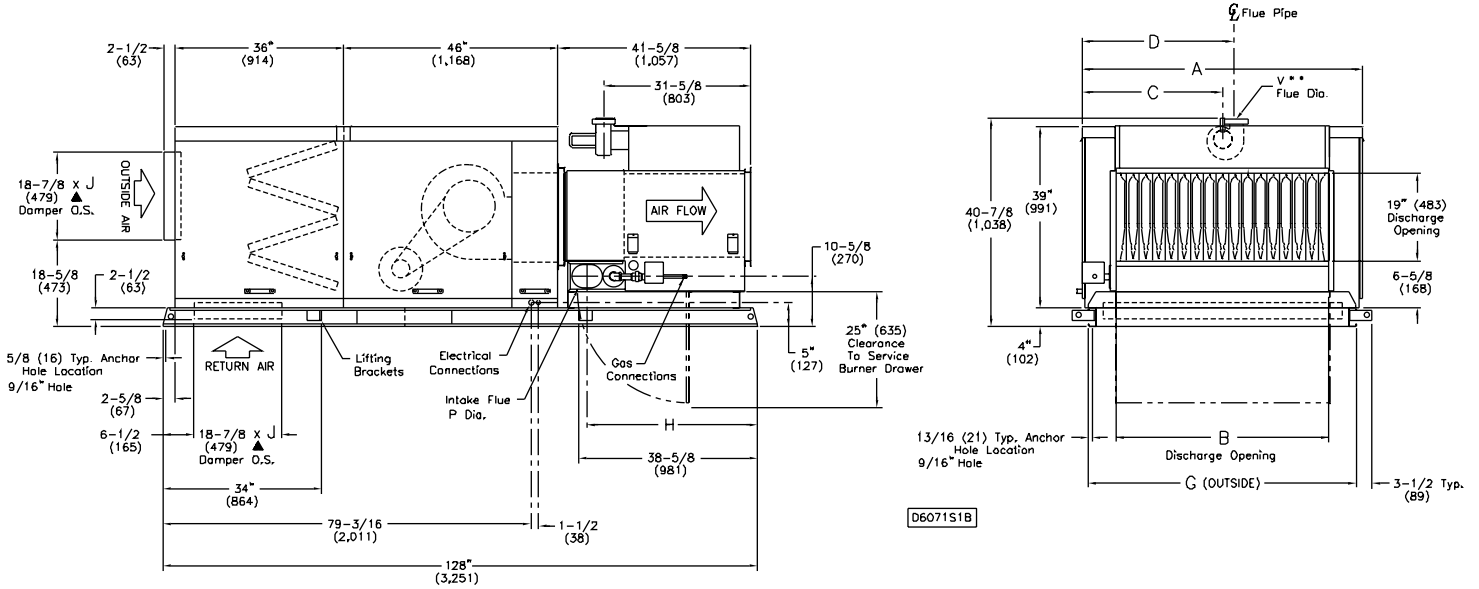


# ENGINEERED PRODUCTS

## Model - MS(20-40) (A,B)† G

Unit Type (UT) - MS, Separated Combustion Indoor Unit  
Capacity (CA) - (20-40) (200-400 mBTU)  
Furnace Type (FT) - A, B Standard Temperature Rise (30-80)F°  
Indoor Arrangement (IA) - G, High CFM Blower Unit



CAPACITY	A	B	C	D	H	G	▲J	P*	V Dia.**
<input type="checkbox"/> 20	43- 7/8 (1114)	23-13/16 (605)	21- 15/16 (557)	24-7/8 (632)	37- 7/16 (951)	41- 3/16 (1046)	35 (889)	5 RD (127)	5 (127)
<input type="checkbox"/> 25	43- 7/8 (1114)	29- 5/16 (745)	21- 15/16 (557)	24-7/8 (632)	37- 7/16 (951)	41- 3/16 (1046)	35 (889)	5 RD (127)	5 (127)
<input type="checkbox"/> 30	54- 7/8 (1394)	34-13/16 (884)	27-7/16 (697)	30- 3/8 (772)	36-7/16 (932)	52- 3/16 (1326)	46 (1168)	6 OV (152)	6 (152)
<input type="checkbox"/> 35	54- 7/8 (1394)	40- 5/16 (1024)	27-7/16 (697)	30- 3/8 (772)	36-11/16 (932)	52- 3/16 (1326)	46 (1168)	6 OV (152)	6 (152)
<input type="checkbox"/> 40	60- 3/8 (1534)	45-13/16 (1164)	30-3/16 (767)	33- 1/8 (841)	36-11/16 (932)	57-11/16 (1465)	51- 1/2 (1308)	6 OV (152)	6 (152)

NOTE:  
DIMENSIONS ARE IN INCHES, DIMENSIONS IN PARENTHESIS ARE IN MILLIMETERS.  
▲“J” DIMENSION IS AN OUTSIDE DIMENSION FOR AIR DAMPERS.  
\*RD = ROUND \*OV = OVAL  
\*\*THE 5" TO 6" FLUE ADAPTER IS SUPPLIED BY THE MANUFACTURER.

Project: \_\_\_\_\_

Unit Tag: \_\_\_\_\_



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The above dimensional drawing includes options that might not pertain to the unit being submitted for approval. Please note that the following items checked below are **not included** with the unit being submitted:

Outside Air Opening / Dampers

Return Air Openings / Dampers

# ENGINEERED PRODUCTS

## MS(20-40) (A,B)† G Performance Table

Capacity	TR (F°)	CFM	Input BTU/Hr.		Max. Output BTU/Hr.	TOTAL STATIC PRESSURE (INCHES OF WATER)											
			Max.	Min.		0.4		0.8		1		1.4		1.8		2	
						RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20	82	1,800				495	.29	650	.49	720	.59	835	.82	940	1.07	985	1.20
	74	2,000				510	.35	665	.56	730	.67	845	.91	950	1.17	995	1.31
	59	2,500				560	.55	695	.79	755	.92	870	1.20	970	1.48	1015	1.63
	49	3,000	200,000	80,000	160,000	620	.84	735	1.09	795	1.24	900	1.56	995	1.88	1040	2.05
	42	3,500				685	1.23	790	1.50	840	1.65	935	2.00	1025	2.37	1065	2.56
	37	4,000				755	1.73	845	2.04	890	2.20	975	2.55	1060	2.95	1100	3.16
	33	4,500				825	2.37	905	2.72	950	2.90	1025	3.25	1105	3.65	1140	3.87
	30	4,900				885	2.98	960	3.36	995	3.56	1070	3.94	1140	4.34	1175	4.55
25	80	2,300				520	.43	665	.66	730	.78	845	1.04	945	1.31	995	1.45
	74	2,500				540	.52	675	.75	740	.88	855	1.15	955	1.44	1000	1.58
	61	3,000				595	.79	710	1.03	770	1.17	875	1.49	975	1.81	1020	1.98
	53	3,500	250,000	100,000	200,000	655	1.15	760	1.42	810	1.56	905	1.89	1000	2.26	1040	2.45
	46	4,000				720	1.61	810	1.93	855	2.08	945	2.41	1030	2.79	1070	3.00
	41	4,500				790	2.21	870	2.55	910	2.73	990	3.08	1065	3.45	1105	3.66
	37	5,000				860	2.95	930	3.31	965	3.51	1040	3.90	1110	4.29	1145	4.49
	34	5,500				935	3.84	995	4.22	1025	4.43	1095	4.87	1160	5.30	1195	5.51
30	82	2,700				520	.47	705	.89	785	1.12	915	1.60	1025	2.10	1070	2.36
	74	3,000				530	.56	710	.99	790	1.24	925	1.76	1035	2.29	1085	2.57
	55	4,000				595	.95	740	1.43	810	1.70	940	2.30	1060	2.96	1110	3.30
	44	5,000	300,000	120,000	240,000	670	1.55	795	2.10	850	2.39	965	3.03	1075	3.74	1125	4.12
	37	6,000				750	2.40	860	3.02	910	3.35	1010	4.05	1105	4.80	1155	5.19
	32	7,000				840	3.54	935	4.25	985	4.62	1070	5.38	1155	6.19	1200	6.61
	30	7,400				875	4.09	970	4.84	1015	5.22	1100	6.02	1180	6.85	1220	7.28
	35	81	3,200				495	.50	655	.87	720	1.07	840	1.51	940	2.00	985
65		4,000				530	.74	680	1.17	745	1.40	860	1.88	960	2.41	1005	2.68
52		5,000				585	1.17	720	1.67	780	1.94	890	2.50	985	3.07	1030	3.37
43		6,000	350,000	140,000	280,000	650	1.79	765	2.33	820	2.64	925	3.29	1015	3.94	1060	4.28
37		7,000				720	2.65	825	3.21	870	3.53	965	4.25	1055	5.01	1095	5.38
32		8,000				795	3.75	885	4.37	930	4.70	1015	5.44	1095	6.27	1135	6.70
30		8,600				840	4.54	925	5.21	965	5.55	1045	6.30	1125	7.15	1165	7.60
40		80	3,700				500	.61	660	1.02	725	1.23	840	1.69	945	2.20	990
	74	4,000				515	.70	665	1.13	730	1.36	850	1.83	950	2.35	995	2.63
	59	5,000				565	1.11	700	1.60	760	1.87	875	2.41	975	2.99	1020	3.29
	49	6,000	400,000	160,000	320,000	625	1.70	745	2.21	800	2.51	905	3.15	1000	3.81	1045	4.14
	42	7,000				695	2.50	795	3.05	845	3.35	940	4.05	1030	4.80	1075	5.18
	37	8,000				760	3.52	855	4.15	900	4.47	985	5.17	1070	5.97	1110	6.40
	33	9,000				835	4.82	915	5.53	960	5.88	1035	6.59	1115	7.40	1150	7.85
	30	9,800				895	6.07	970	6.84	1010	7.23	1080	7.99	1150	8.80	1190	9.24

**NOTES:** The pressure drop for Accessories (from the following table) must be allowed for when using the above Performance table.  
 Unless otherwise specified, the following conversions may be used for calculating SI units:  
 1 Cu. Ft. = 0.028m<sup>3</sup>, 1 ft. = 0.305m, 1 in. = 25.4mm, 1 psig = 6.894 kPa, 1000 Btu per hr. = 0.293 kW,  
 1 in. water column = 0.249 kPa, 1 gallon = 3.785 L, 1000 Btu/Cu. Ft. = 37.5 MJ/m<sup>3</sup>, 1 lb. = 0.453 kg.



## MS(20-40) (A,B)† G Accessories Pressure Drop Table

		PRESSURE LOSS (INCHES OF WATER)							
Capacity	CFM	OPTIONAL RAINHOOD		FILTERS					Outside or Return Air Damper
		With		Throwaway	Washable		Pleated		
		Screen	Mstr. Elim.		2"	1"	2"	1"	
20	1,800	.02	.03	.03	<.01	<.01	.03	.02	.03
	2,000	.03	.04	.04	<.01	<.01	.04	.02	.04
	2,500	.04	.06	.05	<.01	.01	.05	.03	.06
	3,000	.06	.08	.06	.01	.02	.07	.04	.08
	3,500	.09	.11	.08	.01	.02	.09	.05	.11
	4,000	.11	.15	.09	.02	.03	.12	.07	.15
	4,500	.14	.19	.11	.02	.03	.14	.08	.19
	4,900	.17	.22	.12	.03	.04	.16	.10	.22
25	2,300	.04	.05	.04	<.01	<.01	.05	.02	.05
	2,500	.04	.06	.05	<.01	.01	.05	.03	.06
	3,000	.06	.08	.06	.01	.02	.07	.04	.08
	3,500	.09	.11	.08	.01	.02	.09	.05	.11
	4,000	.11	.15	.09	.02	.03	.12	.07	.15
	4,500	.14	.19	.11	.02	.03	.14	.08	.19
	5,000	.17	.23	.12	.03	.04	.17	.10	.23
	5,500	.21	.28	.14	.04	.05	.20	.12	.28
30	2,700	.03	.04	.03	<.01	<.01	.03	.01	.04
	3,000	.04	.05	.03	<.01	<.01	.03	.02	.05
	4,000	.06	.09	.05	<.01	.01	.05	.03	.08
	5,000	.10	.13	.06	.01	.02	.08	.04	.13
	6,000	.14	.19	.08	.02	.02	.10	.06	.19
	7,000	.20	.26	.10	.02	.03	.13	.08	.25
	7,400	.22	.29	.11	.02	.03	.15	.08	.28
	35	3,200	.04	.05	.03	<.01	<.01	.04	.02
4,000		.06	.09	.05	<.01	.01	.05	.03	.08
5,000		.10	.13	.06	.01	.02	.08	.04	.13
6,000		.14	.19	.08	.02	.02	.10	.06	.19
7,000		.20	.26	.10	.02	.03	.13	.08	.25
8,000		.26	.34	.12	.03	.04	.17	.10	.33
8,600		.30	.40	.13	.03	.05	.19	.11	.38
40		3,700	.04	.06	.03	<.01	<.01	.04	.02
	4,000	.05	.07	.04	<.01	<.01	.04	.02	.07
	5,000	.08	.11	.05	<.01	.01	.06	.03	.10
	6,000	.11	.15	.07	.01	.02	.08	.04	.15
	7,000	.16	.21	.08	.02	.02	.10	.06	.20
	8,000	.20	.27	.10	.02	.03	.13	.07	.26
	9,000	.26	.35	.12	.03	.04	.16	.09	.33
	9,800	.31	.41	.13	.03	.05	.18	.11	.39

## MS(20-40) (A,B)† G Weights & Filter Data

### Unit Weights

Approximate weights for Arrangement "G" (Less Motor)†			
Unit Type	Net Wt.†	Ship Wt.†	Add for Optional
Capacity	(Lb.)	(Lb.)	Outside Air Hood*
MS20	982	1206	51
MS25	1025	1249	51
MS30	1218	1452	59
MS35	1261	1495	59
MS40	1343	1583	63

### Filter Data

Capacity	(Quantity)
	Filter Size
20,25	(8) 20 x 20
30, 35	(8) 16 x 20
	(4) 20 x 20
40	(12) 20 x 20

† See motor spec #MDS-1 for motor weight/adder & amperage.

\* Optional - Shipped in separate container.

### MODEL NUMBER

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	+
(MXX)	M	S	*	*	*	†	G										

DIGITS 3 & 4 = (CA) CAPACITY; DIGIT 5 = (FT) FURNACE TYPE; DIGIT 6 = †(FM) FURNACE MATERIAL.  
REFER TO CATALOG FOR MODEL NUMBER DESCRIPTION.