



Specification Sheet



80% AFUE

Heating Capacity:
45,000–140,000 BTUH

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Lifetime Unit Replacement
on Heat Exchanger

10-Year Unit Replacement if Heat
Exchanger or Recuperative Coil Fails

5-Years: Parts



Asure
EXTENDED SERVICE PLAN



DMS8/DDS8/DHS8 Distinctions™

Gas Furnace

The Amana® Distinctions™ brand DMS8/DDS8/DHS8 Multi-Position, Single-Stage, Multi-Speed Gas Furnaces provide exceptional indoor comfort. With a single-stage gas valve, multi-speed circulator blower, these models provide comfort all season long. These quiet furnaces deliver a money-saving 80% AFUE.

Standard Features

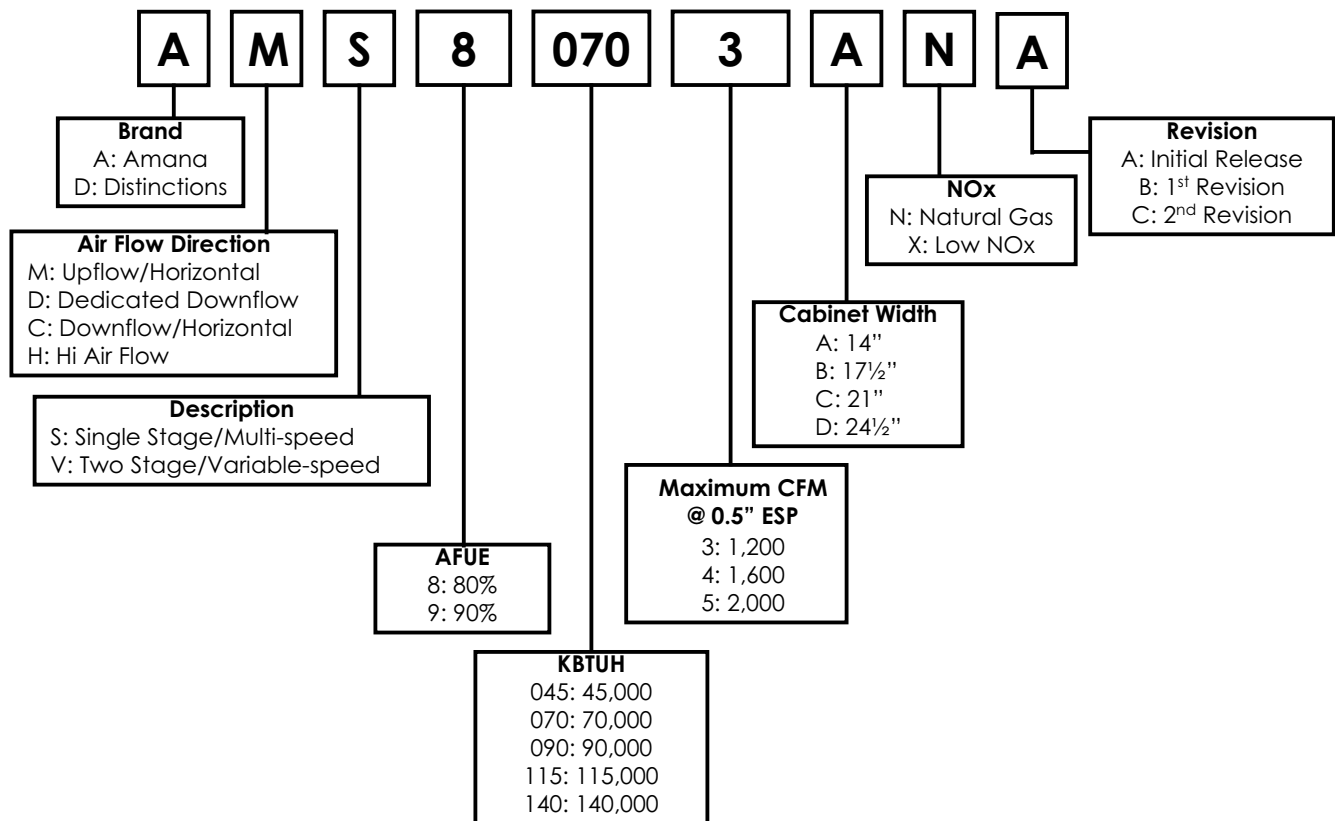
- Patented, aluminized-steel heat exchanger backed by a 20-year limited warranty
- Norton® mini-igniter with patented, adaptive technology
- Integrated furnace control with improved diagnostics
- Designed for multi-position installation:
DMS8 – upflow, horizontal right or left; DDS8 – dedicated downflow; DHS8 – high airflow, upflow, horizontal right or left
- 40VA transformer for heating and air conditioning control service
- Rotating combustion air blower (DMS8 and DHS8)
- Venting through the top, right, or left sides
- Terminals for electronic air cleaner and humidifier
- Convertible to propane gas
- Completely assembled, factory run-tested for heating or combination heating/cooling application
- Certified for Category I venting
- Convenient left or right connection for gas and electric service
- Some models comply with California NOx Standards

Cabinet Features

- Convertible to propane gas
- High-quality, post-painted steel cabinet resists rust and corrosion
- False bottom (DMS8 and DHS8) allows easy access

Specification Sheet

Nomenclature



Performance Ratings

Model	Natural Gas Input ¹ BTUH	Output Heating Capacity BTUH		AFUE ²	Tons AC @ 0.5" ESP ³	Temperature Rise Range (° F)
		Natural	LP			
DMS80453ANA	45,000	36,000	32,000	80.0	3.0	25 - 55
DMS80703ANA	70,000	56,000	48,000	80.0	3.0	25 - 55
DMS80704BNA	70,000	56,000	48,000	80.0	4.0	20 - 50
DMS80904BNA	90,000	72,000	64,000	80.0	4.0	35 - 65
DMS80905CNA	90,000	72,000	64,000	80.0	5.0	35 - 65
DMS81155CNA	115,000	92,000	80,000	80.0	5.0	35 - 65
DMS81405DNA	140,000	112,000	96,000	80.0	5.0	40 - 70
DDS80453AXA	45,000	36,000	32,000	80.0	3.0	20 - 50
DDS80703AXA	70,000	56,000	48,000	80.0	3.0	25 - 55
DDS80904BXA	90,000	72,000	64,000	80.0	4.0	35 - 65
DDS81155CXA	115,000	92,000	80,000	80.0	5.0	35 - 65
DHS80453AXA	45,000	36,000	32,000	80.0	3.0	15 - 45
DHS80704BXA	70,000	56,000	48,000	80.0	4.0	20 - 50
DHS80905CXA	90,000	72,000	64,000	80.0	5.0	35 - 65

¹ For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level.

² DOE AFUE based upon Isolated Combustion System (ICS).

³ DHS models rated at 0.8" water column ESP

Specifications

Model	Circulator Blower			Vent Diameter	No. of Burners	Filter Size (in ²)		Minimum Circuit Ampacity ¹ (amps)	Maximum Overcurrent Protection ² (amps)	Ship Weight (lbs)
	Size (D x W)	HP	Speed			Permanent	Disposable			
DMS80453ANA	10" x 6"	1/3	4	4"	2	290	580	8.1	15	120
DMS80703ANA	10" x 6"	1/3	4	4"	3	290	580	8.1	15	130
DMS80704BNA	10" x 8"	1/2	4	4"	3	385	770	12.5	15	143
DMS80904BNA	10" x 8"	1/2	4	4"	4	385	770	12.5	15	153
DMS80905CNA	10" x 10"	1/2	4	4"	4	480	960	12.5	15	163
DMS81155CNA	10" x 10"	1/2	4	4"	5	480	960	12.5	15	163
DMS81405DNA	10" x 10"	3/4	4	4"	6	480	960	11.8	15	183
DDS80453AXA	10" x 6"	1/3	4	4"	2	290	580	8.1	15	120
DDS80703AXA	10" x 6"	1/3	4	4"	3	290	580	8.1	15	130
DDS80904BXA	10" x 8"	1/2	4	4"	4	385	770	12.5	15	153
DDS81155CXA	10" x 10"	1/2	4	4"	5	480	960	12.5	15	163
DHS80453AXA	10" x 6"	1/2	4	4"	2	290	580	12.5	15	120
DHS80704BXA	10" x 8"	3/4	3	4"	3	385	770	11.8	15	130
DHS80905CXA	11" x 10"	3/4	3	4"	4	480	960	11.8	15	153

¹ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps.

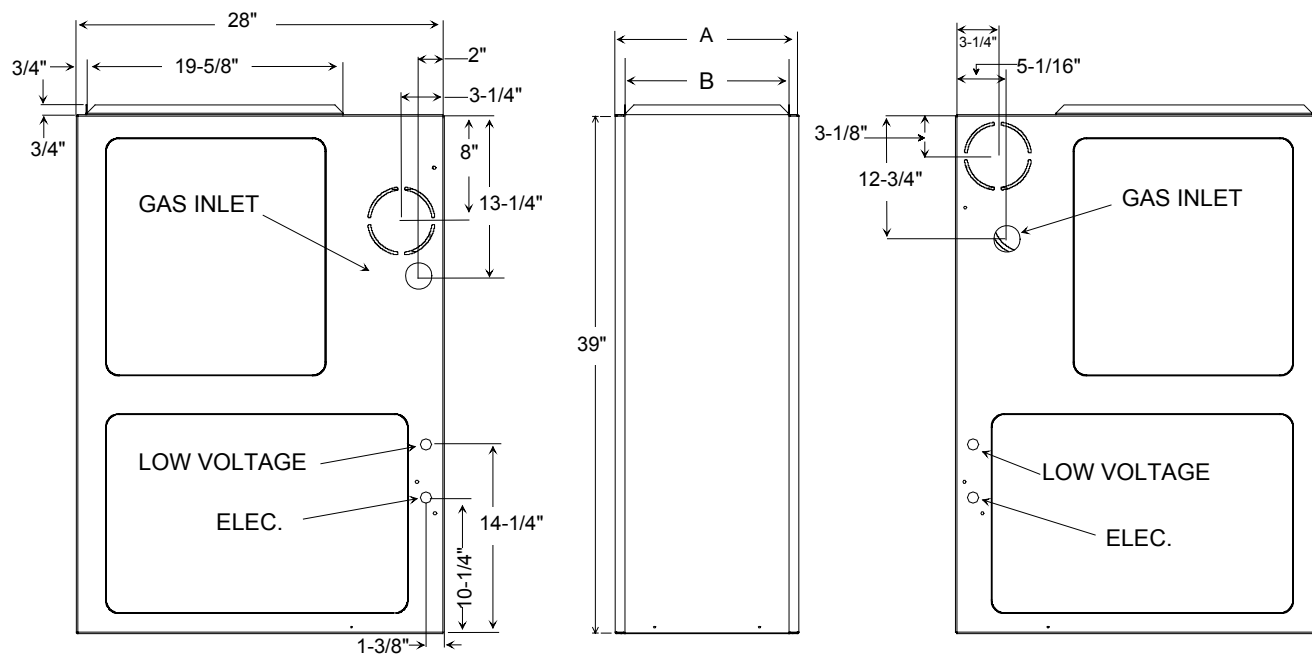
² Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.

NOTES:

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single phase electrical supply.
- Gas Service Connection ½" FPT
- Important: It is required to size overcurrent protection device and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

Specification Sheet

DMS8/DHS8 Dimensions



Model	A	B
DMS80453ANA DMS80703ANA DHS80453AXA	14"	12½"
DMS80704BNA DMS80904BNA DHS80704BXA	17½"	16"
DMS80905CNA DMS81155CNA DHS80905CXA	21"	19½"
DMS81405DNA	24½"	23"

Minimum Clearances to Combustible Materials

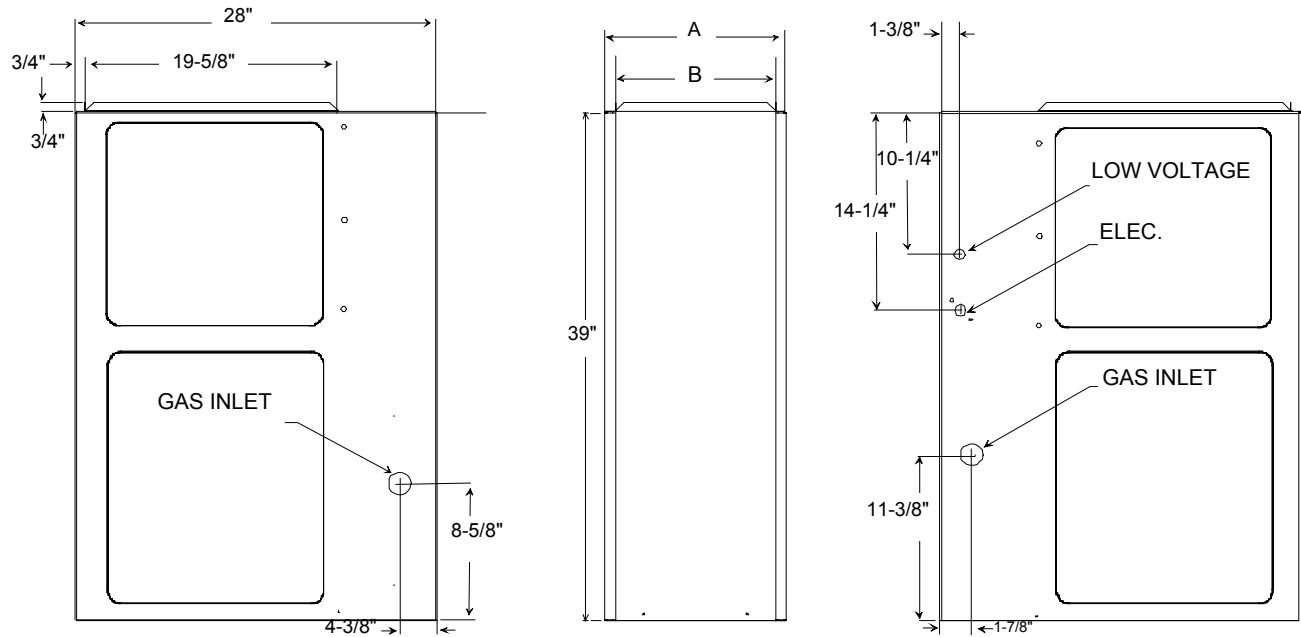
Sides	Rear	Front ¹	Vent ²		Top
			SW	B	
1"	0"	3"	6"	1"	1"

NOTE: DMS8 and DHS8 models approved for line contact in the horizontal position.

¹ 36" clearance for serviceability recommended.

² Single Wall Vent (SW) to be used only as a connector. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

DDS8 Dimensions



Model	A	B
DDS80453AXA	14"	12½"
DDS80703AXA	14"	12½"
DDS80904BXA	17½"	16"
DDS81155CXA	21"	19½"

Minimum Clearances to Combustible Materials

Sides	Rear	Front ¹	Vent ²		Top
			SW	B	
1"	0"	3"	6"	1"	1"

¹ 36" clearance for serviceability recommended.

² Single Wall Vent (SW) to be used only as a connector. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

Specification Sheet

Blower Performance Specifications

Model (Heating Speed As Shipped)	Motor Speed	Tons AC @ 0.5” ESP	CFM & Temperature Rise vs. External Static Pressure (In. W.C.)												
			0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	CFM	CFM
DMS80453ANA (MED-LO)	HIGH	3.0	1,555	-----	1,511	-----	1,459	-----	1,392	-----	1,344	25	1,279	1,201	1,120
	MED	2.5	1,165	28	1,123	30	1,100	30	1,090	30	1,048	32	1,017	970	903
	MED-LO	2.0	927	36	907	37	889	37	863	38	853	39	822	800	746
	LOW	1.5	699	47	694	48	668	50	645	51	636	52	592	566	524
DMS80703ANA (HIGH)	HIGH	3.0	1,437	36	1,310	39	1,295	40	1,310	39	1,273	41	1,202	1,129	1,039
	MED	2.5	1,127	46	1,100	47	1,095	47	1,075	48	1,050	49	1,018	967	904
	MED-LO	2.0	895	-----	917	-----	878	-----	867	-----	853	-----	830	786	743
	LOW	1.5	694	-----	681	-----	663	-----	640	-----	625	-----	591	562	522
DMS80704BNA (MED-LO)	HIGH	4.0	2,234	23	2,151	24	2,076	25	1,990	26	1,897	27	1,803	1,710	1,569
	MED	3.5	1,676	31	1,653	31	1,648	31	1,581	33	1,555	33	1,492	1,414	1,352
	MED-LO	3.0	1,342	38	1,335	39	1,321	39	1,313	39	1,291	40	1,261	1,215	1,149
	LOW	2.5	1,089	47	1,085	48	1,078	48	1,071	48	1,057	49	1,040	986	932
DMS80904BNA* (MED-LO)	HIGH	4.0	2,182	-----	2,127	31	2,056	32	1,974	33	1,895	35	1,809	1,715	1,588
	MED	3.5	1,645	40	1,628	40	1,615	40	1,597	41	1,541	43	1,491	1,440	1,350
	MED-LO	3.0	1,320	49	1,305	49	1,310	49	1,310	50	1,295	51	1,267	1,217	1,139
	LOW	2.5	1,063	60	1,061	60	1,057	61	1,056	61	1,039	61	1,025	1,005	948
DMS80905CNA* (MED-LO)	HIGH	5.0	2,334	-----	2,334	-----	2,284	-----	2,135	-----	2,051	35	1,910	1,748	1,605
	MED	4.0	1,754	39	1,735	39	1,728	40	1,685	40	1,628	42	1,551	1,469	1,346
	MED-LO	3.5	1,367	47	1,380	47	1,371	47	1,374	48	1,335	50	1,293	1,246	1,165
	LOW	3.0	1,098	58	1,109	59	1,109	59	1,088	60	1,066	62	1,050	998	916
DMS81155CNA (MED)	HIGH	5.0	2,481	-----	2,395	35	2,288	37	2,217	38	2,076	41	1,999	1,858	1,732
	MED	4.0	1,738	49	1,732	49	1,709	50	1,686	50	1,639	52	1,585	1,492	1,385
	MED-LO	3.5	1,364	62	1,378	62	1,372	62	1,372	62	1,350	63	1,313	1,261	1,125
	LOW	3.0	1,137	-----	1,142	-----	1,140	-----	1,114	-----	1,090	-----	1,056	954	860
DMS81405DNA (MED)	HIGH	5.0	2,554	41	2,435	43	2,375	44	2,240	47	2,152	49	2,002	1,883	1,744
	MED	4.0	1,846	57	1,773	59	1,762	60	1,712	61	1,672	63	1,583	1,526	1,442
	MED-LO	3.5	1,520	69	1,500	70	1,483	-----	1,470	-----	1,435	-----	1,373	1,308	1,245
	LOW	3.0	1,301	-----	1,274	-----	1,260	-----	1,231	-----	1,207	-----	1,177	1,093	931
DDS80453AXA (MED-LO)	HIGH	3.0	1,435	-----	1,421	-----	1,380	-----	1,322	25	1,262	26	1,200	1,144	1,064
	MED	2.5	1,140	29	1,114	30	1,084	31	1,063	31	1,039	32	1,002	943	897
	MED-LO	2.0	899	37	889	37	875	38	871	38	857	39	821	780	745
	LOW	1.5	691	48	674	49	665	50	651	51	637	52	618	562	525
DDS80703AXA (MED)	HIGH	3.0	1,406	37	1,393	37	1,379	37	1,307	39	1,262	41	1,208	1,145	1,070
	MED	2.5	1,153	45	1,101	47	1,077	48	1,039	50	1,028	50	987	947	885
	MED-LO	2.0	890	58	896	58	873	59	862	60	834	-----	798	771	727
	LOW	1.5	690	-----	682	-----	664	-----	631	-----	616	-----	583	549	509
DDS80904BXA (MED-LO)	HIGH	4.0	2,007	-----	1,993	-----	1,975	-----	1,940	-----	1,844	36	1,770	1,668	1,559
	MED	3.5	1,612	41	1,606	41	1,570	42	1,533	43	1,501	44	1,448	1,373	1,301
	MED-LO	3.0	1,325	50	1,299	51	1,280	52	1,244	53	1,222	54	1,186	1,140	1,079
	LOW	2.5	1,043	64	1,040	64	1,032	64	1,002	-----	981	-----	955	915	869
DDS81155CXA (MED)	HIGH	5.0	2,381	-----	2,312	-----	2,312	-----	2,219	-----	2,134	40	2,024	1,930	1,839
	MED	4.0	1,801	47	1,667	51	1,667	51	1,638	52	1,613	53	1,513	1,441	1,369
	MED-LO	3.5	969	-----	1,062	-----	1,140	-----	1,223	69	1,269	67	1,292	1,322	1,358
	LOW	3.0	1,100	-----	1,094	-----	1,060	-----	1,031	-----	1,001	-----	953	937	874

NOTES:

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer.
- All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on the rating plate. The shaded area indicates ranges in excess of maximum static pressure allowed when heating.
- The dashed (---) areas indicate a temperature rise not recommended for this model.
- The above chart is for U.S. furnaces installed at 0' - 2,000'. At higher altitudes, a properly de-rated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

Blower Performance Specifications (cont.)

Model (Heating Speed As Shipped)	Motor Speed	Tons AC @ 0.5" ESP	CFM & Temperature Rise vs. External Static Pressure (In. W.C.)															
			0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
DHS80453AXA (LO)	HIGH	3.0	1,654	---	1,647	---	1,605	---	1,537	---	1,499	---	1,493	---	1,406	---	1,307	25
	MED	2.5	1,489	---	1,463	---	1,456	---	1,416	---	1,403	---	1,346	25	1,271	26	1,185	28
	MED-LO	2.0	1,349	25	1,282	26	1,246	27	1,235	27	1,218	27	1,187	28	1,128	29	1,051	32
	LOW	1.5	1,088	30	1,086	31	1,082	31	1,069	31	1,045	32	1,013	33	968	34	908	37
DHS80704BXA (MED)	HIGH	4.0	2,119	24	2,042	25	1,945	27	1,861	28	1,773	29	1,699	30	1,561	33	1,455	35
	MED	3.5	1,754	29	1,680	31	1,641	31	1,561	33	1,519	34	1,410	37	1,291	40	1,215	42
	LOW	3.0	1,316	39	1,291	40	1,241	42	1,215	42	1,160	44	1,104	47	1,013	51	877	59
DHS80905CXA (MED)	HIGH	5.0	2,402	---	2,321	---	2,265	---	2,193	---	2,134	---	2,057	---	1,962	---	1,895	35
	MED	4.0	1,754	38	1,718	39	1,661	40	1,622	41	1,581	42	1,519	44	1,433	46	1,387	48
	LOW	3.5	1,266	52	1,234	54	1,177	56	1,143	58	1,071	62	1,024	65	964	---	878	---

NOTES:

1. CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two returns, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on the rating plate. The shaded area indicates ranges in excess of maximum static pressure allowed when heating.
6. The dashed (---) areas indicate a temperature rise not recommended for this model.
7. The above chart is for U.S. furnaces installed at 0' - 2,000'. At higher altitudes, a properly de-rated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

Specification Sheet

Accessories

Model	Description	DMS80453ANA	DMS80703ANA	DMS80704BNA	DMS80904BNA	DMS80905CNA	DMS81155CNA	DMS81405DNA	DDS80453AXA	DDS80703AXA	DDS80904BXA	DDS81155CXA	DHS80453AXA	DHS80704BXA	DHS80905CXA
LPT-00A	Propane (L.P.) Conversion Kit	√	√	√	√	√	√	√	√	√	√	√	√	√	√
HA02	High Altitude Natural Gas Kit	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FFK03A	Fossil Fuel Kit	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SBT14	Downflow Subbase for 14" Furnace								√	√					
SBT17	Downflow Subbase for 17½" Furnace										√				
SBT21	Downflow Subbase for 21" Furnace											√			

Thermostats

Model	Description	Color/Shape
1213401	Programmable, Manual Changeover, 1 Heat/1 Cool, Battery Powered/ No Battery Back-up	White/Rectangular
1213402	Non-Programmable, Manual Changeover, 1 Heat/1 Cool, Battery Powered/ No Battery Back-up	White/Rectangular
1213701	Programmable, Automatic Changeover, 1 Heat/1 Cool, Electric Powered/ Battery Back-up	White/Rectangular
	Non-Programmable, Manual Changeover, 1 Heat/1 Cool, Electric Powered/ No Battery Back-up	Gold/Round



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