

ENGINEERED PRODUCTS

Model - MS(50-80) (A, B)† B

Unit Type (UT) - MS, Separated Combustion Indoor Unit

Capacity (CA) - (50-80) (500-800 mBTU)

Furnace Type (FT) - A, B Standard Temperature Rise (30-80)F°

Indoor Arrangement (IA) - B, Standard Blower Unit

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
50	160	2,300				735	.58	895	.80	970	.91	1110	1.17	1235	1.44	1295	1.58
	147	2,500				765	.70	920	.93	990	1.06	1125	1.32	1250	1.60	1305	1.75
	123	3,000				855	1.08	995	1.36	1055	1.50	1175	1.79	1290	2.10	1345	2.26
	105	3,500	500,000	200,000	400,000	950	1.59	1075	1.92	1130	2.08	1240	2.41	1345	2.75	1395	2.92
	92	4,000				1050	2.26	1165	2.63	1215	2.81	1315	3.18	1410	3.56	1455	3.75
	82	4,500				1155	3.11	1255	3.52	1305	3.72	1395	4.14	1485	4.55	1530	4.76
	74	5,000				1260	4.15	1350	4.60	1395	4.83						
	71	5,200				1300	4.62										
60	164	2,700				800	.67	1010	1.05	1105	1.25	1275	1.69	1425	2.16	1495	2.40
	147	3,000				840	.83	1035	1.22	1130	1.45	1295	1.92	1445	2.41	1510	2.67
	111	4,000	600,000	240,000	480,000	1000	1.59	1150	2.06	1225	2.31	1370	2.86	1510	3.44	1575	3.75
	88	5,000				1170	2.76	1300	3.35	1360	3.64	1480	4.24	1600	4.89		
	74	6,000				1350	4.44										
70	161	3,200				690	.64	875	1.01	960	1.22	1110	1.68	1250	2.19	1315	2.46
	129	4,000				765	1.02	930	1.44	1010	1.67	1145	2.16	1270	2.70	1330	2.99
	103	5,000	700,000	280,000	560,000	870	1.70	1010	2.20	1080	2.46	1210	3.01	1325	3.60	1380	3.91
	86	6,000				985	2.68	1110	3.25	1170	3.55	1280	4.16	1390	4.82		
	74	7,000				1105	4.00	1215	4.66	1270	4.99						
	69	7,500				1165	4.81										
80	159	3,700				705	.80	885	1.20	965	1.41	1105	1.88	1240	2.40	1300	2.68
	147	4,000				730	.95	900	1.36	980	1.58	1120	2.07	1245	2.60	1305	2.88
	118	5,000	800,000	320,000	640,000	825	1.57	975	2.05	1040	2.31	1175	2.85	1295	3.43	1350	3.73
	98	6,000				930	2.46	1060	3.02	1120	3.31	1235	3.91	1350	4.55	1400	4.88
	84	7,000				1040	3.66	1160	4.30	1210	4.63						
	79	7,500				1100	4.39										

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. = 0.028m³, 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/m³, 1 lb. = 0.453 kg.

Project: _____

Unit Tag: _____



260 NORTH ELM ST. WESTFIELD, MA 01085
(413) 564-5540 • FAX: (413) 562-5311

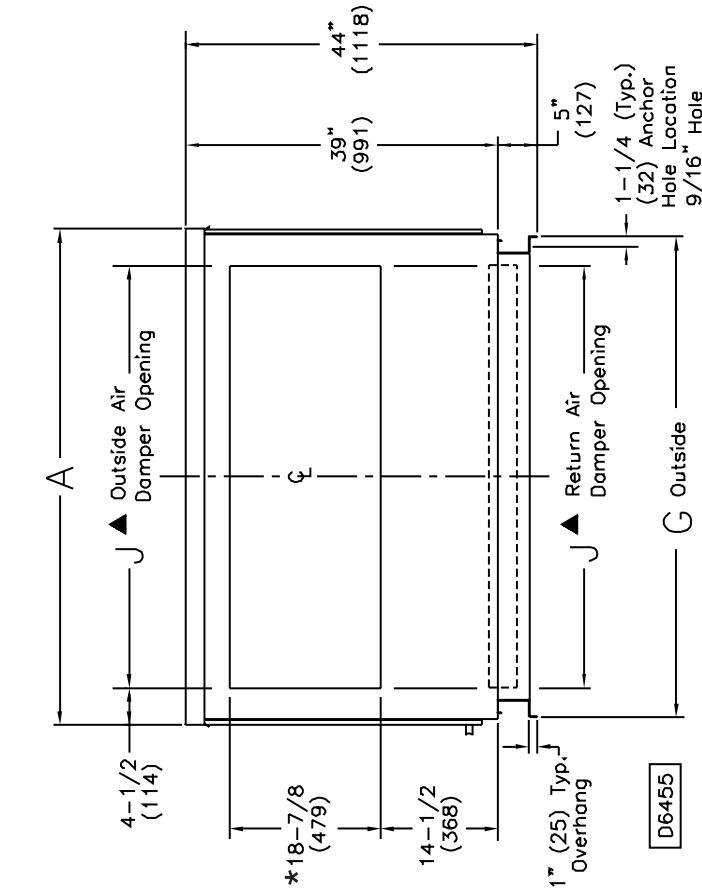
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The above dimensional drawing includes options that might not pertain to the unit being submitted for approval. Please note that the following items checked below are **not included** with the unit being submitted:

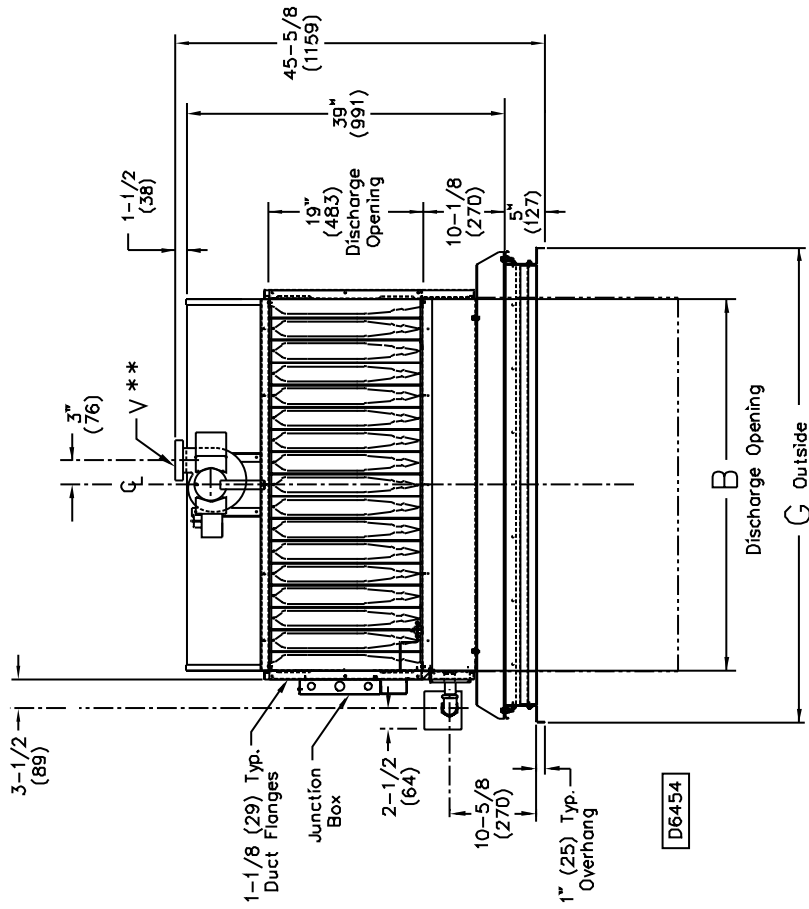
Outside Air Opening / Dampers

Return Air Openings / Dampers

Intake Air End View



Discharge End View



Capacity	GAS INLET												
	A	B	C	D	G	H	J▲	L	U	P*	V Dia.**	NAT	LP
□ 50	43-7/8 (114)	29-5/16 (745)	21-15/16 (557)	24-7/8 (632)	42-1/16 (1068)	37-7/16 (678)	35 (889)	N/A	N/A	5 RD (152)	5 (127)	3/4	1/2 OR 3/4
□ 60	54-7/8 (1394)	34-13/16 (884)	27-7/16 (697)	30-3/8 (772)	53-1/16 (1348)	36-11/16 (640)	46 (1168)	N/A	N/A	6 OV (152)	6 (152)	3/4	1/2 OR 3/4
□ 70	54-7/8 (1394)	40-5/16 (1024)	27-7/16 (697)	30-3/8 (772)	53-1/16 (1348)	36-11/16 (640)	46 (1168)	N/A	N/A	6 OV (152)	6 (152)	3/4	1/2 OR 3/4
□ 80	60-3/8 (1534)	45-13/16 (1164)	30-3/16 (767)	33-1/8 (841)	58-9/16 (1487)	36-11/16 (932)	51-1/2 (1308)	181-1/4 (4604)	177 (4495)	6 OV (152)	6 (152)	3/4	1/2 OR 3/4

NOTE:

Dimensions are in inches, dimensions in parenthesis are in millimeters. ▲ "J" dimension is an outside dimension for air dampers.

*This is an outside damper dimension. *RD = Round *OV = Oval

** The 5" to 6" flue adapter is supplied by the manufacturer.



MS(50-80) (A,B)† B 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.		1"	2"	1"	2"	
50	2,300	.04	.05	.08	.02	.02	.10	.06	.05
	2,500	.04	.06	.09	.02	.03	.12	.07	.06
	3,000	.06	.08	.12	.03	.04	.16	.09	.08
	3,500	.09	.11	.14	.04	.05	.21	.12	.11
	4,000	.11	.15	.17	.05	.07	.26	.16	.15
	4,500	.14	.19	—	.06	.09	.31	.19	.19
	5,000	.17	.23	—	.07	.11	.38	.23	.23
	5,200	.19	.25	—	.08	.12	.40	.25	.25
60	2,700	.03	.04	.07	.01	.02	.09	.05	.04
	3,000	.04	.05	.08	.02	.02	.10	.06	.05
	4,000	.06	.09	.12	.03	.04	.17	.10	.08
	5,000	.10	.13	.16	.04	.06	.24	.14	.13
	6,000	.14	.19	—	.06	.09	.33	.20	.19
70	3,200	.04	.05	.09	.02	.03	.11	.06	.05
	4,000	.06	.09	.12	.03	.04	.17	.10	.08
	5,000	.10	.13	.16	.04	.06	.24	.14	.13
	6,000	.14	.19	—	.06	.09	.33	.20	.19
	7,000	.20	.26	—	.09	.13	.43	.27	.25
7,500	.22	.30	—	.10	.14	—	—	.29	
80	3,700	.04	.06	.09	.02	.03	.11	.06	.06
	4,000	.05	.07	.10	.02	.03	.13	.07	.07
	5,000	.08	.11	.13	.03	.05	.19	.11	.10
	6,000	.11	.15	.17	.05	.07	.26	.16	.15
	7,000	.16	.21	—	.07	.09	.33	.21	.20
7,500	.18	.24	—	.07	.11	.38	.23	.23	

MS(50-80) (A,B)† B Weights & Filter Data

Unit Weights

Approximate weights for Arrangement "B"(less motor)†			
Unit Type	Net Wt.†	Ship Wt.†	Add for Optional
Capacity	(Lb.)	(Lb.)	Outside Air Hood*
MS50	1195	1423	51
MS60	1377	1616	59
MS70	1468	1707	59
MS80	1589	1833	63

Filter Data

Capacity	(Quantity)
	Filter Size
50	(4) 20 x 20
60,70	(4) 16 x 20
	(2) 20 x 20
80	(6) 20 x 20

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

* Optional - Shipped in separate carton.

MODEL NUMBER

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

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