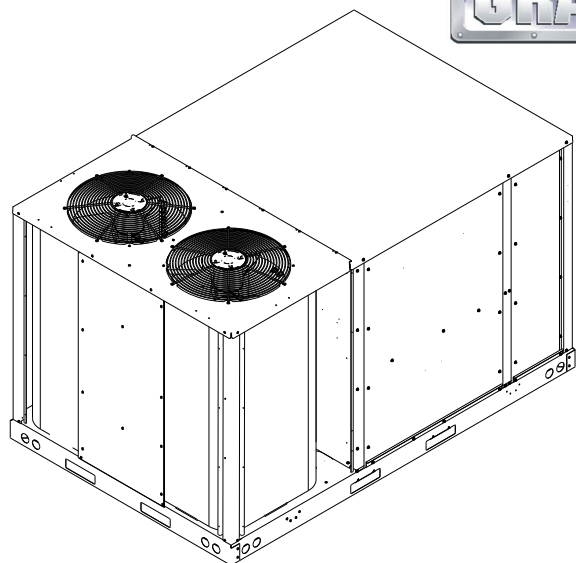




DSC/DSH SERIES LIGHT COMMERCIAL PACKAGED HEATING AND COOLING UNIT 7.5T TO 12.5T

INSTALLATION INSTRUCTIONS



QUEBEC DISCLOSURE REGARDING AVAILABILITY OF REPLACEMENT PARTS, REPAIR SERVICES AND INFORMATION FOR MAINTENANCE AND REPAIR: DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, INC. (DAIKIN) DOES NOT GUARANTEE THE AVAILABILITY OF (1) REPLACEMENT PARTS; (2) REPAIR SERVICES; AND (3) INFORMATION NECESSARY TO MAINTAIN OR REPAIR PRODUCTS, WITHIN THE MEANING OF SECTION 39.1 OF THE CONSUMER PROTECTION ACT, CQLR, c P-40.1 AND SECTION 79.18 OF THE REGULATION RESPECTING THE APPLICATION OF THE CONSUMER PROTECTION ACT, CQLR, c P-40.1, R. 3.

AVIS POUR LE QUÉBEC CONCERNANT LA DISPONIBILITÉ DES PIÈCES DE RECHANGE, DES SERVICES DE RÉPARATION ET DES RENSEIGNEMENTS POUR L'ENTRETIEN ET LA RÉPARATION : DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, INC. (DAIKIN) NE GARANTIT PAS LA DISPONIBILITÉ (1) DES PIÈCES DE RECHANGE, (2) DES SERVICES DE RÉPARATION ET (3) DES RENSEIGNEMENTS POUR L'ENTRETIEN ET LA RÉPARATION, AU SENS DE L'ARTICLE 39.1 DE LA LOI SUR LA PROTECTION DU CONSOMMATEUR, RLRQ c P-40.1 ET DE L'ARTICLE 79.18 DU RÈGLEMENT D'APPLICATION DE LA LOI SUR LA PROTECTION DU CONSOMMATEUR, RLRQ c P-40.1, R. 3.

Our continuing commitment to quality products may mean a change in specifications without notice.

©2026 Daikin Comfort Technologies Manufacturing, Inc.
19001 Kermier Rd., Waller, TX 77484
www.daikincomfort.com



WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

DO NOT BYPASS SAFETY DEVICES



INDEX

SAFETY INSTRUCTIONS	2
REPLACEMENT PARTS	2
GENERAL INFORMATION	3
CLEARANCES	7
ROOF CURB POST-INSTALLATION CHECKS	7
ROOF TOP DUCT CONNECTIONS	7
RIGGING DETAILS	8
WEIGHTS AND CENTER OF GRAVITY	9
ELECTRICAL WIRING	10
CIRCULATING AIR AND FILTERS	12
CONDENSATE DRAIN CONNECTION	12
STARTUP, ADJUSTMENTS, AND CHECKS	13
AIR FLOW ADJUSTMENTS	14
HEAT PUMP OPERATION	18
MAINTENANCE	19
TROUBLESHOOTING	21
APPENDIX A BLOWER PERFORMANCE DATA	25
APPENDIX B ELECTRICAL DATA	49
APPENDIX C UNIT DIMENSIONS	68
APPENDIX D MIN-MAX AIRFLOW	69
WIRING DIAGRAM	70
START-UP CHECKLIST	72

SAFETY INSTRUCTIONS



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION.

These installation instructions cover the outdoor installation of single package heating and cooling units. See the Accessories Guide applicable to your model for information regarding accessories.

***NOTE: PLEASE CONTACT YOUR DISTRIBUTOR OR OUR WEBSITE FOR THE APPLICABLE SPECIFICATION SHEET AND ACCESSORIES GUIDE REFERRED TO IN THIS MANUAL.**

NOTE: THIS UNIT SHOULD BE INSTALLED IN A MANNER SO THAT IT IS NOT ACCESSIBLE TO THE PUBLIC.

REPLACEMENT PARTS

ORDERING PARTS

When reporting shortages or damages report this to <https://www.goodmanmfg.com/logistics-feedback>. When ordering repair parts give the complete unit model and serial numbers as stamped on the unit's nameplate.

Replacement parts for this appliance are available through your contractor or local distributor. Your nearest distributor can be located online at www.daikinac.com or by contacting:

EQUIPMENT SUPPORT

Daikin Comfort Technologies Manufacturing, Inc.
19001 Kermier Road
Waller, Texas 77484
855-770-5678

TO THE INSTALLER

Before installing this unit, please read this manual to familiarize yourself on the specific items which must be adhered to, including maximum external static pressure to unit, air temperature rise, minimum or maximum CFM and motor speed connections.

Keep this literature in a safe place for future reference.



WARNING

TO PREVENT THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH, DO NOT STORE COMBUSTIBLE MATERIALS OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE.



CAUTION

SHEET METAL PARTS, SCREWS, CLIPS AND SIMILAR ITEMS INHERENTLY HAVE SHARP EDGES, AND IT IS NECESSARY THAT THE INSTALLER AND SERVICE PERSONNEL EXERCISE CAUTION.



WARNING

DO NOT CONNECT TO OR USE ANY DEVICE THAT IS LISTED IN THE APPLICABLE PRODUCT SPECIFICATIONS AS ACCEPTABLE FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-APPROVED DEVICES.



WARNING

THIS UNIT MUST NOT BE USED AS A "CONSTRUCTION HEATER" DURING THE FINISHING PHASES OF CONSTRUCTION ON A NEW STRUCTURE. THIS TYPE OF USE MAY RESULT IN PREMATURE FAILURE OF THE UNIT DUE TO EXTREMELY LOW RETURN AIR TEMPERATURE AND EXPOSURE TO CORROSIVE OR VERY DIRTY ATMOSPHERES.



WARNING

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





WARNING

DO NOT USE MEANS TO ACCELERATE DEFROSTING PROCESS OR TO CLEAN, OTHER THAN THOSE RECOMMENDED BY THE MANUFACTURER.

THE APPLIANCE SHALL BE STORED IN A ROOM WITHOUT CONTINUOUSLY OPERATING IGNITION SOURCES (FOR EXAMPLE: OPEN FLAMES, AN OPERATING GAS APPLIANCE OR AN OPERATING ELECTRIC HEATER.

DO NOT PIERCE OR BURN.

BE AWARE THAT REFRIGERANTS MAY NOT CONTAIN AN ODOR.



WARNING

ONLY AUXILIARY DEVICES APPROVED BY THE APPLIANCE MANUFACTURER OR DECLARED SUITABLE WITH THE REFRIGERANT SHALL BE INSTALLED IN CONNECTING DUCTWORK.



WARNING

AUXILIARY DEVICES WHICH MAY BE A POTENTIAL IGNITION SOURCE SHALL NOT BE INSTALLED IN THE DUCT WORK. EXAMPLES OF SUCH POTENTIAL IGNITION SOURCES ARE HOT SURFACES WITH A TEMPERATURE EXCEEDING 700°C AND ELECTRIC SWITCHING DEVICES.



WARNING

LEAK DETECTION SYSTEM INSTALLED. UNIT MUST BE POWERED EXCEPT FOR SERVICE.



WARNING

THIS UNIT IS EQUIPPED WITH ELECTRICALLY POWERED SAFETY MEASURES. TO BE EFFECTIVE, THE UNIT MUST BE ELECTRICALLY POWERED AT ALL TIMES AFTER INSTALLATION, OTHER THAN WHEN SERVICING.



WARNING

DO NOT OPERATE THE COMPRESSOR(S) WITHOUT THE TERMINAL PLUG FULLY ENGAGED OR THE TERMINAL COVER PROPERLY INSTALLED.



WARNING

A TRIPPED CIRCUIT BREAKER OR BLOWN FUSE MAY INDICATE THAT AN ELECTRICAL PROBLEM EXISTS. DO NOT RESET A CIRCUIT BREAKER OR REPLACE FUSES WITHOUT FIRST PERFORMING THOROUGH ELECTRICAL TROUBLESHOOTING AND TESTING PROCEDURES.



WARNING

HIGH VOLTAGE!

PRIOR TO SERVICING THE UNIT OR REMOVING THE COMPRESSOR TERMINAL PLUG OR TERMINAL COVER, DISCONNECT ALL ELECTRICAL POWER FROM THE UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT.



WARNING

HERMETIC COMPRESSOR ELECTRICAL TERMINAL VENTING CAN BE DANGEROUS. IN CERTAIN CIRCUMSTANCES, THE TERMINAL MAY BE EXPELLED, VENTING THE REFRIGERANT VAPOR AND COMPRESSOR OIL CONTAINED WITHIN THE COMPRESSOR HOUSING AND SYSTEM. BE ALERT FOR SOUNDS OF ARCING (SIZZLING, SPATTERING, OR POPPING) INSIDE THE COMPRESSOR. IMMEDIATELY GET AWAY IF YOU HEAR THESE SOUNDS AND DISCONNECT ELECTRICAL POWER FROM THE UNIT.

GENERAL INFORMATION



WARNING

TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DUE TO FIRE, EXPLOSIONS, SMOKE, SOOT, CONDENSATION, ELECTRIC SHOCK OR CARBON MONOXIDE, THIS UNIT MUST BE PROPERLY INSTALLED, REPAIRED, OPERATED, AND MAINTAINED.

This unit is approved for outdoor installation ONLY.

Not accessible to the public. Rated performance is achieved after 20 hours of operation. Rated performance is delivered at the specified airflow. See outdoor unit specification sheet for split system models or product specification sheet for packaged and light commercial models. Specification sheets can be found at www.daikincomfort.com for Daikin brand products. Within the website, please select the residential or commercial products menu and then select the submenu for the type of product to be installed, such as air conditioners or heat pumps, to access a list of product pages that each contain links to that model's specification sheet.

QUALIFICATION OF WORKERS

PERSONNEL MUST BE CERTIFIED TO SERVICE, WORK, AND/OR REPAIR UNITS WITH FLAMMABLE REFRIGERANTS. A CERTIFICATE SHOULD DOCUMENT THE COMPETENCE AND QUALIFICATIONS ACHIEVED THROUGH TRAINING THAT INCLUDED THE SUBSTANCE OF THE FOLLOWING:

- INFORMATION ABOUT THE EXPLOSION POTENTIAL OF FLAMMABLE REFRIGERANTS TO SHOW THAT FLAMMABLES MAY BE DANGEROUS WHEN HANDLED WITHOUT CARE.
- INFORMATION ABOUT POTENTIAL IGNITION SOURCES, ESPECIALLY THOSE THAT ARE NOT OBVIOUS, SUCH AS LIGHTERS, LIGHT SWITCHES, VACUUM CLEANERS, ELECTRIC HEATERS.
- INFORMATION ABOUT THE DIFFERENT SAFETY CONCEPTS, INCLUDING VENTILATED AND UNVENTILATED AREAS.
- INFORMATION ABOUT REFRIGERANT DETECTORS, INCLUDING FUNCTION, OPERATION, AND SERVICE MEASURES.
- INFORMATION ABOUT THE CONCEPT OF SEALED COMPONENTS AND SEALED ENCLOSURES ACCORDING TO IEC 60079-15:2010.
- INFORMATION ABOUT THE CORRECT WORKING PROCEDURES, INCLUDING COMMISSIONING, MAINTENANCE, REPAIR, DECOMMISSIONING, AND DISPOSAL PROCEDURES.

EPA REGULATIONS

IMPORTANT: THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS ISSUED VARIOUS REGULATIONS REGARDING THE INTRODUCTION AND DISPOSAL OF REFRIGERANTS IN THIS UNIT. FAILURE TO FOLLOW THESE REGULATIONS MAY HARM THE ENVIRONMENT AND CAN LEAD TO THE IMPOSITION OF SUBSTANTIAL FINES. BECAUSE REGULATIONS MAY VARY DUE TO PASSAGE OF NEW LAWS, WE SUGGEST A CERTIFIED TECHNICIAN PERFORM ANY WORK DONE ON THIS UNIT. SHOULD YOU HAVE ANY QUESTIONS PLEASE CONTACT THE LOCAL OFFICE OF THE EPA.

NATIONAL CODES

This product is designed and manufactured to permit installation in accordance with National Codes. It is the installer's responsibility to install the product in accordance with National Codes and/or prevailing local codes and regulations.

The heating and cooling capacities of the unit should be greater than or equal to the design heating and cooling loads of the area to be conditioned. The loads should be calculated by an approved method or in accordance with ASHRAE Guide or Manual J - Load Calculations published by the Air Conditioning Contractors of America.

Obtain from:

American National Standards Institute
www.ansi.org

System design and installation should also, where applicable, follow information presented in accepted industry guides such as the ASHRAE Handbooks. The manufacturer assumes no responsibility for equipment installed in violation of any code or regulation. The mechanical installation of the packaged roof top units consists of making final connections between the unit and building services; supply and return duct connections; and drain connections (if required). The internal systems of the unit are completely factory-installed and tested prior to shipment.

Units are generally installed on a steel roof mounting curb assembly which has been shipped to the job site for installation on the roof structure prior to the arrival of the unit. The model number shown on the unit's identification plate identifies the various components of the unit such as refrigeration tonnage, heating input and voltage.

Carefully inspect the unit for damage including damage to the cabinetry. Any bolts or screws which may have loosened in transit must be re-tightened.

In the event of damage, the receiver should:

1. Make notation on delivery receipt of any visible damage to shipment or container.
2. Notify the carrier promptly and request an inspection.
3. In case of concealed damage, the carrier should be notified as soon as possible-preferably within 5 days.
4. File the claim with the following supporting documents:
 - a. Original Bill of Lading, certified copy, or indemnity bond.
 - b. Original paid freight bill or indemnity in lieu thereof.
 - c. Original invoice or certified copy thereof, showing trade and other discounts or reductions.
 - d. Copy of the inspection report issued by the carrier representative at the time damage is reported to the carrier. The carrier is responsible for making prompt inspection of damage and for a thorough investigation of each claim. The distributor or manufacturer will not accept claims from dealers for transportation damage.

NOTE: WHEN INSPECTING THE UNIT FOR TRANSPORTATION DAMAGE, REMOVE ALL PACKAGING MATERIALS. RECYCLE OR DISPOSE OF THE PACKAGING MATERIAL ACCORDING TO LOCAL CODES.

TERMINAL VENTING

Never operate the compressor without the terminal cover secured and properly in place or without the electrical plug fully seated and engaged to the terminal posts. If a terminal is damaged, electrically overloaded, or short circuits to ground, there is a remote possibility that the terminal can be suddenly expelled from the terminal housing thereby venting the refrigerant and compressor oil mixture to atmosphere. This discharge can be ignited from electrical arcing, or other open sources of ignition, and can cause potentially severe or fatal injury. This event is known as Terminal Venting. To reduce the possibility of external ignition, all open flames or other heat sources must be extinguished, and all electrical power must be turned off and made to comply with "lockout-tagout" procedure prior to opening the terminal cover or removing the electrical plug and servicing the system. Proper sealed system evacuation is required during equipment service to maintain adequate internal system cleanliness while eliminating contaminants. Be alert for sounds of arcing (sizzling, sputtering, or popping) inside the compressor. **IMMEDIATELY GET AWAY** from the unit if you hear these sounds and disconnect electrical power.

PRE-INSTALLATION CHECKS

Carefully read all instructions for the installation prior to installing unit. Ensure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally.

WIRING

Check that wiring will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

DETECTION OF FLAMMABLE REFRIGERANTS

"Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of **FLAMMABLE REFRIGERANTS**, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)

Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/ extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system:



WARNING

TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

IMPORTANT NOTE: REMOVE WOOD SHIPPING RAILS PRIOR TO INSTALLATION OF THE UNIT.

NOTE: UNITS MAY BE INSTALLED IN HEAVY SNOW CLIMATES. ENSURE NO SNOW OBSTRUCTS OR COVERS THE UNIT, AS IT MAY AFFECT PERFORMANCE. REGULARLY CHECK FOR SNOW BUILD UP.

ALL INSTALLATIONS:

IMPORTANT NOTE: *UNIT SHOULD BE ENERGIZED 24 HOURS PRIOR TO COMPRESSOR START UP TO ENSURE CRANKCASE HEATER HAS SUFFICIENTLY WARMED THE COMPRESSORS. COMPRESSOR DAMAGE MAY OCCUR IF THIS STEP IS NOT FOLLOWED.*

NOTE: VERIFY THAT THE VOLTAGE LISTED ON THE UNIT'S SERIAL PLATE MATCHES WHAT IS PROVIDED BY THE SITE.

FOR DSC 090-150 AND DSH 090-120:



WARNING

THE APPLIANCE SHALL BE INSTALLED. OPERATED AND STORED IN A ROOM WITH A FLOOR AREA NOT LESS THAN THE MINIMUM ROOM AREA.



$$\geq 15.3 \text{ m}^2$$
$$164.7 \text{ ft}^2$$

FOR DSH150:



WARNING

THE APPLIANCE SHALL BE INSTALLED. OPERATED AND STORED IN A ROOM WITH A FLOOR AREA NOT LESS THAN THE MINIMUM ROOM AREA.



$$\geq 20.7 \text{ m}^2$$
$$222.3 \text{ ft}^2$$

IMPORTANT: REFER TO THE ALTITUDE ADJUSTED ROOM AREA CALCULATION REFERENCED LATER IN THIS MANUAL.

Proper installation of the unit ensures trouble-free operation. Improper installation can result in problems ranging from noisy operation to property or equipment damages, dangerous conditions that could result in injury or personal property damage and that are not covered by the warranty. Give this booklet to the user and explain it's provisions. The user should retain these instructions for future reference.

- To avoid possible illness or death of the building occupants, do NOT locate outside air intake device (economizer, manual fresh air intake, motorized fresh air intake) too close to an exhaust outlet, gas vent termination, or plumbing vent outlet. For specific distances required, consult local codes.
- Allow minimum clearances from the enclosure for fire protection, proper operation, and service access (see unit clearances). These clearances must be permanently maintained.
- When the unit is heating, the temperature of the return air entering the unit must be a minimum of 55° F.

GROUND LEVEL INSTALLATIONS ONLY:

- When the unit is installed on the ground adjacent to the building, a level concrete (or equal) base is recommended. Prepare a base that is 3" larger than the package unit footprint and a minimum of 3" thick.
- The base should also be located where no runoff of water from higher ground can collect in the unit.

ROOF TOP INSTALLATIONS ONLY:

- To avoid possible property damage or personal injury, the roof must have sufficient structural strength to carry the weight of the unit(s) and snow or water loads as required by local codes. Consult a structural engineer to determine the weight capabilities of the roof.
- The unit may be installed directly on wood floors or on Class A, Class B, or Class C roof covering material.
- To avoid possible personal injury, a safe, flat surface for service personnel should be provided.

UNIT PRECAUTIONS

- Do not stand or walk on the unit.
- Do not drill holes anywhere in panels or in the base frame of the unit except where indicated. Unit access panels provide structural support.
- Do not remove any access panels until unit has been installed on roof curb or field supplied structure.
- Do not roll unit across finished roof without prior approval of owner or architect.
- Do not skid or slide on any surface as this may damage unit base. The unit must be stored on a flat, level surface. Protect the condenser coil because it is easily damaged.

ROOF CURB INSTALLATIONS ONLY:

Curb installations must comply with local codes and should be done in accordance with the established guidelines of the National Roofing Contractors Association.

Proper unit installation requires that the roof curb be firmly and permanently attached to the roof structure. Check for adequate fastening method prior to setting the unit on the curb.

Full perimeter roof curbs are available from the factory and are shipped unassembled. Field assembly, squaring, leveling and mounting on the roof structure are the responsibility of the installing contractor. All required hardware necessary for the assembly of the sheet metal curb is included in the curb accessory.



WARNING

TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

- Sufficient structural support must be determined prior to locating and mounting the curb and package unit.
- Ductwork must be constructed using industry guidelines. The duct work must be placed into the roof curb before mounting the package unit. Our full perimeter curbs include duct connection frames to be assembled with the curb. Cantilevered type curbs are not available from the factory.
- Curb insulation, cant strips, flashing and general roofing material are furnished by the contractor.
- The curbs must be supported on parallel sides by roof members.
- The roof members must not penetrate supply and return duct opening areas as damage to the unit might occur.

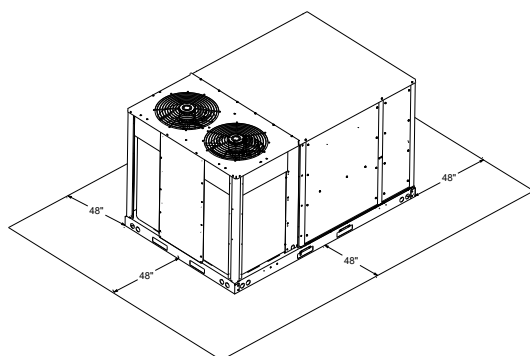
NOTE: THE UNIT AND CURB ACCESSORIES ARE DESIGNED TO ALLOW VERTICAL DUCT INSTALLATION BEFORE UNIT PLACEMENT. DUCT INSTALLATION AFTER UNIT PLACEMENT IS NOT RECOMMENDED.


CAUTION

ALL CURBS LOOK SIMILAR. TO AVOID INCORRECT CURB POSITIONING, CHECK JOB PLANS CAREFULLY AND VERIFY MARKINGS ON CURB ASSEMBLY. INSTRUCTIONS MAY VARY IN CURB STYLES AND SUPERSEDES INFORMATION SHOWN.

See the manual shipped with the roof curb for assembly and installation instructions.

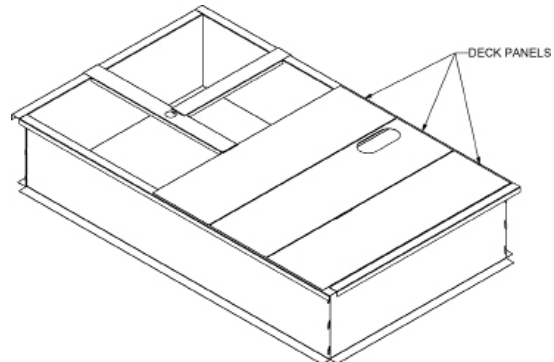
CLEARANCES



UNIT CLEARANCES
FIGURE 1

**In situations that have multiple units, a 48" minimum clearance is required between the condenser coils.* Adequate clearance around the unit should be kept for safety, service, maintenance, and proper unit operation. A clearance of 48" is recommended on all sides of the unit to facilitate possible parts replacement, to allow service access and to insure proper ventilation and condenser airflow. The top of the unit should be completely unobstructed. If units are to be located under an overhang, there should be a minimum of 48" clearance and provisions made to deflect the warm discharge air out from the

overhang. The unit should be installed remote from all building exhausts to inhibit ingestion of exhaust air into the unit fresh air intake.



ROOF CURB INSTALLATION
FIGURE 2

ROOF CURB POST-INSTALLATION CHECKS

After installation, check the top of the curb, duct connection frame and duct flanges to make sure gasket has been applied properly. Gasket should be firmly applied to the top of the curb perimeter, duct flanges and any exposed duct connection frame. If gasket is loose, re-apply using strong weather resistant adhesive.

Knocked Down Roof Curbs		
UNIT TONNAGE	DESCRIPTION	PART NUMBER
7.5 to 12.5	Curb 14" Tall	0270L01153
	Curb 24" Tall	0270L01154

PROTRUSION

Inspect curb to ensure that none of the utility services (electric) routed through the curb protrude above the curb.

NOTE: IF FASTENERS ARE USED TO SECURE THE DUCT TO THE CURB, THESE SHOULD BE INSTALLED HORIZONTAL INTO THE DUCT CURB FLANGE.


CAUTION

IF PROTRUSIONS EXIST, DO NOT ATTEMPT TO SET UNIT ON CURB.

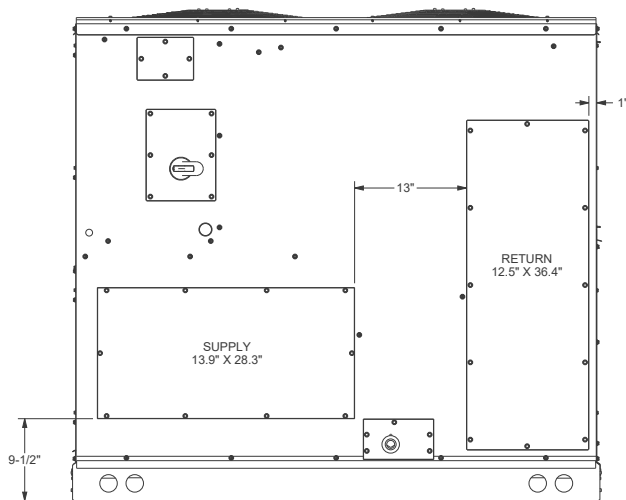
ROOF TOP DUCT CONNECTIONS

Install all duct connections on the unit before placing the unit on rooftop.

HORIZONTAL DISCHARGE

Refer to IOD-7082 included in the literature pack for installing horizontal duct covers.

Flexible duct connectors between the unit and ducts are recommended. Insulate and weatherproof all external ductwork and joints as required and in accordance with local codes.



HORIZONTAL DISCHARGE DUCT CONNECTIONS
FIGURE 3

RIGGING DETAILS



WARNING

TO PREVENT PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING WHEN A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.



CAUTION

DO NOT LIFT UNITS TWO AT A TIME. PROVISIONS FOR FORKS HAVE BEEN INCLUDED IN THE UNIT BASE FRAME. MINIMUM FORK LENGTH IS 72" TO PREVENT DAMAGE TO THE UNIT.

PROVISIONS FOR FORKS HAVE BEEN INCLUDED IN THE UNIT BASE FRAME. NO OTHER FORK LOCATIONS ARE APPROVED.



WARNING

TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport.

Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from fork lift damage. Removal is accomplished by extracting the sheet metal retainers and pulling the struts through the base of the unit. Refer to rigging label on the unit.

- Your unit may be equipped with a steel shipping brace located underneath the unit (under compressors). If installing on a roof curb, the brace **MUST** be removed. Follow the following instructions for removal.

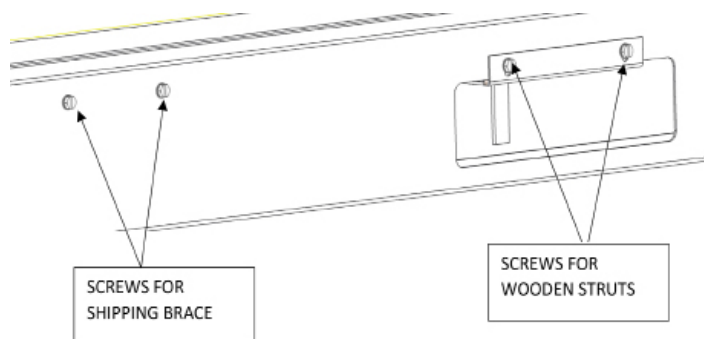


CAUTION

WHEN UNIT IS SUSPENDED, BOARDS AND SHIPPING BRACE WILL DROP WHEN SCREWS ARE REMOVED. TO PREVENT PERSONAL INJURY, STAND CLEAR. REMOVE FORK HOLE BRACKETS, BOARDS AND SHIPPING BRACE FROM BOTTOM OF UNIT BEFORE PLACING UNIT ONTO CURB.

BEFORE INSTALLING THIS UNIT ON A ROOF CURB:

1. Remove wooden struts per installation instructions. *These are the struts that are located in the fork holes and are used to protect the unit from damage while lifting with forks.*
2. Locate and remove the four (4) screws that attach the shipping brace to the side rails. There will be two (2) screws on each side of the unit. *See Figure 4*

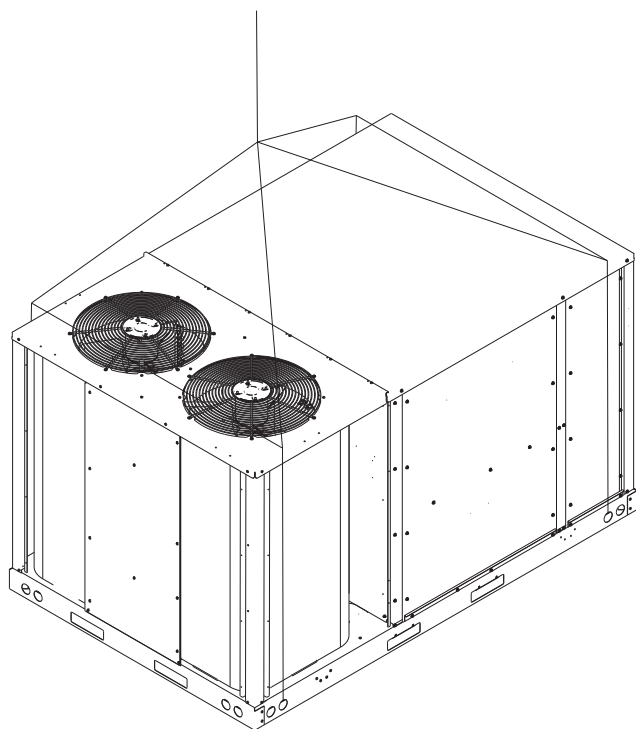


SHIPPING BRACE SCREW AND WOODEN STRUTS
FIGURE 4

3. Lift unit per the "Rigging Details" section of the installation instructions, observing all warnings and cautions. Lift the unit high enough off the ground to reach under and grasp the shipping brace.
4. Rotate the brace by tapping the ends until the brace falls free from the unit.
5. Dispose of the brace appropriately.

IMPORTANT: IF USING BOTTOM DISCHARGE WITH ROOF CURB, DUCTWORK SHOULD BE ATTACHED TO THE CURB PRIOR TO INSTALLING THE UNIT. DUCTWORK DIMENSIONS ARE SHOWN IN ROOF CURB INSTALLATION INSTRUCTIONS.

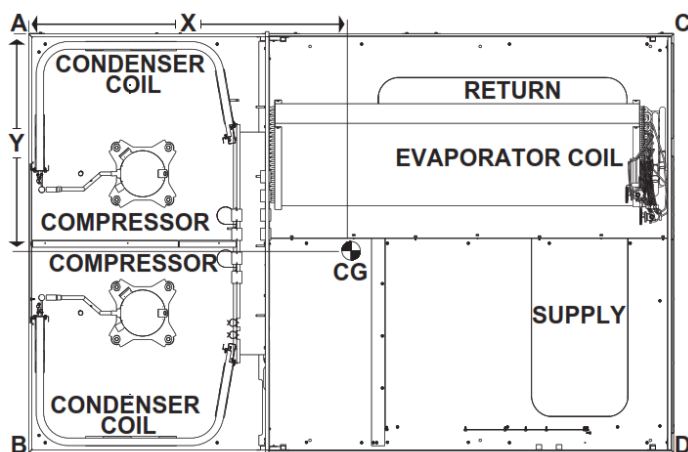
Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.



**UNIT RIGGING
FIGURE 5**

To assist in determining rigging requirements, unit weights and center of gravity are shown as follows:

WEIGHTS AND CENTER OF GRAVITY



**CORNER AND CENTER OF GRAVITY LOCATIONS
FIGURE 6**

NOTE: UNIT SHOULD BE LIFTED AT A POINT ABOVE CENTER OF GRAVITY.

DSC WEIGHTS (lbs)				
Data	7.5T	8.5T	10T	12.5T
Corner weight- A	226	231	280	306
Corner weight- B	274	279	235	274
Corner weight- C	243	244	229	231
Corner weight- D	271	272	325	341
Unit operating weight	1015	1027	1070	1153
Unit shipping weight	1087	1099	1142	1225
X Center	47.5	47.2	48.6	46.6
Y Center	32.4	32.3	31.5	32.2

DSH WEIGHTS (lbs)				
Data	7.5T	8.5T	10T	12.5T
Corner weight- A	271	271	274	457
Corner weight- B	349	349	352	299
Corner weight- C	254	254	257	219
Corner weight- D	283	283	286	389
Unit operating weight	1157	1157	1169	1364
Unit shipping weight	1229	1229	1241	1418
X Center	43.5	43.5	43.6	41.8
Y Center	32.9	32.9	32.9	30.4

THE NUMBERS MAY SLIGHTLY VARY DEPENDING ON INSTALLED OPTIONS. THESE WEIGHTS ARE WITHOUT ACCESSORIES INSTALLED.



CAUTION

TO PREVENT SEVERE DAMAGE TO THE BOTTOM OF THE UNIT, DO NOT FORK LIFT UNIT AFTER WOOD STRUTS HAVE BEEN REMOVED.

Bring condenser end of unit into alignment with the curb first. Lower unit carefully onto roof mounting curb. When a rectangular cantilever curb is used, care should be taken to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

RIGGING REMOVAL



CAUTION

TO PREVENT DAMAGE TO THE UNIT, DO NOT ALLOW CRANE HOOKS AND SPREADER BARS TO REST ON THE ROOF OF THE UNIT.

Remove spreader bars, lifting cables and other rigging equipment.

ELECTRICAL WIRING



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

HIGH VOLTAGE!
TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DO NOT TAMPER WITH FACTORY WIRING. THE INTERNAL POWER AND CONTROL WIRING OF THESE UNITS ARE FACTORY-INSTALLED AND HAVE BEEN THOROUGHLY TESTED PRIOR TO SHIPMENT. CONTACT YOUR LOCAL REPRESENTATIVE IF ASSISTANCE IS REQUIRED.



CAUTION

TO PREVENT DAMAGE TO THE WIRING, PROTECT WIRING FROM SHARP EDGES. FOLLOW NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES. DO NOT ROUTE WIRES THROUGH REMOVABLE ACCESS PANELS.



CAUTION

CONDUIT AND FITTINGS MUST BE WEATHER-TIGHT TO PREVENT WATER ENTRY INTO THE BUILDING.

The main power supply shall be three-phase, three wire with a proper ground.

The unit is factory wired for the voltage shown on the unit's data plate.

NOTE: IF SUPPLY VOLTAGE IS 208V, LEAD ON PRIMARY OF TRANSFORMER(S) MUST BE MOVED FROM THE 240V TO THE 208V TAP. REFER TO WIRING DIAGRAM ON UNIT FOR DETAILS.

Main power wiring should be sized for the minimum circuit ampacity shown on the unit's database. Size wires in accordance with the ampacity tables in Article 310 of the National Electrical Code. If long wires are required, it may be necessary to increase the wire size to prevent excessive voltage drop. Wires should be sized for a maximum of 3% voltage drop.



CAUTION

TO AVOID RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, USE ONLY COPPER CONDUCTORS.



CAUTION

TO PREVENT IMPROPER AND DANGEROUS OPERATION DUE TO WIRING ERRORS, LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. VERIFY PROPER OPERATION AFTER SERVICING.

NOTE: A WEATHER-TIGHT DISCONNECT SWITCH, PROPERLY SIZED FOR THE UNIT TOTAL LOAD, MUST BE FIELD OR FACTORY INSTALLED. AN EXTERNAL FIELD SUPPLIED DISCONNECT MAY BE MOUNTED ON THE EXTERIOR PANEL.

Ensure the data plate is not covered by the field-supplied disconnect switch.

- Some disconnect switches are not fused. Protect the power leads at the point of distribution in accordance with the unit data plate.
- The unit must be electrically grounded in accordance with local codes or, in the absence of local codes, with the latest edition of the National Electrical Code ANSI/NFPA 70, and/or the Canadian Electrical Code, CSA C22.1, Part 1. A ground lug is provided for this purpose. Do not use the ground lug for connecting a neutral conductor.
- Connect power wiring to the electrical power block located within the main control box.

For unit protection, use a fuse or HACR circuit breaker that is in excess of the circuit ampacity, but less than or equal to the maximum overcurrent protection device. DO NOT EXCEED THE MAXIMUM OVERCURRENT DEVICE SIZE SHOWN ON UNIT DATA PLATE.

All line voltage connections must be made through weatherproof fittings. All exterior power supply and ground wiring must be in approved weatherproof conduit.

The main power supply wiring to the unit and low voltage wiring to accessory controls must be done in accordance with these instructions, the latest edition of the National Electrical Code (ANSI/NFPA 70), and all local codes and ordinances.

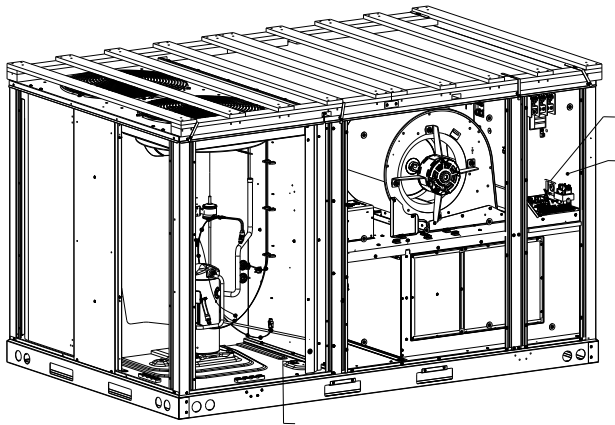
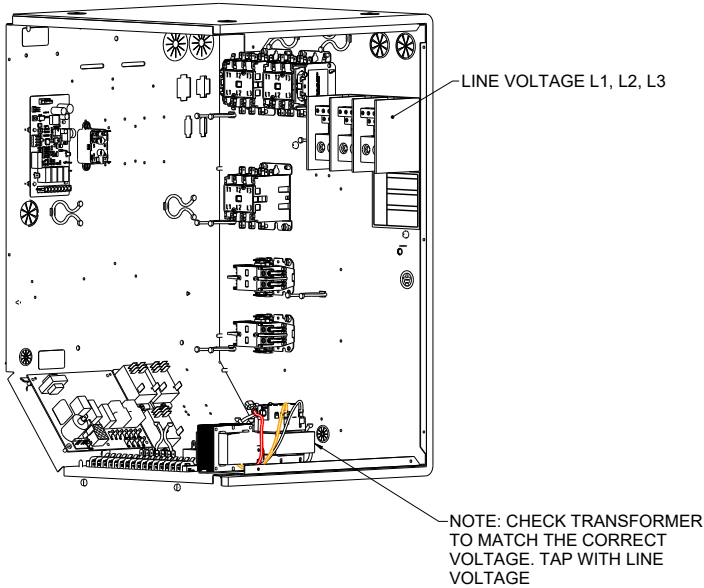


FIGURE 7A



**CONTROL BOX
FIGURE 7B**

NOTE: DEPENDING ON THE OPTIONS INSTALLED, THE LOCATION OF THE COMPONENTS MAY VARY IN SOME MODELS.



WARNING

FAILURE OF UNIT DUE TO OPERATION ON IMPROPER LINE VOLTAGE OR WITH EXCESSIVE PHASE UNBALANCE CONSTITUTES PRODUCT ABUSE AND MAY CAUSE SEVERE DAMAGE TO THE UNIT ELECTRICAL COMPONENTS.

AREAS WITHOUT CONVENIENCE OUTLET

It is recommended that an independent 115V power source be brought to the vicinity of the roof top unit for portable lights and tools used by the service mechanic.

NOTE: REFER TO LOCAL CODES FOR REQUIREMENTS. THESE OUTLETS CAN ALSO BE FACTORY INSTALLED.

UNITS INSTALLED ON ROOF TOPS

Main power and low voltage wiring may enter the unit through the condenser end of unit or through the roof curb. Install conduit connectors through the designated base pan entrance location. External connectors must be weatherproof. All holes in the unit base must be sealed (including those around conduit nuts) to prevent water leakage into building. All required conduit and fittings are to be field supplied.

Supply voltage to roof top unit must not vary by more than 10% of the value indicated on the unit data plate. Phase voltage unbalance must not exceed 2%. Contact your local power company for correction of improper voltage or phase unbalance.

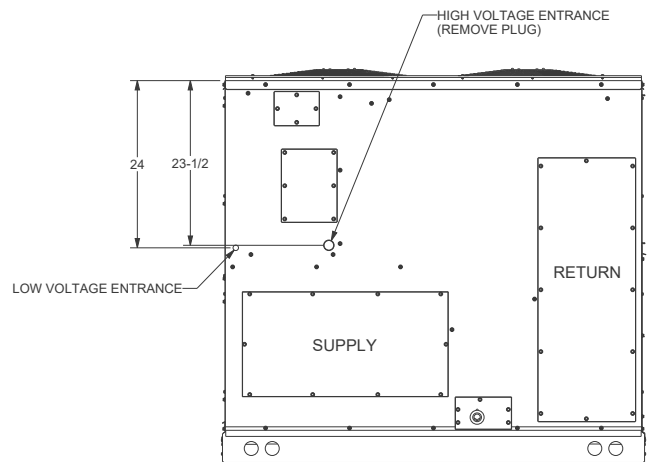
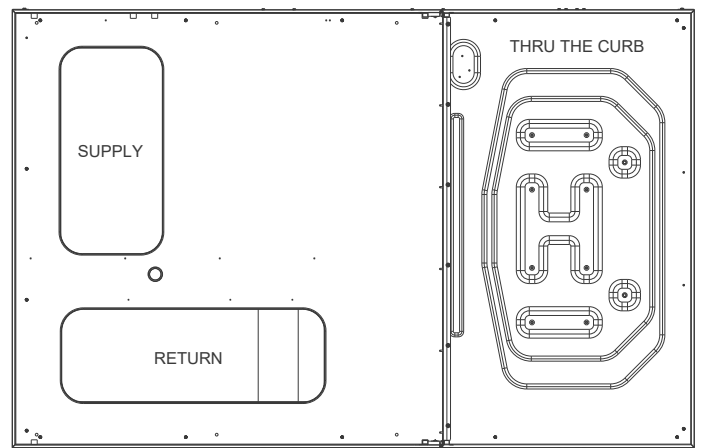


FIGURE 8A



**ELECTRICAL ENTRANCE AND THRU CURB
FIGURE 8B**

"Through the Base Pan Kit" Part Numbers

TTBCKHE02

TTBCKHE02FI (Factory Kit)

LOW VOLTAGE CONTROL WIRING

1. A 24V thermostat must be installed for unit operation.

2. Locate thermostat or remote sensor in the conditioned space where it will sense average temperature. Do not locate the device where it may be directly exposed to supply air, sunlight or other sources of heat. Follow installation instructions packaged with the thermostat.
3. Use #18 AWG wire for 24V control wiring runs not exceeding 75 feet. Use #16 AWG wire for 24V control wiring runs not exceeding 125 feet. Use #14 AWG wire for 24V control wiring runs not exceeding 200 feet. Low voltage wiring may be National Electrical Code (NEC) Class 2 where permitted by local codes.
4. Route thermostat wires from sub-base terminals to the unit. Control wiring should enter through the condenser panel opening or through curb indicated in "Electrical Entrance and Thru Curb" Figure 8B. Connect thermostat and any accessory wiring to low voltage terminal block TB1 in the main control box.

NOTE: FIELD-SUPPLIED CONDUIT MAY NEED TO BE INSTALLED DEPENDING ON UNIT/CURB CONFIGURATION. USE #18 AWG SOLID CONDUCTOR WIRE WHENEVER CONNECTING THERMOSTAT WIRES TO TERMINALS ON SUB-BASE. DO NOT USE LARGER THAN #18 AWG WIRE. A TRANSITION TO #18 AWG WIRE MAY BE REQUIRED BEFORE ENTERING THERMOSTAT SUB-BASE.

NOTE: REFER TO UNIT WIRING DIAGRAMS FOR THERMOSTAT OR REMOTE SENSOR CONNECTIONS.

CIRCULATING AIR AND FILTERS

DUCTWORK

The supply duct from the unit through a wall may be installed without clearance. However, minimum unit clearances must be maintained (see "Clearances" section). The supply duct should be provided with an access panel large enough to inspect the air chamber downstream of the heat exchanger. A cover should be tightly attached to prevent air leaks. False ceilings or drop ceilings may be used as a return air plenum.

NOTE: Adequate return grills have to be supplied for each room for proper return for that space.

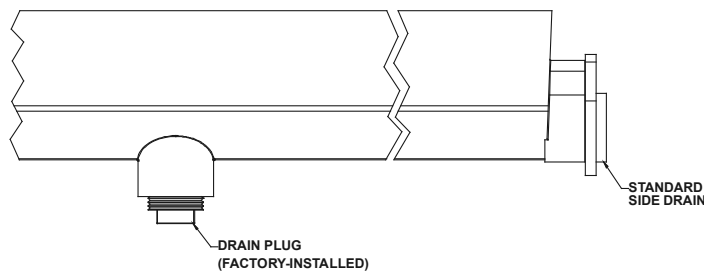
Ductwork dimensions are shown in the roof curb installation manual.

If desired, supply and return duct connections to the unit may be made with flexible connections to reduce possible unit operating sound transmission.

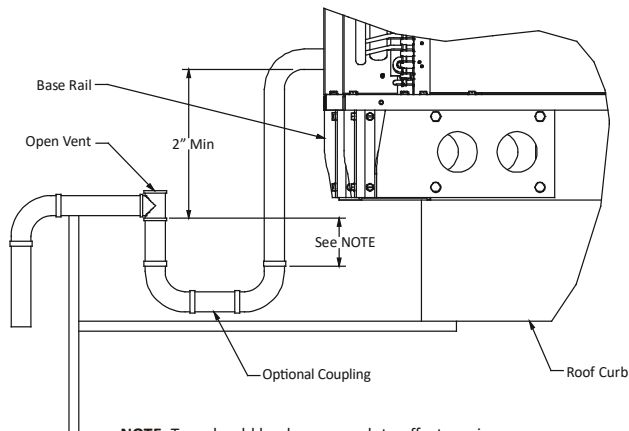
CONDENSATE DRAIN CONNECTION

CONDENSATE DRAIN CONNECTION

A 3/4" female NPT drain connection is supplied on the end of the unit and bottom of the drain pan for condensate piping. An external trap must be installed for proper condensate drainage. Hand tighten drain fitting to the drain connection.



**DRAIN PAN (SIDE VIEW)
FIGURE 9**



NOTE: Trap should be deep enough to offset maximum unit static difference. A minimum 4" trap is recommended.

**DRAIN CONNECTION
FIGURE 10**

Install condensate drain trap as shown. Use 3/4" drain line and fittings or larger. Do not operate without trap.

HORIZONTAL DRAIN

Drainage of condensate directly onto the roof may be acceptable; refer to local code. It is recommended that a small drip pad of either stone, mortar, wood or metal be provided to prevent any possible damage to the roof.

VERTICAL DRAIN

To use the bottom drain connection, remove the drain plug from the bottom connection and install it in the horizontal connection. Refer to local code for proper drain routing.

NOTE: ALL THREADED CONNECTIONS USE PIPE SEALER.

CLEANING

Due to the fact that the drain pans in any air conditioning unit will have some moisture in them, algae and fungus will grow due to airborne bacteria and spores. Periodic cleaning is necessary to prevent the build-up from plugging the drain.

To remove the drain pan for cleaning, remove the drain pan cover first (located on duct panel) then slide out the drain pan.

STARTUP, ADJUSTMENTS, AND CHECKS

PRE-STARTUP INSTRUCTIONS - GENERAL

Prior to the beginning of Startup, Adjustment, and Checks procedures, the following warnings, steps, and checks should be read and completed.



WARNING

HIGH VOLTAGE!

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, BOND THE FRAME OF THIS UNIT TO THE BUILDING ELECTRICAL GROUND BY USE OF THE GROUNDING TERMINAL PROVIDED OR OTHER ACCEPTABLE MEANS. DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT.



CAUTION

TO PREVENT PROPERTY DAMAGE OR PERSONAL INJURY, DO NOT START THE UNIT UNTIL ALL NECESSARY PRE-CHECKS AND TESTS HAVE BEEN PERFORMED.



WARNING

MOVING MACHINERY HAZARD!

TO PREVENT POSSIBLE PERSONAL INJURY OR DEATH, DISCONNECT POWER TO THE UNIT AND PADLOCK IN THE "OFF" POSITION BEFORE SERVICING FANS.

On new installations, or if a major component has been replaced, the operation of the unit must be checked.

Check unit operation as outlined in the following instructions. If any sparking, odors, or unusual sounds are encountered, shut off electrical power and recheck for wiring errors, or obstructions in or near the blower motors. **Duct covers must be removed before operating unit in horizontal duct applications. (This only applies to units that have horizontal duct attached.)**

The Startup, Adjustments, and Checks procedure provides a step-by-step sequence which, if followed, will assure the proper startup of the equipment in the minimum amount of time. Air balancing of duct system is not considered part of this procedure. However, it is an important phase of any air conditioning system startup and should be performed upon completion of the Startup, Adjustments, and Checks procedure. The Startup, Adjustments, and Checks procedure at outside ambients below 55°F should be limited to a readiness check of the refrigeration system with the required final check and calibration left to be completed when the outside ambient rises above 55°F.

TEMPORARY HEATING OR COOLING

If the unit is to be used for temporary heating or cooling, a "Startup, Adjustments, and Checks" must first be performed in accordance with this manual. Damage or repairs due to failure to comply with these requirements are not covered under the warranty. **After** the machines are used for temporary heating or cooling, inspect the coils, fans, and motors for unacceptable levels of construction dust and dirt and install new filters.

CONTRACTOR RESPONSIBILITY

The installing contractor must be certain that:

- All supply and return air ductwork is in place, properly sealed, and corresponds with installation instructions.
- All thermostats are mounted and wired in accordance with installation instructions.
- All electric power, all gas, and the condensate drain installation have been made to each unit on the job. These main supply lines must be functional and capable of operating all units simultaneously.
- Air filters are in place.

ROOF CURB INSTALLATION CHECK

Inspect the roof curb for correct installation. The unit and curb assembly should be level. Inspect the flashing of the roof mounting curb to the roof, especially at the corners, for good workmanship. Also check for leaks around gaskets. Note any deficiencies in a separate report and forward to the contractor.

OBSTRUCTIONS, FAN CLEARANCE AND WIRING

Remove any extraneous construction and shipping materials that may be found during this procedure. Rotate all fans manually to check for proper clearances and that they rotate freely. Check for bolts and screws that may have jarred loose during shipment to the job site. Re-tighten if necessary. Re-tighten all electrical connections.

FIELD DUCT CONNECTIONS

Verify that all duct connections are tight and that there is no air bypass between supply and return.

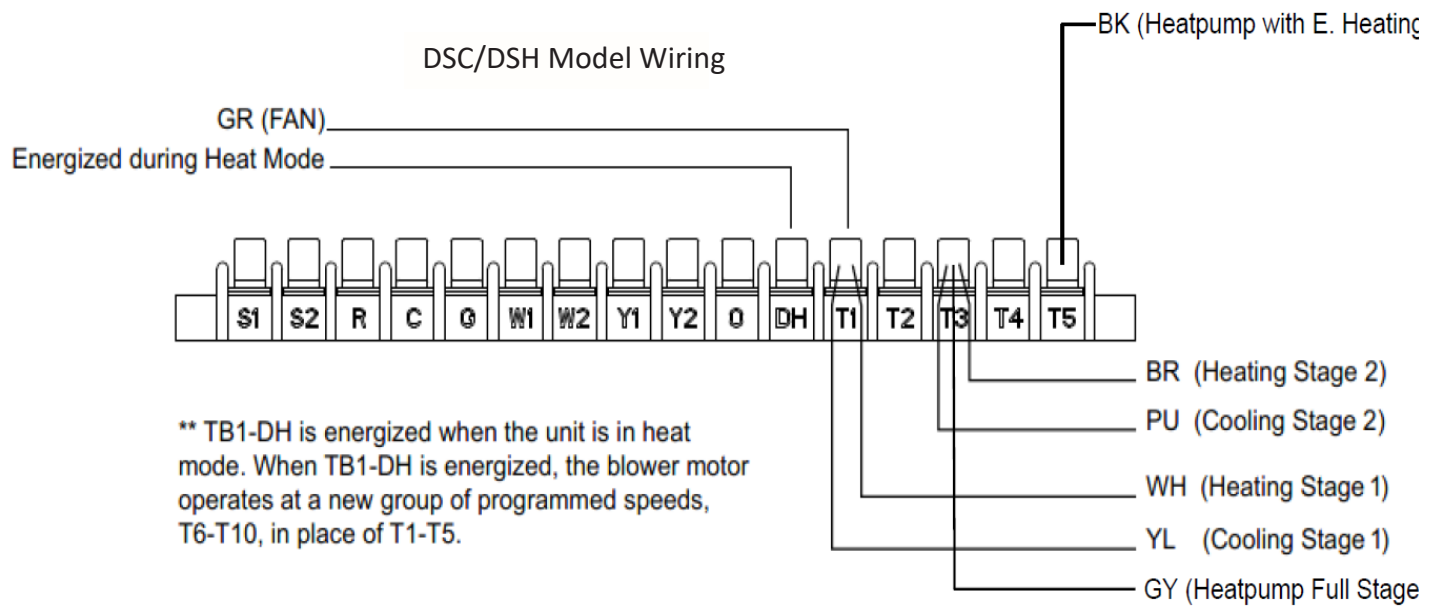
FILTER SECTION CHECK

Remove filter section access panels and check that filters are properly installed. Note airflow arrows on filter frames.

PRE-STARTUP PRECAUTIONS

It is important for your safety that the unit has been properly grounded during installation. Check ground lug connection in main control box for tightness prior to closing circuit breaker or disconnect switch. Verify that supply voltage on line side of disconnect agrees with voltage on unit identification plate and is within the utilization voltage range as indicated in Appendix B Electrical Data.

System Voltage - The nominal voltage value assigned to a circuit or system for the purpose of designating its voltage class.



Nameplate Voltage - The voltage assigned to a piece of equipment for the purpose of designating its voltage class and for the purpose of defining the minimum and maximum voltage at which the equipment will operate.

Utilization Voltage - The voltage of the line terminals of the equipment at which the equipment must give fully satisfactory performance. Once it is established that supply voltage will be maintained within the utilization range under all system conditions, check and calculate if an unbalanced condition exists between phases. Calculate percent voltage unbalance as follows.

THREE PHASE MODELS ONLY

$$3) \text{ PERCENT VOLTAGE UNBALANCE} = 100 \times \frac{2) \text{ MAXIMUM VOLTAGE DEVIATIONS FROM AVERAGE VOLTAGE}}{1) \text{ AVERAGE VOLTAGE}}$$

HOW TO USE THE FORMULA:

EXAMPLE: Line to Neutral Voltage of 220, 216, and 213

1) Average Voltage = $220+216+213=649 / 3 = 216$

2) Maximum Voltage Deviations from Average Voltage = $220 - 216 = 4$

3) Percent Voltage Unbalance = $100 \times \frac{4}{216} = \frac{400}{216} = 1.8\%$

Percent voltage unbalance MUST NOT exceed 2%.

CONTROL VOLTAGE CHECK

Close the disconnect switch to energize control transformer. Check primary and secondary (24V) of control transformer.

AIR FLOW ADJUSTMENTS

When the final adjustments are complete, the current draw of the motor should be checked and compared to the full load current rating of the motor. The amperage must not exceed the service factor stamped on the motor nameplate. The total airflow must not be less than that required for operation of the electric heater. Refer to Appendix D.

If an economizer is installed, check the unit operating balance with the economizer at full outside air and at minimum outside air.

NOTE: NEVER RUN HIGH STAGE CFM BELOW 300 CFM PER TON, EVAPORATOR FREEZING OR POOR UNIT PERFORMANCE IS POSSIBLE.

EEM - STANDARD STATIC DRIVE MOTOR

Adjust the CFM for the unit by changing the position of the low voltage leads on the terminal block TB1. Refer to Appendix A for blower performance at each speed tap. The table below shows RECOMMENDED SPEED TAPS for heating and cooling. Refer to Appendix D for maximum and minimum allowed airflow for heating and cooling.

BLOWER SPEED SELECTION

The unit has one set of taps for cooling (T1-T5), taps for heatpump (T3-T5) and a second set of taps for electric heater heating - (E.Heat) (T6-T10). When electric heat is called TB1-W1 will also call TB1-DH activating the second set of taps T6-T10. If ever the cooling and E.heating is called at the same time (defrost) heating taps will take priority and T6-T10 will be chosen by default. Tap T1 and T2 are for low cool operation (cooling stage 1) and Taps T3 to T5 are for high cool operation (cooling stage 2). Similar taps Taps T3 to T5 are for heatpump operation (heatpump full stage). Tap T6 and T7 are for low heat operation (electric heat stage 1) and T8 to T10 are for high heat operation (electric heat stage 2). Tap T8 to T10 are for Defrost operation. Tap 10 for heatpump with electric heat. Taps are selected by changing the position of the low voltage leads on the terminal block TB1. Refer to Appendix A for blower performance at each speed tap.

NOTE: IF MORE THAN ONE LEAD IS ENERGIZED SIMULTANEOUSLY, THE MOTOR WILL RUN AT THE HIGHER NUMERICAL SPEED VALUE.

Fan speed for G (GR) is fixed at TB1-T1 and cannot be moved.

Low Cool, Yellow (YL) is moveable and set to TB1-T1.

Low Heat, White (WH) is moveable and set to TB1-T6.

High Cool, Purple (PU) is moveable and set to TB1-T3.

High Heat, Brown (BR) is moveable and set to TB1-T8.

High Cool with EHeat, Purple (PU) is moveable and set to TB1-T8.

Heatpump Heat, Gray (GY) is moveable and set to TB1-T3.

Heatpump with EHeat, Black (BK) is moveable and set to TB1-T10. These wires can be moved together or separately and placed on any unoccupied terminal.

NOTE: YL CAN BE MOVED TO TAP T3 AS LONG AS YL DOES NOT SHARE THE TAP WITH PU. WH CAN BE MOVED TO TAP T7 AS LONG AS WH DOES NOT SHARE THE TAP WITH BR.

If high cool operation is set at Tap T4 or T5, low cool operation must be set at T2.

If high heat operation is set at T9 or T10, low heat operation must be set at T7.

SET EVAPORATOR FAN RPM

Actual RPM's must be set and verified with a tachometer or strobe light. Refer to Appendix A for basic unit fan RPM. Refer also to "Airflow" section of this manual. With disconnect switch open, disconnect thermostat wires from terminals Y and W. This will prevent heating and mechanical cooling from coming on. Place a jumper wire across terminals R and G at TB1 terminal block. Close disconnect switch; evaporator fan motor will operate so RPM can be checked.

ELECTRICAL INPUT CHECK

Make preliminary check of evaporator fan ampere draw and verify that motor nameplate amps are not exceeded. A final check of amp draw should be made upon completion of air balancing of the duct system (see Appendix B).

AIR CONDITIONING START-UP PROCEDURE AND CHECKLIST

Begin with power turned off at all disconnects.

1. Turn thermostat system switch to "Cool," and fan switch to "Auto" and turn temperature setting as high as it will go.
2. Inspect all registers and set them to the normal open position.
3. Turn on the electrical supply at the disconnect.
4. Turn the fan switch to the "ON" position. The blower should operate after a 7 second delay.
5. Turn the fan switch to "Auto" position. The blower should stop after a 60 second delay.
6. Slowly lower the cooling temperature until first stage COOL (LOW COOL) starts. The blower, first stage fan, and first stage compressor should now be operating. Allow the unit to run 10 minutes, make sure cool air is being supplied by the unit. Check compressor rotation by verifying pressure difference between suction and discharge.

7. Lower the cooling temperature further until second stage COOL (HIGH COOL) starts. The blower, both fans, and both compressors should now be operating. Allow the unit to run 10 minutes, make sure cool air is being supplied by the unit.
8. Check that each compressor is operating correctly. The scroll compressors in these units MUST operate in the proper rotation. To ensure the compressors are operating in the correct direction, check the compressor discharge line pressure or temperature after the compressor is started. The discharge pressure and discharge line temperature should increase. If this does not occur and the compressor is producing an exceptional amount of noise, perform the following checks
 - If a single compressor is operating backwards, check the power wiring for that compressor and correct any leads that have been interchanged at the contactor.
 - If both of the compressors are operating backward, disconnect the unit power supply and lock-out tagout in the OFF position. Switch two leads of the power supply at the unit Single Point Power Block. Reconnect power and check for compressor operation.
9. Turn the temperature setting to the highest position, stopping the unit. The indoor blower will continue to run for 60 seconds.
10. Turn the thermostat system switch to "OFF" and disconnect all power when servicing the unit.



WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



HEAT PUMP START-UP PROCEDURE

1. Check the cooling mode for the heat pump in the same manner as above. The reversing valve is energized when the thermostat is placed in the cooling position. A clicking sound should be noticeable from the reversing valve. By lowering the temperature setting to call for cooling, the contactor is energized. The compressor, blower and fan should then be running. After the cooling mode is checked out, turn the thermostat system switch to "OFF".
2. Turn the thermostat system switch to "HEAT" and fan switch to "AUTO".
3. Slowly raise the heating temperature setting. When the heating first stage makes contact, stop raising the temperature setting. The compressor, blower and fan should now be running with the reversing valve in the de-energized (heating) position. After giving the unit time to settle out, make sure the unit is supplying heated air.

4. If the outdoor ambient is above 80°F, the unit may trip on its high pressure cut out when on heating. The compressor should stop. The heating cycle must be thoroughly checked, so postpone the test to another day when conditions are more suitable but **DO NOT FAIL TO TEST.**
If the outdoor ambient is low and the unit operates properly on the heating cycle, you may check the pressure cutout operation by blocking off the indoor return air until the unit trips.
5. If unit operates properly in the heating cycle, raise the temperature setting until the heating second stage makes contact. Supplemental resistance heat, if installed should now come on. Make sure it operates properly.
NOTE: If outdoor thermostats are installed the outdoor ambient must be below the set point of these thermostats for the heaters to operate. It may be necessary to jumper these thermostats to check heater operation if outdoor ambient is mild.
6. For thermostats with emergency heat switch, return to step 11. The emergency heat switch is located at the bottom of the thermostat. Move the switch to emergency heat. The heat pump will stop, the blower will continue to run, all heaters will come on and the thermostat emergency heat light will come on.
7. If checking the unit in the wintertime, when the outdoor coil is cold enough to actuate the defrost control, observe at least one defrost cycle to make sure the unit defrosts completely.

REFRIGERATION SEQUENCE CHECK

With the disconnect switch open, remove the field connected thermostat wire from terminal R on TB1 terminal block. Place a jumper across terminals R and G, (In the case of a heatpump jumper R and G as well as R and O) and across R and Y on TB1 terminal block. Close the disconnect switch. The following operational sequence should be observed:

1. Current through primary winding of transformer TRANS1 energizes the 24-volt control circuit.
2. To simulate a mechanical call for cooling from the wall thermostat, place a jumper across terminals R and Y1 of terminal block TB1.
3. **UNIT WITH ECONOMIZER OPTION:** The compressor circuit is interlocked through terminals 3 and 4 of the economizer module. If the outdoor air enthalpy (temperature and humidity) is not suitable for cooling, the economizer terminals will be closed permitting compressor to be energized.
4. The blower contactor closes its contacts L1, L2 and L3 to T1, T2 and T3 to provide power to the supply fan motor.
5. Supply fan rotation should not be used to identify proper phasing of the unit. For phasing, please refer to step 7 below. If the supply fan is rotating in the wrong direction, please contact your local distributor or tech services for instructions.

6. Compressor contactor closes its contacts L1, L2 and L3 to T1, T2 and T3 to provide power to the compressor motor COMP 1; COMP 2, if conditions are correct. In addition, contactor C1 closes its contact L3 to T3, energizing the condenser fan motor.



WARNING

BURN HAZARD!
DO NOT TOUCH! DISCHARGE LINE MAY BE HOT!

7. Check that each compressor is operating correctly. The scroll compressors in these units **MUST** operate in the proper rotation. To ensure the compressors are operating in the correct direction, check the compressor discharge line pressure or temperature after each compressor is started. The discharge pressure and discharge line temperature should increase. If this does not occur and the compressor is producing an exceptional amount of noise, perform the following checks.
 - Ensure all compressors and the supply fan motor are operating in the proper direction. If a single motor is operating backwards, check the power wiring for that motor and correct any leads that have been interchanged at the contactor or at the motor.
 - If all of the motors are operating backward, disconnect the unit power supply and lock it in the "OFF" position. Switch two leads of the power supply at the unit Single Point Power Block. Reconnect power and check for compressor and supply fan motor operation.
8. With all safety devices closed, the system will continue cooling operation until the thermostat is satisfied.
9. Disconnecting the jumper wire between R and Y1 and Y2 and between R and G (In the case of a heatpump R and G as well as R and O) on TB1 terminal block will simulate a satisfied thermostat. The compressor and the supply fan will cycle off.
NOTE: After a time delay of approximately 3 minutes, the compressor control circuits will be ready to respond to a subsequent call for cooling from the wall thermostat.
10. Open disconnect switch. Reconnect the field thermostat wire at terminal R on terminal block TB1.

NOTE: WHILE IN THE COOLING MODE, TO PREVENT FROST FROM FORMING ON THE EVAPORATOR WHILE THE UNIT IS OPERATING IN OUTDOOR TEMPERATURES OF 65°F OR LOWER, IT IS RECOMMENDED THAT A LOW AMBIENT KIT (LAKT-) IS USED. THIS IS STRONGLY RECOMMENDED FOR 2 SPEED MODELS DUE TO THE LOWER AIRFLOW WHILE IN THE FIRST STAGE COOLING.**



WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



FINAL SYSTEM CHECKS

1. Check to see if all supply and return air grilles are adjusted and the air distribution system is balanced for the best compromise between heating and cooling.
2. Check for air leaks in the ductwork. See Sections on Air Flow Adjustments.
3. Make sure the unit is free of "rattles", and the tubing in the unit is free from excessive vibration. Also make sure tubes or lines are not rubbing against each other or sheet metal surfaces or edges. If so, correct the trouble.
4. Set the thermostat at the appropriate setting for cooling and heating or automatic changeover for normal use.
5. Be sure the Owner is instructed on the unit operation, filter, servicing, correct thermostat operation, etc.

CHECKING SUBCOOLING

NOTE: UNITS WITH A TXV SHOULD BE CHARGED TO SUBCOOLING ONLY. MAKE SURE THE AIR FLOW IS CORRECT BEFORE MAKING ANY ADJUSTMENTS.

EXAMPLE:

- a. Liquid Line Pressure = 417 PSI
- b. Corresponding Temp. = 120°F
- c. Thermometer on Liquid line = 109°F.

TO OBTAIN THE AMOUNT OF SUBCOOLING, SUBTRACT 109°F FROM 120°F. THE DIFFERENCE IS 11° SUBCOOLING.

SEE THE SPECIFICATION SHEET OR TECHNICAL INFORMATION MANUAL FOR THE DESIGN SUBCOOLING RANGE FOR YOUR UNIT.

SUBCOOLING FORMULA = SATURATED LIQUID LINE TEMPERATURE - LIQUID LINE TEMPERATURE

CHECKING SUPERHEAT

EXAMPLE:

- a. Suction Pressure = 143 PSI
- b. Corresponding Temp. = 50°F
- c. Thermometer on Suction Line = 59°F

TO OBTAIN THE DEGREES TEMPERATURE OF SUPERHEAT, SUBTRACT 50.0 FROM 59.0°F. THE DIFFERENCE IS 9° SUPERHEAT. THE 9° SUPERHEAT WOULD FALL IN THE ± RANGE OF ALLOWABLE SUPERHEAT.

SUPERHEAT = SUCTION LINE TEMP - SAT. SUCTION TEMP.

SUPERHEAT ADJUSTMENT

NOTE: SUPERHEAT ADJUSTMENTS SHOULD NOT BE MADE UNTIL INDOOR AMBIENT CONDITIONS HAVE STABILIZED AND CORRECT AIRFLOW HAS BEEN VERIFIED. THIS COULD TAKE UP TO 24 HOURS DEPENDING ON INDOOR TEMPERATURE AND HUMIDITY. BEFORE CHECKING SUPERHEAT, RUN THE UNIT IN COOLING FOR 15-20 MINUTES OR UNTIL REFRIGERANT PRESSURES STABILIZE. USE THE FOLLOWING GUIDELINES AND METHODS TO CHECK UNIT OPERATION AND ENSURE THAT THE REFRIGERANT CHARGE IS WITHIN LIMITS.

For TXV systems, to adjust superheat, unscrew the cover from the expansion valve, locate the adjustment screw, and turn it clockwise (in) to increase superheat or counterclockwise (out) to decrease superheat. It is recommended to make small adjustments at a time, 1/8-1/4 turn increments. Replace adjustment cap. Wait a minimum of 15 minutes between adjustments to allow time for the TXV and pressures to stabilize.

REFRIGERANT CHARGE CHECK

NOTE: FOR OPTIMAL PERFORMANCE, FOLLOW CHARGING INSTRUCTIONS BELOW.

(UNITS WITH FIXED ORIFICE DEVICES)

All package units with fixed orifice devices are charged using the superheat method at the compressor suction line. To increase super heat, remove charge and to decrease super heat, add charge. After superheat is adjusted, it is recommended to check unit subcooling at the condenser coil liquid line. See Design Superheat and Subcooling table for targets on each model.

(UNITS WITH EXPANSION VALVE (TXV))

Two Stage Cooling Application : Run unit on HIGH Stage cooling and refer to Design Superheat & Subcooling table

1. Purge gauge lines. Connect service gauge manifold to access fittings. Run system at least 15 minutes to allow pressure to stabilize.
2. Temporarily install thermometer on liquid (small) line near liquid line access fitting with adequate contact and insulate for best possible reading.
3. Check subcooling and superheat. System should have a subcooling and superheat within the range listed on the Design Superheat and Subcooling table.

- a. If subcooling and superheat are low, adjust TXV superheat, then check subcooling.

NOTE: TO ADJUST SUPERHEAT, TURN THE VALVE STEM CLOCKWISE TO INCREASE AND COUNTERCLOCKWISE TO DECREASE.

- b. If subcooling is low and superheat is high, add charge to raise subcooling then check superheat.
- c. If subcooling and superheat are high, adjust TXV valve superheat, then check subcooling.
- d. If subcooling is high and superheat is low, adjust TXV valve superheat and remove charge to lower the subcooling.

NOTE: Do NOT adjust the charge based on suction pressure unless there is a gross undercharge. If an undercharge is suspected recover the charge, re-evacuate the system and recharge per data plate. No adjustments should be made if suspecting a charge issue.

4. Disconnect manifold set, installation is complete.

Design Superheat and Subcooling for AC					
Model	Superheat ±2°F (Circuit 1/2)	Subcooling ±1°F (Circuit 1/2)	Expansion Device	Cooling Stage	Outdoor ambient (°F)
DSC090	17/16	12/14	TXV	High	95
DSC102	16/19	11/12	TXV	High	95
DSC120	18/22	16/15	TXV	High	95
DSC150	17/19	11/12	TXV	High	95

Design Superheat and Subcooling for HP models in Cooling Mode					
Model	Super Heat +/-2F (Circuit 1/2)	Subcooling +/-1F (Circuit 1/2)	Expansion Device	Cooling Stage	Outdoor Ambient (F)
DSH090	26/22	12/11	TXV	High	95
DSH102	18/18	10/11	TXV	High	95
DSH120	19/22	8/10	TXV	High	95
DSH150	16/15	9/8	TXV	High	95

HEAT PUMP OPERATION

COOLING CYCLE

When the heat pump is in the cooling cycle, it operates exactly as a Summer Air Conditioner unit. In this mode, all the charts and data for service that apply to summer air conditioning apply to the heat pump. Most apply on the heating cycle except that “condenser” becomes “evaporator”, “evaporator” becomes “condenser”, “cooling” becomes “heating”.

HEATING CYCLE

The heat pump operates in the heating cycle by redirecting refrigerant flow through the refrigerant circuit external to the compressor. This is accomplished with the reversing valve. Hot discharge vapor from the compressor is directed to the indoor coil (evaporator on the cooling cycle) where the heat is removed, and the vapor condenses to liquid. It then goes through the expansion device to the outdoor coil (condenser on the cooling cycle) where the liquid is evaporated, and the vapor goes to the compressor.

When the solenoid valve coil is operated either from heating to cooling or vice versa, the piston in the reversing valve to the low pressure (high pressure) reverse positions in the reversing valve.

Figures 11A and 11B show a schematic of a heat pump on the cooling cycle and the heating cycle. In addition to a reversing valve, a heat pump is equipped with an expansion device and check valve for the indoor coil, and similar equipment for the system. It is also provided with a defrost control system.

The expansion devices are flowrator distributors and perform the same function on the heating cycle as on the cooling cycle. The flowrator distributors also act as check valves to allow for the reverse of refrigerant flow.

COOLING

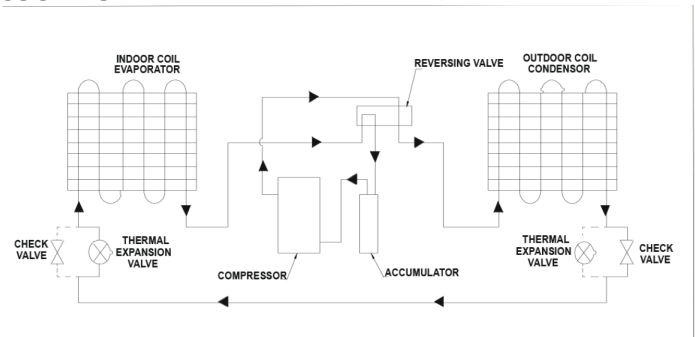
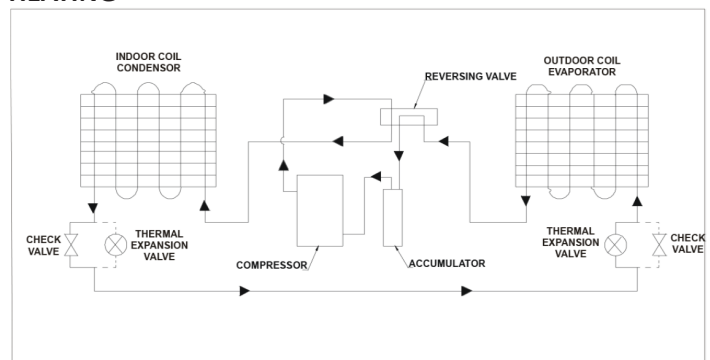


FIGURE 11A

HEATING



UNIT HEATING AND COOLING CYCLES

FIGURE 11B

When the heat pump is on the heating cycle, the outdoor coil is functioning as an evaporator. The temperature of the refrigerant in the outdoor coil must be below the temperature of the outdoor air in order to extract heat from the air. Thus, the greater the difference in the outdoor temperature and the outdoor coil temperature, the greater the heating capacity of the heat pump. This phenomenon is a characteristic of a heat pump. It is a good practice to provide supplementary heat for all heat pump installations in areas where the temperature drops below 45° F. It is also a good practice to provide sufficient supplementary heat to handle the entire heating requirement should there be a component failure of the heat pump, such as a compressor, or refrigerant leak, etc.

Since the temperature of the refrigerant in the outdoor coil on the heating cycle is generally below freezing point, frost forms on the surfaces of the outdoor coil under certain weather conditions of temperature and relative humidity. Therefore, it is necessary to reverse the flow of the refrigerant to provide hot gas in the outdoor coil to melt the frost accumulation. This is accomplished by reversing the heat pump to the cooling cycle. At the same time, the outdoor fan stops to hasten the temperature rise of the outdoor coil and lessen the time required for defrosting. The indoor blower continues to run and the supplementary heaters are energized.

DEFROST CONTROL

Note: DSH models have one stage of mechanical heating. The defrost accumulation period will start when either first or second stage defrost thermostat closes. Defrost termination occurs when both thermostats open or the 12 minute cycle has completed.

During operation the power to the circuit board is controlled by a temperature sensor, which is clamped to a feeder tube entering the outdoor coil. Defrost timing periods of 30, 60 and 90 minutes may be selected by connecting the circuit board jumper to 30, 60 and 90 respectively. Accumulation of time for the timing period selected starts when the sensor closes (approximately 30° F), and when the wall thermostat calls for heat. At the end of the timing period, the unit's defrost cycle will be initiated provided the sensor remains closed. When the sensor opens the defrost cycle is terminated and the timing period is reset. If the defrost cycle is not terminated due to the sensor temperature, a twelve minute override interrupts the unit's defrost period.

RDS FUNCTION

The mitigation system is a stationary device that detects the presence of R-32 refrigerant above 25% LFL using refrigerant sensors and then initiates mitigation actions. The mitigation system's primary function is to reduce the concentration of leaked R-32 refrigerant to prevent serious safety hazards. The mitigation actions are accomplished by halting HVAC operation and continuing indoor blower operation to provide airflow. Once refrigerant concentration reaches below a safe threshold, the unit will remain in mitigation mode for five minutes to evacuate any remaining R-32 refrigerant within the unit. Upon completion, the unit will resume its normal operation.

RDS OPERATION

The mitigation system is controlled by a refrigerant sensor(s), which is secured to a designated location(s) for active monitoring. If a leak is detected, HVAC operation is disabled and the indoor blower fan is activated, providing airflow at or above minimum required airflow to evacuate excess concentration. If a Zone Control system is installed in the ductwork attached to this system, the Zone controller must be powered through a Daikin Zoning/Accessory PCB to ensure that the Zoning Dampers open during mitigation mode to provide ventilation throughout all ducting. If the unit is installed with a communicating thermostat, the thermostat will display relevant alerts/information concerning mitigation mode. Once sensors read concentration levels below a safe threshold, a five-minute timer will initiate. Once the time is over, the unit will resume back to its normal operation. If the sensors detect another concentration excess, the unit will go back into mitigation mode and will repeat the same process.

MAINTENANCE



WARNING

ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD
FAILURE TO FOLLOW SAFETY WARNINGS EXACTLY COULD RESULT IN DANGEROUS OPERATION, SERIOUS INJURY, DEATH OR PROPERTY DAMAGE.

IMPROPER SERVICING COULD RESULT IN DANGEROUS OPERATION, SERIOUS INJURY, DEATH OR PROPERTY DAMAGE.

- **BEFORE SERVICING, DISCONNECT ALL ELECTRICAL POWER TO UNIT.**
- **WHEN SERVICING CONTROLS, LABEL ALL WIRES PRIOR TO DISCONNECTING. RECONNECT WIRES CORRECTLY.**
- **VERIFY PROPER OPERATION AFTER SERVICING.**



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





WARNING

TO PREVENT PERSONAL INJURY OR DEATH DUE TO IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE, REPAIR OR MAINTENANCE, REFER TO THIS MANUAL. FOR ADDITIONAL ASSISTANCE OR INFORMATION, CONSULT A QUALIFIED INSTALLER, SERVICER AGENCY OR THE GAS SUPPLIER.



CAUTION

SHEET METAL PARTS, SCREWS, CLIPS AND SIMILAR ITEMS INHERENTLY HAVE SHARP EDGES, AND IT IS NECESSARY THAT THE INSTALLER AND SERVICE PERSONNEL EXERCISE CAUTION.

Preventive maintenance is the best way to avoid unnecessary expense and inconvenience. Have this system inspected at regular intervals by qualified service personnel, at least twice a year. Routine maintenance should cover the following items:

1. Check and tighten all screws, and wire connections as needed.
2. Clean evaporator and condenser coils mechanically or with cold water, if necessary. Usually any fouling is only matted on the entering air face of the coil and can be removed by brushing.
3. Replace filters as needed (see Filters section).
4. Check for blockage of condensate drain.
5. Check power and control voltages.
6. Check running amperage.
7. Check operating temperatures and pressures.
8. Check and adjust temperature and pressure controls.
9. Check and adjust damper linkages.
10. Check operation of all safety controls.
11. Check condenser fans and tighten set screws.

FILTERS



CAUTION

TO PREVENT PROPERTY DAMAGE DUE TO FIRE AND LOSS OF EQUIPMENT EFFICIENCY OR EQUIPMENT DAMAGE DUE TO DUST AND LINT BUILD UP ON INTERNAL PARTS, NEVER OPERATE UNIT WITHOUT AN AIR FILTER INSTALLED IN THE RETURN AIR SYSTEM.

Every application may require a different frequency of replacement of dirty filters. Filters must be replaced at least every three (3) months during operating seasons.

Dirty filters are the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every two months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter.

Disposable return air filters are supplied with this unit. See the unit Specification Sheet or Technical Manual for the correct size and part number. To remove the filters, remove the filter access panel on return side of the unit.

CABINET FINISH MAINTENANCE

Use a fine grade automotive wax on the cabinet finish to maintain the finish's original high luster. This is especially important in installations with extended periods of direct sunlight.

CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris. Clean coil from inside out.

CLEAN INDOOR COIL (QUALIFIED SERVICER ONLY)

Before cleaning the indoor coil, A2L sensor must be removed from the unit to avoid damage and contamination. Air filters should also be removed before performing maintenance. The coil with the filtered air flowing over it should be inspected and cleaned as frequently as necessary to keep the finned areas free of debris. Any air blowing or water rinsing should be performed from inside-out (opposite operating airflow direction) to prevent damage to the tube, fin coil and any other components.

RECOVERY

When removing refrigerant from a system, either for servicing or decommissioning, all refrigerants must be removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

All recovery equipment must be suitable for the recovery of A2L refrigerant and in good working order. Ensure that you follow the manufacturer's instructions carefully. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

CHARGING PROCEDURES

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment.
- Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is grounded prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.

NOTE: Grounding is defined as achieving an earth ground by connecting the equipment supplied grounding lug to the earth. This should be verified by a certified Technician.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site

IMPORTANT: REFER TO THE STANDING PRESSURE TEST/LEAK DETECTION METHOD REFERENCED LATER IN THIS MANUAL

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris. Clean coil from inside out.

LUBRICATION

The fan shaft bearings, the supply fan motors, the condenser fan motors and compressors are permanently lubricated.

FUNCTIONAL PARTS

Refer to the unit Parts Catalog for a list of functional parts. Parts are available from your distributor.

TROUBLESHOOTING

THE FOLLOWING INFORMATION IS FOR USE BY QUALIFIED SERVICE AGENCY ONLY: OTHERS SHOULD NOT ATTEMPT TO SERVICE THIS EQUIPMENT.

Common Causes of Unsatisfactory Operation of Heat Pump on the Heating Cycle.

INADEQUATE AIR VOLUME THROUGH INDOOR COIL

When a heat pump is in the heating cycle, the indoor coil is functioning as a condenser. The return air filter must always be clean, and sufficient air volume must pass through the indoor coil to prevent excessive discharge pressure, and high pressure cut out.

OUTSIDE AIR INTO RETURN DUCT

Do not introduce cold outside air into the return duct of a heat pump installation. For units with 2-speed motors, do not allow air entering the indoor coil to drop below 65°F. Air below this temperature will cause low discharge pressure, thus low suction pressure, and excessive defrost cycling resulting in low heating output. It may also cause false defrosting.

UNDERCHARGE

An undercharged heat pump on the heating cycle will cause low discharge pressure resulting in low suction pressure and frost accumulation on the outdoor coil.

POOR "TERMINATING" SENSOR CONTACT

The unit's defrost terminating sensor must make good thermal contact with the outdoor coil tubing. Poor contact may not terminate the unit's defrost cycle quickly enough to prevent the unit from cutting out on high discharge pressure.

MALFUNCTIONING REVERSING VALVE - THIS MAY BE DUE TO:

1. **Solenoid not energized** - In order to determine if the solenoid is energized, touch the nut that holds the solenoid cover in place with a screwdriver. If the nut magnetically holds the screwdriver, the solenoid is energized and the unit is in the cooling cycle.
2. **No voltage at unit's solenoid** - Check unit voltage. If no voltage, check wiring circuit.
3. **Valve will not shift:**
 - a. **Undercharged** - check for leaks;
 - b. **Valve Body Damaged** - Replace valve;
 - c. **Unit Properly Charged** - If it is on the heating cycle, raise the discharge pressure by restricting airflow through the indoor coil. If the valve does not shift, tap it lightly on both ends with a screwdriver handle. **DO NOT TAP THE VALVE BODY.** If the unit is on the cooling cycle, raise the discharge pressure by restricting airflow through the outdoor coil. If the valve does not shift after the above attempts, cut the unit off and wait until the discharge and suction pressure equalize, and repeat above steps. If the valve does not shift, replace it.

SERVICING MEASURES FOR THE REFRIGERANT DETECTION SYSTEM:

BEFORE SERVICING, IDENTIFY THE MODE OF OPERATION OF THE SYSTEM BY READING THE LED FLASHING PATTERN ON THE PCB WITHIN THE CONTROL BOX AND MATCHING THE LED FLASHING PATTERN WITH MODE OF OPERATION IN THE REFRIGERANT DETECTION SYSTEM TROUBLESHOOTING GUIDE ON THE WIRING DIAGRAM WHICH IS ATTACHED ON THE BACK SIDE OF THE CONTROL BOX PANEL (RDS PCB FAULT CODE TABLE). AFTER IDENTIFYING THE MODE OF OPERATION, TAKE RECOMMENDED ACTIONS AS SPECIFIED IN THE RECOMMENDED ACTIONS FOR PCB LED FLASHING CODES TABLE.

REFRIGERANT SENSORS FOR REFRIGERANT DETECTION SYSTEMS SHALL ONLY BE REPLACED WITH SENSORS SPECIFIED BY THE MANUFACTURER. IF THE REFRIGERANT SENSOR REQUIRES REPLACEMENT, PLEASE REPLACE WITH SENSATA R32 SENSOR PN#RGD-00ML12 (DAIKIN PN#SER2A08012).

LED STATUS	
MODE	LED FLASHING PATTERN
NORMAL OPERATION	SLOW LED FLASHING PATTERN (2 SECONDS ON 2 SECONDS OFF)
R-32 LEAK ALARM	FAST LED FLASHING PATTERN
DELAY MODE	LED WILL BE ON CONTINUOUSLY
SYSTEM VERIFICATION MODE	FAST LED FLASHING PATTERN
CONTROL BOARD INTERNAL FAULT	LED WILL FLASH 2 TIMES AND THEN BE OFF FOR 5 SECONDS
R32 SENSOR COMMUNICATION FAULT	LED WILL FLASH 3 TIMES AND THEN BE OFF FOR 5 SECONDS
R32 SENSOR FAULT	LED WILL FLASH 4 TIMES AND THEN BE OFF FOR 5 SECONDS

RDS PCB FAULT CODE TABLE

THE FOLLOWING INSTRUCTIONS ARE MANDATORY FOR A2LSYSTEMS AND SUPERSEDE OTHER INSTRUCTIONS

 WARNING
ONLY BRAZING TECHNIQUES OR APPROVED MECHANICAL JOINTS SHOULD BE USED TO CONNECT REFRIGERANT TUBING CONNECTIONS. NON-APPROVED MECHANICAL CONNECTORS AND OTHER METHODS ARE NOT PERMITTED IN THIS SYSTEM CONTAINING A2L REFRIGERANT. APPROVED MECHANICAL JOINTS WILL BE DETAILED IN THE PRODUCT'S SPECIFICATION SHEETS.

STANDING PRESSURE TEST/LEAK DETECTION METHOD

Using dry nitrogen or dry helium, pressurize the system. Allow the pressure to stabilize and hold for 15 minutes (minimum). The system is considered leak-free if the pressure does not drop. If, after 15 minutes, the pressure drops, it implies a leak in the system. Proceed with identifying and sealing the leak and repeating the Standing Pressure Test. Leak test the system using dry nitrogen or dry helium and soapy water to identify leaks. **No refrigerant shall be used for pressure testing to detect leaks.** Proceed to system evacuation using the Deep Vacuum Method.

DEEP VACUUM METHOD

The Deep Vacuum Method requires a vacuum pump rated for 500 microns or less. This method effectively and efficiently ensures the system is free of non-condensable air and moisture. The Triple Evacuation Method is detailed in the Service Manual for this product model as an alternative. To expedite the evacuation procedure, it is recommended that the Schrader Cores be removed from the service valves using a core-removal tool.

1. Connect the vacuum pump, micron gauge, and vacuum-rated hoses to both service valves. Evacuation must use both service valves to eliminate system mechanical seals.
2. Evacuate the system to less than 500 microns.
3. Isolate the pump from the system and hold the vacuum for 10 minutes (minimum). Typically, pressure will rise slowly during this period. If the pressure rises to less than 1000 microns and remains steady, the system is considered leak-free; proceed to system charging and startup.
4. If pressure rises above 1000 microns but holds steady below 2000 microns, non-condensable air or moisture may remain, or a small leak may be present. Return to step 2: If the same result is achieved, check for leaks and repair. Repeat the evacuation procedure.
5. If pressure rises above 2000 microns, a leak is present. Check for leaks and repair them. Then, repeat the evacuation procedure.

ACCESSORY INSTALLATION

 WARNING
ALL ACCESSORIES THAT MAY BECOME A POTENTIAL IGNITION SOURCE IF INSTALLED. SUCH AS ELECTRONIC AIR CLEANERS, MUST ONLY BE POWERED THROUGH OUR ACCESSORY CONTROL BOARD KIT. IF AN ELECTRONIC AIR CLEANER IS ALREADY INSTALLED IN THE DUCT WORK AND NOT CONNECTED TO THE ACCESSORY CONTROL BOARD. IT WILL HAVE TO BE DISABLED OR REMOVED. ENSURE THAT ANY ADDITIONAL WIRING FROM THE INDOOR UNIT TO THE ACCESSORY CONTROL BOARD IS ROUTED AND PROTECTED FROM DAMAGE WEAR, AVOIDING THE FLUE PIPE AND ANY JOINTS THAT MAY NEED BRAZED OR DISCONNECTED FOR SERVICE. REFER TO THE PRODUCT SPECIFICATION SHEET FOR THE ACCESSORY CONTROL BOARD KIT PART NUMBER.

TROUBLESHOOTING CODE

LED TROUBLESHOOT STATUS					
	MODE	DEFINITION	LED FLASHING PATTERN	RECOMMENDED ACTIONS	NOTES
1	Normal Operation	No faults to report.	Slow LED flashing pattern (2 seconds on and 2 seconds off)	No actions needed.	
2	R32 Leak Alarm	R32 leak is currently being detected.	Fast LED Flashing Pattern	A technician will need to find the refrigerant leak and address it. Unit shall be thawed before servicing.	In terms of the controls, no action is needed. The controls and sensor are working fine.
3	Delay Mode	After R32 leak or alarm has been cleared, the unit will remain in alarm mode for 5 minutes before returning to normal operation.	LED will be on continuously	No action needed - If the system was previously experiencing an actual R32 Leak, the refrigerant can no longer be detected by the sensor meaning it's either gone and the system won't work anymore or there was a false alarm. If the system was experiencing a Fault, the fault is gone and the system will return to normal operation in 5 min.	After any alarm or fault, it is required to remain in R32 mitigation mode for 5 minutes.
4	System Verification Mode	Manual test run by contractor to simulate R32 Leak Alarm (test will last for 5 minutes max).	Fast LED Flashing Pattern	No actions needed.	To enter system verification test mode, press the button on the control 2 times within 5 seconds. The control will enter a simulated R32 Leak Alarm state and remain in that mode for 5 minutes. After 5 minutes, the control will return to Normal Operation automatically. If the contractor wants to end the test early they need to press the button one time.
5	Control Board Internal Fault	Control board has detected an issue with the R32 detection system.	LED will flash 2 times and then be off for 5 seconds, before repeating pattern	1) Unplug and plug the R32 sensor back in. Cycle power to the system. 2) If the control is in "Normal Operation" or "Delay Mode", there is no more issue. If not, continue with diagnostics 3) Unplug R32 sensor and leave unplugged. Cycle power to the system 4) If the control still displays "Control Board Internal Fault" (2 flash pattern), replace the control. If the control now displays "R32 Sensor Communication Fault" (3 flash pattern), replace the sensor.	This error could indicate an on board relay failure or a short with the sensor communications. A sensor communication short could occur on the board itself or external to the board. These steps will determine if the error is on the board or external to the board.
6	R32 Sensor Communication Fault	Control board does not have communications with R32 sensor.	LED will flash 3 times and then be off for 5 seconds, before repeating pattern	1) Unplug and plug the R32 sensor back in. Cycle power to the system. 2) If control is in "Normal Operation" or "Delay Mode", there is no more issue. If not, continue with diagnostics. 3) If the control still displays "R32 Sensor Communication Fault" (3 flash pattern), replace both the sensor and the PCB.	If the control cannot talk to the sensor there could be a problem with the sensor, a problem with the sensor harness or a problem internal to the control. The field will not be able to measure anything to reliably fix this error assuming the connector is properly secured to the control. Replacing both is the only option.
7	R32 Sensor Fault	R32 Sensor has reported an internal issue.	LED will flash 4 times and then be off for 5 seconds, before repeating pattern	Replace R32 sensor.	Communications to the sensor are perfectly fine. The sensor itself is reporting an internal fault.

RECOMMENDED ACTIONS FOR PCB LED FLASHING CODES TABLE

	warning; flammable materials
	service indicator; read technical manual
	operator's manual; operating instructions
	warning; low burning velocity material
	UN GHS flame symbol

MARKING SYMBOL TABLE

ALTITUDE ADJUSTMENT FACTOR TO CALCULATE MINIMUM ROOM AREA

The Indoor equipment mitigation requirements are calculated at sea level. For higher altitudes adjust the minimum room area specified on or near the Serial Plate by the corresponding altitude adjustment factor shown below. This table is provided as a reference.

Adjusted room area ($A_{\min \text{ adj}}$) is the product of the minimum room area specified in the serial plate and the adjustment factor AF, as shown in below formula

$$A_{\min \text{ adj}} = A_{\min} (\text{serial plate}) * AF$$

Height in meters	Height in feet	Altitude Adjustment Factor (AF)
At sea level	At sea level	1.00
1~200	1~660	1.02
200~400	660~1320	1.03
400~600	1320~1970	1.07
600~800	1970~2630	1.05
800~1000	2630~3290	1.09
1000~1200	3290~3940	1.11
1200~1400	3940~4600	1.13
1400~1600	4600~5250	1.15
1600~1800	5250~5910	1.17
1800~2000	5910~6570	1.19
2000~2200	6570~7220	1.21
2200~2400	7220~7880	1.26
2400~2600	7880~8540	1.24
2600~2800	8540~9190	1.29
2800~3000	9190~9850	1.31
3000~3200	9850~10500	1.34

DSH OPERATIONS								WIRE RANGE									
HEAT PUMP	G	Y1	Y2	W1	W2	O	DH	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Fan Only	X							GR									
Cooling Mode LO	X	X				X		●YL→									
Cooling Mode HI	X	X	X			X				●PU→							
Mech. Heating Mode LO	X	X						●YL→									
Mech. Heating Mode HI	X	X	X							●PU→							
Elec. Heating Mode LO	X			X			X						●WH→				
Elec. Heating Mode HI	X			X	X		X								●BR→		
Mech. Plus Elec. Heat W1	X	X	X	X			X								●PU→		
Mech. Plus Elec. Heat W2	X	X	X	X	X		X								●BR→		
Defrost ("O" from board)	X	X	X	X			X								●PU→		

DSC OPERATIONS							WIRE RANGE									
AC	G	Y1	Y2	W1	W2	DH	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Fan Only	X						GR									
Cooling Mode LO	X	X					●YL→									
Cooling Mode HI	X	X	X						●PU→							
Heating Mode LO	X			X		X						●WH→				
Heating Mode HI	X			X	X	X								●BR→		

X = 24V signal

● → = Range of AVAILABLE TAPS

For wire color information and placement, view DSC/DSH Model Wiring Page 14.

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON AC

7.5T AC Standard Static

Motor 2.4 HP

Model: DSC090_STD

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1927.5	436.1	136.1	0.20
	0.4	1749.5	518.0	169.5	0.24
	0.6	1578.5	597.8	197.8	0.28
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2169.7	465.2	192.7	0.28
	0.4	2001.8	541.5	226.1	0.33
	0.6	1841.3	616.2	256.0	0.38
	0.8	1571.8	705.6	296.9	0.43

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3114.2	580.0	458.3	0.71
	0.4	2981.4	636.3	493.7	0.78
	0.6	2856.8	692.9	530.1	0.85
	0.8	2705.0	752.3	574.2	0.92

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3244.3	596.0	502.2	0.79
	0.4	3115.7	649.9	538.0	0.86
	0.6	2995.3	704.2	575.4	0.93
	0.8	2856.7	760.1	620.1	1.00

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3370.4	611.6	546.8	0.87
	0.4	3245.7	663.3	583.3	0.94
	0.6	3129.1	715.5	621.5	1.01
	0.8	3002.4	768.1	666.9	1.09

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2841.8	546.6	373.0	0.57
	0.4	2699.6	608.3	407.5	0.63
	0.6	2565.7	669.8	441.9	0.69
	0.8	2383.5	737.1	485.0	0.76

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3047.6	571.8	436.7	0.59
	0.4	2912.6	629.4	471.8	0.65
	0.6	2785.8	687.2	507.7	0.71
	0.8	2626.9	748.4	551.6	0.78

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3179.8	588.0	480.2	0.75
	0.4	3049.1	643.2	515.7	0.82
	0.6	2926.7	698.6	552.6	0.89
	0.8	2781.6	756.2	597.0	0.96

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3244.3	596.0	502.2	0.79
	0.4	3115.7	649.9	538.0	0.86
	0.6	2995.3	704.2	575.4	0.93
	0.8	2856.7	760.1	620.1	1.00

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3370.4	611.6	546.8	0.87
	0.4	3245.7	663.3	583.3	0.94
	0.6	3129.1	715.5	621.5	1.01
	0.8	3002.4	768.1	666.9	1.09

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1951.6	453.2	143.7	0.21
	0.4	1843.9	526.3	161.4	0.25
	0.6	1670.7	607.2	199.9	0.28
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2182.2	486.4	204.2	0.30
	0.4	2073.8	554.4	224.4	0.34
	0.6	1915.1	628.8	261.1	0.38
	0.8	1621.3	715.7	288.4	0.44

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3084.0	616.8	489.3	0.76
	0.4	2977.1	666.9	519.8	0.82
	0.6	2869.1	718.6	552.5	0.88
	0.8	2736.7	773.4	598.8	0.95

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3208.7	634.9	536.5	0.84
	0.4	3102.6	682.8	568.5	0.90
	0.6	3000.7	731.9	601.1	0.97
	0.8	2886.0	783.0	649.4	1.04

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3329.7	652.4	584.6	0.92
	0.4	3224.6	698.4	618.1	0.99
	0.6	3128.3	745.0	650.7	1.06
	0.8	3029.3	792.7	700.8	1.12

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2823.4	579.0	397.6	0.60
	0.4	2715.2	633.9	425.0	0.66
	0.6	2593.7	691.6	458.2	0.72
	0.8	2420.3	754.9	499.9	0.78

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3020.2	607.5	466.0	0.63
	0.4	2912.9	658.8	495.8	0.68
	0.6	2801.8	711.9	528.5	0.74
	0.8	2659.8	768.7	573.8	0.80

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3146.8	625.9	512.8	0.80
	0.4	3040.3	674.9	544.1	0.86
	0.6	2935.4	725.3	576.6	0.92
	0.8	2812.1	778.2	624.0	0.99

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3208.7	634.9	536.5	0.84
	0.4	3102.6	682.8	568.5	0.90
	0.6	3000.7	731.9	601.1	0.97
	0.8	2886.0	783.0	649.4	1.04

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3329.7	652.4	584.6	0.92
	0.4	3224.6	698.4	618.1	0.99
	0.6	3128.3	745.0	650.7	1.06
	0.8	3029.3	792.7	700.8	1.12

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON AC - MEDIUM STATIC

7.5T AC Medium Static

Motor 2.4 HP

Model: DSC090_MED

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2090.0	455.6	173.6	0.26
	0.4	1918.8	533.7	207.0	0.30
	0.6	1754.9	610.1	236.3	0.34
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2699.6	529.3	331.6	0.50
	0.4	2552.1	593.9	365.7	0.56
	0.6	2413.0	658.1	399.1	0.62
	0.8	2213.7	729.8	441.7	0.69
	1	2022.3	791.8	473.1	0.75
	1.2	1865.2	845.4	505.8	0.80
	1.4	1727.0	879.7	520.3	0.83

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3370.4	611.6	546.8	0.87
	0.4	3245.7	663.3	583.3	0.94
	0.6	3129.1	715.5	621.5	1.01
	0.8	3002.4	768.1	666.9	1.09
	1	2864.0	822.0	711.4	1.16
	1.2	2732.9	872.3	755.4	1.24
	1.4	2612.3	915.1	790.3	1.30

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3551.9	634.1	615.3	0.99
	0.4	3432.6	682.8	652.7	1.06
	0.6	3320.8	732.1	692.4	1.14
	0.8	3209.7	780.5	738.7	1.22
	1	3083.3	832.2	786.0	1.30
	1.2	2958.7	881.4	832.8	1.37
	1.4	2842.8	925.7	872.3	1.44

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3667.8	648.7	661.9	1.07
	0.4	3551.7	695.5	700.1	1.15
	0.6	3442.8	743.0	740.7	1.23
	0.8	3340.3	789.0	787.6	1.30
	1	3220.9	839.3	836.5	1.39
	1.2	3100.5	887.8	885.0	1.47
	1.4	2987.3	932.7	927.2	1.54

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3212.2	592.0	491.2	0.77
	0.4	3082.5	646.6	526.9	0.84
	0.6	2961.1	701.4	564.0	0.91
	0.8	2819.4	758.2	608.6	0.98
	1	2669.6	813.9	650.4	1.06
	1.2	2532.5	865.1	691.8	1.12
	1.4	2407.9	906.3	722.3	1.18

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3370.4	611.6	546.8	0.87
	0.4	3245.7	663.3	583.3	0.94
	0.6	3129.1	715.5	621.5	1.01
	0.8	3002.4	768.1	666.9	1.09
	1	2864.0	822.0	711.4	1.16
	1.2	2732.9	872.3	755.4	1.24
	1.4	2612.3	915.1	790.3	1.30

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3492.4	626.7	592.3	0.95
	0.4	3371.4	676.4	629.4	1.02
	0.6	3258.1	726.6	668.6	1.10
	0.8	3142.1	776.3	714.5	1.17
	1	3011.9	828.7	761.0	1.25
	1.2	2885.2	878.4	806.9	1.33
	1.4	2767.8	922.2	844.9	1.39

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3551.9	634.1	615.3	0.99
	0.4	3432.6	682.8	652.7	1.06
	0.6	3320.8	732.1	692.4	1.14
	0.8	3209.7	780.5	738.7	1.22
	1	3083.3	832.2	786.0	1.30
	1.2	2958.7	881.4	832.8	1.37
	1.4	2842.8	925.7	872.3	1.44

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3667.8	648.7	661.9	1.07
	0.4	3551.7	695.5	700.1	1.15
	0.6	3442.8	743.0	740.7	1.23
	0.8	3340.3	789.0	787.6	1.30
	1	3220.9	839.3	836.5	1.39
	1.2	3100.5	887.8	885.0	1.47
	1.4	2987.3	932.7	927.2	1.54

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2106.3	475.5	183.8	0.27
	0.4	1998.1	545.1	203.1	0.31
	0.6	1834.6	621.6	240.4	0.35
	0.8	1525.1	711.6	265.9	0.40
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2687.4	559.3	353.0	0.53
	0.4	2578.9	616.9	378.9	0.58
	0.6	2450.0	677.9	412.6	0.64
	0.8	2253.2	745.8	451.6	0.70
	1	2090.7	807.3	486.6	0.76
	1.2	1951.3	857.1	511.0	0.81
	1.4	1756.8	915.8	547.0	0.86

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3329.7	652.4	584.6	0.92
	0.4	3224.6	698.4	618.1	0.99
	0.6	3128.3	745.0	650.7	1.06
	0.8	3029.3	792.7	700.8	1.12
	1	2910.5	844.4	742.5	1.20
	1.2	2802.7	890.8	771.6	1.26
	1.4	2620.9	952.2	821.0	1.35

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3504.1	677.8	658.4	1.06
	0.4	3400.9	721.1	694.1	1.12
	0.6	3312.2	764.4	727.1	1.19
	0.8	3233.1	807.6	779.3	1.26
	1	3124.7	856.7	822.3	1.34
	1.2	3023.9	901.9	852.8	1.41
	1.4	2849.3	962.7	905.4	1.50

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3615.8	694.1	708.8	1.15
	0.4	3514.0	735.8	745.8	1.22
	0.6	3429.7	777.2	779.3	1.29
	0.8	3361.5	817.8	832.6	1.35
	1	3259.4	865.2	876.3	1.43
	1.2	3162.6	909.6	907.7	1.50
	1.4	2993.7	969.7	962.2	1.60

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3177.9	630.4	524.6	0.82
	0.4	3071.6	678.9	556.3	0.88
	0.6	2968.2	728.6	588.8	0.95
	0.8	2849.2	780.6	636.7	1.01
	1	2720.8	834.6	677.1	1.08
	1.2	2606.3	881.9	705.0	1.14
	1.4	2419.7	943.3	751.5	1.22

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3329.7	652.4	584.6	0.92
	0.4	3224.6	698.4	618.1	0.99
	0.6	3128.3	745.0	650.7	1.06
	0.8	3029.3	792.7	700.8	1.12
	1	2910.5	844.4	742.5	1.20
	1.2	2802.7	890.8	771.6	1.26
	1.4	2620.9	952.2	821.0	1.35

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3446.9	669.5	633.6	1.01
	0.4	3343.0	713.6	668.5	1.08
	0.6	3251.9	758.0	701.4	1.15
	0.8	3166.6	802.6	753.0	1.21
	1	3055.0	852.5	795.6	1.29
	1.2	2951.9	898.1	825.6	1.36
	1.4	2774.8	959.2	877.1	1.45

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3504.1	677.8	658.4	1.06
	0.4	3400.9	721.1	694.1	1.12
	0.6	3312.2	764.4	727.1	1.19
	0.8	3233.1	807.6	779.3	1.26
	1	3124.7	856.7	822.3	1.34
	1.2	3023.9	901.9	852.8	1.41
	1.4	2849.3	962.7	905.4	1.50

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3615.8	694.1	708.8	1.15
	0.4	3514.0	735.8	745.8	1.22
	0.6	3429.7	777.2	779.3	1.29
	0.8	3361.5	817.8	832.6	1.35
	1	3259.4	865.2	876.3	1.43
	1.2	3162.6	909.6	907.7	1.50
	1.4	2993.7	969.7	962.2	1.60

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON AC

7.5T AC High Static Motor 2.4 HP

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2402.9	493.3	251.0	0.37
	0.4	2244.2	564.3	284.6	0.42
	0.6	2093.4	634.4	316.1	0.48
	0.8	1855.9	715.7	357.6	0.54
	1	1637.8	781.2	382.2	0.59
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2553.2	511.5	290.9	0.43
	0.4	2400.3	579.3	324.7	0.49
	0.6	2255.6	646.3	357.2	0.55
	0.8	2037.8	722.7	399.2	0.61
	1	1833.5	786.4	427.3	0.67
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3551.9	634.1	615.3	0.99
	0.4	3432.6	682.8	652.7	1.06
	0.6	3320.8	732.1	692.4	1.14
	0.8	3209.7	780.5	738.7	1.22
	1	3083.3	832.2	786.0	1.30
	1.2	2958.7	881.4	832.8	1.37
	1.4	2842.8	925.7	872.3	1.44
	1.6	2620.1	989.9	926.6	1.54
	1.8	2488.5	1038.8	959.4	1.62

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3779.7	662.7	709.4	1.16
	0.4	3666.4	708.0	748.3	1.24
	0.6	3560.0	753.8	789.8	1.32
	0.8	3464.9	797.6	837.4	1.39
	1	3351.7	846.6	887.7	1.48
	1.2	3235.1	894.3	937.8	1.56
	1.4	3124.7	939.8	982.3	1.64
	1.6	2913.7	992.3	1029.5	1.74
	1.8	2808.6	1041.8	1070.1	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3861.0	673.0	745.4	1.22
	0.4	3749.6	717.2	785.0	1.31
	0.6	3644.7	761.8	827.2	1.39
	0.8	3554.3	804.2	875.4	1.46
	1	3445.4	852.2	926.5	1.55
	1.2	3331.5	899.3	977.6	1.64
	1.4	3223.0	945.1	1023.7	1.72
	1.6	3017.3	994.0	1069.0	1.81
	1.8	2920.1	1043.4	1112.2	1.90

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3431.9	619.2	569.5	0.91
	0.4	3309.1	669.9	606.2	0.98
	0.6	3194.2	721.0	644.9	1.06
	0.8	3073.0	772.2	690.6	1.13
	1	2938.8	825.4	736.1	1.21
	1.2	2809.9	875.3	781.1	1.28
	1.4	2691.0	918.6	817.6	1.35
	1.6	2463.8	989.6	876.3	1.45
	1.8	2316.0	1038.1	904.6	1.52

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3581.3	637.8	626.9	1.01
	0.4	3462.7	686.0	664.5	1.09
	0.6	3351.8	734.8	704.4	1.16
	0.8	3242.9	782.6	750.8	1.24
	1	3118.3	833.9	798.6	1.32
	1.2	2994.8	883.0	845.8	1.40
	1.4	2879.6	927.5	886.0	1.47
	1.6	2658.1	990.0	939.3	1.57
	1.8	2530.3	1039.1	973.1	1.64

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3724.3	655.7	685.5	1.12
	0.4	3609.6	701.8	724.1	1.19
	0.6	3501.9	748.4	765.1	1.27
	0.8	3403.3	793.3	812.4	1.35
	1	3287.2	842.9	862.0	1.43
	1.2	3168.7	891.0	911.3	1.52
	1.4	3056.9	936.3	954.7	1.59
	1.6	2842.7	991.5	1003.5	1.69
	1.8	2731.7	1040.9	1042.3	1.77

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3779.7	662.7	709.4	1.16
	0.4	3666.4	708.0	748.3	1.24
	0.6	3560.0	753.8	789.8	1.32
	0.8	3464.9	797.6	837.4	1.39
	1	3351.7	846.6	887.7	1.48
	1.2	3235.1	894.3	937.8	1.56
	1.4	3124.7	939.8	982.3	1.64
	1.6	2913.7	992.3	1029.5	1.74
	1.8	2808.6	1041.8	1070.1	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3861.0	673.0	745.4	1.22
	0.4	3749.6	717.2	785.0	1.31
	0.6	3644.7	761.8	827.2	1.39
	0.8	3554.3	804.2	875.4	1.46
	1	3445.4	852.2	926.5	1.55
	1.2	3331.5	899.3	977.6	1.64
	1.4	3223.0	945.1	1023.7	1.72
	1.6	3017.3	994.0	1069.0	1.81
	1.8	2920.1	1043.4	1112.2	1.90

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2404.3	518.5	266.6	0.39
	0.4	2295.7	581.7	289.3	0.44
	0.6	2150.4	650.1	324.5	0.49
	0.8	1901.0	728.4	357.2	0.55
	1	1717.1	794.1	388.6	0.60
	1.2	1561.5	845.1	411.0	0.64
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2547.7	539.2	309.4	0.46
	0.4	2439.1	599.5	333.7	0.51
	0.6	2302.2	664.1	368.1	0.56
	0.8	2080.1	737.0	404.0	0.62
	1	1907.1	800.5	437.3	0.68
	1.2	1759.9	851.0	460.7	0.72
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3504.1	677.8	658.4	1.06
	0.4	3400.9	721.1	694.1	1.12
	0.6	3312.2	764.4	727.1	1.19
	0.8	3233.1	807.6	779.3	1.26
	1	3124.7	856.7	822.3	1.34
	1.2	3023.9	901.9	852.8	1.41
	1.4	2849.3	962.7	905.4	1.50
	1.6	2727.6	1009.2	948.7	1.57
	1.8	2574.8	1058.8	993.9	1.65

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3723.7	709.9	760.0	1.24
	0.4	3623.4	750.1	798.4	1.31
	0.6	3543.2	789.8	832.4	1.38
	0.8	3484.0	828.2	886.7	1.45
	1	3387.6	873.9	931.0	1.53
	1.2	3294.3	917.4	963.3	1.60
	1.4	3131.8	976.5	1019.4	1.71
	1.6	3015.0	1022.5	1065.8	1.79
	1.8	2893.4	1063.4	1102.6	1.86

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3802.1	721.3	799.0	1.31
	0.4	3703.2	760.6	838.5	1.38
	0.6	3625.6	799.2	873.0	1.45
	0.8	3571.9	836.0	927.7	1.52
	1	3479.4	880.6	972.3	1.60
	1.2	3388.4	923.5	1005.3	1.68
	1.4	3231.2	981.6	1062.6	1.79
	1.6	3116.5	1027.3	1110.0	1.87
	1.8	3004.5	1065.6	1144.2	1.94

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3388.8	661.0	609.0	0.97
	0.4	3284.3	706.1	643.2	1.03
	0.6	3190.6	751.5	675.9	1.10
	0.8	3098.7	797.6	726.8	1.17
	1	2983.6	848.4	769.0	1.24
	1.2	2878.2	894.4	798.5	1.31
	1.4	2698.6	955.7	849.0	1.40
	1.6	2574.7	1002.2	890.5	1.47
	1.8	2403.4	1057.1	941.0	1.55

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3532.4	682.0	670.9	1.08
	0.4	3429.5	724.8	706.9	1.15
	0.6	3341.9	767.6	748.0	1.22
	0.8	3265.7	810.1	792.6	1.29
	1	3159.0	858.9	835.8	1.36
	1.2	3059.2	903.8	886.5	1.43
	1.4	2886.0	964.5	919.5	1.53
	1.6	2764.9	1010.9	963.3	1.60
	1.8	2616.4	1059.3	1007.3	1.68

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3670.2	702.1	734.3	1.19
	0.4	3569.2	743.0	772.0	1.26
	0.6	3486.9	783.5	805.7	1.33
	0.8	3423.5	823.0	859.5	1.40
	1	3324.3	869.5	903.6	1.48
	1.2	3229.3	913.5	935.4	1.55
	1.4	3063.6	973.1	990.7	1.66
	1.6	2945.5	1019.3	1036.5	1.73
	1.8	2816.7	1062.1	1075.1	1.81

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3723.7	709.9	760.0	1.24
	0.4	3623.4	750.1	798.4	1.31
	0.6	3543.2	789.8	832.4	1.38
	0.8	3484.0	828.2	886.7	1.45
	1	3387.6	873.9	931.0	1.53
	1.2	3294.3	917.4	963.3	1.60
	1.4	3131.8	976.5	1019.4	1.71
	1.6	3015.0	1022.5	1065.8	1.79
	1.8	2893.4	1063.4	1102.6	1.86

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON AC

8.5T AC Standard Static

Motor 2.4 HP

Model: DSC102_STD

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2090.0	455.6	173.6	0.26
	0.4	1918.8	533.7	207.0	0.30
	0.6	1754.9	610.1	236.3	0.34
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2248.5	474.7	211.9	0.31
	0.4	2083.7	549.1	245.4	0.36
	0.6	1926.5	622.3	275.8	0.41
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3295.2	602.3	520.0	0.82
	0.4	3168.3	655.3	556.0	0.89
	0.6	3049.4	708.7	593.7	0.96
	0.8	2915.7	763.3	638.7	1.04

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3627.7	643.6	645.5	1.04
	0.4	3510.5	691.1	683.4	1.12
	0.6	3400.6	739.2	723.7	1.20
	0.8	3295.2	786.0	770.4	1.27

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3724.3	655.7	685.5	1.12
	0.4	3609.6	701.8	724.1	1.19
	0.6	3501.9	748.4	765.1	1.27
	0.8	3403.3	793.3	812.4	1.35

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3114.2	580.0	458.3	0.71
	0.4	2981.4	636.3	493.7	0.78
	0.6	2856.8	692.9	530.1	0.85
	0.8	2705.0	752.3	574.2	0.92

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3320.5	605.4	528.9	0.74
	0.4	3194.3	658.0	565.1	0.81
	0.6	3076.1	711.0	603.0	0.87
	0.8	2944.9	764.9	648.1	0.94

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3462.3	623.0	580.9	0.93
	0.4	3340.4	673.1	617.8	1.00
	0.6	3226.3	723.8	656.7	1.08
	0.8	3107.7	774.3	702.5	1.15

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3627.7	643.6	645.5	1.04
	0.4	3510.5	691.1	683.4	1.12
	0.6	3400.6	739.2	723.7	1.20
	0.8	3295.2	786.0	770.4	1.27

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3724.3	655.7	685.5	1.12
	0.4	3609.6	701.8	724.1	1.19
	0.6	3501.9	748.4	765.1	1.27
	0.8	3403.3	793.3	812.4	1.35

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2106.3	475.5	183.8	0.27
	0.4	1998.1	545.1	203.1	0.31
	0.6	1834.6	621.6	240.4	0.35
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2257.2	497.2	224.8	0.33
	0.4	2148.7	563.6	245.8	0.37
	0.6	1994.5	635.9	281.9	0.42
	0.8	1716.1	719.9	311.2	0.47

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3257.6	642.0	555.7	0.87
	0.4	3151.9	689.1	588.2	0.94
	0.6	3052.3	737.2	620.8	1.00
	0.8	2944.0	786.8	669.9	1.07

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3577.1	688.5	691.0	1.12
	0.4	3474.8	730.7	727.6	1.18
	0.6	3389.0	772.7	760.9	1.25
	0.8	3317.2	814.2	813.9	1.32

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3670.2	702.1	734.3	1.19
	0.4	3569.2	743.0	772.0	1.26
	0.6	3486.9	783.5	805.7	1.33
	0.8	3423.5	823.0	859.5	1.40

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3084.0	616.8	489.3	0.76
	0.4	2977.1	666.9	519.8	0.82
	0.6	2869.1	718.6	552.5	0.88
	0.8	2736.7	773.4	598.8	0.95

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3281.8	645.5	565.3	0.79
	0.4	3176.3	692.2	598.2	0.85
	0.6	3077.8	739.8	630.7	0.91
	0.8	2972.7	788.8	680.2	0.97

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3418.0	665.3	621.3	0.99
	0.4	3313.8	709.9	655.8	1.06
	0.6	3221.4	754.8	688.6	1.12
	0.8	3132.8	800.1	739.9	1.19

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3577.1	688.5	691.0	1.12
	0.4	3474.8	730.7	727.6	1.18
	0.6	3389.0	772.7	760.9	1.25
	0.8	3317.2	814.2	813.9	1.32

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3670.2	702.1	734.3	1.19
	0.4	3569.2	743.0	772.0	1.26
	0.6	3486.9	783.5	805.7	1.33
	0.8	3423.5	823.0	859.5	1.40

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON AC

8.5T AC Medium Static

Motor 2.4 HP

Model: DSC102_MED

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2209.2	470.0	202.3	0.30
	0.4	2042.8	545.3	235.7	0.35
	0.6	1884.0	619.3	265.8	0.39
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2418.1	495.2	254.9	0.38
	0.4	2260.0	565.8	288.6	0.43
	0.6	2109.8	635.6	320.1	0.48
	0.8	1874.4	716.4	361.8	0.55
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3551.9	634.1	615.3	0.99
	0.4	3432.6	682.8	652.7	1.06
	0.6	3320.8	732.1	692.4	1.14
	0.8	3209.7	780.5	738.7	1.22
	1	3083.3	832.2	786.0	1.30
	1.2	2958.7	881.4	832.8	1.37
	1.4	2842.8	925.7	872.3	1.44

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3913.9	679.7	769.7	1.27
	0.4	3803.7	723.2	809.8	1.35
	0.6	3699.8	767.1	852.4	1.43
	0.8	3612.1	808.6	900.9	1.51
	1	3505.7	856.0	952.5	1.60
	1.2	3393.5	902.8	1004.4	1.69
	1.4	3286.3	948.6	1051.4	1.77

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4001.5	690.9	811.5	1.35
	0.4	3893.2	733.3	852.4	1.43
	0.6	3790.6	776.1	895.7	1.51
	0.8	3706.8	816.3	944.9	1.59
	1	3604.2	862.6	997.2	1.68
	1.2	3494.9	908.7	1050.2	1.77
	1.4	3389.7	954.6	1098.6	1.86

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3450.2	621.5	576.3	0.92
	0.4	3327.9	671.8	613.1	0.99
	0.6	3213.5	722.7	652.0	1.07
	0.8	3093.9	773.5	697.8	1.14
	1	2960.9	826.4	743.6	1.22
	1.2	2832.7	876.2	788.8	1.30
	1.4	2714.2	919.7	825.8	1.36

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3650.7	646.5	654.9	1.06
	0.4	3534.1	693.7	692.9	1.14
	0.6	3424.8	741.4	733.4	1.22
	0.8	3321.1	787.7	780.2	1.29
	1	3200.7	838.2	828.9	1.37
	1.2	3079.6	886.8	877.1	1.45
	1.4	2966.1	931.7	918.9	1.53

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3790.7	664.1	714.1	1.17
	0.4	3677.6	709.2	753.2	1.25
	0.6	3571.4	754.9	794.7	1.33
	0.8	3477.0	798.5	842.5	1.40
	1	3364.4	847.3	892.8	1.49
	1.2	3248.2	895.0	943.1	1.57
	1.4	3138.0	940.5	987.8	1.65

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3913.9	679.7	769.7	1.27
	0.4	3803.7	723.2	809.8	1.35
	0.6	3699.8	767.1	852.4	1.43
	0.8	3612.1	808.6	900.9	1.51
	1	3505.7	856.0	952.5	1.60
	1.2	3393.5	902.8	1004.4	1.69
	1.4	3286.3	948.6	1051.4	1.77

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4001.5	690.9	811.5	1.35
	0.4	3893.2	733.3	852.4	1.43
	0.6	3790.6	776.1	895.7	1.51
	0.8	3706.8	816.3	944.9	1.59
	1	3604.2	862.6	997.2	1.68
	1.2	3494.9	908.7	1050.2	1.77
	1.4	3389.7	954.6	1098.6	1.86

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2219.8	491.9	214.4	0.31
	0.4	2111.4	559.0	235.0	0.35
	0.6	1954.9	632.4	271.5	0.40
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2418.8	520.6	270.9	0.40
	0.4	2310.2	583.5	293.7	0.44
	0.6	2165.7	651.5	328.8	0.50
	0.8	1919.2	729.2	361.8	0.56
	1	1736.4	794.7	393.4	0.61
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3504.1	677.8	658.4	1.06
	0.4	3400.9	721.1	694.1	1.12
	0.6	3312.2	764.4	727.1	1.19
	0.8	3233.1	807.6	779.3	1.26
	1	3124.7	856.7	822.3	1.34
	1.2	3023.9	901.9	852.8	1.41
	1.4	2849.3	962.7	905.4	1.50

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	3853.2	728.8	825.2	1.36
	0.4	3755.3	767.4	865.4	1.43
	0.6	3679.4	805.4	900.3	1.50
	0.8	3628.7	841.3	955.3	1.57
	1	3538.6	885.1	1000.1	1.65
	1.2	3449.0	927.6	1033.5	1.73
	1.4	3295.5	985.0	1091.6	1.84

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	3938.0	741.3	870.4	1.44
	0.4	3841.7	778.9	911.8	1.52
	0.6	3768.3	815.8	947.4	1.59
	0.8	3721.8	850.5	1002.7	1.66
	1	3635.5	892.9	1047.7	1.74
	1.2	3548.0	934.7	1081.9	1.82
	1.4	3401.2	990.7	1141.1	1.93

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3406.3	663.6	616.4	0.98
	0.4	3302.0	708.3	650.8	1.05
	0.6	3209.1	753.5	683.5	1.11
	0.8	3119.2	799.1	734.6	1.18
	1	3005.1	849.7	776.9	1.26
	1.2	2900.5	895.5	806.6	1.32
	1.4	2721.6	956.8	857.4	1.41

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3599.3	691.7	701.2	1.13
	0.4	3497.2	733.6	738.0	1.20
	0.6	3412.3	775.3	771.4	1.27
	0.8	3342.6	816.3	824.6	1.34
	1	3239.6	863.9	868.2	1.42
	1.2	3142.2	908.4	899.5	1.49
	1.4	2972.5	968.6	953.6	1.59

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3734.2	711.4	765.1	1.25
	0.4	3634.2	751.5	803.8	1.32
	0.6	3554.3	791.1	837.8	1.39
	0.8	3495.9	829.2	892.1	1.46
	1	3400.0	874.8	936.5	1.54
	1.2	3307.1	918.2	968.8	1.61
	1.4	3145.3	977.2	1025.2	1.72

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3853.2	728.8	825.2	1.36
	0.4	3755.3	767.4	865.4	1.43
	0.6	3679.4	805.4	900.3	1.50
	0.8	3628.7	841.3	955.3	1.57
	1	3538.6	885.1	1000.1	1.65
	1.2	3449.0	927.6	1033.5	1.73
	1.4	3295.5	985.0	1091.6	1.84

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3938.0	741.3	870.4	1.44
	0.4	3841.7	778.9	911.8	1.52
	0.6	3768.3	815.8	947.4	1.59
	0.8	3721.8	850.5	1002.7	1.66
	1	3635.5	892.9	1047.7	1.74
	1.2	3548.0	934.7	1081.9	1.82
	1.4	3401.2	990.7	1141.1	1.93

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON AC

8.5T AC High Static					Motor 2.4 HP	Model: DSC102_HIGH					
DOWNSHOT					HORIZONTAL						
TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP	TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2349.3	486.8	237.2	0.35	T1C Part Load Rated Cooling	0.2	2353.2	511.1	251.9	0.37
	0.4	2188.5	559.0	270.8	0.40		0.4	2244.6	575.4	274.0	0.41
	0.6	2035.5	630.2	301.9	0.45		0.6	2096.3	645.1	309.5	0.46
	0.8	1790.9	713.3	343.3	0.51		0.8	1837.0	725.4	341.0	0.52
	1						1				
	1.2						1.2				
	1.4						1.4				
	1.6						1.6				
1.8					1.8						
T2C Part Load Rated Cooling	0.2	2553.2	511.5	290.9	0.43	T2C Part Load Rated Cooling	0.2	2547.7	539.2	309.4	0.46
	0.4	2400.3	579.3	324.7	0.49		0.4	2439.1	599.5	333.7	0.51
	0.6	2255.6	646.3	357.2	0.55		0.6	2302.2	664.1	368.1	0.56
	0.8	2037.8	722.7	399.2	0.61		0.8	2080.1	737.0	404.0	0.62
	1	1833.5	786.4	427.3	0.67		1	1907.1	800.5	437.3	0.68
	1.2						1.2	1759.9	851.0	460.7	0.72
	1.4						1.4				
	1.6						1.6				
1.8					1.8						
T3C Full Load Rated Cooling	0.2	3724.3	655.7	685.5	1.12	T3C Full Load Rated Cooling	0.2	3670.2	702.1	734.3	1.19
	0.4	3609.6	701.8	724.1	1.19		0.4	3569.2	743.0	772.0	1.26
	0.6	3501.9	748.4	765.1	1.27		0.6	3486.9	783.5	805.7	1.33
	0.8	3403.3	793.3	812.4	1.35		0.8	3423.5	823.0	859.5	1.40
	1	3287.2	842.9	862.0	1.43		1	3324.3	869.5	903.6	1.48
	1.2	3168.7	891.0	911.3	1.52		1.2	3229.3	913.5	935.4	1.55
	1.4	3056.9	936.3	954.7	1.59		1.4	3063.6	973.1	990.7	1.66
	1.6	2842.7	991.5	1003.5	1.69		1.6	2945.5	1019.3	1036.5	1.73
1.8	2731.7	1040.9	1042.3	1.77	1.8	2816.7	1062.1	1075.1	1.81		
T4C Full Load Rated Cooling	0.2	4163.3	711.6	894.3	1.50	T4C Full Load Rated Cooling	0.2	4094.9	764.3	960.0	1.61
	0.4	4057.9	752.3	936.8	1.58		0.4	4002.2	800.5	1003.5	1.68
	0.6	3957.3	793.3	981.5	1.67		0.6	3932.8	835.8	1040.9	1.76
	0.8	3878.3	831.6	1032.0	1.75		0.8	3890.3	868.6	1096.2	1.83
	1	3781.5	875.9	1085.1	1.84		1	3810.1	908.6	1141.4	1.91
	1.2	3677.1	920.7	1140.1	1.94		1.2	3725.6	948.9	1177.0	2.00
	1.4	3575.5	966.1	1190.7	2.03		1.4	3593.4	1001.6	1238.0	2.11
	1.6	3396.2	1004.4	1231.3	2.11		1.6	3487.8	1045.3	1288.0	2.20
1.8	3319.7	1052.5	1282.8	2.22	1.8	3403.5	1076.6	1315.9	2.27		
T5C Full Load Rated Cooling	0.2	4233.2	720.7	932.6	1.57	T5C Full Load Rated Cooling	0.2	4162.8	774.3	1001.5	1.68
	0.4	4128.8	760.7	975.9	1.66		0.4	4071.9	809.9	1046.0	1.76
	0.6	4028.7	801.0	1021.2	1.74		0.6	4003.9	844.8	1084.3	1.84
	0.8	3950.8	838.7	1072.3	1.82		0.8	3961.5	877.0	1139.4	1.91
	1	3855.9	882.2	1125.7	1.92		1	3883.6	916.0	1184.5	1.99
	1.2	3753.6	926.3	1181.4	2.02		1.2	3800.0	955.6	1220.8	2.08
	1.4	3653.5	971.4	1232.7	2.11		1.4	3675.0	1006.5	1282.5	2.19
	1.6	3482.0	1007.9	1273.0	2.19		1.6	3572.0	1049.5	1332.8	2.28
1.8	3408.0	1055.5	1326.1	2.30	1.8	3491.9	1080.0	1360.1	2.35		
T1'H Full Load Rated Heating	0.2	3656.4	647.2	657.2	1.06	T1'H Full Load Rated Heating	0.2	3604.8	692.5	703.7	1.14
	0.4	3539.9	694.3	695.3	1.14		0.4	3502.8	734.3	740.6	1.21
	0.6	3430.8	741.9	735.8	1.22		0.6	3418.1	775.9	774.0	1.28
	0.8	3327.5	788.1	782.7	1.30		0.8	3348.9	816.8	827.3	1.34
	1	3207.5	838.5	831.4	1.38		1	3246.2	864.3	870.9	1.42
	1.2	3086.6	887.1	879.8	1.46		1.2	3149.0	908.8	902.2	1.49
	1.4	2973.2	932.0	921.7	1.53		1.4	2979.6	969.0	956.5	1.59
	1.6	2755.3	990.6	972.5	1.63		1.6	2860.0	1015.3	1001.3	1.67
1.8	2636.6	1039.9	1009.0	1.71	1.8	2722.2	1060.7	1042.4	1.74		
T2'H Full Load Rated Heating	0.2	3839.6	670.3	735.8	1.21	T2'H Full Load Rated Heating	0.2	3781.4	718.3	788.5	1.29
	0.4	3727.7	714.7	775.2	1.29		0.4	3682.1	757.8	827.8	1.36
	0.6	3622.4	759.7	817.1	1.37		0.6	3603.9	796.7	862.1	1.43
	0.8	3530.8	802.4	865.2	1.45		0.8	3548.8	833.9	916.7	1.50
	1	3420.8	850.7	916.1	1.53		1	3455.3	878.8	981.3	1.58
	1.2	3306.2	898.0	967.0	1.62		1.2	3363.7	921.9	994.1	1.66
	1.4	3197.2	943.7	1012.7	1.70		1.4	3205.1	980.3	1051.1	1.77
	1.6	2990.0	993.5	1058.4	1.79		1.6	3089.8	1026.1	1098.2	1.85
1.8	2890.8	1043.0	1100.9	1.88	1.8	2975.3	1065.0	1133.1	1.92		
T3'H Full Load Rated Heating	0.2	3965.8	686.3	794.3	1.31	T3'H Full Load Rated Heating	0.2	3903.4	736.2	851.7	1.41
	0.4	3856.7	729.1	834.8	1.40		0.4	3806.5	774.2	892.6	1.48
	0.6	3753.6	772.4	877.8	1.48		0.6	3732.1	811.5	927.9	1.55
	0.8	3668.4	813.1	926.7	1.56		0.8	3684.0	846.7	983.1	1.62
	1	3564.2	859.9	978.7	1.65		1	3596.1	889.7	1028.1	1.70
	1.2	3453.7	906.3	1031.3	1.74		1.2	3507.8	931.8	1061.9	1.78
	1.4	3347.7	952.1	1079.2	1.82		1.4	3358.3	988.4	1120.6	1.89
	1.6	3149.9	996.8	1122.2	1.91		1.6	3246.4	1033.5	1169.1	1.98
1.8	3061.6	1046.0	1168.6	2.00	1.8	3145.6	1068.9	1200.6	2.05		
T4'H Full Load Rated Heating	0.2	4163.3	711.6	894.3	1.50	T4'H Full Load Rated Heating	0.2	4094.9	764.3	960.0	1.61
	0.4	4057.9	752.3	936.8	1.58		0.4	4002.2	800.5	1003.5	1.68
	0.6	3957.3	793.3	981.5	1.67		0.6	3932.8	835.8	1040.9	1.76
	0.8	3878.3	831.6	1032.0	1.75		0.8	3890.3	868.6	1096.2	1.83
	1	3781.5	875.9	1085.1	1.84		1	3810.1	908.6	1141.4	1.91
	1.2	3677.1	920.7	1140.1	1.94		1.2	3725.6	948.9	1177.0	2.00
	1.4	3575.5	966.1	1190.7	2.03		1.4	3593.4	1001.6	1238.0	2.11
	1.6	3396.2	1004.4	1231.3	2.11		1.6	3487.8	1045.3	1288.0	2.20
1.8	3319.7	1052.5	1282.8	2.22	1.8	3403.5	1076.6	1315.9	2.27		
T5'H Full Load Rated Heating	0.2	4233.2	720.7	932.6	1.57	T5'H Full Load Rated Heating	0.2	4162.8	774.3	1001.5	1.68
	0.4	4128.8	760.7	975.9	1.66		0.4	4071.9	809.9	1046.0	1.76
	0.6	4028.7	801.0	1021.2	1.74		0.6	4003.9	844.8	1084.3	1.84
	0.8	3950.8	838.7	1072.3	1.82		0.8	3961.5	877.0	1139.4	1.91
	1	3855.9	882.2	1125.7	1.92		1	3883.6	916.0	1184.5	1.99
	1.2	3753.6	926.3	1181.4	2.02		1.2	3800.0	955.6	1220.8	2.08
	1.4	3653.5	971.4	1232.7	2.11		1.4	3675.0	1006.5	1282.5	2.19
	1.6	3482.0	1007.9	1273.0	2.19		1.6	3572.0	1049.5	1332.8	2.28
1.8	3408.0	1055.5	1326.1	2.30	1.8	3491.9	1080.0	1360.1	2.35		

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

10 TON AC

10T AC Standard Static

Motor 2.4 HP

Model: DSC120_STD

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2154.1	434.4	172.3	0.24
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2471.3	466.7	232.0	0.34
	0.4	2292.9	546.0	268.3	0.40
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3557.9	578.9	510.4	0.85
	0.4	3437.1	641.5	562.0	0.94
	0.6	3284.1	701.8	603.1	1.03
	0.8	3163.0	755.0	646.7	1.11

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4202.8	647.3	756.6	1.29
	0.4	4100.5	700.7	815.5	1.39
	0.6	4010.1	746.0	863.5	1.48
	0.8	3902.9	796.2	914.4	1.58

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4308.3	658.6	805.5	1.37
	0.4	4207.3	710.6	865.6	1.48
	0.6	4121.8	754.6	915.5	1.57
	0.8	4015.0	804.0	967.3	1.67

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3720.2	595.9	565.0	0.95
	0.4	3605.5	656.2	618.6	1.04
	0.6	3472.7	711.7	660.7	1.13
	0.8	3356.7	764.4	706.4	1.21

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3992.4	624.7	667.0	0.99
	0.4	3885.8	681.1	723.8	1.08
	0.6	3780.6	730.1	768.7	1.16
	0.8	3670.9	781.6	817.5	1.24

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4192.1	646.1	751.7	1.28
	0.4	4089.6	699.7	810.6	1.38
	0.6	3998.6	745.1	858.4	1.47
	0.8	3891.3	795.4	909.2	1.57

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4202.8	647.3	756.6	1.29
	0.4	4100.5	700.7	815.5	1.39
	0.6	4010.1	746.0	863.5	1.48
	0.8	3902.9	796.2	914.4	1.58

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4308.3	658.6	805.5	1.37
	0.4	4207.3	710.6	865.6	1.48
	0.6	4121.8	754.6	915.5	1.57
	0.8	4015.0	804.0	967.3	1.67

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2099.0	439.9	228.0	0.24
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2397.2	474.9	269.3	0.35
	0.4	2148.1	577.7	327.3	0.42
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3418.9	596.4	508.0	0.87
	0.4	3305.7	652.1	553.4	0.95
	0.6	3142.7	716.8	606.8	1.05
	0.8	3019.6	766.3	643.2	1.12

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4025.7	670.5	848.0	1.33
	0.4	3949.9	710.2	893.7	1.41
	0.6	3822.5	763.8	951.3	1.52
	0.8	3712.7	808.9	1014.7	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4125.1	682.8	807.7	1.42
	0.4	4050.7	721.2	852.8	1.50
	0.6	3927.4	772.8	910.2	1.61
	0.8	3818.0	817.1	972.8	1.70

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3571.6	614.9	560.7	0.98
	0.4	3471.7	665.5	605.3	1.06
	0.6	3319.1	727.5	660.0	1.15
	0.8	3200.8	776.1	704.4	1.23

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3827.7	646.1	662.9	1.03
	0.4	3744.5	689.7	706.9	1.09
	0.6	3607.4	747.0	763.3	1.19
	0.8	3495.1	793.8	818.5	1.26

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4015.6	669.3	750.6	1.32
	0.4	3939.5	709.1	795.1	1.40
	0.6	3811.7	762.9	852.3	1.51
	0.8	3701.9	808.1	912.9	1.60

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4025.7	670.5	848.0	1.33
	0.4	3949.9	710.2	893.7	1.41
	0.6	3822.5	763.8	951.3	1.52
	0.8	3712.7	808.9	1014.7	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4125.1	682.8	807.7	1.42
	0.4	4050.7	721.2	852.8	1.50
	0.6	3927.4	772.8	910.2	1.61
	0.8	3818.0	817.1	972.8	1.70

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

10 TON AC

10T AC Medium Static

Motor 3.5 HP

Model: DSC120_MED

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2471.3	466.7	232.0	0.34
	0.4	2292.9	546.0	268.3	0.40
	0.6				
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2788.9	499.2	300.2	0.46
	0.4	2629.9	573.5	341.3	0.53
	0.6	2351.0	662.9	382.1	0.61
	0.8	2195.2	716.7	414.4	0.66
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3864.6	611.2	617.4	1.02
	0.4	3754.6	669.4	672.7	1.12
	0.6	3637.5	721.2	716.1	1.20
	0.8	3525.2	773.3	763.5	1.29
	1	3321.7	842.5	820.3	1.41
	1.2	3193.2	892.9	870.6	1.49
	1.4	2945.2	965.4	934.3	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4556.3	685.7	933.7	1.56
	0.4	4455.8	734.4	996.0	1.67
	0.6	4373.8	777.2	1051.7	1.77
	0.8	4265.0	824.2	1105.1	1.87
	1	4121.0	879.2	1165.1	2.00
	1.2	4013.2	925.5	1221.8	2.10
	1.4	3807.0	986.7	1292.2	2.24

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4738.4	705.9	1042.2	1.74
	0.4	4635.5	752.3	1105.7	1.85
	0.6	4547.3	796.0	1167.0	1.96
	0.8	4434.0	840.8	1221.3	2.07
	1	4311.1	889.3	1280.9	2.19
	1.2	4201.5	933.7	1337.7	2.30
	1.4	4019.9	986.6	1406.3	2.43

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4202.8	647.3	756.6	1.26
	0.4	4100.5	700.7	815.5	1.37
	0.6	4010.1	746.0	863.5	1.45
	0.8	3902.9	796.2	914.4	1.55
	1	3725.1	860.2	973.5	1.68
	1.2	3611.2	909.1	1027.9	1.77
	1.4	3375.2	979.4	1097.0	1.91

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4359.7	664.2	830.5	1.39
	0.4	4259.1	715.5	891.1	1.49
	0.6	4175.3	759.1	942.0	1.59
	0.8	4068.4	808.0	994.2	1.69
	1	3904.7	868.6	1053.9	1.81
	1.2	3794.8	916.5	1109.6	1.91
	1.4	3569.4	983.7	1180.0	2.05

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4459.8	675.1	881.5	1.47
	0.4	4359.6	725.1	942.9	1.58
	0.6	4277.7	768.0	996.1	1.68
	0.8	4170.2	816.0	1049.0	1.78
	1	4016.1	873.9	1109.0	1.91
	1.2	3907.8	921.1	1165.2	2.01
	1.4	3691.3	985.6	1235.9	2.15

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4556.3	685.7	933.7	1.56
	0.4	4455.8	734.4	996.0	1.67
	0.6	4373.8	777.2	1051.7	1.77
	0.8	4265.0	824.2	1105.1	1.87
	1	4121.0	879.2	1165.1	2.00
	1.2	4013.2	925.5	1221.8	2.10
	1.4	3807.0	986.7	1292.2	2.24

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4738.4	705.9	1042.2	1.74
	0.4	4635.5	752.3	1105.7	1.85
	0.6	4547.3	796.0	1167.0	1.96
	0.8	4434.0	840.8	1221.3	2.07
	1	4311.1	889.3	1280.9	2.19
	1.2	4201.5	933.7	1337.7	2.30
	1.4	4019.9	986.6	1406.3	2.43

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2397.2	474.9	269.3	0.34
	0.4	2148.1	577.7	327.3	0.42
	0.6				
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2695.8	510.1	321.9	0.47
	0.4	2493.4	597.2	375.2	0.55
	0.6	2271.6	673.8	420.7	0.62
	0.8	2115.6	726.4	406.9	0.67
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3707.4	631.4	612.6	1.05
	0.4	3617.4	678.0	656.8	1.13
	0.6	3473.3	737.6	712.4	1.23
	0.8	3358.6	785.2	763.0	1.31
	1	3124.7	863.8	836.7	1.44
	1.2	2912.5	925.2	895.9	1.55
	1.4	2749.8	974.5	947.6	1.63

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4358.6	712.1	946.8	1.62
	0.4	4280.6	749.3	994.4	1.70
	0.6	4164.4	796.1	1051.9	1.81
	0.8	4053.3	837.9	1115.4	1.91
	1	3889.4	899.8	1189.0	2.05
	1.2	3711.4	954.9	1257.6	2.17
	1.4	3593.0	1003.1	1317.2	2.28

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4530.1	734.0	1067.8	1.81
	0.4	4441.9	772.4	1118.3	1.90
	0.6	4328.1	815.4	1175.3	2.01
	0.8	4212.9	855.0	1235.8	2.10
	1	4077.6	908.2	1305.2	2.23
	1.2	3913.8	961.0	1375.1	2.36
	1.4	3807.5	1007.4	1434.7	2.48

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4025.7	670.5	755.7	1.31
	0.4	3949.9	710.2	800.3	1.38
	0.6	3822.5	763.8	857.5	1.49
	0.8	3712.7	808.9	918.3	1.58
	1	3506.7	882.1	994.5	1.72
	1.2	3308.0	940.8	1059.0	1.83
	1.4	3166.7	990.5	1115.9	1.93

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4173.5	688.9	834.4	1.44
	0.4	4099.2	726.7	879.9	1.52
	0.6	3977.7	777.4	937.5	1.62
	0.8	3868.3	821.2	1000.7	1.72
	1	3679.0	890.2	1076.5	1.86
	1.2	3488.6	947.3	1143.1	1.98
	1.4	3357.3	996.7	1201.5	2.08

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4267.7	700.7	889.6	1.53
	0.4	4192.4	737.9	936.0	1.61
	0.6	4073.9	786.7	993.6	1.72
	0.8	3964.0	829.5	1057.3	1.81
	1	3787.0	895.2	1132.3	1.95
	1.2	3602.5	951.3	1200.0	2.08
	1.4	3477.8	1000.2	1259.1	2.18

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4358.6	712.1	946.8	1.62
	0.4	4280.6	749.3	994.4	1.70
	0.6	4164.4	796.1	1051.9	1.81
	0.8	4053.3	837.9	1115.4	1.91
	1	3889.4	899.8	1189.0	2.05
	1.2	3711.4	954.9	1257.6	2.17
	1.4	3593.0	1003.1	1317.2	2.28

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4530.1	734.0	1067.8	1.81
	0.4	4441.9	772.4	1118.3	1.90
	0.6	4328.1	815.4	1175.3	2.01
	0.8	4212.9	855.0	1235.8	2.10
	1	4077.6	908.2	1305.2	2.23
	1.2	3913.8	961.0	1375.1	2.36
	1.4	3807.5	1007.4	1434.7	2.48

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

10 TON AC

10T AC High Static

Motor 3.5 HP

Model: DSC120_HIGH

DOWNSHOT

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2586.6	478.5	255.7	0.38
	0.4	2415.4	556.0	293.8	0.44
	0.6	2096.8	654.4	335.5	0.52
	0.8				
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2876.7	508.2	320.8	0.50
	0.4	2722.8	581.2	363.1	0.57
	0.6	2460.3	666.8	403.7	0.65
	0.8	2309.3	720.6	437.3	0.70
	1	2054.2	792.6	481.6	0.77
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3998.1	625.3	669.3	1.11
	0.4	3891.7	681.6	726.2	1.21
	0.6	3786.9	730.5	771.1	1.30
	0.8	3677.3	781.9	820.0	1.39
	1	3483.3	849.4	877.8	1.51
	1.2	3361.5	899.3	929.9	1.60
	1.4	3116.6	971.6	966.2	1.73
	1.6	2988.6	1013.8	1039.7	1.80
	1.8	2684.1	1082.5	1114.9	1.92

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4824.0	715.5	1098.3	1.83
	0.4	4719.0	760.8	1162.4	1.94
	0.6	4624.7	805.8	1226.8	2.06
	0.8	4508.1	849.3	1281.3	2.17
	1	4396.2	894.1	1340.4	2.28
	1.2	4284.3	937.4	1397.0	2.39
	1.4	4117.2	985.4	1464.1	2.52
	1.6	4007.9	1028.0	1519.5	2.62
	1.8	3799.2	1085.2	1593.2	2.77

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4949.6	729.8	1188.0	1.97
	0.4	4840.1	773.6	1252.7	2.09
	0.6	4732.3	821.3	1322.3	2.21
	0.8	4609.4	862.7	1376.9	2.33
	1	4515.2	901.3	1435.0	2.43
	1.2	4397.8	942.8	1490.8	2.54
	1.4	4255.9	981.8	1554.6	2.65
	1.6	4147.2	1024.7	1611.9	2.76
	1.8	4001.3	1074.6	1678.2	2.90

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3876.4	612.4	621.8	1.03
	0.4	3766.7	670.4	677.3	1.13
	0.6	3650.8	722.0	720.8	1.21
	0.8	3538.8	774.0	768.4	1.30
	1	3336.1	843.1	825.2	1.42
	1.2	3208.3	893.5	875.8	1.50
	1.4	2960.5	966.0	939.6	1.62
	1.6	2828.3	1008.2	981.6	1.69
	1.8	2540.8	1075.0	1052.3	1.81

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4093.7	635.5	708.9	1.18
	0.4	3989.4	690.5	766.7	1.28
	0.6	3892.1	737.5	813.0	1.37
	0.8	3783.9	788.4	862.8	1.46
	1	3597.2	854.4	921.3	1.59
	1.2	3479.4	903.9	974.5	1.68
	1.4	3238.0	975.5	1042.3	1.81
	1.6	3113.1	1017.7	1087.2	1.89
	1.8	2799.7	1087.4	1165.1	2.02

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4277.1	655.3	790.7	1.32
	0.4	4175.7	707.7	850.4	1.43
	0.6	4088.9	752.0	899.8	1.51
	0.8	3982.1	801.7	951.3	1.61
	1	3810.8	864.1	1010.7	1.74
	1.2	3699.0	912.6	1065.8	1.84
	1.4	3467.5	981.6	1135.6	1.98
	1.6	3348.0	1023.8	1183.0	2.06
	1.8	3029.4	1094.0	1264.6	2.20

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4824.0	715.5	1098.3	1.83
	0.4	4719.0	760.8	1162.4	1.94
	0.6	4624.7	805.8	1226.8	2.06
	0.8	4508.1	849.3	1281.3	2.17
	1	4396.2	894.1	1340.4	2.28
	1.2	4284.3	937.4	1397.0	2.39
	1.4	4117.2	985.4	1464.1	2.52
	1.6	4007.9	1028.0	1519.5	2.62
	1.8	3799.2	1085.2	1593.2	2.77

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4949.6	729.8	1188.0	1.97
	0.4	4840.1	773.6	1252.7	2.09
	0.6	4732.3	821.3	1322.3	2.21
	0.8	4609.4	862.7	1376.9	2.33
	1	4515.2	901.3	1435.0	2.43
	1.2	4397.8	942.8	1490.8	2.54
	1.4	4255.9	981.8	1554.6	2.65
	1.6	4147.2	1024.7	1611.9	2.76
	1.8	4001.3	1074.6	1678.2	2.90

HORIZONTAL

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2505.5	487.7	287.0	0.39
	0.4	2273.9	584.6	343.2	0.46
	0.6	2034.5	664.1	386.2	0.53
	0.8				
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2778.3	519.9	338.7	0.51
	0.4	2587.9	602.9	390.7	0.59
	0.6	2373.5	678.2	437.3	0.66
	0.8	2222.0	730.5	430.1	0.71
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C Full Load Rated Cooling	0.2	3933.1	646.8	665.2	1.15
	0.4	3750.2	690.2	709.3	1.23
	0.6	3613.3	747.5	765.7	1.33
	0.8	3501.1	794.2	821.0	1.41
	1	3277.0	871.2	896.2	1.55
	1.2	3089.5	931.6	957.6	1.66
	1.4	2915.2	981.2	1011.7	1.74
	1.6	2633.4	1045.9	1079.2	1.86
	1.8	2422.4	1091.6	1116.0	1.94

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4610.8	744.4	1131.4	1.90
	0.4	4515.0	784.1	1183.7	2.00
	0.6	4401.3	825.3	1240.3	2.11
	0.8	4283.1	863.8	1298.1	2.20
	1	4163.4	911.9	1364.6	2.33
	1.2	4007.3	963.5	1434.9	2.46
	1.4	3906.8	1008.7	1494.0	2.57
	1.6	3680.0	1059.2	1550.7	2.70
	1.8	3495.2	1113.5	1624.4	2.84

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4729.2	759.8	1234.3	2.05
	0.4	4618.3	802.6	1289.9	2.16
	0.6	4503.4	840.9	1345.4	2.27
	0.8	4379.3	877.6	1397.5	2.37
	1	4285.5	917.0	1458.6	2.47
	1.2	4142.1	966.6	1529.1	2.61
	1.4	4050.2	1009.8	1587.0	2.72
	1.6	3853.7	1053.0	1635.7	2.84
	1.8	3678.5	1109.1	1718.3	2.99

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3718.5	632.8	617.1	1.06
	0.4	3629.2	679.0	661.2	1.14
	0.6	3485.8	738.4	716.9	1.24
	0.8	3371.3	786.0	768.0	1.33
	1	3138.3	864.5	841.8	1.45
	1.2	2926.4	925.8	901.2	1.56
	1.4	2764.4	975.1	953.2	1.64
	1.6	2498.6	1038.7	1018.3	1.75
	1.8	2277.3	1083.5	1051.8	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3923.0	657.8	705.9	1.22
	0.4	3844.1	699.3	750.1	1.30
	0.6	3711.9	754.9	806.9	1.40
	0.8	3601.1	800.9	865.1	1.49
	1	3384.9	876.3	941.0	1.63
	1.2	3181.3	935.9	1003.9	1.74
	1.4	3033.0	985.7	1059.4	1.83
	1.6	2748.5	1050.9	1128.3	1.95
	1.8	2538.1	1097.4	1168.0	2.04

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4095.6	679.2	791.9	1.37
	0.4	4021.0	717.9	836.8	1.45
	0.6	3896.5	770.1	894.2	1.55
	0.8	3787.1	814.6	956.3	1.64
	1	3588.7	886.0	1032.5	1.78
	1.2	3393.7	943.9	1098.0	1.90
	1.4	3257.2	993.5	1155.7	2.00
	1.6	2972.9	1058.3	1225.7	2.13
	1.8	2765.2	1106.4	1271.7	2.23

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4610.8	744.4	1131.4	1.90
	0.4	4515.0	784.1	1183.7	2.00
	0.6	4401.3	825.3	1240.3	2.11
	0.8	4283.1	863.8	1298.1	2.20
	1	4163.4	911.9	1364.6	2.33
	1.2	4007.3	963.5	1434.9	2.46
	1.4	3906.8	1008.7	1494.0	2.57
	1.6	3680.0	1059.2	1550.7	2.70
	1.8	3495.2	1113.5	1624.4	2.84

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON AC

12.5T AC STANDARD STATIC
Models: DSC1503D, DSC1504D, DSC1507D

DOWNSHOT

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2158	454	292	0.25
	0.4	1860	565	361	0.31
	0.6	1532	657	416	0.37
	0.8	1323	710	458	0.40

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2501	491	405	0.37
	0.4	2253	586	473	0.44
	0.6	1977	669	535	0.51
	0.8	1761	729	589	0.55

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4373	700	1444	1.49
	0.4	4292	740	1534	1.58
	0.6	4200	787	1618	1.68
	0.8	4047	845	1718	1.80

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4883	761	1989	2.05
	0.4	4781	809	2106	2.18
	0.6	4676	849	2185	2.29
	0.8	4601	886	2285	2.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4954	770	2087	2.14
	0.4	4843	821	2209	2.29
	0.6	4732	861	2287	2.40
	0.8	4673	893	2385	2.49

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4373	700	1444	1.49
	0.4	4292	740	1534	1.58
	0.6	4200	787	1618	1.68
	0.8	4047	845	1718	1.80

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4603	727	1663	1.55
	0.4	4519	768	1762	1.64
	0.6	4428	812	1845	1.73
	0.8	4304	863	1946	1.84

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4729	742	1799	1.86
	0.4	4639	785	1906	1.97
	0.6	4544	827	1988	2.07
	0.8	4440	873	2089	2.19

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4883	761	1989	2.05
	0.4	4781	809	2106	2.18
	0.6	4676	849	2185	2.29
	0.8	4601	886	2285	2.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4954	770	2087	2.14
	0.4	4843	821	2209	2.29
	0.6	4732	861	2287	2.40
	0.8	4673	893	2385	2.49

12.5T AC STANDARD STATIC
Models: DSC1503D, DSC1504D, DSC1507D

HORIZONTAL

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2124	462	301	0.26
	0.4	1926	534	342	0.30
	0.6	1609	625	398	0.35
	0.8	1383	692	444	0.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2447	503	431	0.38
	0.4	2275	570	475	0.43
	0.6	2010	650	529	0.49
	0.8	1810	713	580	0.54

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4258	736	1524	1.57
	0.4	4177	777	1588	1.66
	0.6	4103	816	1662	1.74
	0.8	4012	858	1743	1.83

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	4784	805	2058	2.17
	0.4	4697	842	2133	2.27
	0.6	4614	881	2228	2.37
	0.8	4532	920	2322	2.48

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	4860	815	2152	2.27
	0.4	4769	851	2228	2.37
	0.6	4681	892	2328	2.48
	0.8	4598	930	2425	2.59

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4258	736	1524	1.57
	0.4	4177	777	1588	1.66
	0.6	4103	816	1662	1.74
	0.8	4012	858	1743	1.83

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4492	766	1740	1.64
	0.4	4411	805	1808	1.72
	0.6	4339	843	1890	1.80
	0.8	4255	884	1976	1.89

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4622	783	1874	1.96
	0.4	4540	821	1945	2.06
	0.6	4465	860	2032	2.15
	0.8	4383	899	2122	2.25

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4784	805	2058	2.17
	0.4	4697	842	2133	2.27
	0.6	4614	881	2228	2.37
	0.8	4532	920	2322	2.48

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4860	815	2152	2.27
	0.4	4769	851	2228	2.37
	0.6	4681	892	2328	2.48
	0.8	4598	930	2425	2.59

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON AC

12.5T AC MEDIUM STATIC
Models: DSC1503L, DSC1504L, DSC1507L

DOWNSHOT

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2543	483	338	0.39
	0.4	2344	561	389	0.45
	0.6	2082	653	454	0.53
	0.8	1822	727	514	0.59
	1.0	1632	773	546	0.63
	1.2	1380	832	595	0.67
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2845	517	461	0.50
	0.4	2659	589	515	0.57
	0.6	2425	673	583	0.65
	0.8	2185	743	644	0.72
	1.0	2004	790	685	0.77
	1.2	1758	849	741	0.83
	1.4	1539	892	786	0.87

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4522	709	1364	1.46
	0.4	4400	754	1442	1.55
	0.6	4295	799	1521	1.64
	0.8	4158	848	1598	1.74
	1.0	4026	895	1683	1.84
	1.2	3826	952	1765	1.96
	1.4	3671	996	1850	2.05

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	5513	828	2255	2.46
	0.4	5418	863	2351	2.57
	0.6	5346	896	2439	2.66
	0.8	5253	935	2537	2.78
	1.0	5153	978	2639	2.90
	1.2	5005	1025	2724	3.04
	1.4	4883	1066	2819	3.17

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	5616	841	2383	2.60
	0.4	5522	876	2481	2.71
	0.6	5450	909	2571	2.81
	0.8	5359	947	2672	2.93
	1.0	5263	988	2775	3.06
	1.2	5122	1033	2858	3.20
	1.4	5004	1074	2954	3.32

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4881	751	1635	1.76
	0.4	4769	792	1719	1.86
	0.6	4683	831	1802	1.95
	0.8	4564	876	1884	2.06
	1.0	4444	922	1977	2.16
	1.2	4258	976	2062	2.29
	1.4	4116	1020	2152	2.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	5215	791	1933	2.10
	0.4	5113	828	2023	2.20
	0.6	5038	864	2109	2.29
	0.8	4934	905	2198	2.40
	1.0	4824	950	2297	2.52
	1.2	4656	1001	2383	2.66
	1.4	4525	1044	2476	2.77

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	5413	816	2139	2.33
	0.4	5315	851	2233	2.43
	0.6	5244	885	2320	2.53
	0.8	5147	925	2415	2.64
	1.0	5044	968	2516	2.77
	1.2	4888	1016	2602	2.91
	1.4	4763	1058	2697	3.03

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5513	828	2255	2.46
	0.4	5418	863	2351	2.57
	0.6	5346	896	2439	2.66
	0.8	5253	935	2537	2.78
	1.0	5153	978	2639	2.90
	1.2	5005	1025	2724	3.04
	1.4	4883	1066	2819	3.17

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5616	841	2383	2.60
	0.4	5522	876	2481	2.71
	0.6	5450	909	2571	2.81
	0.8	5359	947	2672	2.93
	1.0	5263	988	2775	3.06
	1.2	5122	1033	2858	3.20
	1.4	5004	1074	2954	3.32

12.5T AC MEDIUM STATIC
Models: DSC1503L, DSC1504L, DSC1507L

HORIZONTAL

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2460	510	360	0.41
	0.4	2228	602	434	0.49
	0.6	1972	687	497	0.56
	0.8	1804	742	541	0.60
	1.0	1610	797	587	0.64
	1.2	1395	852	626	0.69
	1.4	1313	904	644	0.73

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2748	548	494	0.53
	0.4	2543	631	560	0.61
	0.6	2311	709	623	0.69
	0.8	2155	762	671	0.74
	1.0	1963	817	724	0.79
	1.2	1763	871	768	0.85
	1.4	1659	924	800	0.90

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4351	764	1459	1.57
	0.4	4266	804	1511	1.65
	0.6	4152	847	1577	1.74
	0.8	4053	889	1645	1.83
	1.0	3893	942	1733	1.93
	1.2	3772	986	1806	2.03
	1.4	3591	1039	1905	2.13

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	5302	897	2394	2.67
	0.4	5246	924	2481	2.75
	0.6	5177	956	2559	2.84
	0.8	5099	991	2637	2.94
	1.0	4987	1033	2735	3.07
	1.2	4904	1069	2822	3.18
	1.4	4750	1113	2941	3.31

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	5401	912	2528	2.82
	0.4	5343	939	2623	2.90
	0.6	5277	970	2702	3.00
	0.8	5200	1004	2781	3.11
	1.0	5096	1044	2880	3.23
	1.2	5016	1079	2968	3.34
	1.4	4872	1121	3087	3.47

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4695	811	1745	1.90
	0.4	4626	845	1803	1.98
	0.6	4532	883	1873	2.07
	0.8	4442	922	1945	2.16
	1.0	4296	972	2037	2.28
	1.2	4189	1014	2116	2.38
	1.4	4008	1065	2225	2.50

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	5015	856	2058	2.27
	0.4	4956	885	2128	2.35
	0.6	4878	919	2201	2.44
	0.8	4795	956	2276	2.54
	1.0	4665	1003	2373	2.66
	1.2	4571	1042	2456	2.76
	1.4	4398	1090	2572	2.89

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	5205	883	2274	2.53
	0.4	5149	911	2354	2.60
	0.6	5078	943	2430	2.70
	0.8	4998	978	2507	2.80
	1.0	4879	1022	2605	2.92
	1.2	4793	1059	2691	3.03
	1.4	4631	1105	2809	3.16

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5302	897	2394	2.67
	0.4	5246	924	2481	2.75
	0.6	5177	956	2559	2.84
	0.8	5099	991	2637	2.94
	1.0	4987	1033	2735	3.07
	1.2	4904	1069	2822	3.18
	1.4	4750	1113	2941	3.31

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5401	912	2528	2.82
	0.4	5343	939	2623	2.90
	0.6	5277	970	2702	3.00
	0.8	5200	1004	2781	3.11
	1.0	5096	1044	2880	3.23
	1.2	5016	1079	2968	3.34
	1.4	4872	1121	3087	3.47

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON AC

12.5T AC HIGH STATIC
Models: DSC1503W, DSC1504W, DSC1507W

DOWNSHOT

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2752	506	422	0.47
	0.4	2562	580	475	0.53
	0.6	-	-	-	-
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2983	532	520	0.56
	0.4	2802	602	576	0.63
	0.6	2580	682	645	0.72
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4898	753	1650	1.78
	0.4	4788	793	1734	1.87
	0.6	4702	832	1817	1.97
	0.8	4584	877	1900	2.07
	1.0	4464	923	1993	2.18
	1.2	4280	978	2078	2.31
	1.4	4138	1021	2168	2.41
	1.6	3912	1078	2278	2.55
	1.8	3739	1115	2376	2.63

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	5749	859	2568	2.81
	0.4	5658	893	2669	2.92
	0.6	5582	926	2760	3.03
	0.8	5494	963	2867	3.15
	1.0	5402	1003	2970	3.28
	1.2	5273	1045	3052	3.42
	1.4	5158	1085	3147	3.55
	1.6	5003	1130	3270	3.69
	1.8	4866	1160	3374	3.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	5849	872	2724	2.97
	0.4	5757	906	2828	3.09
	0.6	5677	940	2920	3.21
	0.8	5591	977	3031	3.33
	1.0	5502	1015	3134	3.46
	1.2	5383	1055	3213	3.60
	1.4	5270	1093	3307	3.73
	1.6	5132	1135	3430	3.87
	1.8	5003	1167	3534	3.98

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	5162	785	1883	2.04
	0.4	5059	822	1972	2.14
	0.6	4982	858	2057	2.23
	0.8	4876	900	2145	2.34
	1.0	4765	945	2243	2.46
	1.2	4594	997	2328	2.59
	1.4	4461	1040	2422	2.71
	1.6	4248	1095	2538	2.85
	1.8	4083	1128	2639	2.93

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	5459	822	2191	2.39
	0.4	5363	857	2286	2.49
	0.6	5291	890	2374	2.59
	0.8	5196	929	2471	2.70
	1.0	5094	972	2572	2.83
	1.2	4942	1020	2657	2.97
	1.4	4818	1062	2753	3.09
	1.6	4628	1113	2873	3.24
	1.8	4475	1143	2977	3.33

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	5653	846	2432	2.66
	0.4	5560	880	2531	2.77
	0.6	5487	913	2620	2.87
	0.8	5397	951	2723	2.99
	1.0	5302	992	2828	3.12
	1.2	5164	1037	2909	3.28
	1.4	5046	1077	3005	3.38
	1.6	4878	1125	3127	3.53
	1.8	4734	1154	3232	3.62

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5749	859	2568	2.81
	0.4	5658	893	2669	2.92
	0.6	5582	926	2760	3.03
	0.8	5494	963	2867	3.15
	1.0	5402	1003	2970	3.28
	1.2	5273	1045	3052	3.42
	1.4	5158	1085	3147	3.55
	1.6	5003	1130	3270	3.69
	1.8	4866	1160	3374	3.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5849	872	2724	2.97
	0.4	5757	906	2828	3.09
	0.6	5677	940	2920	3.21
	0.8	5591	977	3031	3.33
	1.0	5502	1015	3134	3.46
	1.2	5383	1055	3213	3.60
	1.4	5270	1093	3307	3.73
	1.6	5132	1135	3430	3.87
	1.8	5003	1167	3534	3.98

12.5T AC HIGH STATIC
Models: DSC1503W, DSC1504W, DSC1507W

HORIZONTAL

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2659	536	451	0.49
	0.4	-	-	-	-
	0.6	-	-	-	-
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2879	566	557	0.59
	0.4	2685	645	620	0.68
	0.6	-	-	-	-
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C Full Load Rated Cooling	0.2	4712	813	1760	1.92
	0.4	4643	847	1819	2.00
	0.6	4551	885	1889	2.09
	0.8	4461	924	1961	2.18
	1.0	4315	974	2054	2.30
	1.2	4210	1015	2133	2.40
	1.4	4028	1066	2242	2.52
	1.6	3884	1109	2331	2.62
	1.8	3675	1166	2444	2.75

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C Full Load Rated Cooling	0.2	5530	931	2721	3.04
	0.4	5468	958	2826	3.13
	0.6	5403	989	2911	3.23
	0.8	5327	1022	2991	3.34
	1.0	5234	1059	3089	3.46
	1.2	5158	1092	3178	3.57
	1.4	5032	1132	3296	3.70
	1.6	4929	1166	3389	3.81
	1.8	4764	1212	3502	3.96

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C Full Load Rated Cooling	0.2	5625	946	2882	3.23
	0.4	5559	974	3001	3.32
	0.6	5494	1005	3086	3.43
	0.8	5417	1037	3167	3.54
	1.0	5335	1072	3265	3.66
	1.2	5261	1103	3355	3.77
	1.4	5151	1140	3471	3.89
	1.6	5055	1173	3563	4.00
	1.8	4907	1216	3670	4.15

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4065	849	2005	2.21
	0.4	4005	878	2073	2.29
	0.6	4824	913	2145	2.38
	0.8	4740	951	2220	2.47
	1.0	4607	998	2316	2.60
	1.2	4512	1037	2398	2.70
	1.4	4337	1086	2513	2.83
	1.6	4204	1126	2605	2.93
	1.8	3995	1181	2725	3.07

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	5250	890	2328	2.59
	0.4	5194	917	2411	2.67
	0.6	5124	949	2488	2.76
	0.8	5045	984	2566	2.86
	1.0	4929	1027	2664	2.99
	1.2	4844	1063	2750	3.09
	1.4	4686	1108	2869	3.23
	1.6	4568	1146	2962	3.34
	1.8	4371	1198	3083	3.49

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	5436	917	2579	2.88
	0.4	5378	944	2676	2.96
	0.6	5312	975	2757	3.06
	0.8	5235	1008	2836	3.17
	1.0	5134	1048	2935	3.29
	1.2	5055	1082	3023	3.40
	1.4	4916	1124	3142	3.53
	1.6	4808	1159	3235	3.64
	1.8	4629	1207	3352	3.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5530	931	2721	3.04
	0.4	5468	958	2826	3.13
	0.6	5403	989	2911	3.23
	0.8	5327	1022	2991	3.34
	1.0	5234	1059	3089	3.46
	1.2	5158	1092	3178	3.57
	1.4	5032	1132	3296	3.70
	1.6	4929	1166	3389	3.81
	1.8	4764	1212	3502	3.96

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5625	946	2882	3.23
	0.4	5559	974	3001	3.32
	0.6	5494	1005	3086	3.43
	0.8	5417	1037	3167	3.54
	1.0	5335	1072	3265	3.66
	1.2	5261	1103	3355	3.77
	1.4	5151	1140	3471	3.89
	1.6	5055	1173	3563	4.00
	1.8	4907	1216	3670	4.15

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON HP

7.5T Heat Pump Standard Static
Models: DSH0903D, DSH0904D,
DSH0907D

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1974.0	437.7	196.2	0.23
	0.4	1789.0	522.9	223.4	0.27
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2131.0	458.2	308.0	0.28
	0.4	1969.0	531.2	340.4	0.32
	0.6	1782.0	615.5	386.4	0.38
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3072.0	567.1	485.8	0.69
	0.4	2947.0	627.9	528.3	0.76
	0.6	2837.0	684.3	571.0	0.83
	0.8	2695.0	737.0	607.0	0.89

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3307.1	839.6	764.0	1.17
	0.4	3215.9	896.8	811.0	1.25
	0.6	3118.9	951.2	865.0	1.33
	0.8	3014.0	1005.4	919.6	1.40

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3370.3	796.1	929.1	1.17
	0.4	3289.3	851.5	997.5	1.25
	0.6	3201.5	905.3	1054.0	1.33
	0.8	3070.0	958.0	1112.0	1.40

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2411.0	487.6	286.0	0.37
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	2666.0	518.4	348.4	0.48
	0.4	2531.0	582.8	385.1	0.54
	0.6	2393.0	646.9	423.0	0.59
	0.8	2231.0	711.9	459.9	0.65

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	2798.0	532.6	383.6	0.53
	0.4	2658.0	596.0	420.4	0.60
	0.6	2530.0	654.0	446.5	0.66
	0.8	2377.0	716.9	498.0	0.72

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3307.1	839.6	764.0	1.35
	0.4	3215.9	896.8	811.0	1.44
	0.6	3118.9	951.2	865.0	1.53
	0.8	3014.0	1005.4	919.6	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3370.3	796.1	929.1	1.34
	0.4	3289.3	851.5	997.5	1.43
	0.6	3201.5	905.3	1054.0	1.52
	0.8	3070.0	958.0	1112.0	1.61

7.5T Heat Pump Standard Static
Horizontal Models: DSH0903D,
DSH0904D, DSH0907D

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1928.0	448.7	158.1	0.24
	0.4	1774.0	534.6	196.1	0.28
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2140.7	486.4	308.3	0.30
	0.4	1978.4	555.8	386.8	0.34
	0.6	1789.8	638.6	433.8	0.39
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3031.0	594.0	431.6	0.72
	0.4	2909.0	649.0	474.6	0.79
	0.6	2799.0	699.1	512.1	0.85
	0.8	2682.0	748.7	539.7	0.91

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3251.0	849.4	775.2	1.18
	0.4	3141.0	905.9	869.4	1.26
	0.6	3035.0	960.9	882.9	1.34
	0.8	2930.0	1016.9	934.7	1.42

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3335.2	807.2	921.7	1.18
	0.4	3228.6	861.0	934.2	1.26
	0.6	3124.6	914.4	1042.2	1.34
	0.8	3022.3	967.8	1102.1	1.42

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2375.0	500.4	254.3	0.38
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	2636.0	533.9	327.7	0.49
	0.4	2506.0	593.8	351.9	0.55
	0.6	2379.0	652.1	379.0	0.60
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	2757.0	548.9	336.4	0.55
	0.4	2637.0	606.5	372.5	0.61
	0.6	2509.0	659.9	401.9	0.66
	0.8	2377.0	722.6	435.8	0.73

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3251.0	849.4	775.2	1.18
	0.4	3141.0	905.9	869.4	1.26
	0.6	3035.0	960.9	882.9	1.34
	0.8	2930.0	1016.9	934.7	1.42

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3335.2	807.2	921.7	1.18
	0.4	3228.6	861.0	934.2	1.26
	0.6	3124.6	914.4	1042.2	1.34
	0.8	3022.3	967.8	1102.1	1.42

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON HP

7.5T Heat Pump Medium Static Downshot
Models: DSH0903L, DSH0904L, DSH0907L

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2298.0	473.0	255.6	0.33
	0.4	2147.0	548.8	284.0	0.39
	0.6	1967.0	619.3	322.2	0.44
	0.8	1637.0	732.4	375.8	0.52
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2345.0	476.2	273.1	0.34
	0.4	2187.0	548.6	300.3	0.39
	0.6	2019.0	620.9	322.6	0.45
	0.8	1686.0	730.8	378.8	0.53
	1	1496.0	789.7	404.8	0.57
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3538.0	619.4	634.4	0.97
	0.4	3413.0	671.7	698.6	1.06
	0.6	3301.0	723.3	739.6	1.14
	0.8	3201.0	769.8	785.9	1.21
	1	3070.0	818.6	808.9	1.29
	1.2	2960.0	870.0	858.4	1.37
	1.4	2839.0	922.4	928.8	1.45

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3883.7	709.7	706.7	1.16
	0.4	3720.6	765.0	770.5	1.25
	0.6	3582.4	816.0	825.5	1.33
	0.8	3459.8	864.8	872.0	1.41
	1	3334.0	918.2	928.1	1.50
	1.2	3070.0	984.4	967.9	1.60
	1.4	3053.4	1052.7	1012.0	1.72

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3711.0	638.4	706.7	1.11
	0.4	3592.0	690.8	770.5	1.20
	0.6	3489.0	740.4	825.5	1.28
	0.8	3391.0	786.4	872.0	1.36
	1	3295.0	835.3	928.1	1.45
	1.2	3178.0	881.6	967.9	1.53
	1.4	2990.0	928.7	1012.0	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3027.0	554.4	534.4	0.64
	0.4	2895.0	613.6	586.5	0.71
	0.6	2786.0	670.2	638.9	0.77
	0.8	2657.0	725.3	681.9	0.84
	1	2500.0	784.0	723.1	0.91
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3307.0	587.3	441.3	0.81
	0.4	3170.0	643.9	499.0	0.88
	0.6	3063.0	697.5	536.3	0.96
	0.8	2946.0	747.3	579.3	1.03
	1	2816.0	801.2	622.0	1.10
	1.2	2678.0	855.6	688.1	1.18
	1.4	2403.0	940.6	721.4	1.29

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3538.0	619.4	706.7	0.97
	0.4	3413.0	671.7	770.5	1.06
	0.6	3301.0	723.3	825.5	1.14
	0.8	3201.0	769.8	872.0	1.21
	1	3070.0	818.6	928.1	1.29
	1.2	2960.0	870.0	967.9	1.37
	1.4	2839.0	922.4	1012.0	1.45

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3883.7	709.7	706.7	1.16
	0.4	3720.6	765.0	770.5	1.25
	0.6	3582.4	816.0	825.5	1.33
	0.8	3459.8	864.8	872.0	1.41
	1	3334.0	918.2	928.1	1.50
	1.2	3188.9	984.4	967.9	1.60
	1.4	3051.0	1052.7	1012.0	1.72

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3711.0	638.4	706.7	1.26
	0.4	3592.0	690.8	770.5	1.36
	0.6	3489.0	740.4	825.5	1.46
	0.8	3391.0	786.4	872.0	1.55
	1	3295.0	835.3	928.1	1.65
	1.2	3178.0	881.6	967.9	1.74
	1.4	3051.0	928.7	1012.0	1.83

7.5T Heat Pump Medium Static Horizontal
Models: DSH0903L, DSH0904L, DSH0907L

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2284.0	494.2	239.7	0.35
	0.4	2135.0	561.5	262.8	0.40
	0.6	1976.0	632.2	287.3	0.45
	0.8	1626.0	742.9	340.9	0.52
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2304.0	496.8	242.1	0.36
	0.4	2152.0	562.2	266.0	0.40
	0.6	1998.0	633.8	303.5	0.46
	0.8	1646.0	746.2	350.1	0.54
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3466.0	652.4	616.3	1.03
	0.4	3361.0	700.7	669.9	1.10
	0.6	3261.0	744.3	712.3	1.17
	0.8	3176.0	789.9	745.2	1.24
	1	3058.0	836.8	774.6	1.32
	1.2	2952.0	884.9	828.0	1.39
	1.4	2816.0	943.0	880.9	1.48

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3601.0	676.9	696.5	1.10
	0.4	3478.0	736.3	736.3	1.20
	0.6	3370.0	789.7	774.8	1.29
	0.8	3271.0	839.6	811.2	1.37
	1	3166.0	893.2	846.9	1.46
	1.2	3010.0	958.2	888.2	1.56
	1.4	2917.0	1023.5	946.8	1.67

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3622.0	675.9	696.5	1.17
	0.4	3530.0	722.6	736.3	1.25
	0.6	3432.0	766.2	774.8	1.33
	0.8	3341.0	809.8	811.2	1.40
	1	3251.0	851.6	846.9	1.48
	1.2	3144.0	897.7	888.2	1.56
	1.4	3006.0	946.9	946.8	1.64

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2983.0	581.7	425.6	0.67
	0.4	2864.0	635.0	451.5	0.73
	0.6	2749.0	687.0	494.1	0.79
	0.8	2630.0	739.6	521.6	0.85
	1	2492.0	800.6	559.4	0.93
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3230.0	616.6	522.7	0.83
	0.4	3112.0	666.5	599.4	0.90
	0.6	3005.0	715.7	682.9	0.97
	0.8	2905.0	761.2	730.9	1.03
	1	2801.0	817.1	782.9	1.10
	1.2	2673.0	871.8	827.6	1.18
	1.4	2325.0	978.2	786.1	1.32

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3466.0	652.4	616.3	1.03
	0.4	3361.0	700.7	669.9	1.10
	0.6	3261.0	744.3	712.3	1.17
	0.8	3176.0	789.9	745.2	1.24
	1	3058.0	836.8	774.6	1.32
	1.2	2952.0	884.9	828.0	1.39
	1.4	2816.0	943.0	880.9	1.48

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3601.0	676.9	696.5	1.10
	0.4	3478.0	736.3	736.3	1.20
	0.6	3370.0	789.7	774.8	1.29
	0.8	3271.0	839.6	811.2	1.37
	1	3166.0	893.2	846.9	1.46
	1.2	3040.0	958.2	888.2	1.56
	1.4	2917.0	1023.5	946.8	1.67

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3622.0	675.9	696.5	1.17
	0.4	3530.0	722.6	736.3	1.25
	0.6	3432.0	766.2	774.8	1.33
	0.8	3341.0	809.8	811.2	1.40
	1	3251.0	851.6	846.9	1.48
	1.2	3144.0	897.7	888.2	1.56
	1.4	3006.0	946.9	946.8	1.64

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

7.5 TON HP

7.5T Heat Pump High Static Downshot
Models: DSH0903W, DSH0904W, DSH0907W

Tap Speed	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2465.0	489.8	281.4	0.36
	0.4	2293.0	560.6	315.7	0.42
	0.6	2148.0	625.7	346.3	0.46
	0.8	1911.0	714.6	394.2	0.53
	1	1614.0	796.5	432.8	0.58
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2465.0	499.1	290.0	0.38
	0.4	2325.0	567.1	229.6	0.44
	0.6	2182.0	632.1	229.6	0.49
	0.8	1993.0	704.9	389.7	0.54
	1	1659.0	803.8	449.3	0.62
	1.2	1498.0	852.6	475.1	0.66
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3657.1	555.9	766.4	0.93
	0.4	3558.5	615.9	826.8	1.03
	0.6	3466.8	668.7	882.3	1.12
	0.8	3391.2	709.5	934.6	1.19
	1	3289.9	761.3	981.7	1.27
	1.2	3175.7	816.1	1015.0	1.36
	1.4	3058.5	867.8	1069.0	1.45
	1.6	2887.6	936.7	1115.0	1.57
	1.8	2784.5	974.6	1178.0	1.63

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3748.4	664.2	842.1	1.16
	0.4	3637.4	711.4	887.8	1.24
	0.6	3538.8	756.4	948.5	1.32
	0.8	3448.4	803.0	994.7	1.40
	1	3339.0	846.7	1044.0	1.48
	1.2	3225.7	893.1	1084.0	1.56
	1.4	3108.4	946.7	1117.0	1.65
	1.6	3001.0	999.3	1162.0	1.74
	1.8	2840.3	1041.1	1217.0	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3849.9	674.4	1268.0	1.25
	0.4	3745.3	723.3	1341.0	1.34
	0.6	3654.6	770.1	1390.0	1.43
	0.8	3545.5	815.4	1458.0	1.51
	1	3445.4	858.4	1516.0	1.59
	1.2	3359.0	901.8	1561.0	1.67
	1.4	3241.8	945.0	1589.0	1.75
	1.6	3120.1	991.3	1659.0	1.84
	1.8	3001.0	1041.6	1692.0	1.93

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3502.0	617.5	628.4	0.90
	0.4	3381.0	669.0	677.7	0.97
	0.6	3533.0	721.1	720.7	1.05
	0.8	3145.0	767.0	770.5	1.12
	1	3047.0	816.6	811.2	1.19
	1.2	2908.0	866.1	866.1	1.26
	1.4	2766.0	917.5	891.3	1.34
	1.6	2491.0	1010.0	977.9	1.47
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3670.0	637.4	709.0	1.02
	0.4	3542.0	685.9	742.2	1.10
	0.6	3430.0	737.0	794.7	1.18
	0.8	3312.0	785.0	785.0	1.25
	1	3207.0	832.4	881.4	1.33
	1.2	3098.0	877.9	924.1	1.40
	1.4	2965.0	928.2	976.7	1.48
	1.6	2829.0	982.3	1005.0	1.57
	1.8	2544.0	1070.0	1096.0	1.71

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3657.1	555.9	842.1	0.93
	0.4	3558.5	615.9	887.8	1.03
	0.6	3466.8	668.7	948.5	1.12
	0.8	3391.2	709.5	994.7	1.19
	1	3289.9	761.3	1044.0	1.27
	1.2	3175.7	816.1	1084.0	1.36
	1.4	3058.5	867.8	1117.0	1.45
	1.6	2887.6	936.7	1162.0	1.57
	1.8	2784.5	974.6	1217.0	1.63

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3748.4	664.2	1007.0	1.42
	0.4	3637.4	711.4	1057.0	1.52
	0.6	3538.8	756.4	1125.0	1.62
	0.8	3448.4	803.0	1181.0	1.72
	1	3339.0	846.7	1250.0	1.81
	1.2	3225.7	893.1	1301.0	1.91
	1.4	3108.4	946.7	1350.0	2.03
	1.6	3001.0	999.3	1390.0	2.14
	1.8	2840.3	1041.1	1437.0	2.23

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3849.9	674.4	1268.0	1.98
	0.4	3745.3	723.3	1341.0	2.12
	0.6	3654.6	770.1	1390.0	2.26
	0.8	3545.5	815.4	1458.0	2.39
	1	3445.4	858.4	1516.0	2.52
	1.2	3359.0	901.8	1561.0	2.65
	1.4	3241.8	945.0	1589.0	2.77
	1.6	3120.1	991.3	1659.0	2.91
	1.8	3001.0	1041.6	1692.0	3.06

7.5T Heat Pump High Static Horizontal
Models: DSH0903W, DSH0904W, DSH0907W

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2368.0	509.9	258.7	0.38
	0.4	2247.0	571.5	296.8	0.42
	0.6	2113.0	631.5	310.5	0.47
	0.8	1961.0	704.4	352.4	0.52
	1	1600.0	801.9	397.2	0.60
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2449.0	504.1	256.9	0.39
	0.4	2330.0	570.5	294.8	0.44
	0.6	2181.0	638.0	323.6	0.49
	0.8	1991.0	58.9	358.2	0.05
	1	1645.0	34.8	405.8	0.03
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3638.0	587.3	717.4	0.98
	0.4	3533.0	642.1	754.9	1.07
	0.6	3437.0	690.7	805.1	1.15
	0.8	3359.0	728.5	846.4	1.22
	1	3256.0	776.6	888.1	1.30
	1.2	3142.0	827.8	914.2	1.38
	1.4	3027.0	876.3	965.5	1.46
	1.6	2863.0	941.4	1023.0	1.57
	1.8	2766.0	977.4	1075.0	1.63

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3711.0	686.6	717.4	1.20
	0.4	3608.0	730.2	754.9	1.27
	0.6	3517.0	772.0	805.1	1.35
	0.8	3434.0	815.5	846.4	1.42
	1	3334.0	856.4	888.1	1.49
	1.2	3231.0	900.1	914.2	1.57
	1.4	3125.0	950.9	965.5	1.66
	1.6	2986.0	1001.0	1023.0	1.75
	1.8	2885.0	1041.0	1075.0	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3805.7	696.0	723.3	1.29
	0.4	3708.1	741.2	764.2	1.38
	0.6	3623.9	784.7	804.4	1.46
	0.8	3523.2	827.0	844.1	1.54
	1	3431.2	867.4	882.8	1.61
	1.2	3352.2	908.3	922.6	1.69
	1.4	3245.6	949.3	963.1	1.76
	1.6	3135.6	993.3	1007.4	1.84
	1.8	2989.4	1041.5	1056.7	1.93

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3383.0	644.4	590.6	0.94
	0.4	3283.0	692.1	632.8	1.01
	0.6	3167.0	738.4	669.5	1.08
	0.8	3076.0	784.6	702.7	1.14
	1	2977.0	828.9	733.0	1.21
	1.2	2849.0	882.6	775.4	1.29
	1.4	2670.0	950.1	875.7	1.38
	1.6	2404.0	1034.0	929.6	1.51
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3521.0	665.0	668.2	1.06
	0.4	3422.0	712.9	695.6	1.14
	0.6	3325.0	755.9	740.2	1.21
	0.8	3217.0	801.5	768.8	1.28
	1	3122.0	846.2	825.7	1.35
	1.2	3027.0	870.9	870.9	1.39
	1.4	2893.0	947.5	907.7	1.51
	1.6	2762.0	998.8	953.2	1.59
	1.8	2390.0	1100.0	1056.0	1.76

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3711.0	686.6	717.4	1.15
	0.4	3608.0	730.2	754.9	1.22
	0.6	3517.0	772.0	805.1	1.29
	0.8	3434.0	815.5	846.4	1.36
	1	3334.0	856.4	888.1	1.43
	1.2	3231.0	900.1	914.2	1.50
	1.4	3125.0	950.9	965.5	1.59
	1.6	2986.0	1001.0	1023.0	1.67
	1.8	2885.0	1041.0	1075.0	1.74

TAP SPEED

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON HP

8.5T Heat Pump Standard Static
Downshot Models: DSH1023D,
DSH1024D, DSH1027D

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1974.0	437.7	196.2	0.23
	0.4	1789.0	522.9	223.4	0.27
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2131.0	458.2	308.0	0.28
	0.4	1969.0	531.2	340.4	0.32
	0.6	1782.0	615.5	386.4	0.38
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3072.0	567.1	485.8	0.69
	0.4	2947.0	627.9	528.3	0.76
	0.6	2837.0	684.3	571.0	0.83
	0.8	2695.0	737.0	607.0	0.89

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3711.0	638.4	929.1	1.09
	0.4	3592.0	690.8	997.5	1.18
	0.6	3430.0	740.4	1054.0	1.26
	0.8	3391.0	786.4	1112.0	1.34

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3737.0	650.7	929.1	1.16
	0.4	3623.0	703.1	997.5	1.25
	0.6	3513.0	751.2	1054.0	1.34
	0.8	3410.0	798.5	1112.0	1.42

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2708.0	521.1	353.1	0.49
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	2955.0	550.5	432.2	0.62
	0.4	2819.0	611.6	464.0	0.68
	0.6	2715.0	668.0	512.8	0.75
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3072.0	567.1	432.2	0.69
	0.4	2947.0	627.9	464.0	0.76
	0.6	2837.0	684.3	512.8	0.83
	0.8	2695.0	737.0	554.3	0.89

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3711.0	638.4	929.1	1.09
	0.4	3592.0	690.8	997.5	1.18
	0.6	3430.0	740.4	1054.0	1.26
	0.8	3391.0	786.4	1112.0	1.34

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3737.0	650.7	929.1	1.16
	0.4	3623.0	703.1	997.5	1.25
	0.6	3513.0	751.2	1054.0	1.34
	0.8	3410.0	798.5	1112.0	1.42

8.5T Heat Pump Standard Static
Horizontal
Models: DSH1023D, DSH1024D,
DSH1027D

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	1928.0	448.7	158.1	0.24
	0.4	1774.0	534.6	196.1	0.28
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2140.7	486.4	308.3	0.30
	0.4	1978.4	555.8	386.8	0.34
	0.6	1789.8	638.6	433.8	0.39
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3031.0	594.0	431.6	0.72
	0.4	2909.0	649.0	474.6	0.79
	0.6	2799.0	699.1	512.1	0.85
	0.8	2682.0	748.7	539.7	0.91

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3600.5	677.1	886.9	1.15
	0.4	3503.5	724.1	964.7	1.23
	0.6	3404.7	772.6	998.6	1.31
	0.8	3310.9	819.3	1029.6	1.39

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3686.0	687.4	961.0	1.22
	0.4	3591.0	731.5	1035.4	1.30
	0.6	3494.0	775.2	1093.5	1.38
	0.8	3402.0	819.3	1186.2	1.46

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	2675.0	542.5	318.0	0.51
	0.4				
	0.6				
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	2914.0	571.7	404.0	0.64
	0.4	2797.0	630.4	434.5	0.70
	0.6	2680.0	681.3	482.1	0.76
	0.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3062.0	590.2	488.4	0.72
	0.4	2944.0	643.9	519.0	0.78
	0.6	2838.0	692.5	565.5	0.84
	0.8	2713.0	742.2	610.9	0.90

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3600.5	677.1	886.9	1.15
	0.4	3503.5	724.1	964.7	1.23
	0.6	3404.7	772.6	998.6	1.31
	0.8	3310.9	819.3	1029.6	1.39

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3686.0	687.4	961.0	1.22
	0.4	3591.0	731.5	1035.4	1.30
	0.6	3494.0	775.2	1093.5	1.38
	0.8	3402.0	819.3	1186.2	1.46

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.

-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON HP

8.5T Heat Pump Medium Static Downshot
Models: DSH1023L, DSH1024L,
DSH1027L

8.5T Heat Pump Medium Static Horizontal
Models: DSH1023L, DSH1024L,
DSH1027L

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2298.0	473.0	255.6	0.33
	0.4	2147.0	548.8	284.0	0.39
	0.6	1967.0	619.3	322.2	0.44
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2284.0	494.2	239.7	0.35
	0.4	2135.0	561.5	262.8	0.40
	0.6	1976.0	632.2	287.3	0.45
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2345.0	476.2	273.1	0.34
	0.4	2187.0	548.6	300.3	0.39
	0.6	2019.0	620.9	322.6	0.45
	0.8	1686.0	730.8	378.8	0.53
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2304.0	496.8	242.1	0.36
	0.4	2152.0	562.2	266.0	0.40
	0.6	1998.0	633.8	303.5	0.46
	0.8				
	1				
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3538.0	619.4	634.4	0.97
	0.4	3413.0	671.7	698.6	1.06
	0.6	3301.0	723.3	739.6	1.14
	0.8	3201.0	769.8	785.9	1.21
	1	3040.0	818.6	808.9	1.29
	1.2	2960.0	870.0	858.4	1.37
	1.4	2839.0	922.4	928.8	1.45

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3466.0	652.4	616.3	1.03
	0.4	3361.0	700.7	669.9	1.10
	0.6	3261.0	744.3	712.3	1.17
	0.8	3176.0	789.9	745.2	1.24
	1	3058.0	836.8	774.6	1.32
	1.2	2952.0	884.9	828.0	1.39
	1.4	2816.0	943.0	880.9	1.48

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	#REF!	250.4	706.7	1.27
	0.4	1613.3	250.4	770.5	1.35
	0.6	1613.2	250.4	825.5	1.42
	0.8	1613.2	250.4	872.0	1.50
	1	1613.2	250.4	928.1	1.58
	1.2	3450.0	250.4	967.9	1.67
	1.4	1613.2	250.4	1012.0	1.78

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3835.0	567.0	696.5	1.07
	0.4	3756.0	603.0	736.3	1.14
	0.6	3662.0	648.0	774.8	1.23
	0.8	3565.0	694.0	811.2	1.31
	1	3503.0	724.0	846.9	1.37
	1.2	3397.0	776.0	888.2	1.47
	1.4	3262.0	844.0	946.8	1.60

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4156.0	691.7	1066.0	1.50
	0.4	4050.0	740.6	1098.0	1.61
	0.6	3948.0	785.3	1173.0	1.71
	0.8	3843.0	832.4	1222.0	1.81
	1	3750.0	872.5	1266.0	1.90
	1.2	3658.0	914.6	1333.0	1.99
	1.4	3450.0	959.3	1386.0	2.09

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	3971.0	505.0	1038.0	1.10
	0.4	3897.0	539.0	1096.0	1.17
	0.6	3806.0	580.0	1144.0	1.26
	0.8	3707.0	627.0	1187.0	1.36
	1	3653.0	652.0	1240.0	1.42
	1.2	3551.0	701.0	1273.0	1.53
	1.4	3422.0	764.0	1317.0	1.66

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3255.0	582.2	534.4	0.78
	0.4	3118.0	640.4	586.5	0.86
	0.6	3005.0	692.7	638.9	0.93
	0.8	2895.0	743.1	681.9	0.99
	1	2755.0	799.0	723.1	1.07
	1.2	2755.0	799.0	753.2	1.07
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3205.0	611.0	502.2	0.82
	0.4	3089.0	662.9	543.8	0.89
	0.6	2982.0	710.2	572.4	0.95
	0.8	2877.0	757.1	619.4	1.01
	1	2732.0	812.6	654.5	1.09
	1.2				
	1.4				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3454.0	604.8	441.3	0.91
	0.4	3339.0	660.8	499.0	0.99
	0.6	3217.0	713.8	536.3	1.07
	0.8	3103.0	762.8	579.3	1.14
	1	2983.0	814.7	622.0	1.22
	1.2	2858.0	867.0	688.1	1.30
	1.4	2705.0	923.4	721.4	1.38

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3376.0	639.7	584.4	0.96
	0.4	3279.0	689.0	621.5	1.03
	0.6	3172.0	735.7	666.9	1.10
	0.8	3070.0	780.9	705.4	1.17
	1	2959.0	830.7	738.2	1.24
	1.2	2836.0	881.1	771.1	1.32
	1.4	2650.0	954.5	834.6	1.43

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3711.0	638.4	706.7	1.11
	0.4	3592.0	690.8	770.5	1.20
	0.6	3489.0	740.4	825.5	1.28
	0.8	3391.0	786.4	872.0	1.36
	1	3295.0	835.3	928.1	1.45
	1.2	3178.0	881.6	967.9	1.53
	1.4	3051.0	928.7	1012.0	1.61

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3622.0	675.9	696.5	1.17
	0.4	3530.0	722.6	736.3	1.25
	0.6	3432.0	766.2	774.8	1.33
	0.8	3341.0	809.8	811.2	1.40
	1	3251.0	851.6	846.9	1.48
	1.2	3144.0	897.7	888.2	1.56
	1.4	3006.0	946.9	946.8	1.64

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4210.7	670.8	946.9	1.27
	0.4	4097.9	712.1	999.2	1.35
	0.6	3966.9	750.6	1053.0	1.42
	0.8	3835.4	792.0	1109.0	1.50
	1	3753.3	835.9	1150.0	1.58
	1.2	3450.0	882.4	1217.0	1.67
	1.4	3448.8	940.3	1255.0	1.78

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3835.0	567.0	930.3	1.07
	0.4	3756.0	603.0	981.4	1.14
	0.6	3662.0	648.0	1020.0	1.23
	0.8	3565.0	694.0	1066.0	1.31
	1	3503.0	724.0	1117.0	1.37
	1.2	3397.0	776.0	1166.0	1.47
	1.4	3262.0	844.0	1189.0	1.60

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4156.0	691.7	1066.0	1.50
	0.4	4050.0	740.6	1098.0	1.61
	0.6	3948.0	785.3	1173.0	1.71
	0.8	3843.0	832.4	1222.0	1.81
	1	3750.0	872.5	1266.0	1.90
	1.2	3658.0	914.6	1333.0	1.99
	1.4	3450.0	959.3	1386.0	2.09

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	3971.0	505.0	1038.0	1.10
	0.4	3897.0	539.0	1096.0	1.17
	0.6	3806.0	580.0	1144.0	1.26
	0.8	3707.0	627.0	1187.0	1.36
	1	3653.0	652.0	1240.0	1.42
	1.2	3551.0	701.0	1273.0	1.53
	1.4	3422.0	764.0	1317.0	1.66

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

8.5 TON HP

8.5T Heat Pump High Static Downshot
Models: DSH1023W, DSH1024W,
DSH1027W

Tap Speed	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2465.0	489.8	281.4	0.36
	0.4	2293.0	560.6	315.7	0.42
	0.6	2148.0	625.7	346.3	0.46
	0.8	1911.0	714.6	394.2	0.53
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2465.0	499.1	290.0	0.38
	0.4	2325.0	567.1	229.6	0.44
	0.6	2182.0	632.1	229.6	0.49
	0.8	1993.0	704.9	389.7	0.54
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3794.0	662.7	766.4	1.16
	0.4	3688.0	711.0	826.8	1.24
	0.6	3572.0	758.4	882.3	1.32
	0.8	3468.0	807.1	934.6	1.41
	1	3370.0	851.6	981.7	1.49
	1.2	3259.0	894.8	1015.0	1.56
	1.4	3144.0	942.2	1069.0	1.64
	1.6	3011.0	989.9	1115.0	1.73
	1.8	2843.0	1052.0	1178.0	1.84

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4121.4	698.9	842.1	1.43
	0.4	4018.5	745.3	887.8	1.52
	0.6	3933.8	789.9	948.5	1.61
	0.8	3830.3	832.9	994.7	1.70
	1	3697.4	875.5	1044.0	1.79
	1.2	3617.0	917.9	1084.0	1.87
	1.4	3527.1	958.7	1117.0	1.96
	1.6	3408.0	1002.2	1162.0	2.05
	1.8	3262.0	1047.8	1217.0	2.14

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4262.0	717.6	1007.0	1.56
	0.4	4164.0	761.3	1057.0	1.66
	0.6	4060.0	804.9	1125.0	1.75
	0.8	3966.0	850.9	1181.0	1.85
	1	3864.0	890.7	1250.0	1.94
	1.2	3773.0	931.5	1301.0	2.03
	1.4	3687.0	972.7	1350.0	2.12
	1.6	3576.0	1012.0	1390.0	2.20
	1.8	3463.0	1055.0	1437.0	2.30

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3600.0	627.5	656.7	0.96
	0.4	3479.0	679.0	698.3	1.04
	0.6	3363.0	727.8	747.3	1.12
	0.8	3256.0	775.1	808.1	1.19
	1	3144.0	823.4	855.4	1.26
	1.2	3034.0	870.2	893.8	1.34
	1.4	2910.0	921.1	939.6	1.41
	1.6	2726.0	986.6	993.0	1.52
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3785.0	651.8	758.1	1.11
	0.4	3679.0	700.9	800.1	1.19
	0.6	3556.0	747.7	840.1	1.27
	0.8	3451.0	796.1	887.5	1.36
	1	3359.0	841.1	935.7	1.43
	1.2	3249.0	886.3	976.3	1.51
	1.4	3103.0	933.0	1028.0	1.59
	1.6	2981.0	982.9	1077.0	1.67
	1.8	2754.0	1056.0	1150.0	1.80

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3794.0	662.7	766.4	1.16
	0.4	3688.0	711.0	826.8	1.24
	0.6	3572.0	758.4	882.3	1.32
	0.8	3468.0	807.1	934.6	1.41
	1	3370.0	851.6	981.7	1.49
	1.2	3259.0	894.8	1015.0	1.56
	1.4	3144.0	942.2	1069.0	1.64
	1.6	3011.0	989.9	1115.0	1.73
	1.8	2843.0	1052.0	1178.0	1.84

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4121.4	698.9	842.1	1.43
	0.4	4018.5	745.3	887.8	1.52
	0.6	3933.8	789.9	948.5	1.61
	0.8	3830.3	832.9	994.7	1.70
	1	3697.4	875.5	1044.0	1.79
	1.2	3617.0	917.9	1084.0	1.87
	1.4	3527.1	958.7	1117.0	1.96
	1.6	3408.0	1002.2	1162.0	2.05
	1.8	3262.0	1047.8	1217.0	2.14

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4262.0	717.6	1007.0	1.56
	0.4	4164.0	761.3	1057.0	1.66
	0.6	4060.0	804.9	1125.0	1.75
	0.8	3966.0	850.9	1181.0	1.85
	1	3864.0	890.7	1250.0	1.94
	1.2	3773.0	931.5	1301.0	2.03
	1.4	3687.0	972.7	1350.0	2.12
	1.6	3576.0	1012.0	1390.0	2.20
	1.8	3463.0	1055.0	1437.0	2.30

8.5T Heat Pump High Static Horizontal
Models: DSH1023W, DSH1024W,
DSH1027W

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2368.0	509.9	258.7	0.38
	0.4	2247.0	571.5	296.8	0.42
	0.6	2113.0	631.5	310.5	0.47
	0.8	1961.0	704.4	352.4	0.52
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2449.0	504.1	256.9	0.39
	0.4	2330.0	570.5	294.8	0.44
	0.6	2181.0	638.0	323.6	0.49
	0.8	1991.0	58.9	358.2	0.05
	1				
	1.2				
	1.4				
	1.6				
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3711.0	686.6	717.4	1.20
	0.4	3608.0	730.2	754.9	1.27
	0.6	3517.0	772.0	805.1	1.35
	0.8	3434.0	815.5	846.4	1.42
	1	3334.0	856.4	888.1	1.49
	1.2	3231.0	900.1	914.2	1.57
	1.4	3125.0	950.9	965.5	1.66
	1.6	2986.0	1001.0	1023.0	1.75
	1.8	2885.0	1041.0	1075.0	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	3989.3	717.6	892.0	1.47
	0.4	3894.3	760.9	940.8	1.55
	0.6	3816.5	802.6	1004.5	1.64
	0.8	3722.0	842.7	1046.7	1.72
	1	3601.7	882.6	1089.8	1.80
	1.2	3529.4	922.3	1109.0	1.88
	1.4	3449.1	960.5	1188.2	1.96
	1.6	3343.4	1001.3	1238.5	2.04
	1.8	3215.0	1044.1	1291.0	2.13

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4123.0	749.7	984.4	1.63
	0.4	4032.0	790.0	1028.0	1.72
	0.6	3944.0	830.7	1072.0	1.81
	0.8	3866.0	867.8	1129.0	1.89
	1	3774.0	904.8	1168.0	1.97
	1.2	3690.0	943.2	1214.0	2.05
	1.4	3612.0	979.9	1276.0	2.13
	1.6	3506.0	943.2	1214.0	2.05
	1.8	3401.0	1068.0	1357.0	2.32

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3460.0	658.6	618.8	1.01
	0.4	3343.0	704.6	649.8	1.08
	0.6	3244.0	751.5	692.7	1.15
	0.8	3154.0	59.9	738.4	0.09
	1	3043.0	839.0	774.1	1.29
	1.2	2940.0	890.2	834.0	1.37
	1.4	2812.0	947.1	868.2	1.45
	1.6	2695.0	989.3	920.5	1.52
	1.8				

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3626.0	682.8	715.0	1.16
	0.4	3532.0	727.9	763.3	1.24
	0.6	3431.0	771.4	802.0	1.31
	0.8	3344.0	815.2	848.0	1.39
	1	3245.0	858.0	888.0	1.46
	1.2	3125.0	904.6	944.6	1.54
	1.4	3029.0	955.3	985.2	1.63
	1.6	2887.0	1011.0	1040.0	1.72
	1.8	2690.0	1075.0	1097.0	1.83

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3711.0	686.6	717.4	1.20
	0.4	3608.0	730.2	754.9	1.27
	0.6	3517.0	772.0	805.1	1.35
	0.8	3434.0	815.5	846.4	1.42
	1	3334.0	856.4	888.1	1.49
	1.2	3231.0	900.1	914.2	1.57
	1.4	3125.0	950.9	965.5	1.66
	1.6	2986.0	1001.0	1023.0	1.75
	1.8	2885.0	1041.0	1075.0	1.82

TAP SPEED	ESP	SCFM	R.P.M.	WATTS	BHP
T4'H Full Load Rated Heating	0.2	3989.3	717.6	892.0	1.57
	0.4	3894.3	760.9	940.8	1.45
	0.6	3816.5	802.6	1004.5	1.64
	0.8	3722.0	842.7	1046.7	1.72
	1	3601.7	882.6	1089.8	1.80
	1.2	3529.4	922.3	1109.0	1.88
	1.4	3449.1	960.5	1188.2	1.96
	1.6	3343.4	1001.3	1238.5	2.04
1.8	3215.0	1044.1	1291.0	2.13	

APPENDIX A BLOWER PERFORMANCE DATA

10 TON HP

10T Heat Pump Standard Static Downshot
Models: DSH1203D, DSH1204D, DSH1207D

10T Heat Pump Standard Static Horizontal
Models: DSH1203D, DSH1204D, DSH1207D

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2356	466	264	0.30
	0.4	2189	549	316	0.36
	0.6	-	-	-	-
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	3026	543	499	0.56
	0.4	2875	608	549	0.63
	0.6	2733	670	601	0.70
	0.8	2346	778	687	0.81

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4008	649	1046	1.16
	0.4	3879	704	1129	1.26
	0.6	3759	758	1213	1.35
	0.8	3664	807	1284	1.44

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4152	693	1191	1.33
	0.4	4056	746	1255	1.44
	0.6	3940	793	1326	1.53
	0.8	3821	846	1397	1.63

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4430	697	1385	1.49
	0.4	4314	746	1460	1.60
	0.6	4171	794	1542	1.70
	0.8	4054	842	1625	1.80

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3203	555	562	0.64
	0.4	-	-	-	-
	0.6	-	-	-	-
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3490	588	715	0.79
	0.4	3331	645	764	0.87
	0.6	3211	704	835	0.95
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3656	606	789	0.88
	0.4	3519	664	856	0.96
	0.6	3388	721	926	1.04
	0.8	3200	773	989	1.12

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4152	693	1191	1.33
	0.4	4056	746	1255	1.44
	0.6	3940	793	1326	1.53
	0.8	3821	846	1397	1.63

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4430	697	1385	1.49
	0.4	4314	746	1460	1.60
	0.6	4171	794	1542	1.70
	0.8	4054	842	1625	1.80

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2308	469	290	0.30
	0.4	1969	586	314	0.38
	0.6	-	-	-	-
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2962	549	541	0.57
	0.4	2819	612	588	0.64
	0.6	2673	671	653	0.70
	0.8	2301	772	744	0.80

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	3897	669	1092	1.20
	0.4	3800	718	1165	1.28
	0.6	3694	765	1241	1.37
	0.8	3588	814	1321	1.45

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4102	684	1213	1.32
	0.4	4015	735	1273	1.41
	0.6	3911	778	1380	1.50
	0.8	3804	826	1484	1.59

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4287	716	1435	1.54
	0.4	4193	760	1509	1.63
	0.6	4097	808	1607	1.73
	0.8	3995	849	1660	1.82

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3154	572	583	0.66
	0.4	-	-	-	-
	0.6	-	-	-	-
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	3405	604	734	0.81
	0.4	3281	660	795	0.89
	0.6	3150	720	872	0.97
	0.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	3535	621	831	0.90
	0.4	3417	676	873	0.98
	0.6	3299	730	946	1.06
	0.8	3161	791	1017	1.14

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4102	684	1213	1.32
	0.4	4015	735	1273	1.41
	0.6	3911	778	1380	1.50
	0.8	3804	826	1484	1.59

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4287	716	1435	1.54
	0.4	4193	760	1509	1.63
	0.6	4097	808	1607	1.73
	0.8	3995	849	1660	1.82

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

10 TON HP

Heat Pump Medium Static Downshot
Models: DSH1203L, DSH1204L, DSH1207L

Heat Pump Medium Static Horizontal
Models: DSH1203L, DSH1204L, DSH1207L

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2452	481	390	0.35
	0.4	2285	561	444	0.40
	0.6	-	-	-	-
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2457	493	317	0.35
	0.4	2301	571	364	0.41
	0.6	-	-	-	-
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2620	496	405	0.39
	0.4	2455	571	464	0.45
	0.6	2061	685	543	0.54
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2577	597	353	0.47
	0.4	2435	650	399	0.51
	0.6	2053	735	474	0.58
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4315	689	1232	1.41
	0.4	4156	736	1302	1.51
	0.6	4047	787	1378	1.61
	0.8	3941	838	1463	1.72
	1.0	3828	881	1539	1.81
	1.2	3710	929	1623	1.91
	1.4	3369	1029	1784	2.11

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4277	696	1326	1.43
	0.4	4174	739	1388	1.51
	0.6	4076	785	1492	1.61
	0.8	3970	831	1578	1.71
	1.0	3822	888	1692	1.82
	1.2	3702	938	1779	1.92
	1.4	3427	1019	1953	2.09

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4501	714	1542	1.61
	0.4	4393	759	1635	1.71
	0.6	4279	809	1726	1.82
	0.8	4142	857	1814	1.93
	1.0	4037	900	1897	2.03
	1.2	3930	945	1985	2.13
	1.4	3786	995	2077	2.24

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4477	719	1559	1.62
	0.4	4373	763	1648	1.72
	0.6	4276	808	1743	1.82
	0.8	4180	853	1868	1.92
	1.0	4049	901	1955	2.03
	1.2	3933	950	2057	2.14
	1.4	3791	1001	2145	2.25

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4687	732	1694	1.78
	0.4	4584	777	1786	1.89
	0.6	4466	825	1873	2.00
	0.8	4361	872	1985	2.12
	1.0	4246	916	2088	2.22
	1.2	4120	957	2165	2.32
	1.4	3996	1000	2239	2.43

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4669	749	1813	1.82
	0.4	4559	794	1894	1.93
	0.6	4466	836	1989	2.03
	0.8	4372	876	2067	2.13
	1.0	4226	924	2192	2.24
	1.2	4126	970	2283	2.35
	1.4	4002	1010	2365	2.45

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3842	643	964	1.08
	0.4	3712	697	1035	1.17
	0.6	3600	751	1122	1.26
	0.8	3477	800	1177	1.34
	1.0	3353	855	1271	1.44
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	3831	654	1070	1.10
	0.4	3730	703	1124	1.18
	0.6	3626	751	1196	1.26
	0.8	3503	803	1260	1.35
	1.0	3377	859	1367	1.44
	1.2	-	-	-	-
	1.4	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4125	675	1158	1.30
	0.4	4012	725	1222	1.40
	0.6	3896	776	1301	1.49
	0.8	3789	826	1382	1.59
	1.0	3679	873	1447	1.68
	1.2	3519	928	1522	1.79
	1.4	3146	1027	1667	1.98

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4102	684	1283	1.32
	0.4	4015	735	1366	1.41
	0.6	3911	778	1431	1.50
	0.8	3804	826	1514	1.59
	1.0	3700	875	1627	1.68
	1.2	3540	933	1704	1.80
	1.4	3162	1028	1861	1.98

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4315	689	1232	1.41
	0.4	4156	736	1302	1.51
	0.6	4047	787	1378	1.61
	0.8	3941	838	1463	1.72
	1.0	3828	881	1539	1.81
	1.2	3710	929	1623	1.91
	1.4	3369	1029	1784	2.11

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4277	696	1326	1.43
	0.4	4174	739	1388	1.51
	0.6	4076	785	1492	1.61
	0.8	3970	831	1578	1.71
	1.0	3822	888	1692	1.82
	1.2	3702	938	1779	1.92
	1.4	3427	1019	1953	2.09

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4501	714	1542	1.61
	0.4	4393	759	1635	1.71
	0.6	4279	809	1726	1.82
	0.8	4142	857	1814	1.93
	1.0	4037	900	1897	2.03
	1.2	3930	945	1985	2.13
	1.4	3786	995	2077	2.24

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4477	719	1559	1.62
	0.4	4373	763	1648	1.72
	0.6	4276	808	1743	1.82
	0.8	4180	853	1868	1.92
	1.0	4049	901	1955	2.03
	1.2	3933	950	2057	2.14
	1.4	3791	1001	2145	2.25

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4687	732	1694	1.78
	0.4	4584	777	1786	1.89
	0.6	4466	825	1873	2.00
	0.8	4361	872	1985	2.12
	1.0	4246	916	2088	2.22
	1.2	4120	957	2165	2.32
	1.4	3996	1000	2239	2.43

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4669	749	1813	1.82
	0.4	4559	794	1894	1.93
	0.6	4466	836	1989	2.03
	0.8	4372	876	2067	2.13
	1.0	4226	924	2192	2.24
	1.2	4126	970	2283	2.35
	1.4	4002	1010	2365	2.45

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

10 TON HP

Heat Pump High Static Downshot
Models: DSH1203W, DSH1204W, DSH1207W

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2682	504	437	0.45
	0.4	2553	577	517	0.51
	0.6	2181	691	612	0.61
	0.8	-	-	-	-
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2778	514	454	0.47
	0.4	2633	583	520	0.53
	0.6	2246	698	625	0.64
	0.8	2046	751	677	0.68
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4859	751	1846	1.68
	0.4	4693	797	1955	1.78
	0.6	4579	840	2125	1.88
	0.8	4480	883	2161	1.97
	1.0	4374	920	2258	2.05
	1.2	4234	962	2351	2.15
	1.4	4107	1004	2477	2.24
	1.6	3846	1086	2659	2.43
	1.8	3558	1151	2820	2.57

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4992	772	2059	1.85
	0.4	4885	818	2181	1.96
	0.6	4765	857	2268	2.05
	0.8	4663	900	2376	2.16
	1.0	4556	937	2452	2.25
	1.2	4463	977	2589	2.34
	1.4	4340	1016	2680	2.44
	1.6	4146	1076	2851	2.58
	1.8	3833	1159	3068	2.78

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5194	843	2355	1.64
	0.4	5093	876	2466	1.72
	0.6	4988	710	2568	1.81
	0.8	4867	749	2666	1.91
	1.0	4769	781	2768	1.99
	1.2	4659	816	2853	2.08
	1.4	4543	854	2942	2.18
	1.6	4477	875	3038	2.23
	1.8	4050	997	3161	2.54

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4525	714	1555	1.41
	0.4	4413	760	1662	1.50
	0.6	4282	807	1741	1.60
	0.8	4143	853	1838	1.69
	1.0	4039	894	1931	1.77
	1.2	3913	936	2010	1.85
	1.4	3688	1013	2156	2.00
	1.6	3352	1089	2292	2.15
	1.8	3210	1126	2382	2.23

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4654	732	1707	1.53
	0.4	4529	777	1783	1.62
	0.6	4414	823	1886	1.72
	0.8	4299	864	1959	1.81
	1.0	4170	907	2058	1.89
	1.2	4063	949	2158	1.98
	1.4	3869	1012	2268	2.12
	1.6	3543	1093	2435	2.28
	1.8	3369	1139	2560	2.38

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4809	751	1846	1.68
	0.4	4693	797	1955	1.78
	0.6	4579	840	2125	1.88
	0.8	4480	883	2161	1.97
	1.0	4374	920	2258	2.05
	1.2	4234	962	2351	2.15
	1.4	4107	1004	2477	2.24
	1.6	3846	1086	2659	2.43
	1.8	3558	1151	2820	2.57

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4992	772	2059	1.85
	0.4	4885	818	2181	1.96
	0.6	4765	857	2268	2.05
	0.8	4663	900	2376	2.16
	1.0	4556	937	2452	2.25
	1.2	4463	977	2589	2.34
	1.4	4340	1016	2680	2.44
	1.6	4146	1076	2851	2.58
	1.8	3833	1159	3068	2.78

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5194	843	2355	1.64
	0.4	5093	876	2466	1.72
	0.6	4988	710	2568	1.81
	0.8	4867	749	2666	1.91
	1.0	4769	781	2768	1.99
	1.2	4659	816	2853	2.08
	1.4	4543	854	2942	2.18
	1.6	4477	875	3038	2.23
	1.8	4050	997	3161	2.54

Heat Pump High Static Horizontal
Models: DSH1203W, DSH1204W, DSH1207W

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2701	550	443	0.49
	0.4	2631	588	463	0.52
	0.6	2304	701	558	0.62
	0.8	2163	750	613	0.66
	1.0	-	-	-	-
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2827	532	479	0.48
	0.4	2693	594	538	0.54
	0.6	2355	705	640	0.64
	0.8	2193	759	692	0.69
	1.0	2068	806	724	0.73
	1.2	-	-	-	-
	1.4	-	-	-	-
	1.6	-	-	-	-
	1.8	-	-	-	-

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4683	789	1864	1.76
	0.4	4593	814	1966	1.82
	0.6	4497	855	2062	1.91
	0.8	4388	894	2143	2.00
	1.0	4297	932	2238	2.08
	1.2	4167	972	2331	2.17
	1.4	4085	1004	2410	2.24
	1.6	3836	1089	2589	2.43
	1.8	3553	1153	2719	2.58

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4878	798	2067	1.91
	0.4	4779	837	2170	2.01
	0.6	4692	874	2259	2.10
	0.8	4580	912	2358	2.19
	1.0	4491	951	2447	2.28
	1.2	4379	988	2515	2.37
	1.4	4280	1020	2633	2.44
	1.6	4170	1057	2706	2.53
	1.8	3800	1163	2949	2.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5040	876	2340	1.72
	0.4	4950	706	2368	1.80
	0.6	4855	738	2524	1.88
	0.8	4746	774	2611	1.97
	1.0	4657	803	2694	2.05
	1.2	4559	836	2788	2.13
	1.4	4454	871	2848	2.22
	1.6	4394	891	2936	2.27
	1.8	4055	1004	3051	2.56

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4277	729	1564	1.44
	0.4	4146	775	1650	1.53
	0.6	4035	822	1733	1.62
	0.8	3923	865	1830	1.71
	1.0	3810	913	1934	1.80
	1.2	3657	965	2024	1.91
	1.4	3353	1048	2148	2.07
	1.6	3157	1098	2250	2.17
	1.8	3024	1130	2322	2.23

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4391	746	1695	1.56
	0.4	4255	791	1786	1.65
	0.6	4158	836	1883	1.75
	0.8	4045	879	1967	1.84
	1.0	3927	923	2060	1.93
	1.2	3797	976	2174	2.04
	1.4	3597	1035	2340	2.16
	1.6	3287	1110	2465	2.32
	1.8	3155	1146	2545	2.40

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4683	789	1864	1.76
	0.4	4593	814	1966	1.82
	0.6	4497	855	2062	1.91
	0.8	4388	894	2143	2.00
	1.0	4297	932	2238	2.08
	1.2	4167	972	2331	2.17
	1.4	4085	1004	2410	2.24
	1.6	3836	1089	2589	2.43
	1.8	3553	1153	2719	2.58

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4878	798	2067	1.91
	0.4	4779	837	2170	2.01
	0.6	4692	874	2259	2.10
	0.8	4580	912	2358	2.19
	1.0	4491	951	2447	2.28
	1.2	4379	988	2515	2.37
	1.4	4280	1020	2633	2.44
	1.6	4170	1057	2706	2.53
	1.8	3800	1163	2949	2.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5040	876	2340	1.72
	0.4	4950	706	2368	1.80
	0.6	4855	738	2524	1.88
	0.8	4746	774	2611	1.97
	1.0	4657	803	2694	2.05
	1.2	4559	836	2788	2.13
	1.4	4454	871	2848	2.22
	1.6	4394	891	2936	2.27
	1.8	4055	1004	3051	2.56

- Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
- For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON HP

Heat Pump Standard Static Downshot
Models: DSH1503D, DSH1504D, DSH1507D

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2835	530	535	0.56
	0.4	2690	595	595	0.63
	0.6	2525	675	665	0.72
	0.8	2220	745	720	0.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2885	535	560	0.59
	0.4	2740	600	620	0.66
	0.6	2580	680	685	0.74
	0.8	2285	750	745	0.82

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4405	725	1535	1.62
	0.4	4295	770	1625	1.72
	0.6	4190	810	1705	1.81
	0.8	4095	860	1790	1.92

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4605	750	1725	1.81
	0.4	4495	795	1820	1.92
	0.6	4400	835	1905	2.02
	0.8	4300	875	1990	2.11

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4970	800	2135	2.23
	0.4	4860	840	2240	2.34
	0.6	4770	885	2340	2.46
	0.8	4655	915	2425	2.55

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4400	725	1525	1.61
	0.4	4290	770	1615	1.71
	0.6	4185	810	1700	1.80
	0.8	4085	860	1780	1.91

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4520	740	1635	1.73
	0.4	4405	780	1730	1.82
	0.6	4305	825	1815	1.92
	0.8	4210	870	1895	2.03

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4605	750	1725	1.81
	0.4	4495	795	1820	1.92
	0.6	4400	835	1905	2.02
	0.8	4300	875	1990	2.11

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4705	765	1830	1.92
	0.4	4595	805	1925	2.02
	0.6	4500	845	2015	2.12
	0.8	4400	890	2100	2.23

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4970	800	2135	2.23
	0.4	4860	840	2240	2.34
	0.6	4770	885	2340	2.46
	0.8	4655	915	2425	2.55

Heat Pump Standard Static Horizontal
Models: DSH1503D, DSH1504D, DSH1507D

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2800	525	535	0.56
	0.4	2635	590	590	0.63
	0.6	2385	675	660	0.72
	0.8	2165	740	725	0.79

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	2850	530	560	0.58
	0.4	2690	595	615	0.65
	0.6	2450	675	685	0.74
	0.8	2235	745	750	0.82

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4400	720	1530	1.61
	0.4	4305	765	1610	1.71
	0.6	4235	805	1690	1.80
	0.8	4135	850	1775	1.90

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	4605	745	1720	1.80
	0.4	4505	790	1805	1.91
	0.6	4430	830	1885	2.01
	0.8	4340	870	1975	2.10

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	4975	795	2130	2.21
	0.4	4870	835	2220	2.33
	0.6	4740	880	2310	2.45
	0.8	4660	915	2405	2.55

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4395	720	1520	1.60
	0.4	4295	765	1605	1.70
	0.6	4230	805	1680	1.79
	0.8	4130	850	1770	1.89

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4515	735	1630	1.71
	0.4	4415	780	1715	1.82
	0.6	4345	820	1795	1.91
	0.8	4250	860	1885	2.01

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4605	745	1720	1.80
	0.4	4505	790	1805	1.91
	0.6	4430	830	1885	2.01
	0.8	4340	870	1975	2.10

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	4705	760	1820	1.91
	0.4	4605	800	1910	2.01
	0.6	4520	840	1990	2.11
	0.8	4435	880	2085	2.21

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	4975	795	2130	2.21
	0.4	4870	835	2220	2.33
	0.6	4740	880	2310	2.45
	0.8	4660	915	2405	2.55

- Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
- For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON HP

Heat Pump Medium Static Downshot
Models: DSH1503L, DSH1504L, DSH1507L

Heat Pump Medium Static Horizontal
Models: DSH1503L, DSH1504L, DSH1507L

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2930	560	565	0.61
	0.4	2795	620	635	0.67
	0.6	2615	680	685	0.74
	0.8	2380	770	790	0.83
	1.0	2140	830	855	0.90
	1.2	1895	890	935	0.96
	1.4	1725	940	995	1.02

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	2965	560	580	0.61
	0.4	2815	625	650	0.68
	0.6	2675	675	710	0.73
	0.8	2405	775	825	0.84
	1.0	2135	830	880	0.90
	1.2	1970	895	955	0.97
	1.4	1790	940	1010	1.02

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	3105	580	675	0.68
	0.4	2970	640	740	0.75
	0.6	2795	695	800	0.82
	0.8	2570	780	900	0.92
	1.0	2345	840	970	0.99
	1.2	2110	900	1050	1.06
	1.4	1940	945	1115	1.11

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	3135	580	685	0.68
	0.4	2995	640	755	0.75
	0.6	2855	695	820	0.82
	0.8	2600	785	930	0.92
	1.0	2350	840	985	0.99
	1.2	2185	905	1070	1.07
	1.4	2005	950	1125	1.12

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4810	775	1950	1.77
	0.4	4675	815	2040	1.86
	0.6	4545	860	2130	1.96
	0.8	4425	895	2230	2.04
	1.0	4310	940	2325	2.15
	1.2	4160	985	2435	2.25
	1.4	4000	1025	2515	2.34

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	4800	790	1965	1.81
	0.4	4705	825	2045	1.88
	0.6	4595	870	2135	1.99
	0.8	4480	905	2210	2.07
	1.0	4370	945	2300	2.16
	1.2	4225	990	2410	2.26
	1.4	4070	1045	2525	2.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	5545	860	2785	2.56
	0.4	5425	900	2885	2.68
	0.6	5310	935	2990	2.78
	0.8	5210	960	3095	2.86
	1.0	5120	1000	3205	2.98
	1.2	5005	1040	3320	3.09
	1.4	4870	1075	3420	3.20

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	5515	885	2810	2.63
	0.4	5440	910	2905	2.71
	0.6	5350	950	3000	2.83
	0.8	5265	975	3080	2.90
	1.0	5190	1005	3185	2.99
	1.2	5065	1045	3300	3.11
	1.4	4940	1090	3425	3.24

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5655	875	2945	2.72
	0.4	5540	910	3050	2.83
	0.6	5425	945	3155	2.94
	0.8	5330	975	3260	3.03
	1.0	5240	1010	3375	3.14
	1.2	5130	1050	3490	3.26
	1.4	5000	1085	3595	3.37

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5625	900	2970	2.80
	0.4	5550	925	3070	2.87
	0.6	5465	965	3170	3.00
	0.8	5380	985	3255	3.06
	1.0	5310	1020	3360	3.17
	1.2	5190	1055	3470	3.28
	1.4	5065	1100	3595	3.42

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4545	740	1710	1.54
	0.4	4410	790	1795	1.65
	0.6	4275	830	1885	1.73
	0.8	4140	875	1980	1.82
	1.0	4010	920	2075	1.92
	1.2	3850	970	2175	2.02
	1.4	3685	1010	2255	2.10

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4540	760	1720	1.58
	0.4	4440	795	1800	1.66
	0.6	4325	840	1885	1.75
	0.8	4195	885	1965	1.84
	1.0	4065	925	2050	1.93
	1.2	3915	975	2155	2.03
	1.4	3755	1030	2270	2.15

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4675	755	1825	1.64
	0.4	4540	800	1910	1.74
	0.6	4405	845	2000	1.84
	0.8	4280	885	2100	1.93
	1.0	4155	930	2190	2.03
	1.2	4000	980	2300	2.13
	1.4	3835	1015	2375	2.21

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4665	775	1835	1.69
	0.4	4570	810	1915	1.76
	0.6	4455	855	2000	1.86
	0.8	4335	895	2080	1.95
	1.0	4215	935	2170	2.04
	1.2	4060	985	2275	2.15
	1.4	3905	1035	2390	2.25

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4810	775	1950	1.77
	0.4	4675	815	2040	1.86
	0.6	4545	860	2130	1.96
	0.8	4425	895	2230	2.04
	1.0	4310	940	2325	2.15
	1.2	4160	985	2435	2.25
	1.4	4000	1025	2515	2.34

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4800	790	1965	1.81
	0.4	4705	825	2045	1.88
	0.6	4595	870	2135	1.99
	0.8	4480	905	2210	2.07
	1.0	4370	945	2300	2.16
	1.2	4225	990	2410	2.26
	1.4	4070	1045	2525	2.39

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5545	860	2785	2.56
	0.4	5425	900	2885	2.68
	0.6	5310	935	2990	2.78
	0.8	5210	960	3095	2.86
	1.0	5120	1000	3205	2.98
	1.2	5005	1040	3320	3.09
	1.4	4870	1075	3420	3.20

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5515	885	2810	2.63
	0.4	5440	910	2905	2.71
	0.6	5350	950	3000	2.83
	0.8	5265	975	3080	2.90
	1.0	5190	1005	3185	2.99
	1.2	5065	1045	3300	3.11
	1.4	4940	1090	3425	3.24

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5655	875	2945	2.72
	0.4	5540	910	3050	2.83
	0.6	5425	945	3155	2.94
	0.8	5330	975	3260	3.03
	1.0	5240	1010	3375	3.14
	1.2	5130	1050	3490	3.26
	1.4	5000	1085	3595	3.37

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5625	900	2970	2.80
	0.4	5550	925	3070	2.87
	0.6	5465	965	3170	3.00
	0.8	5380	985	3255	3.06
	1.0	5310	1020	3360	3.17
	1.2	5190	1055	3470	3.28
	1.4	5065	1100	3595	3.42

-Heating taps use the DH call and are noted by the prime (EX: T1'H) notation.
-For heating taps, ensure E-Heat Minimum Airflows are met (See APPENDIX D MIN-MAX AIRFLOW)

APPENDIX A BLOWER PERFORMANCE DATA

12.5 TON HP

Heat Pump High Static Downshot
Models: DSH1503W, DSH1504W, DSH1507W

Heat Pump High Static Horizontal
Models: DSH1503W, DSH1504W, DSH1507W

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	3105	580	675	0.68
	0.4	2970	640	740	0.75
	0.6	2795	695	800	0.82
	0.8	2570	750	900	0.92
	1.0	2345	840	970	0.99
	1.2	2110	900	1050	1.06
	1.4	1940	945	1115	1.11
	1.6	1780	990	1175	1.17
	1.8	1595	1040	1225	1.23

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	3320	605	805	0.78
	0.4	3185	660	875	0.86
	0.6	3015	715	940	0.93
	0.8	2805	795	1040	1.03
	1.0	2595	850	1115	1.10
	1.2	2370	910	1195	1.18
	1.4	2200	955	1260	1.24
	1.6	2040	1000	1330	1.30
	1.8	1860	1045	1385	1.36

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	5065	800	2205	2.00
	0.4	4935	845	2295	2.11
	0.6	4810	885	2395	2.21
	0.8	4700	915	2495	2.29
	1.0	4595	960	2595	2.40
	1.2	4455	1005	2705	2.51
	1.4	4305	1040	2795	2.60
	1.6	4150	1085	2915	2.71
	1.8	4010	1130	3010	2.82

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	5775	890	3135	2.90
	0.4	5660	925	3245	3.02
	0.6	5550	960	3350	3.13
	0.8	5455	985	3460	3.21
	1.0	5365	1025	3575	3.34
	1.2	5260	1065	3690	3.47
	1.4	5135	1095	3800	3.57
	1.6	5000	1135	3925	3.70
	1.8	4880	1175	4030	3.83

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5875	900	3315	3.06
	0.4	5765	935	3425	3.18
	0.6	5655	975	3530	3.32
	0.8	5555	1000	3645	3.40
	1.0	5470	1035	3760	3.52
	1.2	5365	1075	3880	3.66
	1.4	5245	1105	3995	3.76
	1.6	5120	1145	4115	3.90
	1.8	5000	1180	4220	4.02

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4610	750	1765	1.60
	0.4	4475	795	1850	1.69
	0.6	4340	840	1945	1.79
	0.8	4210	880	2040	1.87
	1.0	4080	925	2135	1.97
	1.2	3925	975	2240	2.08
	1.4	3760	1010	2315	2.15
	1.6	3600	1060	2430	2.26
	1.8	3450	1105	2515	2.35

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4735	765	1880	1.70
	0.4	4600	810	1965	1.80
	0.6	4470	850	2060	1.89
	0.8	4345	890	2155	1.98
	1.0	4225	935	2250	2.08
	1.2	4070	985	2360	2.19
	1.4	3910	1020	2440	2.27
	1.6	3750	1065	2555	2.37
	1.8	3605	1110	2640	2.47

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4855	780	1990	1.81
	0.4	4720	820	2080	1.90
	0.6	4595	860	2175	2.00
	0.8	4475	900	2275	2.09
	1.0	4360	940	2370	2.18
	1.2	4210	990	2480	2.30
	1.4	4055	1025	2560	2.38
	1.6	3895	1070	2680	2.48
	1.8	3750	1115	2770	2.59

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5775	890	3135	2.90
	0.4	5660	925	3245	3.02
	0.6	5550	960	3350	3.13
	0.8	5455	985	3460	3.21
	1.0	5365	1025	3575	3.34
	1.2	5260	1065	3690	3.47
	1.4	5135	1095	3800	3.57
	1.6	5000	1135	3925	3.70
	1.8	4880	1175	4030	3.83

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5875	900	3315	3.06
	0.4	5765	935	3425	3.18
	0.6	5655	975	3530	3.32
	0.8	5555	1000	3645	3.40
	1.0	5470	1035	3760	3.52
	1.2	5365	1075	3880	3.66
	1.4	5245	1105	3995	3.76
	1.6	5120	1145	4115	3.90
	1.8	5000	1180	4220	4.02

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1C Part Load Rated Cooling	0.2	3135	580	685	0.68
	0.4	2995	640	755	0.75
	0.6	2855	695	820	0.82
	0.8	2690	785	930	0.92
	1.0	2350	840	985	0.99
	1.2	2185	905	1070	1.07
	1.4	2005	950	1125	1.12
	1.6	1880	990	1170	1.17
	1.8	1700	1030	1210	1.21

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2C Part Load Rated Cooling	0.2	3345	610	820	0.79
	0.4	3210	665	885	0.86
	0.6	3070	715	955	0.93
	0.8	2840	800	1060	1.04
	1.0	2610	850	1125	1.10
	1.2	2445	915	1205	1.19
	1.4	2265	960	1275	1.25
	1.6	2135	1005	1325	1.30
	1.8	1955	1045	1385	1.36

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3C/H Full Load Rated Cooling/Heatpump	0.2	5045	825	2220	2.06
	0.4	4960	850	2305	2.12
	0.6	4860	895	2400	2.24
	0.8	4755	925	2475	2.31
	1.0	4660	965	2570	2.41
	1.2	4520	1010	2680	2.52
	1.4	4375	1060	2805	2.65
	1.6	4205	1120	2900	2.80
	1.8	4055	1150	3055	2.87

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4C/H Full Load Rated Cooling/Heatpump	0.2	5745	915	3170	2.98
	0.4	5665	940	3270	3.07
	0.6	5590	975	3370	3.18
	0.8	5500	1000	3455	3.26
	1.0	5430	1035	3565	3.37
	1.2	5320	1070	3680	3.49
	1.4	5205	1110	3800	3.62
	1.6	5065	1165	3905	3.80
	1.8	4935	1190	4055	3.88

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5C/H Full Load Rated Cooling/Heatpump	0.2	5840	925	3350	3.15
	0.4	5765	950	3460	3.23
	0.6	5690	990	3555	3.37
	0.8	5600	1015	3650	3.45
	1.0	5530	1045	3755	3.56
	1.2	5425	1080	3870	3.68
	1.4	5315	1120	3990	3.81
	1.6	5185	1170	4095	3.98
	1.8	5060	1195	4235	4.07

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T1'H Full Load Rated Heating	0.2	4605	765	1780	1.63
	0.4	4505	800	1855	1.70
	0.6	4390	850	1945	1.81
	0.8	4265	890	2025	1.90
	1.0	4140	930	2110	1.98
	1.2	3990	980	2215	2.09
	1.4	3830	1030	2330	2.19
	1.6	3665	1095	2415	2.33
	1.8	3500	1125	2555	2.40

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T2'H Full Load Rated Heating	0.2	4725	780	1890	1.74
	0.4	4630	815	1970	1.81
	0.6	4520	860	2060	1.91
	0.8	4400	900	2140	2.00
	1.0	4285	940	2230	2.09
	1.2	4135	985	2335	2.19
	1.4	3980	1040	2450	2.31
	1.6	3810	1100	2540	2.45
	1.8	3655	1130	2685	2.51

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T3'H Full Load Rated Heating	0.2	4840	795	2005	1.84
	0.4	4750	830	2085	1.93
	0.6	4640	875	2175	2.03
	0.8	4530	905	2255	2.10
	1.0	4420	945	2345	2.19
	1.2	4275	995	2455	2.31
	1.4	4125	1045	2575	2.42
	1.6	3955	1110	2665	2.58
	1.8	3795	1140	2810	2.65

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T4'H Full Load Rated Heating	0.2	5745	915	3170	2.98
	0.4	5665	940	3270	3.07
	0.6	5590	975	3370	3.18
	0.8	5500	1000	3455	3.26
	1.0	5430	1035	3565	3.37
	1.2	5320	1070	3680	3.49
	1.4	5205	1110	3800	3.62
	1.6	5065	1165	3905	3.80
	1.8	4935	1190	4055	3.88

Tap Speed	ESP	SCFM	R.P.M	WATTS	BHP
T5'H Full Load Rated Heating	0.2	5840	925	3350	3.15
	0.4	5765	950	3460	3.23
	0.6	5690	990	3555	3.37
	0.8	5600	1015	3650	3.45
	1.0	5530	1045	3755	3.56
	1.2	5425	1080	3870	3.68</

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC0903D	208/230/3/60	2	12.2	120.4	2	0.33	2.0	1	2.4	8.0	-	-	-	-	-	39.4/39.4	50/50
											-	-	-	9.6/8.7	-	49.0/48.1	60/60
											-	-	-	-	3.3/3.0 (2.4)	42.7/42.4	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	52.3/51.1	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175
DSC0903L	208/230/3/60	2	12.2	120.4	2	0.33	2.0	1	2.4	8.0	-	-	-	-	-	39.4/39.4	50/50
											-	-	-	9.6/8.7	-	49.0/48.1	60/60
											-	-	-	-	3.3/3.0 (2.4)	42.7/42.4	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	52.3/51.1	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175
DSC0903W	208/230/3/60	2	12.2	120.4	2	0.33	2.0	1	2.4	8.0	-	-	-	-	-	39.4/39.4	50/50
											-	-	-	9.6/8.7	-	49.0/48.1	60/60
											-	-	-	-	3.3/3.0 (2.4)	42.7/42.4	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	52.3/51.1	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175
DSC0904D	460/3/60	2	5.8	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	20.1	25
											-	-	-	4.3	-	24.4	30
											-	-	-	-	1.2 (1.0)	21.3	25
											-	-	-	4.3	1.2 (1.0)	25.6	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
											EH*D-4M30	28.8	34.6	-	-	50.1	60
														4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC0904L	460/3/60	2	5.8	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	20.1	25
											-	-	-	4.3	-	24.4	30
											-	-	-	-	1.2 (1.0)	21.3	25
											-	-	-	4.3	1.2 (1.0)	25.6	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
											EH*D-4M30	28.8	34.6	-	-	50.1	60
														4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
DSC0904W	460/3/60	2	5.8	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	20.1	25
											-	-	-	4.3	-	24.4	30
											-	-	-	-	1.2 (1.0)	21.3	25
											-	-	-	4.3	1.2 (1.0)	25.6	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
											EH*D-4M30	28.8	34.6	-	-	50.1	60
														4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
DSC0907D	575/3/60	2	5.8	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	18.3	20
											-	-	-	3.5	-	21.8	25
											-	-	-	-	1.3	19.6	25
											-	-	-	3.5	1.3	23.1	25
											EH*D-7M15	15	14.4	-	-	23.0	25
														3.5	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
											EH*D-7M30	28.8	27.7	-	-	39.6	40
														3.5	-	44.0	45
														-	1.3	41.3	45
														3.5	1.3	45.6	50
											EH*D-7M45	45	43.3	-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70
DSC0907L	575/3/60	2	5.8	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	18.3	20
											-	-	-	3.5	-	21.8	25
											-	-	-	-	1.3	19.6	25
											-	-	-	3.5	1.3	23.1	25
											EH*D-7M15	15	14.4	-	-	23.0	25
														3.5	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
											EH*D-7M30	28.8	27.7	-	-	39.6	40
														3.5	-	44.0	45
														-	1.3	41.3	45
														3.5	1.3	45.6	50
											EH*D-7M45	45	43.3	-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC0907W	575/3/60	2	5.8	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	18.3	20
											-	-	-	3.5	-	21.8	25
											-	-	-	-	1.3	19.6	25
											-	-	-	3.5	1.3	23.1	25
											EH*D-7M15	15	14.4	-	-	23.0	25
														3.5	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
											EH*D-7M30	28.8	27.7	-	-	39.6	40
														3.5	-	44.0	45
														-	1.3	41.3	45
														3.5	1.3	45.6	50
											EH*D-7M45	45	43.3	-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70
DSC1023D	208/230/3/60	2	14.1	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	43.7/43.7	50/50
											-	-	-	9.6/8.7	-	53.3/52.4	60/60
											-	-	-	-	3.3/3.0 (2.4)	47.0/46.7	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	56.6/55.4	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175
DSC1023L	208/230/3/60	2	14.1	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	43.7/43.7	50/50
											-	-	-	9.6/8.7	-	53.3/52.4	60/60
											-	-	-	-	3.3/3.0 (2.4)	47.0/46.7	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	56.6/55.4	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175
DSC1023W	208/230/3/60	2	14.1	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	43.7/43.7	50/50
											-	-	-	9.6/8.7	-	53.3/52.4	60/60
											-	-	-	-	3.3/3.0 (2.4)	47.0/46.7	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	56.6/55.4	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	49.1/55.1	50/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	53.2/58.9	60/60
														9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
														-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/160	150/175

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1024D	460/3/60	2	6.4	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	21.5	25
											-	-	-	4.3	-	25.8	30
											-	-	-	-	1.2 (1.0)	22.7	25
											-	-	-	4.3	1.2 (1.0)	27.0	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
														-	-	50.1	60
											EH*D-4M30	28.8	34.6	4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
														-	-	21.5	25
DSC1024L	460/3/60	2	6.4	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	25.8	30
											-	-	-	-	1.2 (1.0)	22.7	25
											-	-	-	4.3	1.2 (1.0)	27.0	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
														-	-	50.1	60
											EH*D-4M30	28.8	34.6	4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
														-	-	21.5	25
DSC1024W	460/3/60	2	6.4	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	25.8	30
											-	-	-	-	1.2 (1.0)	22.7	25
											-	-	-	4.3	1.2 (1.0)	27.0	30
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
														-	-	50.1	60
											EH*D-4M30	28.8	34.6	4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
														-	-	16.9	20
DSC1027D	575/3/60	2	5.1	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	3.5	-	20.4	25
											-	-	-	-	1.3	18.2	20
											-	-	-	3.5	1.3	21.7	25
											-	-	-	-	-	23.0	25
											EH*D-7M15	15	14.4	-	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
														-	-	39.6	40
											EH*D-7M30	28.8	27.7	3.5	-	44.0	45
														-	1.3	41.3	45
														3.5	1.3	45.6	50
											EH*D-7M45	45	43.3	-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1027L	575/3/60	2	5.1	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	16.9	20
											-	-	-	3.5	-	20.4	25
											-	-	-	-	1.3	18.2	20
											-	-	-	3.5	1.3	21.7	25
											-	-	-	-	-	23.0	25
											EH*D-7M15	15	14.4	3.5	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
											EH*D-7M30	28.8	27.7	-	-	39.6	40
														3.5	-	44.0	45
														-	1.3	41.3	45
											EH*D-7M45	45	43.3	3.5	1.3	45.6	50
														-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70
DSC1027W	575/3/60	2	5.1	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	16.9	20
											-	-	-	3.5	-	20.4	25
											-	-	-	-	1.3	18.2	20
											-	-	-	3.5	1.3	21.7	25
											EH*D-7M15	15	14.4	-	-	23.0	25
														3.5	-	27.4	30
														-	1.3	24.7	25
											EH*D-7M30	28.8	27.7	3.5	1.3	29.0	30
														-	-	39.6	40
														3.5	-	44.0	45
											EH*D-7M45	45	43.3	-	1.3	41.3	45
														3.5	1.3	45.6	50
														-	-	59.1	60
														3.5	-	63.5	70
														-	1.3	60.8	70
DSC1203D	208/230/3/60	2	17.3	155	2	0.33	2	1	2.4	8.0	-	-	-	-	-	50.9/50.9	60/60
											-	-	-	9.6/8.7	-	60.5/59.6	70/70
											-	-	-	-	3.3/3.0 (2.4)	54.2/53.9	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	63.8/62.6	80/70
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	50.9/55.1	60/60
														9.6/8.7	-	61.1/66.0	70/70
														-	3.3/3.0 (2.4)	54.2/58.9	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	9.6/8.7	3.3/3.0 (2.4)	65.2/69.7	80/70
														-	-	85.1/96.6	90/100
														9.6/8.7	-	97.1/107	100/110
											EH*D-3M45	33.8/45.0	93.8/108	-	3.3/3.0 (2.4)	89.2/100	90/110
														9.6/8.7	3.3/3.0 (2.4)	101/111	110/125
														-	-	127/145	150/150
														9.6/8.7	-	139/156	150/175
														-	3.3/3.0 (2.4)	131/149	150/150
DSC1203L	208/230/3/60	2	17.3	155	2	0.33	2	1	3.5	10.9	-	-	-	-	-	53.8/53.8	70/70
											-	-	-	9.6/8.7	-	63.4/62.5	80/70
											-	-	-	-	3.3/3.0 (2.4)	57.1/56.8	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	66.7/65.5	80/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	53.8/58.7	70/70
														9.6/8.7	-	64.7/69.6	80/70
														-	3.3/3.0 (2.4)	57.1/62.5	70/70
											EH*D-3M30	21.6/28.8	60.0/69.3	9.6/8.7	3.3/3.0 (2.4)	68.9/73.4	80/80
														-	-	88.7/100	90/110
														9.6/8.7	-	101/111	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	3.3/3.0 (2.4)	92.8/104	100/110
														9.6/8.7	3.3/3.0 (2.4)	105/115	110/125
														-	-	131/149	150/150
														9.6/8.7	-	143/160	150/175
														-	3.3/3.0 (2.4)	135/153	150/175
														9.6/8.7	3.3/3.0 (2.4)	147/164	150/175

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1203W	208/230/3/60	2	17.3	155	2	0.33	2	1	3.5	10.9	-	-	-	-	-	53.8/53.8	70/70
											-	-	-	9.6/8.7	-	63.4/62.5	80/70
											-	-	-	-	3.3/3.0 (2.4)	57.1/56.8	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	66.7/65.5	80/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	53.8/58.7	70/70
														9.6/8.7	-	64.7/69.6	80/70
														-	3.3/3.0 (2.4)	57.1/62.5	70/70
														9.6/8.7	3.3/3.0 (2.4)	68.9/73.4	80/80
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	88.7/100	90/110
														9.6/8.7	-	101/111	110/125
														-	3.3/3.0 (2.4)	92.8/104	100/110
														9.6/8.7	3.3/3.0 (2.4)	105/115	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	131/149	150/150
														9.6/8.7	-	143/160	150/175
														-	3.3/3.0 (2.4)	135/153	150/175
														9.6/8.7	3.3/3.0 (2.4)	147/164	150/175
DSC1204D	460/3/60	2	7.7	58.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	24.4	30
											-	-	-	4.3	-	28.7	35
											-	-	-	-	1.2 (1.0)	25.6	30
											-	-	-	4.3	1.2 (1.0)	29.9	35
											EH*D-4M15	15	18	-	-	29.3	30
														4.3	-	34.7	35
														-	1.2 (1.0)	30.8	35
														4.3	1.2 (1.0)	36.2	40
											EH*D-4M30	28.8	34.6	-	-	50.1	60
														4.3	-	55.4	60
														-	1.2 (1.0)	51.6	60
														4.3	1.2 (1.0)	56.9	60
											EH*D-4M45	45	54.1	-	-	74.4	80
														4.3	-	79.8	80
														-	1.2 (1.0)	75.9	80
														4.3	1.2 (1.0)	81.3	90
DSC1204L	460/3/60	2	7.7	58.1	2	0.33	0.85	1	3.5	7.2	-	-	-	-	-	26.2	30
											-	-	-	4.3	-	30.5	35
											-	-	-	-	1.2 (1.0)	27.4	30
											-	-	-	4.3	1.2 (1.0)	31.7	35
											EH*D-4M15	15	18	-	-	31.6	35
														4.3	-	36.9	40
														-	1.2 (1.0)	33.1	35
														4.3	1.2 (1.0)	38.4	40
											EH*D-4M30	28.8	34.6	-	-	52.3	60
														4.3	-	57.7	60
														-	1.2 (1.0)	53.8	60
														4.3	1.2 (1.0)	59.2	60
											EH*D-4M45	45	54.1	-	-	76.7	80
														4.3	-	82.0	90
														-	1.2 (1.0)	78.2	80
														4.3	1.2 (1.0)	83.5	90
DSC1204W	460/3/60	2	7.7	58.1	2	0.33	0.85	1	3.5	7.2	-	-	-	-	-	26.2	30
											-	-	-	4.3	-	30.5	35
											-	-	-	-	1.2 (1.0)	27.4	30
											-	-	-	4.3	1.2 (1.0)	31.7	35
											EH*D-4M15	15	18	-	-	31.6	35
														4.3	-	36.9	40
														-	1.2 (1.0)	33.1	35
														4.3	1.2 (1.0)	38.4	40
											EH*D-4M30	28.8	34.6	-	-	52.3	60
														4.3	-	57.7	60
														-	1.2 (1.0)	53.8	60
														4.3	1.2 (1.0)	59.2	60
											EH*D-4M45	45	54.1	-	-	76.7	80
														4.3	-	82.0	90
														-	1.2 (1.0)	78.2	80
														4.3	1.2 (1.0)	83.5	90

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1207D	575/3/60	2	7	47.8	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	21.2	25
											-	-	-	3.5	-	24.7	30
											-	-	-	-	1.3	22.5	25
											-	-	-	3.5	1.3	26.0	30
											-	-	-	-	-	23.0	25
											EH*D-7M15	15	14.4	3.5	-	27.4	30
														-	1.3	24.7	25
														3.5	1.3	29.0	30
														-	-	39.6	40
											EH*D-7M30	28.8	27.7	3.5	-	44.0	45
														-	1.3	41.3	45
														3.5	1.3	45.6	50
														-	-	59.1	60
											EH*D-7M45	45	43.3	3.5	-	63.5	70
														-	1.3	60.8	70
														3.5	1.3	65.1	70
														-	-	22.2	25
DSC1207L	575/3/60	2	7	47.8	2	0.33	0.67	1	3.5	5.0	-	-	-	3.5	-	25.7	30
											-	-	-	-	1.3	23.5	30
											-	-	-	3.5	1.3	27.0	30
											-	-	-	-	-	24.3	25
											EH*D-7M15	15	14.4	3.5	-	28.7	30
														-	1.3	25.9	30
														3.5	1.3	30.3	35
														-	-	40.9	45
											EH*D-7M30	28.8	27.7	3.5	-	45.3	50
														-	1.3	42.5	45
														3.5	1.3	46.9	50
											EH*D-7M45	45	43.3	-	-	60.4	70
														3.5	-	64.8	70
														-	1.3	62.0	70
														3.5	1.3	66.4	70
DSC1207W	575/3/60	2	7	47.8	2	0.33	0.67	1	3.5	5.0	-	-	-	-	-	22.2	25
											-	-	-	3.5	-	25.7	30
											-	-	-	-	1.3	23.5	30
											-	-	-	3.5	1.3	27.0	30
											-	-	-	-	-	24.3	25
											EH*D-7M15	15	14.4	3.5	-	28.7	30
														-	1.3	25.9	30
														3.5	1.3	30.3	35
														-	-	40.9	45
											EH*D-7M30	28.8	27.7	3.5	-	45.3	50
														-	1.3	42.5	45
														3.5	1.3	46.9	50
											EH*D-7M45	45	43.3	-	-	60.4	70
														3.5	-	64.8	70
														-	1.3	62.0	70
														3.5	1.3	66.4	70
DSC1503D	208/230/3/60	2	19.2	156.5	2	0.5	2.7	1	3.5	10.9	-	-	-	-	-	59.5/59.5	70/70
											-	-	-	9.6/8.7	-	69.1/68.2	80/80
											-	-	-	-	3.3/3.0 (2.4)	62.8/62.5	80/80
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	72.4/71.2	90/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	59.5/59.5	70/70
														9.6/8.7	-	69.1/69.6	80/80
														-	3.3/3.0 (2.4)	62.8/62.5	80/80
														9.6/8.7	3.3/3.0 (2.4)	72.4/73.4	90/80
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	88.7/100	90/110
														9.6/8.7	-	101/111	110/125
														-	3.3/3.0 (2.4)	92.8/104	100/110
														9.6/8.7	3.3/3.0 (2.4)	105/115	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	131/149	150/150
														9.6/8.7	-	143/160	150/175
														-	3.3/3.0 (2.4)	135/153	150/175
														9.6/8.7	3.3/3.0 (2.4)	147/164	150/175

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1503L	208/230/3/60	2	19.2	156.5	2	0.5	2.7	1	5	14.5	-	-	-	-	-	63.1/63.1	80/80
											-	-	-	9.6/8.7	-	72.7/71.8	90/90
											-	-	-	-	3.3/3.0 (2.4)	66.4/66.1	80/80
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	76.0/74.8	90/90
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	63.1/63.2	80/80
														9.6/8.7	-	72.7/74.1	90/90
														-	3.3/3.0 (2.4)	66.4/67.0	80/80
														9.6/8.7	3.3/3.0 (2.4)	76.0/77.9	90/90
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	93.2/105	100/110
														9.6/8.7	-	105/116	110/125
														-	3.3/3.0 (2.4)	97.3/108	100/110
														9.6/8.7	3.3/3.0 (2.4)	109/119	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	135/153	150/175
														9.6/8.7	-	147/164	150/175
														-	3.3/3.0 (2.4)	140/157	150/175
														9.6/8.7	3.3/3.0 (2.4)	152/168	175/175
DSC1503W	208/230/3/60	2	19.2	156.5	2	0.5	2.7	1	5	14.5	-	-	-	-	-	63.1/63.1	80/80
											-	-	-	9.6/8.7	-	72.7/71.8	90/90
											-	-	-	-	3.3/3.0 (2.4)	66.4/66.1	80/80
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	76.0/74.8	90/90
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	63.1/63.2	80/80
														9.6/8.7	-	72.7/74.1	90/90
														-	3.3/3.0 (2.4)	66.4/67.0	80/80
														9.6/8.7	3.3/3.0 (2.4)	76.0/77.9	90/90
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	93.2/105	100/110
														9.6/8.7	-	105/116	110/125
														-	3.3/3.0 (2.4)	97.3/108	100/110
														9.6/8.7	3.3/3.0 (2.4)	109/119	110/125
											EH*D-3M45	33.8/45.0	93.8/108	-	-	135/153	150/175
														9.6/8.7	-	147/164	150/175
														-	3.3/3.0 (2.4)	140/157	150/175
														9.6/8.7	3.3/3.0 (2.4)	152/168	175/175
DSC1504D	460/3/60	2	9.0	74.8	2	0.5	1.4	1	3.5	7.2	-	-	-	-	-	30.2	35
											-	-	-	4.3	-	34.5	40
											-	-	-	-	1.2 (1.0)	31.4	40
											-	-	-	4.3	1.2 (1.0)	35.7	40
											EH*D-4M15	15	18	-	-	31.6	35
														4.3	-	36.9	40
														-	1.2 (1.0)	33.1	40
														4.3	1.2 (1.0)	38.4	40
											EH*D-4M30	28.8	34.6	-	-	52.3	60
														4.3	-	57.7	60
														-	1.2 (1.0)	53.8	60
														4.3	1.2 (1.0)	59.2	60
											EH*D-4M45	45	54.1	-	-	76.7	80
														4.3	-	82.0	90
														-	1.2 (1.0)	78.2	80
														4.3	1.2 (1.0)	83.5	90
DSC1504L	460/3/60	2	9.0	74.8	2	0.5	1.4	1	5	10.6	-	-	-	-	-	33.6	40
											-	-	-	4.3	-	37.9	45
											-	-	-	-	1.2 (1.0)	34.8	45
											-	-	-	4.3	1.2 (1.0)	39.1	45
											EH*D-4M15	15	18	-	-	35.8	40
														4.3	-	41.2	45
														-	1.2 (1.0)	37.3	45
														4.3	1.2 (1.0)	42.7	45
											EH*D-4M30	28.8	34.6	-	-	56.6	60
														4.3	-	61.9	70
														-	1.2 (1.0)	58.1	60
														4.3	1.2 (1.0)	63.4	70
											EH*D-4M45	45	54.1	-	-	80.9	90
														4.3	-	86.3	90
														-	1.2 (1.0)	82.4	90
														4.3	1.2 (1.0)	87.8	90

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSC1504W	460/3/60	2	9.0	74.8	2	0.5	1.4	1	5	10.6	-	-	-	-	-	33.6	40
											-	-	-	4.3	-	37.9	45
											-	-	-	-	1.2 (1.0)	34.8	45
											-	-	-	4.3	1.2 (1.0)	39.1	45
											EH*D-4M15	15	18	-	-	35.8	40
														4.3	-	41.2	45
														-	1.2 (1.0)	37.3	45
														4.3	1.2 (1.0)	42.7	45
											EH*D-4M30	28.8	34.6	-	-	56.6	60
														4.3	-	61.9	70
														-	1.2 (1.0)	58.1	60
														4.3	1.2 (1.0)	63.4	70
											EH*D-4M45	45	54.1	-	-	80.9	90
														4.3	-	86.3	90
														-	1.2 (1.0)	82.4	90
														4.3	1.2 (1.0)	87.8	90
DSC1507D	575/3/60	2	7.0	53.9	2	0.5	1	1	3.5	5.0	-	-	-	-	-	22.8	25
											-	-	-	3.5	-	26.3	30
											-	-	-	-	1.3	24.1	30
											-	-	-	3.5	1.3	27.6	30
											EH*D-7M15	15	14.4	-	-	24.3	25
														3.5	-	28.7	30
														-	1.3	25.9	30
														3.5	1.3	30.3	35
											EH*D-7M30	28.8	27.7	-	-	40.9	45
														3.5	-	45.3	50
														-	1.3	42.5	45
														3.5	1.3	46.9	50
											EH*D-7M45	45	43.3	-	-	60.4	70
														3.5	-	64.8	70
														-	1.3	62.0	70
														3.5	1.3	66.4	70
DSC1507L	575/3/60	2	7.0	53.9	2	0.5	1	1	5	7.2	-	-	-	-	-	25.0	30
											-	-	-	3.5	-	28.5	35
											-	-	-	-	1.3	26.3	30
											-	-	-	3.5	1.3	29.8	35
											EH*D-7M15	15	14.4	-	-	27.0	30
														3.5	-	31.4	35
														-	1.3	28.7	30
														3.5	1.3	33.0	35
											EH*D-7M30	28.8	27.7	-	-	43.6	45
														3.5	-	48.0	50
														-	1.3	45.3	50
														3.5	1.3	49.6	50
											EH*D-7M45	45	43.3	-	-	63.1	70
														3.5	-	67.5	70
														-	1.3	64.8	70
														3.5	1.3	69.1	70
DSC1507W	575/3/60	2	7.0	53.9	2	0.5	1	1	5	7.2	-	-	-	-	-	25.0	30
											-	-	-	3.5	-	28.5	35
											-	-	-	-	1.3	26.3	30
											-	-	-	3.5	1.3	29.8	35
											EH*D-7M15	15	14.4	-	-	27.0	30
														3.5	-	31.4	35
														-	1.3	28.7	30
														3.5	1.3	33.0	35
											EH*D-7M30	28.8	27.7	-	-	43.6	45
														3.5	-	48.0	50
														-	1.3	45.3	50
														3.5	1.3	49.6	50
											EH*D-7M45	45	43.3	-	-	63.1	70
														3.5	-	67.5	70
														-	1.3	64.8	70
														3.5	1.3	69.1	70

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH0903D	208/230/3/60	2	12.2	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	39.4/39.4	50/50
											-	-	-	9.6/8.7	-	49.0/48.1	60/60
											-	-	-	-	3.3/3.0 (2.4)	42.7/42.4	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	52.3/51.1	60/60
											-	-	-	-	-	78.5/84.5	80/90
											EH*D-3M15	11.3/15.0	31.3/36.1	9.6/8.7	-	88.1/93.2	90/100
														-	3.3/3.0 (2.4)	81.8/87.5	90/90
														9.6/8.7	3.3/3.0 (2.4)	91.4/96.2	100/100
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	114/126	125/150
														9.6/8.7	-	124/135	125/150
														-	3.3/3.0 (2.4)	118/129	125/150
														9.6/8.7	3.3/3.0 (2.4)	127/138	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	157/175	175/175
														9.6/8.7	-	166/183	175/200
														-	3.3/3.0 (2.4)	160/178	175/200
														9.6/8.7	3.3/3.0 (2.4)	170/186	175/200
DSH0903L	208/230/3/60	2	12.2	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	39.4/39.4	50/50
											-	-	-	9.6/8.7	-	49.0/48.1	60/60
											-	-	-	-	3.3/3.0 (2.4)	42.7/42.4	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	52.3/51.1	60/60
											-	-	-	-	-	78.5/84.5	80/90
											EH*D-3M15	11.3/15.0	31.3/36.1	9.6/8.7	-	88.1/93.2	90/100
														-	3.3/3.0 (2.4)	81.8/87.5	90/90
														9.6/8.7	3.3/3.0 (2.4)	91.4/96.2	100/100
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	114/126	125/150
														9.6/8.7	-	124/135	125/150
														-	3.3/3.0 (2.4)	118/129	125/150
														9.6/8.7	3.3/3.0 (2.4)	127/138	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	157/175	175/175
														9.6/8.7	-	166/183	175/200
														-	3.3/3.0 (2.4)	160/178	175/200
														9.6/8.7	3.3/3.0 (2.4)	170/186	175/200
DSH0903W	208/230/3/60	2	12.2	120.4	2	0.33	2	1	3.5	10.9	-	-	-	-	-	42.3/42.3	50/50
											-	-	-	9.6/8.7	-	51.9/51.0	60/60
											-	-	-	-	3.3/3.0 (2.4)	45.6/45.3	50/50
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	55.2/54.0	60/60
											-	-	-	-	-	81.4/87.4	90/90
											EH*D-3M15	11.3/15.0	31.3/36.1	9.6/8.7	-	91.0/96.1	100/100
														-	3.3/3.0 (2.4)	84.7/90.4	90/100
														9.6/8.7	3.3/3.0 (2.4)	94.3/99.1	100/100
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	117/129	125/150
														9.6/8.7	-	127/138	150/150
														-	3.3/3.0 (2.4)	121/132	125/150
														9.6/8.7	3.3/3.0 (2.4)	130/141	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	160/178	175/200
														9.6/8.7	-	169/186	175/200
														-	3.3/3.0 (2.4)	163/181	175/200
														9.6/8.7	3.3/3.0 (2.4)	172/189	175/200
DSH0904D	460/3/60	2	5.8	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	20.1	25
											-	-	-	4.3	-	24.4	30
											-	-	-	-	1.2 (1.0)	21.3	25
											-	-	-	4.3	1.2 (1.0)	25.6	30
											-	-	-	-	-	42.6	45
											EH*D-4M15	15	18	4.3	-	46.9	50
														-	1.2 (1.0)	43.8	45
														4.3	1.2 (1.0)	48.1	50
											EH*D-4M30	28.8	34.6	-	-	63.4	70
														4.3	-	67.7	70
														-	1.2 (1.0)	64.6	70
														4.3	1.2 (1.0)	68.9	70
											EH*D-4M45	45	54.1	-	-	87.7	90
														4.3	-	92.0	100
														-	1.2 (1.0)	88.9	90
														4.3	1.2 (1.0)	93.2	100

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH0904L	460/3/60	2	5.8	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	20.1	25
											-	-	-	4.3	-	24.4	30
											-	-	-	-	1.2 (1.0)	21.3	25
											-	-	-	4.3	1.2 (1.0)	25.6	30
											EH*D-4M15	15	18	-	-	42.6	45
														4.3	-	46.9	50
														-	1.2 (1.0)	43.8	45
														4.3	1.2 (1.0)	48.1	50
														-	-	63.4	70
											EH*D-4M30	28.8	34.6	4.3	-	67.7	70
														-	1.2 (1.0)	64.6	70
														4.3	1.2 (1.0)	68.9	70
											EH*D-4M45	45	54.1	-	-	87.7	90
														4.3	-	92.0	100
														-	1.2 (1.0)	88.9	90
														4.3	1.2 (1.0)	93.2	100
														-	-	21.9	25
DSH0904W	460/3/60	2	5.8	55.1	2	0.33	0.85	1	3.5	7.2	-	-	-	-	-	26.2	30
											-	-	-	-	1.2 (1.0)	23.1	30
											-	-	-	4.3	1.2 (1.0)	27.4	30
											EH*D-4M15	15	18	-	-	44.4	45
														4.3	-	48.7	50
														-	1.2 (1.0)	45.6	50
														4.3	1.2 (1.0)	49.9	50
											EH*D-4M30	28.8	34.6	-	-	65.2	70
														4.3	-	69.5	70
														-	1.2 (1.0)	66.4	70
														4.3	1.2 (1.0)	70.7	80
											EH*D-4M45	45	54.1	-	-	89.5	90
														4.3	-	93.8	100
														-	1.2 (1.0)	90.7	100
														4.3	1.2 (1.0)	95.0	100
											-	-	-	-	-	18.3	20
DSH0907D	575/3/60	2	5.8	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	21.8	25
											-	-	-	-	1.3	19.6	25
											-	-	-	3.5	1.3	23.1	25
											EH*D-7M15	15	14.4	-	-	36.3	40
														3.5	-	39.8	40
														-	1.3	37.6	40
														3.5	1.3	41.1	45
											EH*D-7M30	28.8	27.7	-	-	52.9	60
														3.5	-	56.4	60
														-	1.3	54.2	60
														3.5	1.3	57.7	60
											EH*D-7M45	45	43.3	-	-	72.4	80
														3.5	-	75.9	80
														-	1.3	73.7	80
														3.5	1.3	77.2	80
DSH0907L	575/3/60	2	5.8	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	18.3	20
											-	-	-	3.5	-	21.8	25
											-	-	-	-	1.3	19.6	25
											-	-	-	3.5	1.3	23.1	25
											EH*D-7M15	15	14.4	-	-	36.3	40
														3.5	-	39.8	40
														-	1.3	37.6	40
														3.5	1.3	41.1	45
											EH*D-7M30	28.8	27.7	-	-	52.9	60
														3.5	-	56.4	60
														-	1.3	54.2	60
														3.5	1.3	57.7	60
											EH*D-7M45	45	43.3	-	-	72.4	80
														3.5	-	75.9	80
														-	1.3	73.7	80
														3.5	1.3	77.2	80

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH0907W	575/3/60	2	5.8	41.0	2	0.33	0.67	1	3.5	5.0	-	-	-	-	-	19.3	25
											-	-	-	3.5	-	22.8	25
											-	-	-	-	1.3	20.6	25
											-	-	-	3.5	1.3	24.1	25
											EH*D-7M15	15	14.4	-	-	37.3	40
														3.5	-	40.8	45
														-	1.3	38.6	40
														3.5	1.3	42.1	45
											EH*D-7M30	28.8	27.7	-	-	53.9	60
														3.5	-	57.4	60
														-	1.3	55.2	60
														3.5	1.3	58.7	60
											EH*D-7M45	45	43.3	-	-	73.4	80
														3.5	-	76.9	80
														-	1.3	74.7	80
														3.5	1.3	78.2	80
DSH1023D	208/230/3/60	2	14.1	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	43.7/43.7	50/50
											-	-	-	9.6/8.7	-	53.3/52.4	60/60
											-	-	-	-	3.3/3.0 (2.4)	47.0/46.7	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	56.6/55.4	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	82.8/88.8	90/90
														9.6/8.7	-	92.4/97.5	100/100
														-	3.3/3.0 (2.4)	86.1/91.8	90/100
														9.6/8.7	3.3/3.0 (2.4)	95.7/100	100/110
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	119/130	125/150
														9.6/8.7	-	128/139	150/150
														-	3.3/3.0 (2.4)	122/133	125/150
														9.6/8.7	3.3/3.0 (2.4)	132/142	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	161/179	175/200
														9.6/8.7	-	171/188	175/200
														-	3.3/3.0 (2.4)	164/182	175/200
														9.6/8.7	3.3/3.0 (2.4)	174/191	175/200
DSH1023L	208/230/3/60	2	14.1	120.4	2	0.33	2	1	2.4	8.0	-	-	-	-	-	43.7/43.7	50/50
											-	-	-	9.6/8.7	-	53.3/52.4	60/60
											-	-	-	-	3.3/3.0 (2.4)	47.0/46.7	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	56.6/55.4	60/60
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	82.8/88.8	90/90
														9.6/8.7	-	92.4/97.5	100/100
														-	3.3/3.0 (2.4)	86.1/91.8	90/100
														9.6/8.7	3.3/3.0 (2.4)	95.7/100	100/110
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	119/130	125/150
														9.6/8.7	-	128/139	150/150
														-	3.3/3.0 (2.4)	122/133	125/150
														9.6/8.7	3.3/3.0 (2.4)	132/142	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	161/179	175/200
														9.6/8.7	-	171/188	175/200
														-	3.3/3.0 (2.4)	164/182	175/200
														9.6/8.7	3.3/3.0 (2.4)	174/191	175/200
DSH1023W	208/230/3/60	2	14.1	120.4	2	0.33	2	1	3.5	10.9	-	-	-	-	-	46.6/46.6	60/60
											-	-	-	9.6/8.7	-	56.2/55.3	70/60
											-	-	-	-	3.3/3.0 (2.4)	49.9/49.6	60/60
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	59.5/58.3	70/70
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	85.7/91.7	90/100
														9.6/8.7	-	95.3/100	100/110
														-	3.3/3.0 (2.4)	89.0/94.7	90/100
														9.6/8.7	3.3/3.0 (2.4)	98.6/103	100/110
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	122/133	125/150
														9.6/8.7	-	131/142	150/150
														-	3.3/3.0 (2.4)	125/136	125/150
														9.6/8.7	3.3/3.0 (2.4)	135/145	150/150
											EH*D-3M45	33.8/45.0	93.8/108	-	-	164/182	175/200
														9.6/8.7	-	173/191	175/200
														-	3.3/3.0 (2.4)	167/185	175/200
														9.6/8.7	3.3/3.0 (2.4)	177/194	200/200

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1024D	460/3/60	2	6.4	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	21.5	25
											-	-	-	4.3	-	25.8	30
											-	-	-	-	1.2 (1.0)	22.7	25
											-	-	-	4.3	1.2 (1.0)	27.0	30
											EH*D-4M15	15	18	-	-	44.1	45
														4.3	-	48.4	50
														-	1.2 (1.0)	45.3	50
														4.3	1.2 (1.0)	49.6	50
											EH*D-4M30	28.8	34.6	-	-	64.8	70
														4.3	-	69.1	70
														-	1.2 (1.0)	66.0	70
														4.3	1.2 (1.0)	70.3	80
											EH*D-4M45	45	54.1	-	-	89.2	90
														4.3	-	93.5	100
														-	1.2 (1.0)	90.4	100
														4.3	1.2 (1.0)	94.7	100
DSH1024L	460/3/60	2	6.4	55.1	2	0.33	0.85	1	2.4	5.4	-	-	-	-	-	21.5	25
											-	-	-	4.3	-	25.8	30
											-	-	-	-	1.2 (1.0)	22.7	25
											-	-	-	4.3	1.2 (1.0)	27.0	30
											EH*D-4M15	15	18	-	-	44.1	45
														4.3	-	48.4	50
														-	1.2 (1.0)	45.3	50
														4.3	1.2 (1.0)	49.6	50
											EH*D-4M30	28.8	34.6	-	-	64.8	70
														4.3	-	69.1	70
														-	1.2 (1.0)	66.0	70
														4.3	1.2 (1.0)	70.3	80
											EH*D-4M45	45	54.1	-	-	89.2	90
														4.3	-	93.5	100
														-	1.2 (1.0)	90.4	100
														4.3	1.2 (1.0)	94.7	100
DSH1024W	460/3/60	2	6.4	55.1	2	0.33	0.85	1	3.5	7.2	-	-	-	-	-	23.3	30
											-	-	-	4.3	-	27.6	35
											-	-	-	-	1.2 (1.0)	24.5	30
											-	-	-	4.3	1.2 (1.0)	28.8	35
											EH*D-4M15	15	18	-	-	45.9	50
														4.3	-	50.2	60
														-	1.2 (1.0)	47.1	50
														4.3	1.2 (1.0)	51.4	60
											EH*D-4M30	28.8	34.6	-	-	66.6	70
														4.3	-	70.9	80
														-	1.2 (1.0)	67.8	70
														4.3	1.2 (1.0)	72.1	80
											EH*D-4M45	45	54.1	-	-	91.0	100
														4.3	-	95.3	100
														-	1.2 (1.0)	92.2	100
														4.3	1.2 (1.0)	96.5	100
DSH1027D	575/3/60	2	5.1	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	16.9	20
											-	-	-	3.5	-	20.4	25
											-	-	-	-	1.3	18.2	20
											-	-	-	3.5	1.3	21.7	25
											EH*D-7M15	15	14.4	-	-	34.9	35
														3.5	-	38.4	40
														-	1.3	36.2	40
														3.5	1.3	39.7	40
											EH*D-7M30	28.8	27.7	-	-	51.5	60
														3.5	-	55.0	60
														-	1.3	52.8	60
														3.5	1.3	56.3	60
											EH*D-7M45	45	43.3	-	-	71.0	80
														3.5	-	74.5	80
														-	1.3	72.3	80
														3.5	1.3	75.8	80

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1027L	575/3/60	2	5.1	41.0	2	0.33	0.67	1	2.4	4.0	-	-	-	-	-	16.9	20
											-	-	-	3.5	-	20.4	25
											-	-	-	-	1.3	18.2	20
											-	-	-	3.5	1.3	21.7	25
											EH*D-7M15	15	14.4	-	-	34.9	35
														3.5	-	38.4	40
														-	1.3	36.2	40
														3.5	1.3	39.7	40
														-	-	51.5	60
											EH*D-7M30	28.8	27.7	3.5	-	55.0	60
														-	1.3	52.8	60
														3.5	1.3	56.3	60
											EH*D-7M45	45	43.3	-	-	71.0	80
														3.5	-	74.5	80
														-	1.3	72.3	80
														3.5	1.3	75.8	80
														-	-	17.9	20
DSH1027W	575/3/60	2	5.1	41.0	2	0.33	0.67	1	3.5	5.0	-	-	-	-	-	21.4	25
											-	-	-	-	1.3	19.2	20
											-	-	-	3.5	1.3	22.7	25
											EH*D-7M15	15	14.4	-	-	35.9	40
														3.5	-	39.4	40
														-	1.3	37.2	40
														3.5	1.3	40.7	45
											EH*D-7M30	28.8	27.7	-	-	52.5	60
														3.5	-	56.0	60
														-	1.3	53.8	60
											EH*D-7M45	45	43.3	3.5	1.3	57.3	60
														-	-	72.0	80
														3.5	-	75.5	80
														-	1.3	73.3	80
														3.5	1.3	76.8	80
DSH1203D	208/230/3/60	2	17.3	155	2	0.5	2.7	1	3.5	10.9	-	-	-	-	-	55.2/55.2	70/70
											-	-	-	9.6/8.7	-	64.8/63.9	80/80
											-	-	-	-	3.3/3.0 (2.4)	58.5/58.2	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	68.1/66.9	80/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	94.3/100	100/110
														9.6/8.7	-	104/109	110/110
														-	3.3/3.0 (2.4)	97.6/103	100/110
														9.6/8.7	3.3/3.0 (2.4)	107/112	110/125
														-	-	130/142	150/150
											EH*D-3M30	21.6/28.8	60.0/69.3	9.6/8.7	-	140/150	150/175
														-	3.3/3.0 (2.4)	134/145	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/153	150/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	172/190	175/200
														9.6/8.7	-	182/199	200/200
														-	3.3/3.0 (2.4)	176/193	200/200
														9.6/8.7	3.3/3.0 (2.4)	185/202	200/225
														-	-	55.2/55.2	70/70
DSH1203L	208/230/3/60	2	17.3	155	2	0.5	2.7	1	3.5	10.9	-	-	-	9.6/8.7	-	64.8/63.9	80/80
											-	-	-	-	3.3/3.0 (2.4)	58.5/58.2	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	68.1/66.9	80/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	94.3/100	100/110
														9.6/8.7	-	104/109	110/110
														-	3.3/3.0 (2.4)	97.6/103	100/110
														9.6/8.7	3.3/3.0 (2.4)	107/112	110/125
														-	-	130/142	150/150
											EH*D-3M30	21.6/28.8	60.0/69.3	9.6/8.7	-	140/150	150/175
														-	3.3/3.0 (2.4)	134/145	150/150
														9.6/8.7	3.3/3.0 (2.4)	143/153	150/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	172/190	175/200
														9.6/8.7	-	182/199	200/200
														-	3.3/3.0 (2.4)	176/193	200/200
														9.6/8.7	3.3/3.0 (2.4)	185/202	200/225

*NOTE: Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1203W	208/230/3/60	2	17.3	155	2	0.5	2.7	1	5.0	14.5	-	-	-	-	-	58.8/58.8	70/70
											-	-	-	9.6/8.7	-	68.4/67.5	80/80
											-	-	-	-	3.3/3.0 (2.4)	62.1/61.8	70/70
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	71.7/70.5	80/80
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	97.9/104	100/110
														9.6/8.7	-	107/113	110/125
														-	3.3/3.0 (2.4)	101/107	110/110
														9.6/8.7	3.3/3.0 (2.4)	111/116	125/125
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	134/145	150/150
														9.6/8.7	-	143/154	150/175
														-	3.3/3.0 (2.4)	137/148	150/150
														9.6/8.7	3.3/3.0 (2.4)	147/157	150/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	176/194	200/200
														9.6/8.7	-	186/203	200/225
														-	3.3/3.0 (2.4)	179/197	200/200
														9.6/8.7	3.3/3.0 (2.4)	189/206	200/225
DSH1204D	460/3/60	2	7.7	58.1	2	0.5	1.4	1	3.5	7.2	-	-	-	-	-	27.3	30
											-	-	-	4.3	-	31.6	35
											-	-	-	-	1.2 (1.0)	28.5	35
											-	-	-	4.3	1.2 (1.0)	32.8	40
											EH*D-4M15	15	18	-	-	49.8	50
														4.3	-	54.1	60
														-	1.2 (1.0)	51.0	60
														4.3	1.2 (1.0)	55.3	60
											EH*D-4M30	28.8	34.6	-	-	70.6	80
														4.3	-	74.9	80
														-	1.2 (1.0)	71.8	80
														4.3	1.2 (1.0)	76.1	80
											EH*D-4M45	45	54.1	-	-	94.9	100
														4.3	-	99.2	100
														-	1.2 (1.0)	96.1	100
														4.3	1.2 (1.0)	100	110
DSH1204L	460/3/60	2	7.7	58.1	2	0.5	1.4	1	3.5	7.2	-	-	-	-	-	27.3	30
											-	-	-	4.3	-	31.6	35
											-	-	-	-	1.2 (1.0)	28.5	35
											-	-	-	4.3	1.2 (1.0)	32.8	40
											EH*D-4M15	15	18	-	-	49.8	50
														4.3	-	54.1	60
														-	1.2 (1.0)	51.0	60
														4.3	1.2 (1.0)	55.3	60
											EH*D-4M30	28.8	34.6	-	-	70.6	80
														4.3	-	74.9	80
														-	1.2 (1.0)	71.8	80
														4.3	1.2 (1.0)	76.1	80
											EH*D-4M45	45	54.1	-	-	94.9	100
														4.3	-	99.2	100
														-	1.2 (1.0)	96.1	100
														4.3	1.2 (1.0)	100	110
DSH1204W	460/3/60	2	7.7	58.1	2	0.5	1.4	1	5.0	10.6	-	-	-	-	-	30.7	40
											-	-	-	4.3	-	35.0	45
											-	-	-	-	1.2 (1.0)	31.9	40
											-	-	-	4.3	1.2 (1.0)	36.2	45
											EH*D-4M15	15	18	-	-	53.2	60
														4.3	-	57.5	60
														-	1.2 (1.0)	54.4	60
														4.3	1.2 (1.0)	58.7	60
											EH*D-4M30	28.8	34.6	-	-	74.0	80
														4.3	-	78.3	80
														-	1.2 (1.0)	75.2	80
														4.3	1.2 (1.0)	79.5	80
											EH*D-4M45	45	54.1	-	-	98.3	100
														4.3	-	103	110
														-	1.2 (1.0)	99.5	100
														4.3	1.2 (1.0)	104	110

***NOTE:** Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust*	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1207D	575/3/60	2	7.0	47.8	2	0.5	1.0	1	3.5	5.0	-	-	-	-	-	22.8	25
											-	-	-	3.5	-	26.3	30
											-	-	-	-	1.3	24.1	30
											-	-	-	3.5	1.3	27.6	30
											EH*D-7M15	15	14.4	-	-	40.9	45
														3.5	-	44.4	45
														-	1.3	42.2	45
														3.5	1.3	45.7	50
											EH*D-7M30	28.8	27.7	-	-	57.5	60
														3.5	-	61.0	70
														-	1.3	58.8	60
														3.5	1.3	62.3	70
											EH*D-7M45	45	43.3	-	-	77.0	80
														3.5	-	80.5	90
														-	1.3	78.3	80
														3.5	1.3	81.8	90
DSH1207L	575/3/60	2	7.0	47.8	2	0.5	1.0	1	3.5	5.0	-	-	-	-	-	22.8	25
											-	-	-	3.5	-	26.3	30
											-	-	-	-	1.3	24.1	30
											-	-	-	3.5	1.3	27.6	30
											EH*D-7M15	15	14.4	-	-	40.9	45
														3.5	-	44.4	45
														-	1.3	42.2	45
														3.5	1.3	45.7	50
											EH*D-7M30	28.8	27.7	-	-	57.5	60
														3.5	-	61.0	70
														-	1.3	58.8	60
														3.5	1.3	62.3	70
											EH*D-7M45	45	43.3	-	-	77.0	80
														3.5	-	80.5	90
														-	1.3	78.3	80
														3.5	1.3	81.8	90
DSH1207W	575/3/60	2	7.0	47.8	2	0.5	1.0	1	5	7.2	-	-	-	-	-	25.0	30
											-	-	-	3.5	-	28.5	35
											-	-	-	-	1.3	26.3	30
											-	-	-	3.5	1.3	29.8	35
											EH*D-7M15	15	14.4	-	-	43.1	45
														3.5	-	46.6	50
														-	1.3	44.4	45
														3.5	1.3	47.9	50
											EH*D-7M30	28.8	27.7	-	-	59.7	60
														3.5	-	63.2	70
														-	1.3	61.0	70
														3.5	1.3	64.5	70
											EH*D-7M45	45	43.3	-	-	79.2	80
														3.5	-	82.7	90
														-	1.3	80.5	90
														3.5	1.3	84.0	90

*NOTE: Use higher value for calculation of MCA. Use lower value for calculation of MOP.

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1503D	208/230/3/60	2	21.7	166.2	2	0.5	2.7	1	3.5	10.9	-	-	-	-	-	65.1/65.1	80/80
											-	-	-	9.6/8.7	-	74.7/73.8	90/90
											-	-	-	-	3.3/3.0 (2.4)	68.4/68.1	80/80
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	78.0/76.8	90/90
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	104/110	110/125
														9.6/8.7	-	114/119	125/125
														-	3.3/3.0 (2.4)	108/113	110/125
														9.6/8.7	3.3/3.0 (2.4)	117/122	125/125
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	140/152	150/175
														9.6/8.7	-	150/160	150/175
														-	3.3/3.0 (2.4)	143/155	150/175
														9.6/8.7	3.3/3.0 (2.4)	153/163	175/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	182/200	200/225
														9.6/8.7	-	192/209	200/225
														-	3.3/3.0 (2.4)	186/203	200/225
														9.6/8.7	3.3/3.0 (2.4)	195/212	200/225
											EH*D-3M60	43.3/57.6	120/139	-	-	215/204	225/225
														9.6/8.7	-	225/212	225/225
														-	3.3/3.0 (2.4)	219/207	225/225
														9.6/8.7	3.3/3.0 (2.4)	228/215	250/225
DSH1503L	208/230/3/60	2	21.7	166.2	2	0.5	2.7	1	5.0	14.5	-	-	-	-	-	68.7/68.7	90/90
											-	-	-	9.6/8.7	-	78.3/77.4	100/90
											-	-	-	-	3.3/3.0 (2.4)	72.0/71.7	90/90
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	81.6/80.4	100/100
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	108/114	110/125
														9.6/8.7	-	117/123	125/125
														-	3.3/3.0 (2.4)	111/117	125/125
														9.6/8.7	3.3/3.0 (2.4)	121/126	125/150
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	144/155	150/175
														9.6/8.7	-	153/164	175/175
														-	3.3/3.0 (2.4)	147/158	150/175
														9.6/8.7	3.3/3.0 (2.4)	157/167	175/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	186/204	200/225
														9.6/8.7	-	196/213	200/225
														-	3.3/3.0 (2.4)	189/207	200/225
														9.6/8.7	3.3/3.0 (2.4)	199/216	200/225
											EH*D-3M60	43.3/57.6	120/139	-	-	219/207	225/225
														9.6/8.7	-	228/216	250/225
														-	3.3/3.0 (2.4)	222/210	225/225
														9.6/8.7	3.3/3.0 (2.4)	232/219	250/225
DSH1503W	208/230/3/60	2	21.7	166.2	2	0.5	2.7	1	5.0	14.5	-	-	-	-	-	68.7/68.7	90/90
											-	-	-	9.6/8.7	-	78.3/77.4	100/90
											-	-	-	-	3.3/3.0 (2.4)	72.0/71.7	90/90
											-	-	-	9.6/8.7	3.3/3.0 (2.4)	81.6/80.4	100/100
											EH*D-3M15	11.3/15.0	31.3/36.1	-	-	108/114	110/125
														9.6/8.7	-	117/123	125/125
														-	3.3/3.0 (2.4)	111/117	125/125
														9.6/8.7	3.3/3.0 (2.4)	121/126	125/150
											EH*D-3M30	21.6/28.8	60.0/69.3	-	-	144/155	150/175
														9.6/8.7	-	153/164	175/175
														-	3.3/3.0 (2.4)	147/158	150/175
														9.6/8.7	3.3/3.0 (2.4)	157/167	175/175
											EH*D-3M45	33.8/45.0	93.8/108	-	-	186/204	200/225
														9.6/8.7	-	196/213	200/225
														-	3.3/3.0 (2.4)	189/207	200/225
														9.6/8.7	3.3/3.0 (2.4)	199/216	200/225
											EH*D-3M60	43.3/57.6	120/139	-	-	219/207	225/225
														9.6/8.7	-	228/216	250/225
														-	3.3/3.0 (2.4)	222/210	225/225
														9.6/8.7	3.3/3.0 (2.4)	232/219	250/225

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust	Power Supply	
		QTY	RLA	LRA	QTY	RLA	LRA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1504D	460/3/60	2	9.6	103	2	0.5	1.4	1	3.5	7.2	-	-	-	-	-	31.6	40
											-	-	-	4.3	-	35.9	45
											-	-	-	-	1.2 (1.0)	32.8	40
											-	-	-	4.3	1.2 (1.0)	37.1	45
											EH*D-4M15	15.0	18	-	-	54.2	60
														4.3	-	58.5	60
														-	1.2 (1.0)	55.4	60
														4.3	1.2 (1.0)	59.7	60
											EH*D-4M30	28.8	34.6	-	-	74.9	80
														4.3	-	79.2	80
														-	1.2 (1.0)	76.1	80
														4.3	1.2 (1.0)	80.4	90
											EH*D-4M45	45.0	54.1	-	-	99.3	100
														4.3	-	104	110
														-	1.2 (1.0)	100	110
														4.3	1.2 (1.0)	105	110
											EH*D-4M60	57.6	69.3	-	-	101	110
														4.3	-	105	110
														-	1.2 (1.0)	102	110
														4.3	1.2 (1.0)	106	110
DSH1504L	460/3/60	2	9.6	103	2	0.5	1.4	1	5.0	10.6	-	-	-	-	-	35.0	45
											-	-	-	4.3	-	39.3	50
											-	-	-	-	1.2 (1.0)	36.2	45
											-	-	-	4.3	1.2 (1.0)	40.5	50
											EH*D-4M15	15.0	18	-	-	57.6	60
														4.3	-	61.9	70
														-	1.2 (1.0)	58.8	60
														4.3	1.2 (1.0)	63.1	70
											EH*D-4M30	28.8	34.6	-	-	78.3	80
														4.3	-	82.6	90
														-	1.2 (1.0)	79.5	80
														4.3	1.2 (1.0)	83.8	90
											EH*D-4M45	45.0	54.1	-	-	103	110
														4.3	-	107	110
														-	1.2 (1.0)	104	110
														4.3	1.2 (1.0)	108	110
											EH*D-4M60	57.6	69.3	-	-	104	110
														4.3	-	109	110
														-	1.2 (1.0)	105	110
														4.3	1.2 (1.0)	110	110
DSH1504W	460/3/60	2	9.6	103	2	0.5	1.4	1	5.0	10.6	-	-	-	-	-	35.0	45
											-	-	-	4.3	-	39.3	50
											-	-	-	-	1.2 (1.0)	36.2	45
											-	-	-	4.3	1.2 (1.0)	40.5	50
											EH*D-4M15	15.0	18	-	-	57.6	60
														4.3	-	61.9	70
														-	1.2 (1.0)	58.8	60
														4.3	1.2 (1.0)	63.1	70
											EH*D-4M30	28.8	34.6	-	-	78.3	80
														4.3	-	82.6	90
														-	1.2 (1.0)	79.5	80
														4.3	1.2 (1.0)	83.8	90
											EH*D-4M45	45.0	54.1	-	-	103	110
														4.3	-	107	110
														-	1.2 (1.0)	104	110
														4.3	1.2 (1.0)	108	110
											EH*D-4M60	57.6	69.3	-	-	104	110
														4.3	-	109	110
														-	1.2 (1.0)	105	110
														4.3	1.2 (1.0)	110	110

APPENDIX B ELECTRICAL DATA

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	QTY	HP	FLA	Part #	KW*	FLA	FLA	FLA	MCA	MOP
DSH1507D	575/3/60	2	7.2	54	2	0.5	1.0	1	3.5	5.0	-	-	-	-	-	23.1	30
											-	-	-	3.5	-	26.6	30
											-	-	-	-	1.3	24.4	30
											-	-	-	3.5	1.3	27.9	35
											EH*D-7M15	15.0	14.4	-	-	41.2	45
														3.5	-	44.7	45
														-	1.3	42.5	45
														3.5	1.3	46.0	50
											EH*D-7M30	28.8	27.7	-	-	57.8	60
														3.5	-	61.3	70
														-	1.3	59.1	60
														3.5	1.3	62.6	70
											EH*D-7M45	45.0	43.3	-	-	77.3	80
														3.5	-	80.8	90
														-	1.3	78.6	80
														3.5	1.3	82.1	90
											EH*D-7M60	57.6	55.4	-	-	78.6	80
														3.5	-	82.1	90
														-	1.3	79.9	80
														3.5	1.3	83.4	90
DSH1507L	575/3/60	2	7.2	54	2	0.5	1.0	1	5.0	7.2	-	-	-	-	-	25.3	30
											-	-	-	3.5	-	28.8	35
											-	-	-	-	1.3	26.6	30
											-	-	-	3.5	1.3	30.1	35
											EH*D-7M15	15.0	14.4	-	-	43.4	45
														3.5	-	46.9	50
														-	1.3	44.7	45
														3.5	1.3	48.2	50
											EH*D-7M30	28.8	27.7	-	-	60.0	60
														3.5	-	63.5	70
														-	1.3	61.3	70
														3.5	1.3	64.8	70
											EH*D-7M45	45.0	43.3	-	-	79.5	80
														3.5	-	83.0	90
														-	1.3	80.8	90
														3.5	1.3	84.3	90
											EH*D-7M60	57.6	55.4	-	-	80.8	90
														3.5	-	84.3	90
														-	1.3	82.1	90
														3.5	1.3	85.6	90
DSH1507W	575/3/60	2	7.2	54	2	0.5	1.0	1	5.0	7.2	-	-	-	-	-	25.3	30
											-	-	-	3.5	-	28.8	35
											-	-	-	-	1.3	26.6	30
											-	-	-	3.5	1.3	30.1	35
											EH*D-7M15	15.0	14.4	-	-	43.4	45
														3.5	-	46.9	50
														-	1.3	44.7	45
														3.5	1.3	48.2	50
											EH*D-7M30	28.8	27.7	-	-	60.0	60
														3.5	-	63.5	70
														-	1.3	61.3	70
														3.5	1.3	64.8	70
											EH*D-7M45	45.0	43.3	-	-	79.5	80
														3.5	-	83.0	90
														-	1.3	80.8	90
														3.5	1.3	84.3	90
											EH*D-7M60	57.6	55.4	-	-	80.8	90
														3.5	-	84.3	90
														-	1.3	82.1	90
														3.5	1.3	85.6	90

APPENDIX C UNIT DIMENSIONS

Models	Dimension "A" in.
DSC090-150	54-5/8"
DSH090-120	54-5/8"
DSH150	58-13/16"

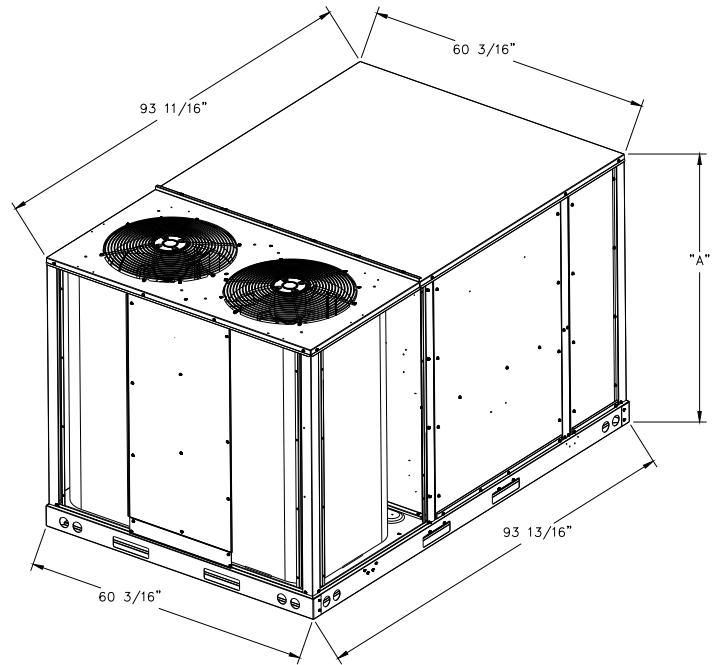
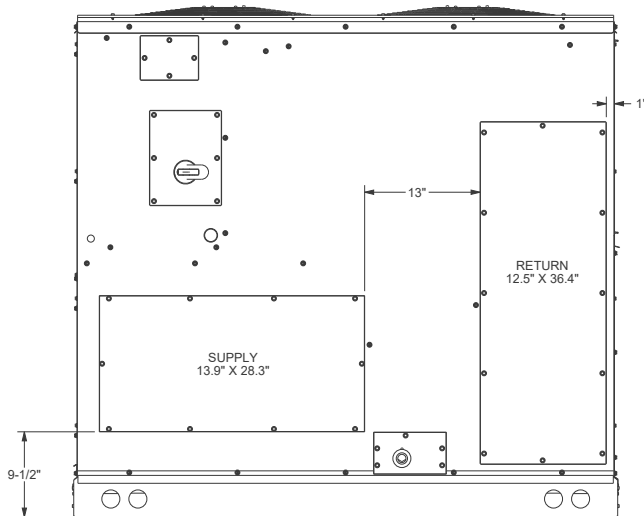


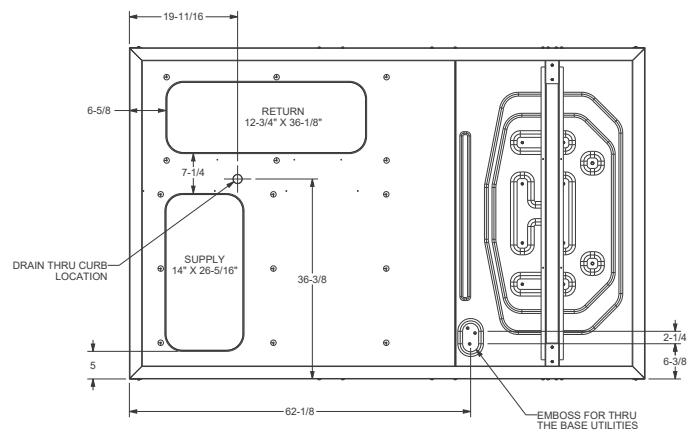
FIGURE 14



HORIZONTAL DISCHARGE
FIGURE 13

NOTE

For horizontal discharge, remove supply and return duct cover panels from the end of the unit. Save all washered screws. According to the model size, remove (6 or 8) factory supplied panel clips that are secured to the base pan, behind the filter access panel. With the insulated side of the panel facing up, attach the clips. Place the provided gasket material completely around the perimeter of the clip side on both panels. Place the assembled panels over the supply and return duct openings in the base pan and push down to snap panels into place. Ensure the panel is evenly seated on the flanges around the duct openings and the gasket is creating a good seal.



VERTICAL DISCHARGE (BOTTOM OF UNIT)
FIGURE 15

NOTE: REFER TO IOD-7082 INCLUDED IN THE LITERATURE PACK FOR INSTALLING HORIZONTAL DUCT COVERS.

APPENDIX D MIN-MAX AIRFLOW

AIR FLOW FOR ELECTRIC HEAT				
UNIT	Kw	E-HEAT MINIMUM AIRFLOW	COOLING MINIMUM AIRFLOW	COOLING MAXIMUM CFM
7.5T AC STD STATIC	15	2400	2400	4225
7.5T HP STD STATIC	30			
7.5T AC MED STATIC	45			
7.5T HP MED STATIC	45			
7.5T AC HIGH STATIC	45	2750	2750	4425
7.5T HP HIGH STATIC	45			
8.5T AC STD STATIC	15			
8.5T HP STD STATIC	30			
8.5T AC MED STATIC	45			
8.5T HP MED STATIC	45			
8.5T AC HIGH STATIC	45	3200	3200	5275
8.5T HP HIGH STATIC	45			
10T AC STD STATIC	15			
10T HP STD STATIC	30			
10T AC MED STATIC	45			
10T HP MED STATIC	45			
10T AC HIGH STATIC	45	3750	3750	6025
10T HP HIGH STATIC	45			
12.5T AC STD STATIC	15			
12.5T AC MED STATIC	30			
12.5T AC HIGH STATIC	45			
12.5T HP STD STATIC	15	4400	3750	6250
	30			
	45			
	60			
12.5T HP MED STATIC	15	4000	3750	6250
	30			
	45			
	60			
12.5T HP HIGH STATIC	15	3750	3750	6250
	30			
	45			
	60			

HEATER KIT MODEL NUMBER NOMENCLATURE

	EH	X	D	-	3	M	15
	1	2	3	4	5	6, 7	
Electric							
Heater							
X Staged							
S SCR (modulating)							
Drive System							
B Belt Drive							
D Direct Drive							
Voltage							
1 208-230/1/60							Single phase 60 Hz
3 208-230/3/60							Three phase 60 Hz
4 460/3/60							Three phase 60 Hz
7 575/3/60							Three phase 60 Hz
Chassis							
S Small							
M Medium							
L Large							
Kilowatt							
10 10 KW							
15 15 KW							
20 20 KW							
30 30 KW							
45 45 KW							
60 60 KW							

NOTE: ELECTRIC HEAT KIT INSTALLATIONS WHERE LINE VOLTAGE IS GREATER THAN 106% OF NOMINAL MAY REQUIRE ADDITIONAL AIRFLOW TO AVOID NUISANCE TRIPPING OF THE PRIMARY THERMAL LIMITS

WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

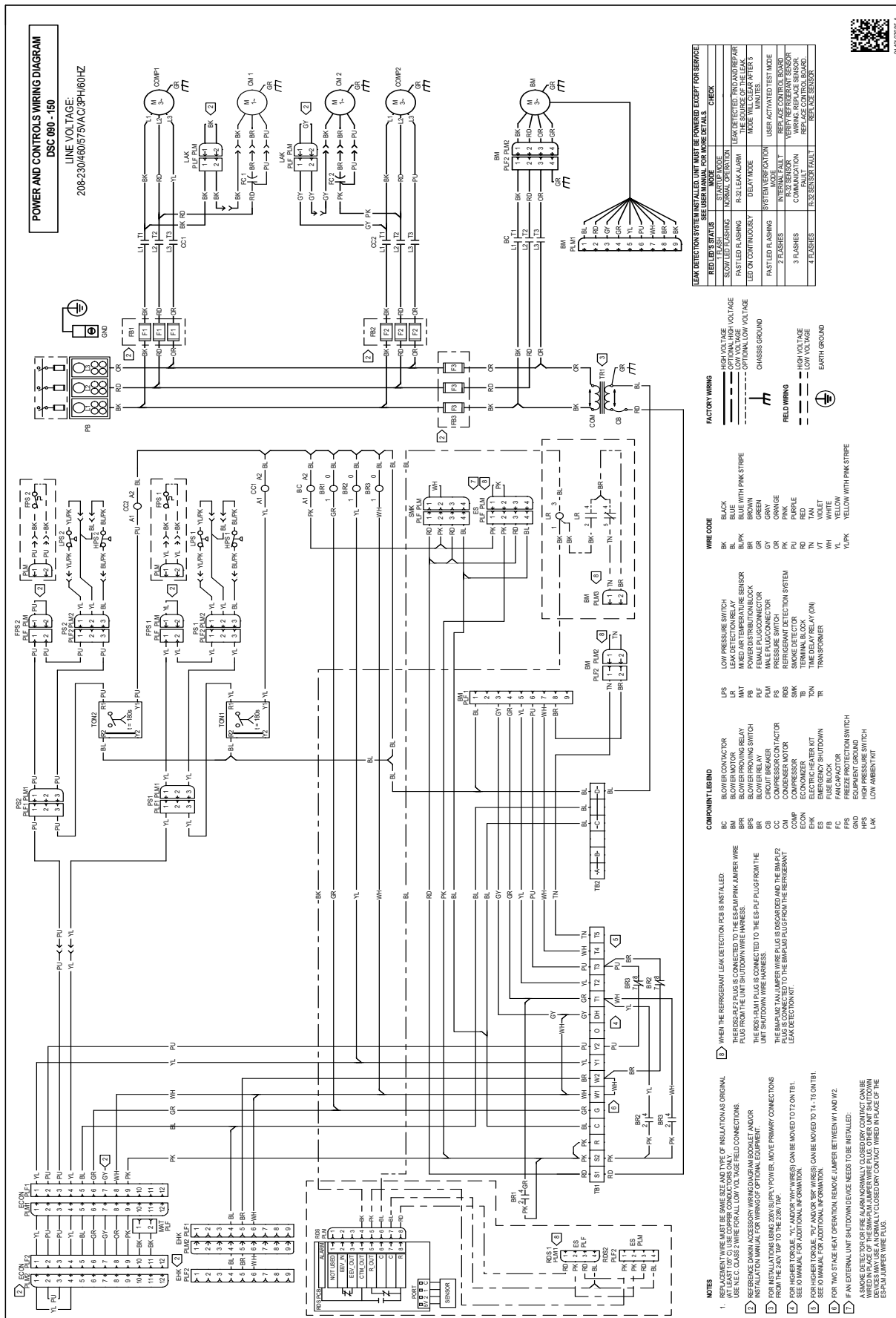


WIRING DIAGRAM



WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





Start-up Checklist

**Store in job file*

Date: _____ Location: _____
Model Number: _____
Serial Number: _____
Technician: _____ Unit #: _____

Pre Start-Up

(Check each item as completed)

- ☐ Verify all packaging material has been removed.
- ☐ Remove all shipping brackets per installation instructions.
- ☐ Verify the job site voltage agrees with the unit serial plate.
- ☐ Verify condensate connection is installed per installation instructions.
- ☐ Verify proper clearance around the unit for safety, service, maintenance and proper unit operation.
- ☐ Verify proper weatherproofing of all ductwork, roof curbs and electrical connections.
- ☐ Check refrigerant piping for rubbing and leaks. *Repair if necessary.*
- ☐ Check unit wiring to ensure it is not in contact with refrigerant piping or sharp metal edges.
- ☐ Check all electrical connections and terminals. *Tighten as needed.*
- ☐ Verify that the crankcase heaters have been energized for 24 hours.
- ☐ Verify the scroll compressor(s) are rotating in the right direction.
- ☐ Verify all accessories are installed and operating correctly.
- ☐ Check filters and replace if necessary.
- ☐ Verify the installation of the thermostat.



Start-up Checklist

Start-Up

(Insert the values as each item is completed.)

ELECTRICAL

Supply Voltage	L1 - L2	_____	L2 - L3	_____	L3 - L1	_____
Circuit 1 Compressor Amps	L1	_____	L2	_____	L3	_____
Circuit 2 Compressor Amps	L1	_____	L2	_____	L3	_____
Blower Amps	L1	_____	L2	_____	L3	_____
Condenser Fan Amps	Fan 1	_____	Fan 2	_____	Fan 3	_____

BLOWER EXTERNAL STATIC PRESSURE

Return Air Static Pressure	_____	IN. W.C.
Supply Air Static Pressure	_____	IN. W.C.
Total External Static Pressure	_____	IN. W.C.
Blower Wheel RPM	_____	RPM

TEMPERATURES

Outdoor Air Temperature	_____	DB	_____	WB
Return Air Temperature	_____	DB	_____	WB
Cooling Supply Air Temperature	_____	DB	_____	WB
Heating Supply Air Temperature	_____	DB	_____	

PRESSURES

Gas Inlet Pressure	_____	IN. W.C.		
Gas Manifold Pressure	_____	IN. W.C. (Low Fire)	_____	IN. W.C. (High Fire)
Suction Circuit 1	_____	PSIG	_____	°F
Superheat (Orifice System)			_____	°F
Suction Circuit 2	_____	PSIG	_____	°F
Superheat (Orifice System)			_____	°F
Discharge Circuit 1	_____	PSIG	_____	°F
Subcooling (TXV System)			_____	°F
Discharge Circuit 2	_____	PSIG	_____	°F
Subcooling (TXV System)			_____	°F

(HEAT PUMP ONLY)

Suction Circuit 1	_____	PSIG	_____	°F
Suction Circuit 2	_____	PSIG	_____	°F
Discharge Circuit 1	_____	PSIG	_____	°F
Discharge Circuit 2	_____	PSIG	_____	°F

PAGE LEFT INTENTIONALLY BLANK

PAGE LEFT INTENTIONALLY BLANK

CUSTOMER FEEDBACK

Daikin is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



Our continuing commitment to quality products may mean a change in specifications without notice.

©2026 Daikin Comfort Technologies Manufacturing, Inc.

19001 Kermier Rd., Waller, TX 77484

[**www.daikincomfort.com**](http://www.daikincomfort.com)