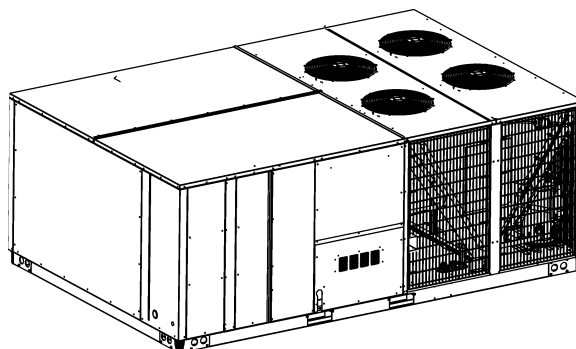


DSH240 Direct Drive 20 Ton Heat Pump

DSH2403D000001SAA

DSH2404D000001SAA

DSH2407D000001SAA



This manual is to be used by qualified technicians only.

Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 17

Views shown are for parts illustrations only, not servicing procedures.

Text Codes:

AR - As Required

NA - Not Available

NS - Not Shown

00000000 - See Note

QTY - Quantity Example (QTY 3) (If Quantity not shown, Quantity = 1)

M - Model Example (M1) (If M Code not shown, then part is used on all Models)

Expanded Model Nomenclature:

Example M1 - Model#1 M2 - Model#2 M3 - Model#3

Daikin Comfort Technologies Manufacturing , Inc. is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Daikin Comfort Technologies Manufacturing , Inc. also recommends contacting an authorized technician and using authorized factory parts.

Daikin Comfort Technologies Manufacturing , Inc. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

For assistance within the U.S.A. contact:
Equipment Support
Daikin Comfort Technologies Manufacturing , Inc.
19001 Kermier Road
Waller, Texas 77484
855-770-5678-Telephone
713-863-2382-Facsimile

For assistance outside the U.S.A. contact:
International Division
Daikin Comfort Technologies Manufacturing , Inc.
19001 Kermier Road
Waller, Texas 77484
713-861-2500-Telephone
713-863-2382-Facsimile

Functional Parts

Part

No: Description:

0131L00765SA	230V PROGRAMMED MOTOR CONTROLLER (M1)
0131L00765SB	460V PROGRAMMED MOTOR CONTROLLER (M2)
0131L00765SC	575V PROGRAMMED MOTOR CONTROLLER (M3)
0151R00303	ACCUMULATOR (QTY 2)
0130M00913	AUXILLARY SWITCH (QTY 2)
CAP100000440LA	CAP 10 MFD/440V/OVAL (M2, M3)
CAP100000370LA	CAP, 10 MFD/370V/OVAL (M1)
YP105K1TTF5ERZ	COMPRESSOR (M1)
YP105K1TTFDCRT	COMPRESSOR (M2)
YP105K1TTFECRT	COMPRESSOR (M3)
CONT2P030024D	CONT, 2 POLE, 30 AMP, 24VAC (QTY 2)
CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (QTY 2)
CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (M2, M3)
CONT3P050024D	CONT, 3 POLE, 50 AMP 24VAC (M1)
0130M00197	CONTROL DEFROST (QTY 2)
0130L00275	CRANK CASE HEATER, 70W, 575V (M3)
0130L00273	CRANK CASE HEATER-70W 240V (M1)
0130L00274	CRANK CASE HEATER-70W, 480V (M2)
0130M00178	DPDT RELAY 24VAC (QTY 9)
0202L00767	EVAPORATOR COIL ASSEMBLY
0251L00285	EXPANSION VALVE ASSEMBLY C1
0251L00286	EXPANSION VALVE ASSEMBLY C2
0251L00289	EXPANSION VALVE ASSY. C1
0251L00290	EXPANSION VALVE ASSY. C2
0131L00122	MOTOR, BLOWER 208/230V (M1)
0131L00124	MOTOR, BLOWER 460V (M2)
0131L00125	MOTOR, BLOWER 575V (M3)
0131M00926	Nidec Motor, 1/2 HP (M2)
0131M00925	Nidec Motor, 1/2 HP (M1)
0131M00930	Nidec Motor, 1/2 HP (M3)
PCBDM133	PCB DEFROST CONTROL (QTY 2)
PCBCM301V0001	PCB, CONTROL, AIR HANDLER
0151R00291	REVERSING VALVE, R-32
0151R00291	REVERSING VALVE, R-32
SER2A08012	SENSATA, R32 SENSOR
0130M00730	SWITCH HIGH PRESSURE (QTY 2)
0130M00733	SWITCH LOW PRESSURE (QTY 2)
0130M00861	TRANSFORMER (M3)
0130L00406	TRANSFORMER (M1)
0130M00858	TRANSFORMER (M2)

SPECIAL PARTS

RP-FIOPL* ACCESSORY RP MANUAL

RP-EH[S,X]*L* ACCESSORY RP MANUAL

Expanded Model Nomenclature

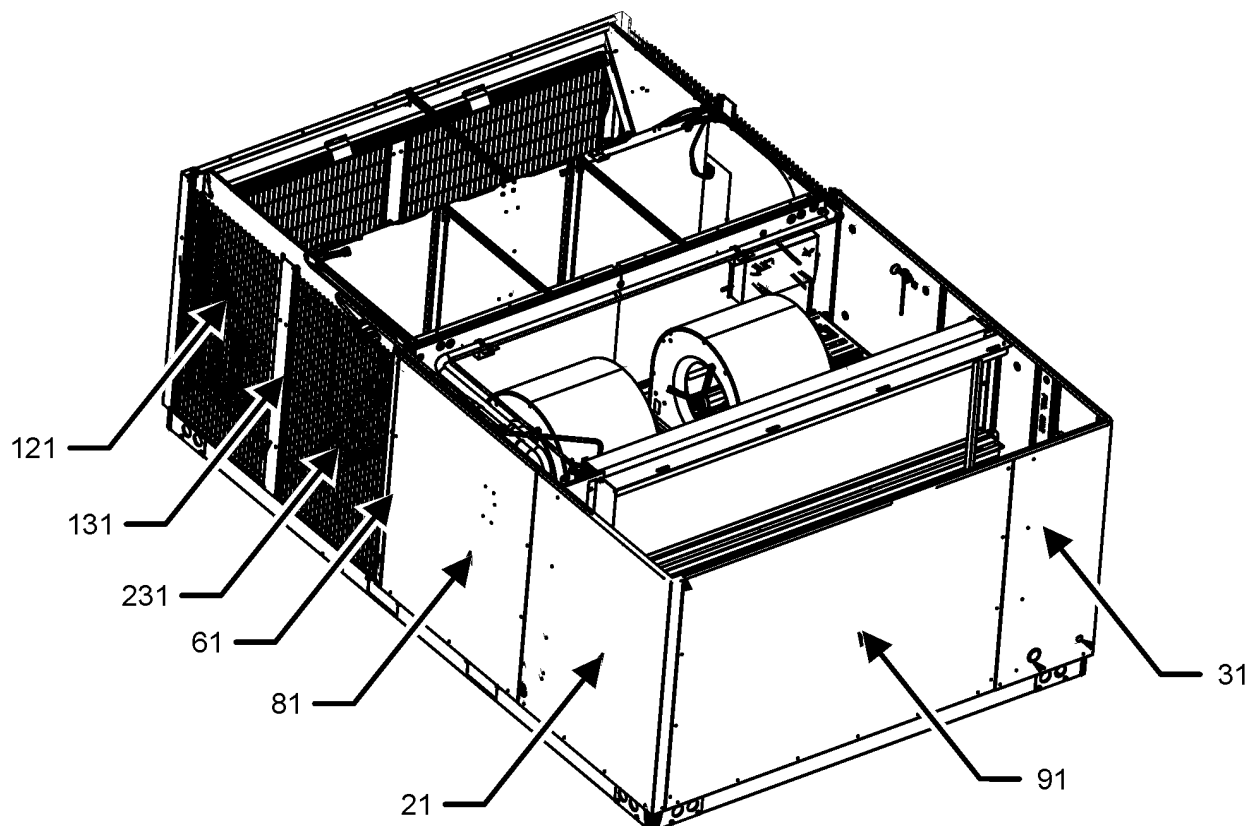
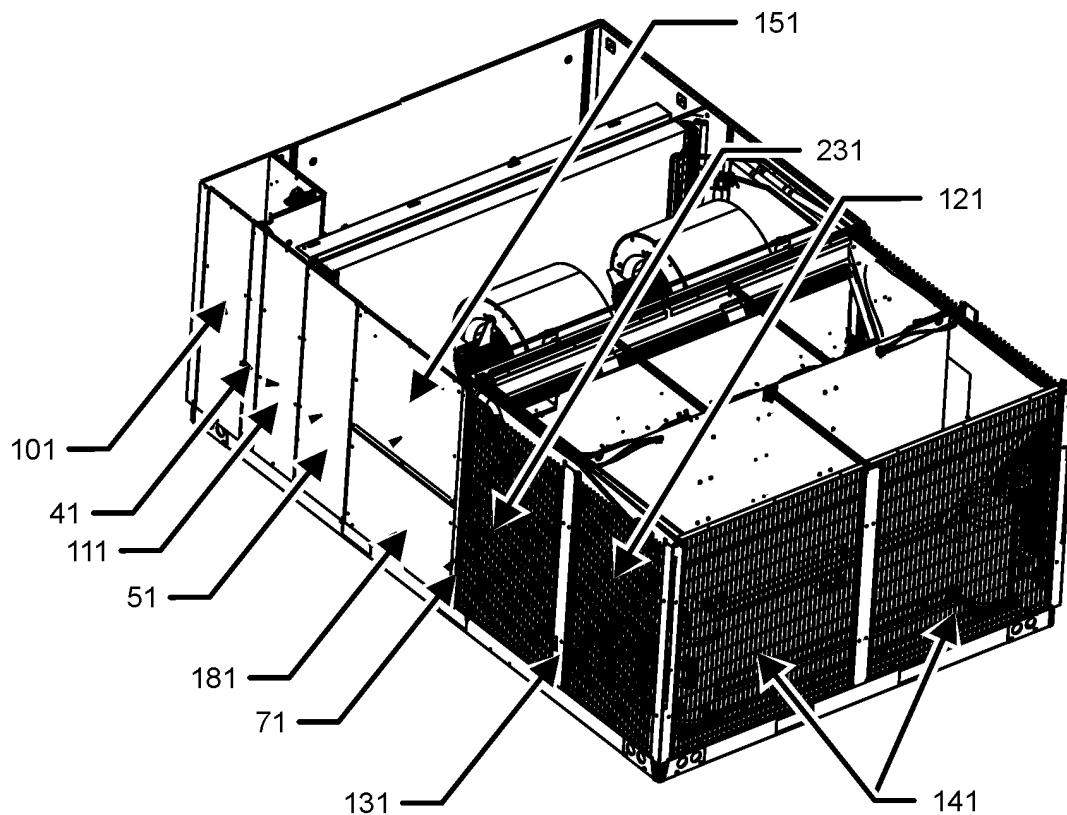
M1 - DSH2403D000001SAA

M2 - DSH2404D000001SAA

M3 - DSH2407D000001SAA

Cabinet Assembly

CABINET ASSEMBLY



CABINET ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Cabinet Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	0121L00681SB		PAINTED EVAP PANEL
31	0121L05536SB		PAINTED, PANEL CONTROL CORNER
41	0121L05535SB		PAINTED, POST CONTRO/FILTER
51	0121L05534SB		PAINTED, DOOR POST EVAP BLOWER
61	0121L04679SB		PAINTED POST PARTITION EVAP
71	0121L04681SB		PAINTED POST PARTITION GAS
81	0121L00685SB		PNT DOOR BLWR EVAP SIDE
91	0121L00688SB		PNT ACCESSORY PANEL
101	0121L05533SB		PAINTED, DOOR, CONTROL
111	0121L05532SB		PAINTED, DOOR, FILTER
121	0152L00022		GRILL CONDENSER (QTY 2)
131	0121L01144SB		POST COND PANEL PNT (QTY 2)
141	0152L00019		GRILL CONDENSER (QTY 2)
151	0121L05352SB		PAINTED, DOOR-BLOWER, GAS SIDE
181	0121L00708SB		PNT DOOR ELECTRIC HEAT
231	0152L00023		GRILL CONDENSER (QTY 2)
NS	0160L00136		AIR FILTER (QTY 8)
NS	0270L02482		ASSY., FILTER RACK
NS	B1392156		PLASTIC CAP 2 1/8
NS	0163M00097		SCREW WASHED (QTY 104)

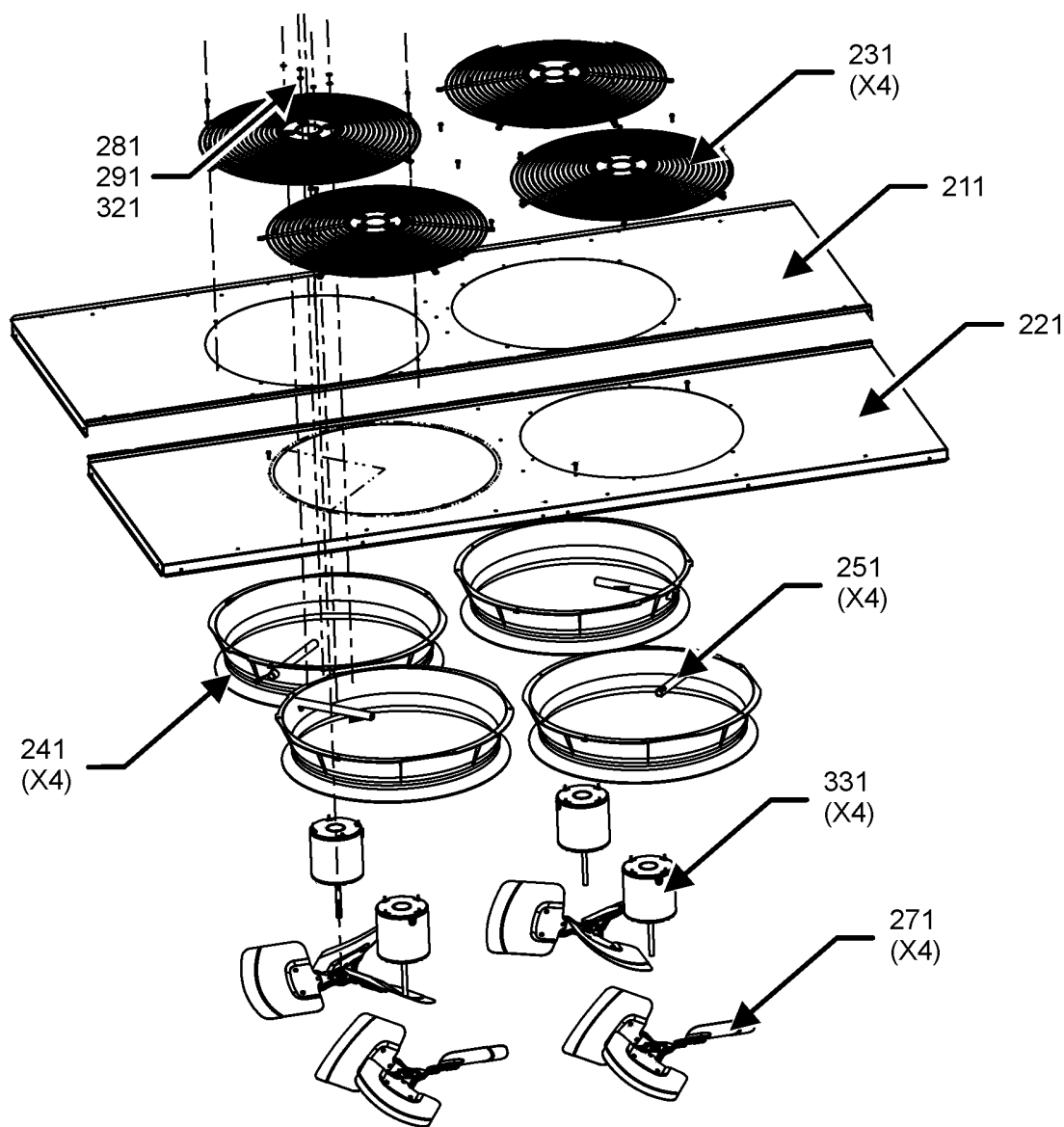
Expanded Model Nomenclature

M1 - DSH2403D000001SAA
M2 - DSH2404D000001SAA
M3 - DSH2407D000001SAA

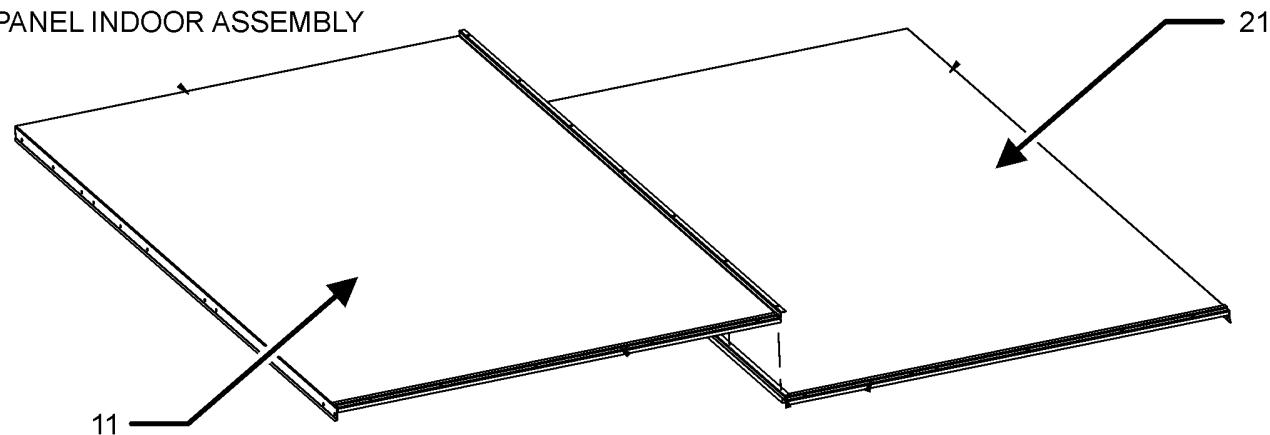
Top Panel Indoor/Outdoor Assembly

TOP PANEL ASSEMBLY

TOP PANEL OUTDOOR ASSEMBLY



TOP PANEL INDOOR ASSEMBLY



TOP PANEL ASSEMBLIES MAY DIFFER FROM WHAT IS SHOWN

Top Panel Indoor/Outdoor Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

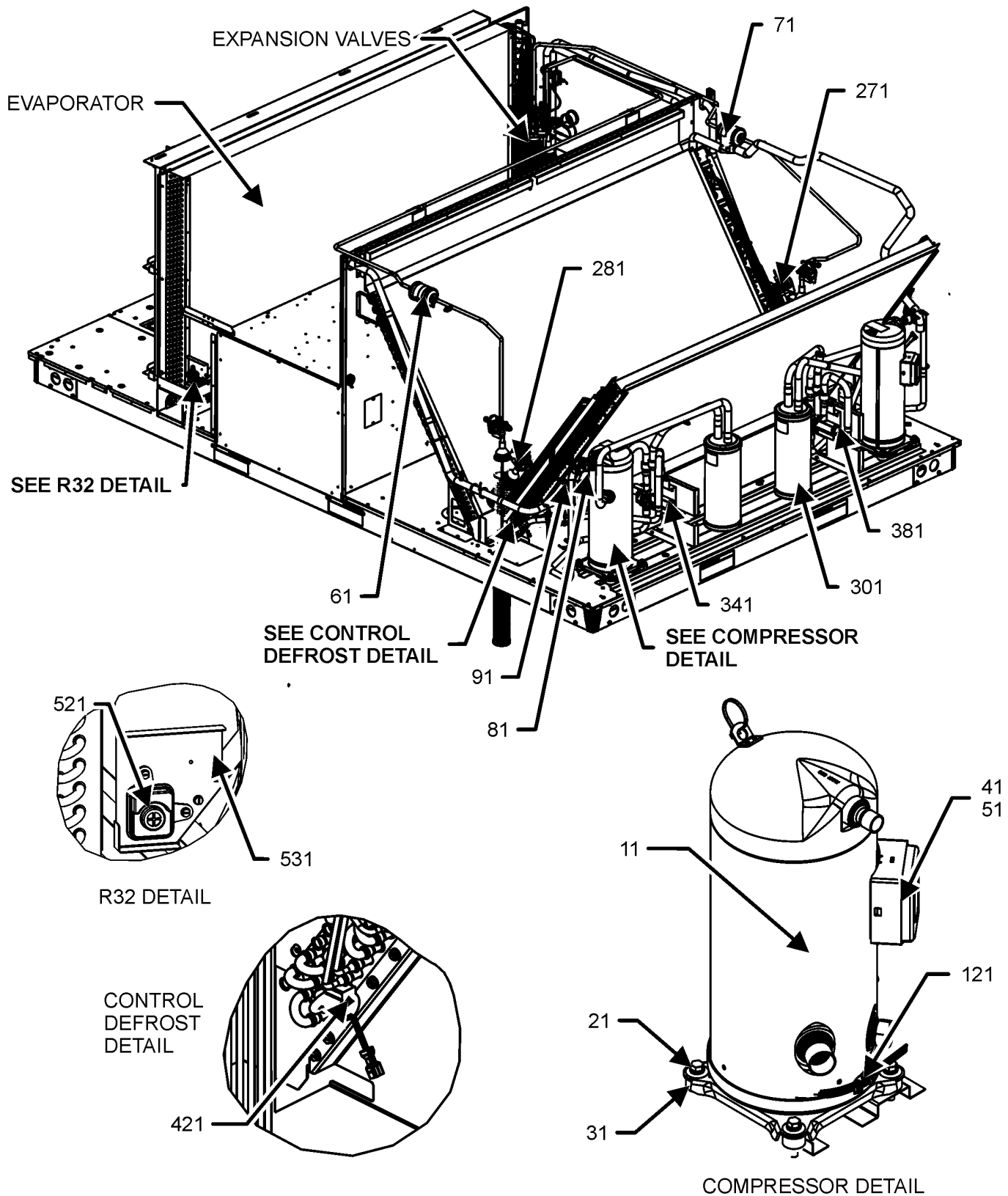
11	0121L00693SB	TOP CONTROL SIDE PNT
21	0121L00694SB	TOP PANEL ASSY PNT
211	0121L04969SB	PAINTED TOP PANEL FAN MOUNT
221	0121L06033SB	PAINTED TOP FAN
231	0152G00000	FAN GRILLE RAISED (QTY 4)
241	0161R00048	MOLDED RING VENTURI 22 (QTY 4)
251	0161R00124	CONDUIT (QTY 4)
271	0150M00065	FAN BLADE 22 (QTY 4)
281	0163M00006P	NUT ACORN 5/16 HEX BLACK (QTY 16)
291	0163M00005P	WASHER BLACK .50 OD .218ID (QTY 16)
321	M0272803	WASHER LOCK (QTY 8)
331	0131M00925	Nidec Motor, 1/2 HP (M1)
331	0131M00926	Nidec Motor, 1/2 HP (M2)
331	0131M00930	Nidec Motor, 1/2 HP (M3)

Expanded Model Nomenclature

M1 - DSH2403D000001SAA
M2 - DSH2404D000001SAA
M3 - DSH2407D000001SAA

Tubing Compressor Assembly

TUBING AND COMPRESSOR ASSEMBLY



TUBING AND COMPRESSOR ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Tubing Compressor Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

11	YP105K1TTF5ERZ	COMPRESSOR (M1)
11	YP105K1TTFDCRT	COMPRESSOR (M2)
11	YP105K1TTFECRT	COMPRESSOR (M3)
21	0164M00018	GROMMET COMPRESSOR (QTY 8)
31	B1393740	COMP BOLT SLEEVE (QTY 8)
41	0159L00166	HARNESS, COMPRESSOR SCROLL (M1)
41	0159L00147	HARNESS, SCROLL COMPRESSOR (M2, M3)
51	0159L00167	HARNESS, COMPRESSOR SCROLL (M1)
51	0159L00148	HARNESS, SCROLL COMPRESSOR (M2, M3)
61	0162L00177	FILTER DRIER BI-FLOW
71	0162L00177	FILTER DRIER BI-FLOW
81	0130M00733	SWITCH LOW PRESSURE (QTY 2)
91	0130M00730	SWITCH HIGH PRESSURE (QTY 2)
121	0130L00275	CRANK CASE HEATER, 70W, 575V (M3)
121	0130L00273	CRANK CASE HEATER-70W 240V (M1)
121	0130L00274	CRANK CASE HEATER-70W, 480V (M2)
271	0251L00290	EXPANSION VALVE ASSY. C2
281	0251L00289	EXPANSION VALVE ASSY. C1
301	0151R00303	ACCUMULATOR (QTY 2)
341	0151R00291	REVERSING VALVE, R-32
381	0151R00291	REVERSING VALVE, R-32
421	0130M00197	CONTROL DEFROST (QTY 2)
521	SER2A08012	SENSATA, R32 SENSOR
531	0121L05665	BRKT, SENSOR MOUNT
NS	B1373315	ACCESS FITTING (QTY 6)
NS	0121L05428	BLOCK OFF - EVAPORATOR
NS	0121L04512	BLOCK OFF EVAPORATOR
NS	0141L00029	BOARD FORK (QTY 2)
NS	0121L00724	BRACKET FORK BOARD (QTY 4)
NS	0151M00104	VALVE CORE (QTY 6)

Expanded Model Nomenclature

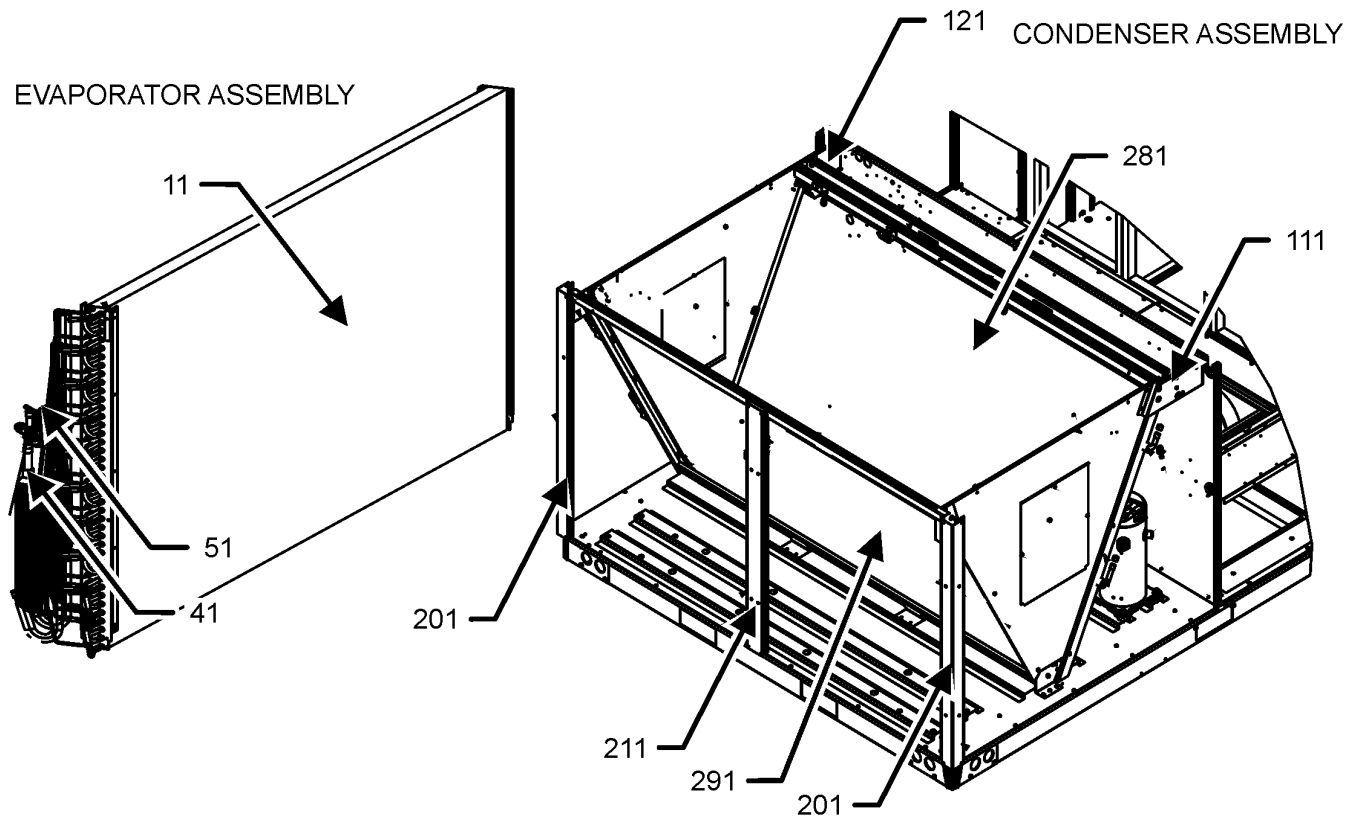
M1 - DSH2403D000001SAA

M2 - DSH2404D000001SAA

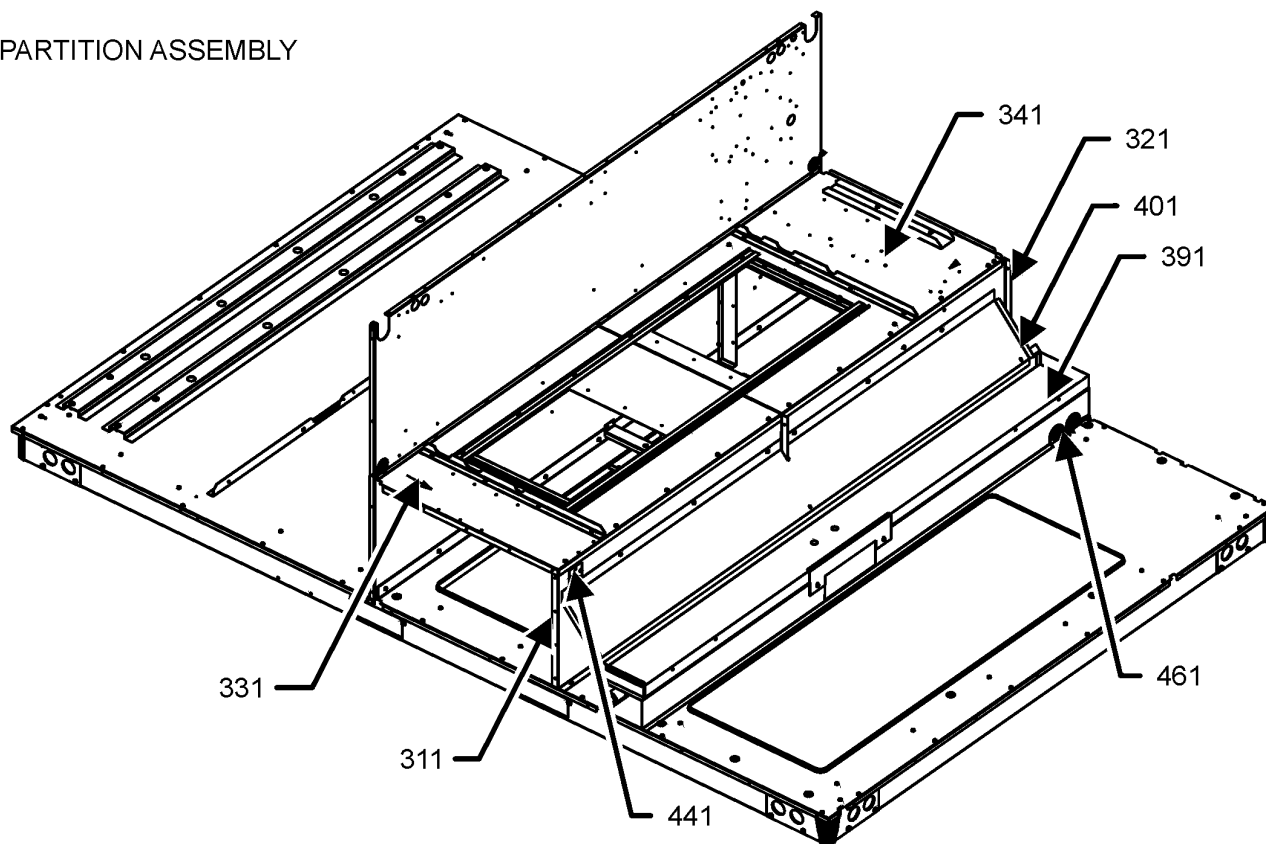
M3 - DSH2407D000001SAA

Partition, Evaporator, Condenser Assembly

PARTITION, EVAPORATOR, CONDENSER ASSEMBLY



PARTITION ASSEMBLY



PARTITION, EVAPORATOR, CONDENSER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Partition,Evaporator,Condenser Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0202L00767		EVAPORATOR COIL ASSEMBLY
41	0251L00285		EXPANSION VALVE ASSEMBLY C1
51	0251L00286		EXPANSION VALVE ASSEMBLY C2
111	0121L05949		BRACKET, COIL/PARTITION
121	0121L05950		BRACKET, COIL/PARTITION
201	0121L06042SB		PAINTED CORNER POST (QTY 2)
211	0121L01144SB		POST COND PANEL PNT (QTY 2)
281	0201L01075		CONDENSER COIL ASSY. C2 20TON
291	0201L01074		CONDENSER COIL ASSY. C1 20TON
311	0121L05236		DECK, SIDE DUCT END
321	0121L05351		DECK-SIDE, HEAT END
331	0121L05346		DECK, BLOWER EVAP SIDE
341	0121L05345		DECK, CONTROL BOX END
391	0270L02431DG		PAINTED DRAIN PAN WELDMENT
401	0121L05431		SHIELD, BLOWOFF
441	0121L00321		COVER SMOKE DETECTOR
461	0164G00004		GROMMET HORSESHOE 1.75 (QTY 3)
NS	0121L00593		COVER FLUW HOLE
NS	0163L00045		FITTING DRAIN EXT
NS	0121L04841		MOUNTING PLATE-ELECT HEAT
NS	0121L04881		SUPPORT-ELECTRIC HEAT

Expanded Model Nomenclature

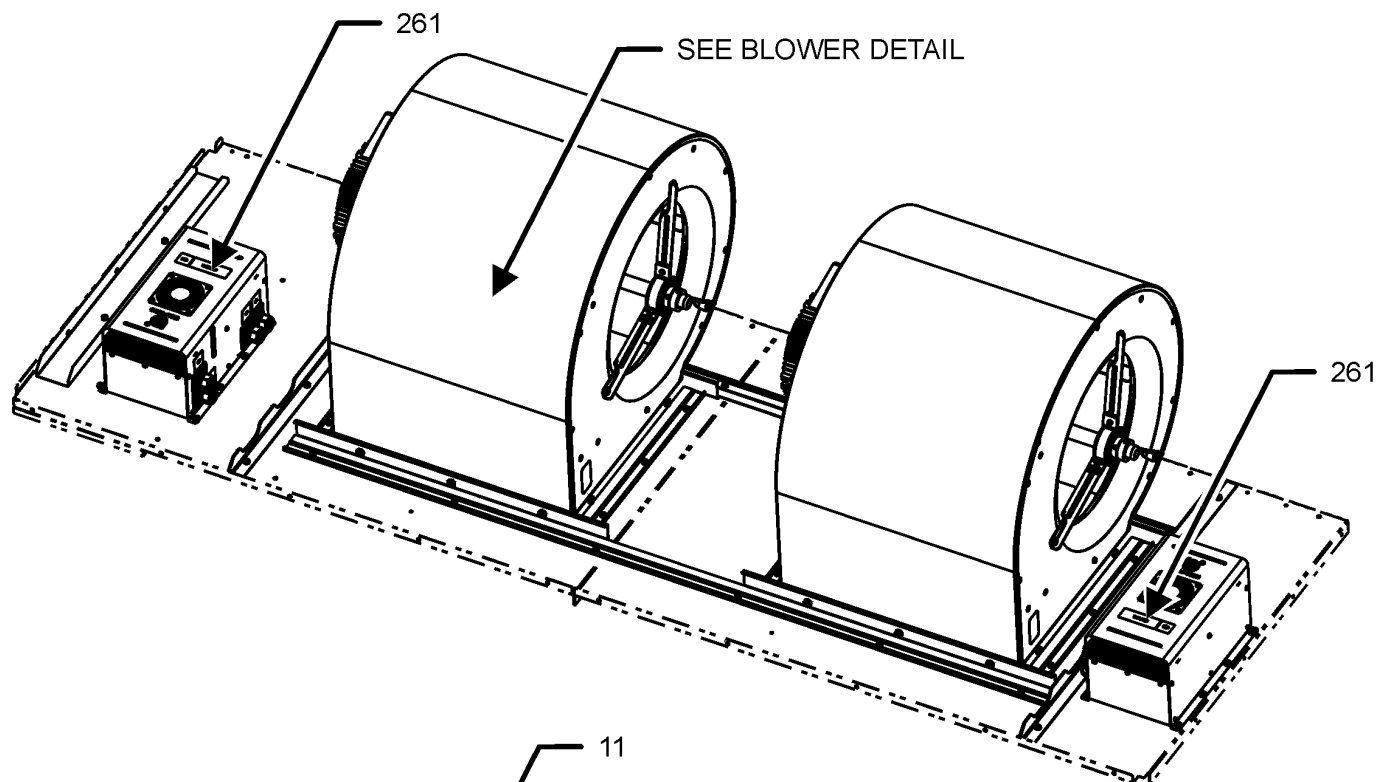
M1 - DSH2403D000001SAA

M2 - DSH2404D000001SAA

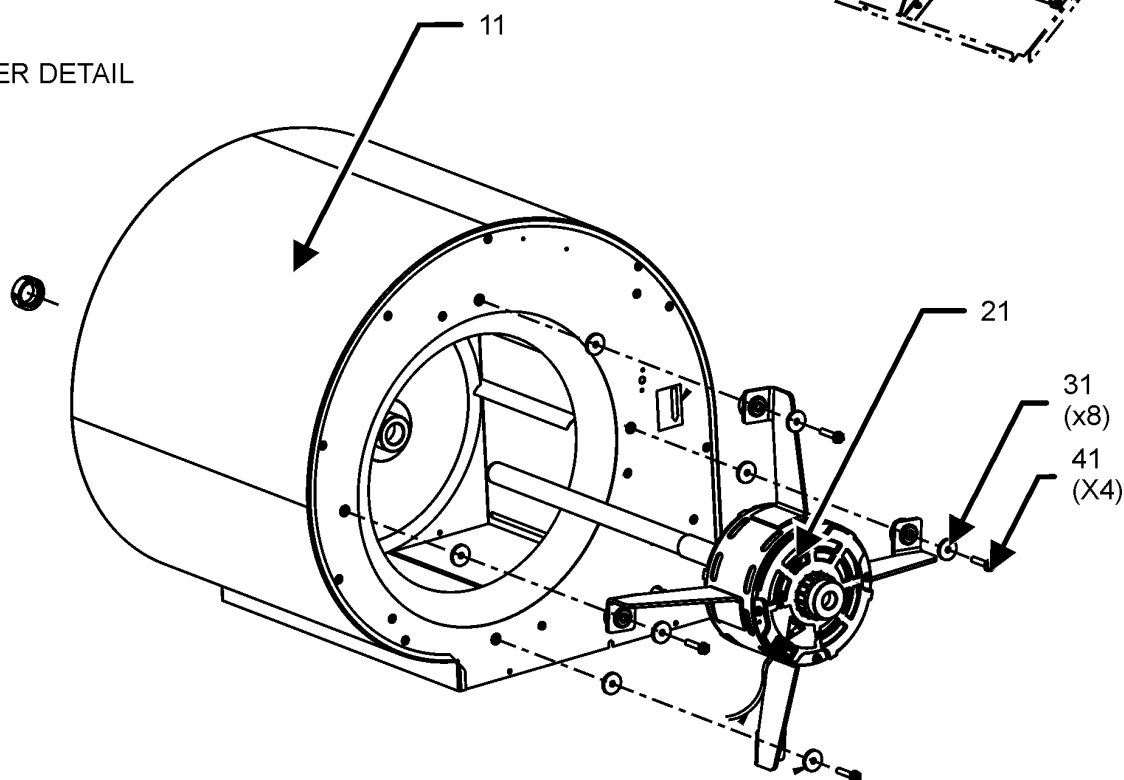
M3 - DSH2407D000001SAA

Blower Assembly

BLOWER ASSEMBLY



BLOWER DETAIL



BLOWER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Blower Assembly

Ref. Part			Ref. Part		
No:	No:	Description:	No:	No:	Description:
Image 1:					
11	0271L00385	BLOWER ASSEMBLY (QTY 4)			
21	0131L00122	MOTOR, BLOWER 208/230V (M1)			
21	0131L00124	MOTOR, BLOWER 460V (M2)			
21	0131L00125	MOTOR, BLOWER 575V (M3)			
31	B1392918	WASHER FLAT 1/4 IDX1OD (QTY 32)			
41	M0250565	SCREW TC 1.25 (QTY 16)			
261	0131L00765SA	230V PROGRAMMED MOTOR CONTROLLER (M1)			
261	0131L00765SB	460V PROGRAMMED MOTOR CONTROLLER (M2)			
261	0131L00765SC	575V PROGRAMMED MOTOR CONTROLLER (M3)			

Expanded Model Nomenclature

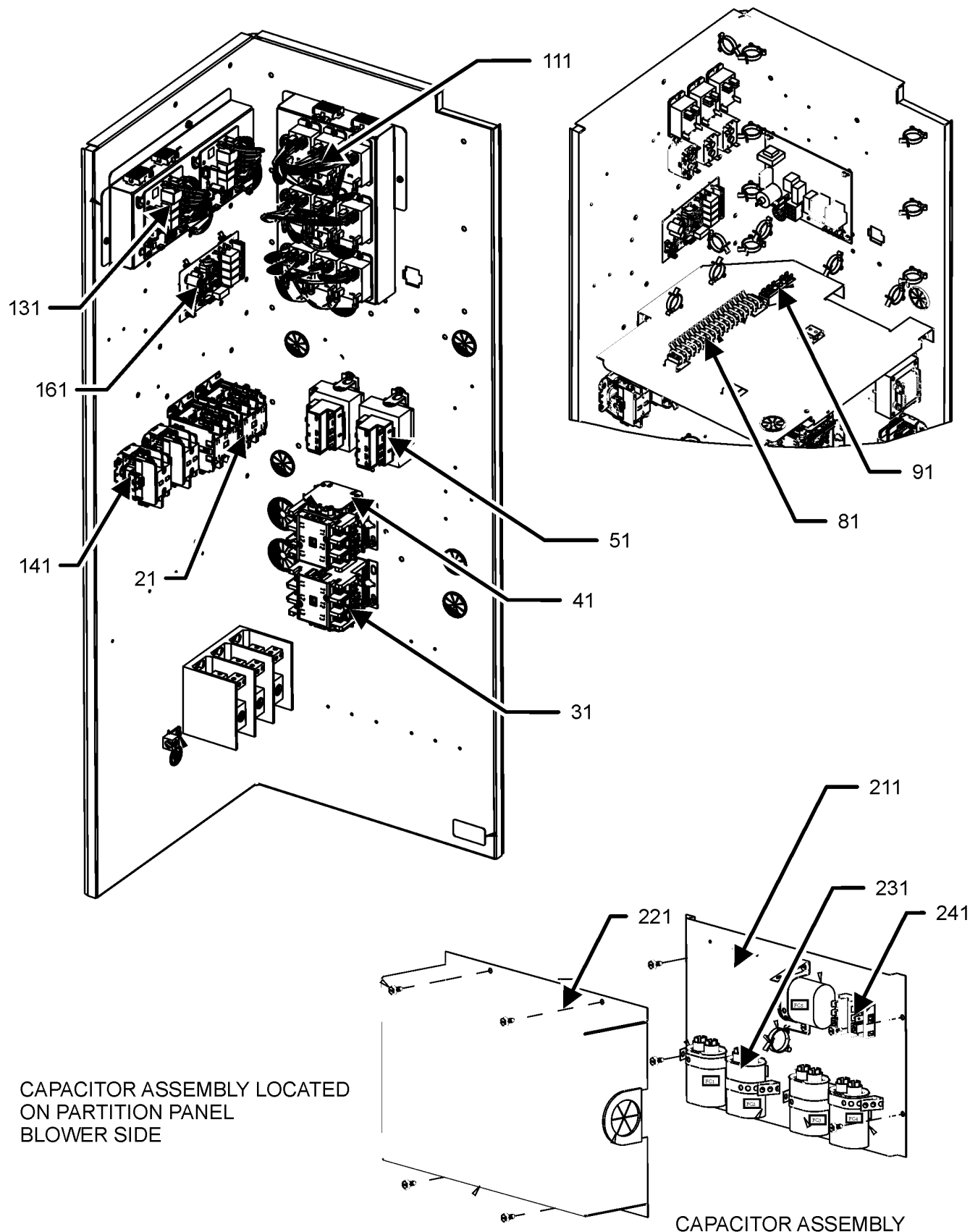
M1 - DSH2403D000001SAA

M2 - DSH2404D000001SAA

M3 - DSH2407D000001SAA

Control Box Assembly

CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Control Box Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

21	CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (QTY 2)
31	CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (M2, M3)
31	CONT3P050024D	CONT, 3 POLE, 50 AMP 24VAC (M1)
41	0130M00913	AUXILLARY SWITCH (QTY 2)
51	0130L00406	TRANSFORMER (M1)
51	0130M00858	TRANSFORMER (M2)
51	0130M00861	TRANSFORMER (M3)
81	0130M00038	TERMINAL BOARD
91	802007090	TERM BOARD
111	0130M00178	DPDT RELAY 24VAC (QTY 9)
131	PCBDM133	PCB DEFROST CONTROL (QTY 2)
141	CONT2P030024D	CONT, 2 POLE, 30 AMP, 24VAC (QTY 2)
161	PCBCM301V0001	PCB, CONTROL, AIR HANDLER
211	0121L04684	PLATE CAPACITOR
221	0121L04920	COVER, CAPACITOR
231	CAP100000440LA	CAP 10 MFD/440V/OVAL (M2, M3)
231	CAP100000370LA	CAP, 10 MFD/370V/OVAL (M1)
241	B1368250	TERMINAL BLOCK A-10KW
NS	0164G00004	GROMMET-HORSESHOE 1.75 (QTY 3)
NS	0130L00217	POWER BLOCK
NS	20520901	STRAP-CAPACITOR (QTY 4)
NS	B1392104	UNIVERSAL BUSHING UN 875

Expanded Model Nomenclature

M1 - DSH2403D000001SAA
M2 - DSH2404D000001SAA
M3 - DSH2407D000001SAA

ACCESSORY PARTS LIST

NOTE: NOT ALL OPTIONS AVAILABLE FOR ALL PRODUCTS

FOR ACCESSORY PARTS SEE THE FOLLOWING PART MANUAL

RP-FIOPL*
RP-EH[X,S]*L*

ACCESSORY PARTS

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

NS RP-EH[S,X]*L* ACCESSORY RP MANUAL

NS RP-FIOPL* ACCESSORY RP MANUAL

Expanded Model Nomenclature

M1 - DSH2403D000001SAA

M2 - DSH2404D000001SAA

M3 - DSH2407D000001SAA