

Amana[®]

Heating & Air Conditioning
LASTS AND LASTS AND LASTS.[™]

PRODUCT SPECIFICATIONS



80% AFUE

**HEATING CAPACITY:
45,000-140,000 BTU/H**



AMS8 / ADS8

GAS FURNACES

The Amana[®] brand AMS8/ADS8 Single-Stage, Multi-Speed Gas Furnaces provide exceptional indoor comfort. With their variable-speed circulator blower, the AMS8/ADS8 provide comfort all season long. These quiet furnaces deliver a money-saving 80% AFUE.

Standard Features

- Patented, heavy-duty Million-Air[™] stainless-steel heat exchanger and recuperative coil for maximum efficiency*
- Designed for multi-position installation—AMS95: upflow, horizontal right or left; ACS9: downflow, horizontal right or left
- Energy-saving, reliable next-generation SureStart[™] silicon nitride hot surface ignition system*
- Energy-saving PSC, multi-speed, direct-drive blower motor
- Quiet, corrosion-resistant induced draft blower
- Integrated furnace control with diagnostics
- Low-voltage terminal blocks
- Combination redundant gas valve and regulator
- Rotating combustion air blower that allows venting the furnace through the top, right, or left sides
- Foil-face insulation lines the heat exchanger compartment
- Coil and furnace fit flush for easy installation
- Convenient left or right connection for gas and electric service
- Completely assembled, factory run-tested for heating or combination heating/cooling application
- Specific models comply with California NOx Standards

MILLION-AIR
STAINLESS-STEEL
HEAT EXCHANGER

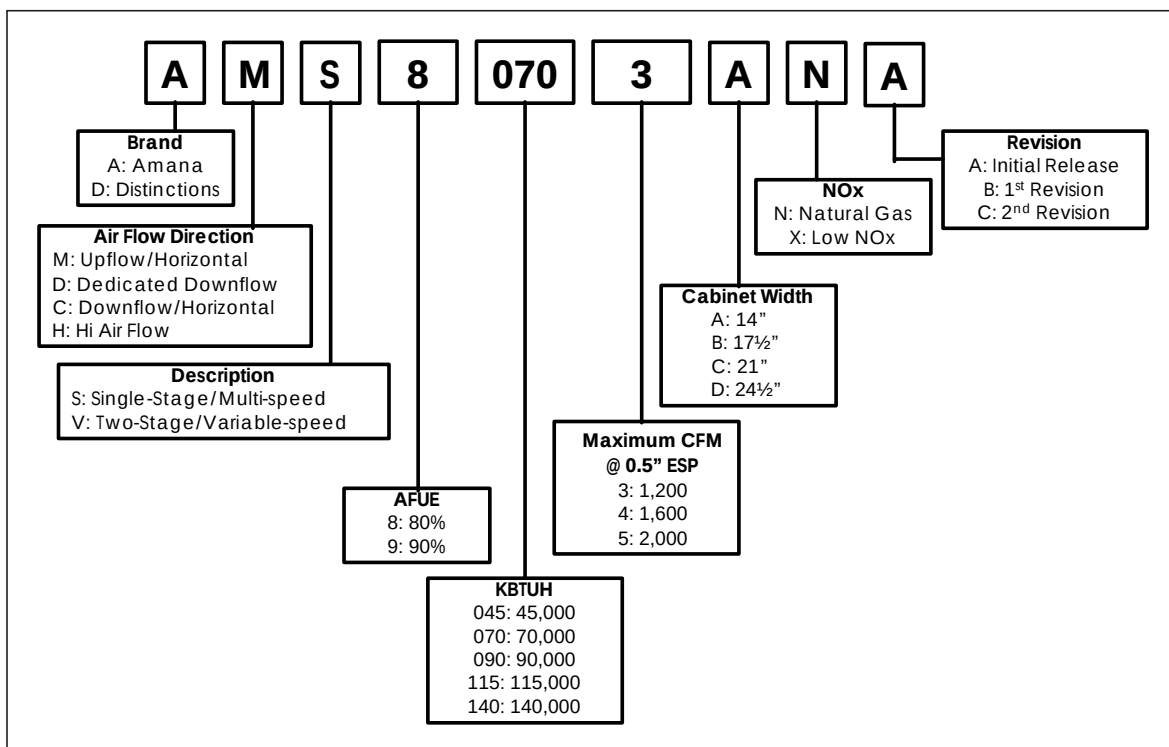
SureStart
SILICON NITRIDE IGNITER

Cabinet Features

- Heavy-gauge, reinforced, fully insulated steel cabinet with durable baked-enamel finish
- Attractive, two-tone gray finish
- Coil and furnace fit flush for easy installation
- Bottom or side air inlet (AMS8)
- Removable, solid bottom (AMS8)

SPECIFICATION SHEET

NOMENCLATURE



PERFORMANCE RATINGS

Model	Natural Gas Input ¹ (BTU/h)	Heating Capacity (BTU/h)		DOE ² AFUE	Tons AC @ 0.5" ESP	Temperature Rise Range (°F)
		Natural	LP			
AMS80453ANA*	45,000	36,000	32,000	80.0	3.0	25 - 55
AMS80703ANA	70,000	56,000	48,000	80.0	3.0	25 - 55
AMS80704BNA*	70,000	56,000	48,000	80.0	4.0	20 - 50
AMS80903BNA*	90,000	72,000	64,000	80.0	3.0	30 - 60
AMS80904BNA	90,000	72,000	64,000	80.0	4.0	35 - 65
AMS80905CNA*	90,000	72,000	64,000	80.0	5.0	35 - 65
AMS81155CNA*	115,000	92,000	80,000	80.0	5.0	35 - 65
AMS81405DNA*	140,000	112,000	96,000	80.0	5.0	40 - 70
ADS80453ANA	45,000	36,000	32,000	80.0	3.0	20 - 50
AMD80703ANA*	70,000	56,000	48,000	80.0	3.0	30 - 60
ADS80904BNA*	90,000	72,000	64,000	80.0	4.0	35 - 65
ADS81155CNA*	115,000	92,000	80,000	80.0	5.0	40 - 70

* Low NOx model available.

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).

SPECIFICATIONS

Model	Circulator Blower			Vent Diameter ¹	No. of Burners	Filter Size (in ²)		MCA ² (amps)	MOD ³ (amps)	Ship Weight (lbs)
	Size (D x W)	HP	Speed			Perma- nent	Dispos- able			
AMS80453ANA*	10" x 6"	1/3	4	4"	2	290	580	8.1	15	120
AMS80703ANA	10" x 6"	1/3	4	4"	3	290	580	8.1	15	130
AMS80704BNA*	10" x 8"	1/2	4	4"	3	385	770	12.5	15	143
AMS80903BNA*	10" x 8"	1/3	4	4"	4	290	580	8.1	15	153
AMS80904BNA	10" x 8"	1/2	4	4"	4	385	770	12.5	15	153
AMS80905CNA*	10" x 10"	1/2	4	4"	4	480	960	12.5	15	163
AMS81155CNA*	10" x 10"	1/2	4	4"	5	480	960	12.5	15	163
AMS81405DNA*	10" x 10"	3/4	4	4"	6	480	960	14.7	15	183
ADS80453ANA	10" x 6"	1/3	4	4"	2	290	580	8.1	15	120
AMD80703ANA*	10" x 6"	1/3	4	4"	3	290	580	8.1	15	130
ADS80904BNA*	10" x 8"	1/2	4	4"	4	385	770	12.5	15	153
ADS81155CNA*	10" x 10"	1/2	4	4"	5	480	960	12.5	15	175

* Low NOx model available.

¹ Vent and combustion air diameters may vary depending upon vent length. Refer to the latest US and Canadian codes:

In the USA: the National Fuel Gas Code NFPA 54/ ANSI Z223.1

In Canada: the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2

² Minimum Circuit Ampacity (MCA) = (1.25 x Circulator Blower Amps) + ID Blower amps.

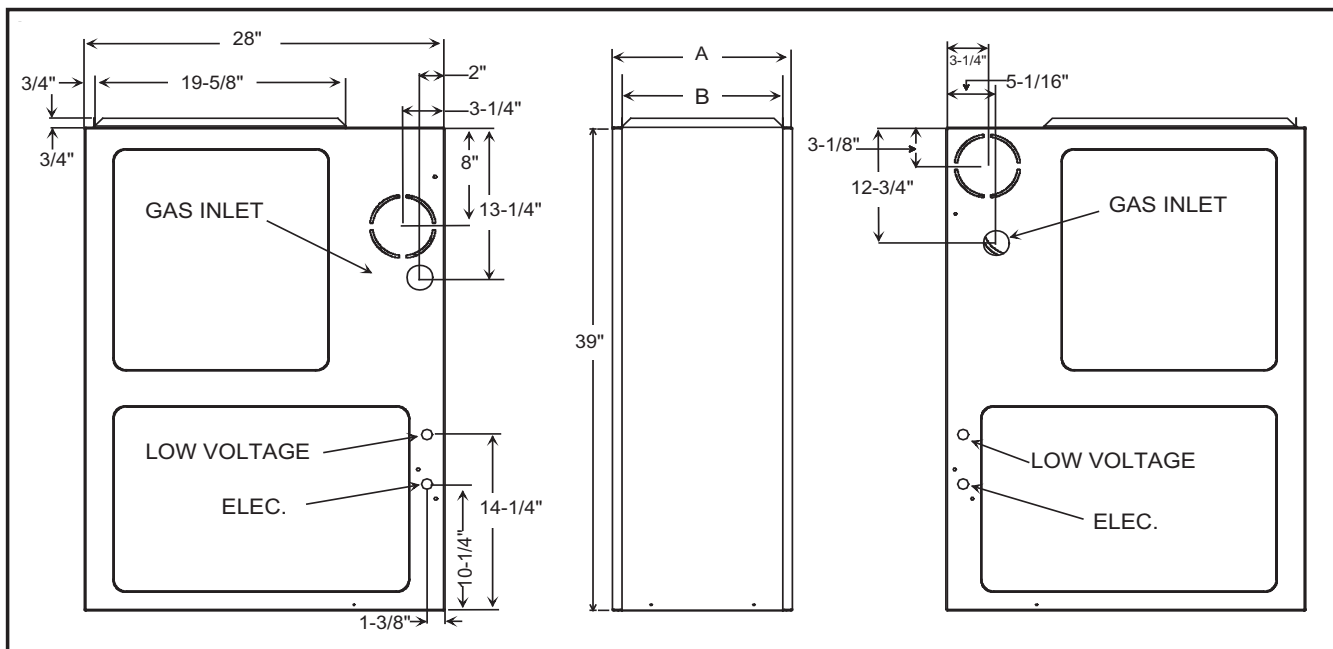
³ Maximum Overcurrent Protection Device (MOD) refers to maximum recommended fuse or circuit breaker size.

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

AMS8 DIMENSIONS



Model	A	B
AMS80453ANA*	14"	12½"
AMS80703ANA	14"	12½"
AMS80704BNA*	17½"	16"
AMS80903BNA*	17½"	16"
AMS80904BNA	17½"	16"
AMS80905CNA*	21"	19½"
AMS81155CNA*	21"	19½"
AMS81405DNA*	24½"	23"

* Low NOx model available.

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.

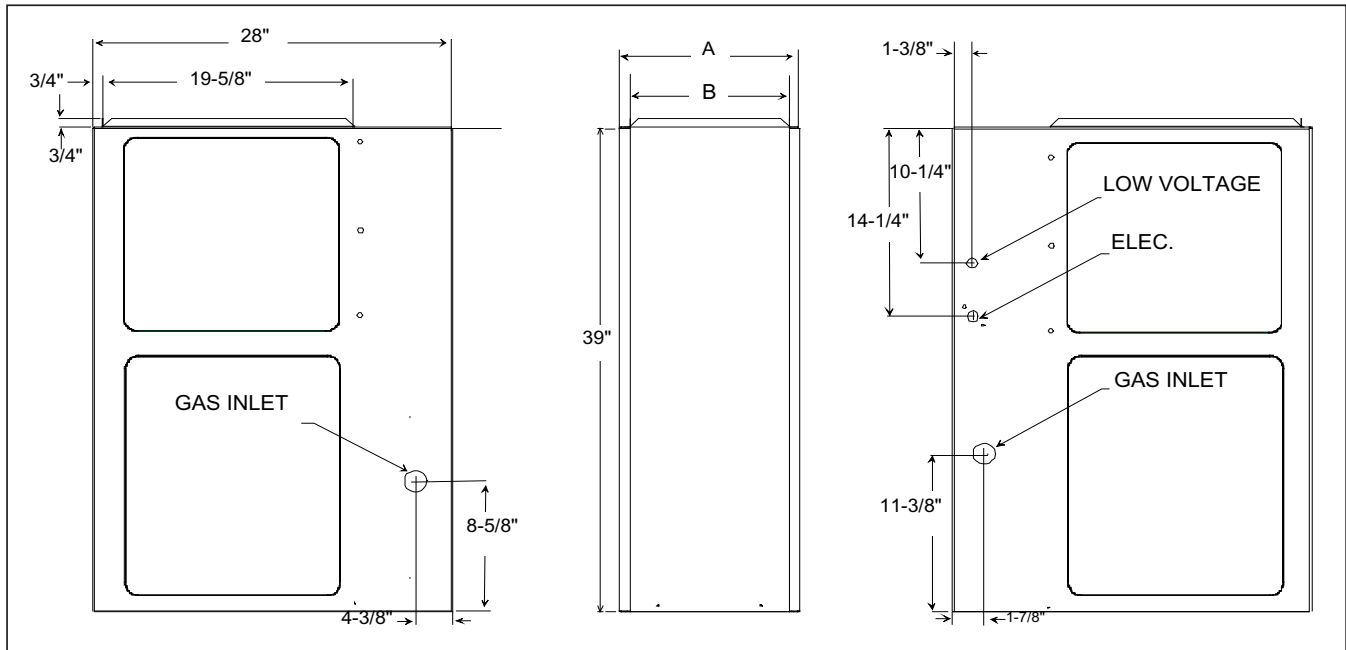
Refer to the appropriate USA and Canadian codes:

In the USA: the National Fuel Gas Code NFPA 54/ ANSI Z223.1

In Canada: the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2

Note: AMS8 models approved for line contact in the horizontal position.

ADS8 DIMENSIONS



Model	A	B	Non-Combustible Floor Base
ADS80453ANA	14"	12½"	SBT14
ADS80703ANA*	14"	12½"	SBT14
ADS80904BNA*	17½"	16"	SBT17
ADS81155CNA*	21"	19½"	SBT21

* Low NOx model available.

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 appropriate USA and Canadian codes:

In the USA: the National Fuel Gas Code NFPA 54/ ANSI Z223.1

In Canada: the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2

SPECIFICATION SHEET

BLOWER PERFORMANCE SPECIFICATIONS

Model (Heating Speed As Shipped)	Motor Speed	Tons AC @ 0.5" ESP	External Static Pressure, (Inches Water Column)												
			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
AMS80453ANA* (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
AMS80703ANA* (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
AMS80704BNA* (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
AMS80903BNA (HIGH)	High	3.0	1,593	42	1,561	43	1,567	42	1,543	43	1,493	44	1,420	1,343	1,230
	Med	2.5	1,186	56	1,160	57	1,160	57	1,135	58	1,118	59	1,089	1,045	983
	Med-Lo	2.0	957	---	940	---	937	---	921	---	895	---	861	826	778
	Low	1.5	742	---	710	---	685	---	663	---	635	---	611	578	476
AMS80904BNA* (MED-LO)	High	4.0	2,251	---	2,169	31	2,084	32	1,986	33	1,891	35	1,773	1,688	1,537
	Med	3.5	1,659	40	1,653	40	1,648	40	1,605	41	1,555	43	1,485	1,405	1,313
	Med-Lo	3.0	1,364	49	1,349	49	1,347	49	1,340	50	1,313	51	1,260	1,212	1,130
	Low	2.5	1,104	60	1,098	60	1,092	61	1,083	61	1,080	61	1,040	1,001	945
AMS80905CNA* (MED-LO)	High	5.0	2,276	---	2,176	---	2,079	---	1,986	---	1,886	35	1,788	1,688	1,551
	Med	4.0	1,723	39	1,713	39	1,679	40	1,639	40	1,589	42	1,510	1,430	1,339
	Med-Lo	3.5	1,411	47	1,412	47	1,403	47	1,369	48	1,325	50	1,274	1,219	1,137
	Low	3.0	1,142	58	1,127	59	1,128	59	1,108	60	1,078	62	1,053	993	926
AMS81155CNA* (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
AMS81405DNA* (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

* Low NOx model available.

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 is desirable when cooling.
- 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	CFM	CFM
ADS80453ANA (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
ADS80703ANA* (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
ADS80904BNA* (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
ADS81155CNA* (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

* Low NOx model available.

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- 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	AMS80453ANA*	AMS80703ANA*	AMS80704BNA*	AMS80903BNA	AMS80904BNA*	AMS80905CNA*	AMS81155CNA*	AMS81405DNA*	ADS80453ANA	ADS80703ANA*	ADS80904BNA*	ADS81155CNA*
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												✓

* Low NOx model available

THERMOSTATS

Model	Description
CHT18-60	Cooling/Heating, Mechanical
CH70TG	Cooling/Heating, Digital, Non-programmable
CHSATG	Cooling/Heating, Mechanical
H20TWR	Heating Only, Mechanical



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