

INDOOR MAKE-UP AIR PRODUCTS

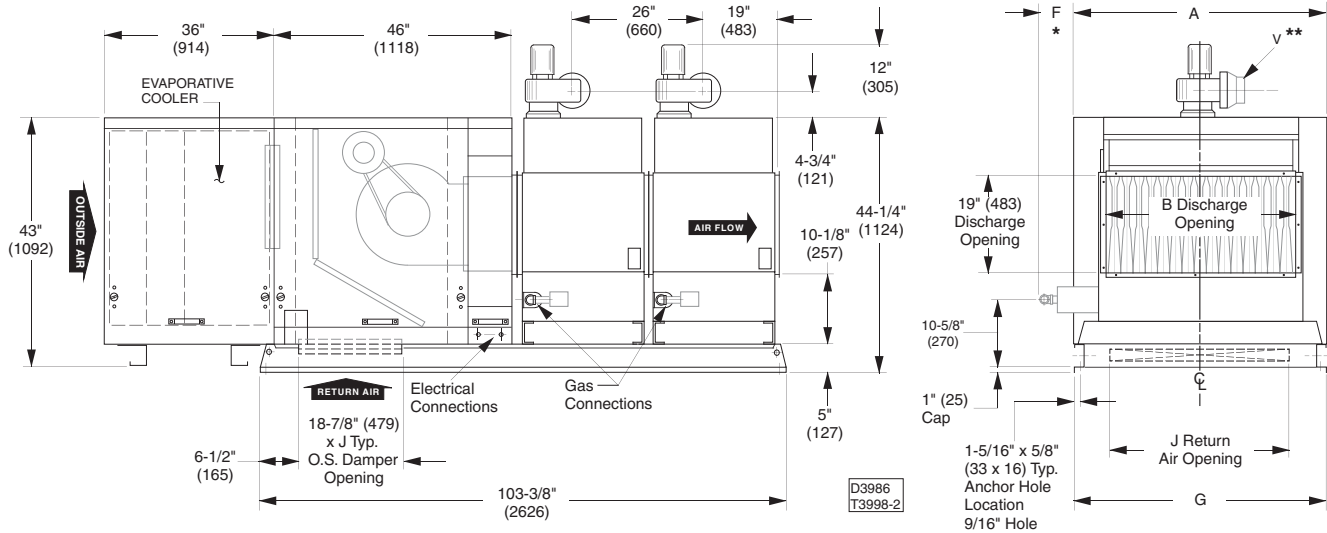
Model - ME(50-80) (A,B)† D

Unit Type (UT) - ME, Power Vent Indoor Make-Up Air Unit

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

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

Indoor Arrangement (IA) - D, Standard Blower Unit with Evaporative Cooler



CAPACITY	A	B	GAS INLET		F*	G	J	**V Dia.
			NAT	LP				
<input type="checkbox"/> 50	43- 7/8 (1114)	29- 5/16 (745)	3/4	1/2 OR 3/4	31- 1/2 (800)	42- 1/16 (1068)	35 (889)	5 (127)
<input type="checkbox"/> 60	54- 7/8 (1394)	34-13/16 (884)	3/4	1/2 OR 3/4	34- 1/4 (870)	53- 1/16 (1348)	46 (1168)	**6 (152)
<input type="checkbox"/> 70	54- 7/8 (1394)	40- 5/16 (1024)	3/4	1/2 OR 3/4	42- 1/4 (1073)	53- 1/16 (1348)	46 (1168)	**6 (152)
<input type="checkbox"/> 80	60- 3/8 (1534)	45-13/16 (1164)	3/4	1/2 OR 3/4	48 (1219)	58- 9/16 (1487)	51- 1/2 (1308)	**6 (152)

NOTE:

Dimensions are in inches (Dimensions in parenthesis are in millimeters)

* "F" Dimension is the recommended clearance to service the burner drawer.

** "V" Dia. = The Flue Opening; Capacities 60/70/80 will require a 5" to 6" Dia. Inceaser for each furnace that will be supplied with the unit.

"J" is an outside dimension for outside or return air dampers.

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

ME(50-80) (A,B)† D Performance Table

Capacity	TR (F°)	CFM	Input BTU/Hr.		Max. Output BTU/Hr.	TOTAL STATIC PRESSURE (INCHES OF WATER)											
						0.4		0.8		1		1.4		1.8		2	
			Max.	Min.		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.

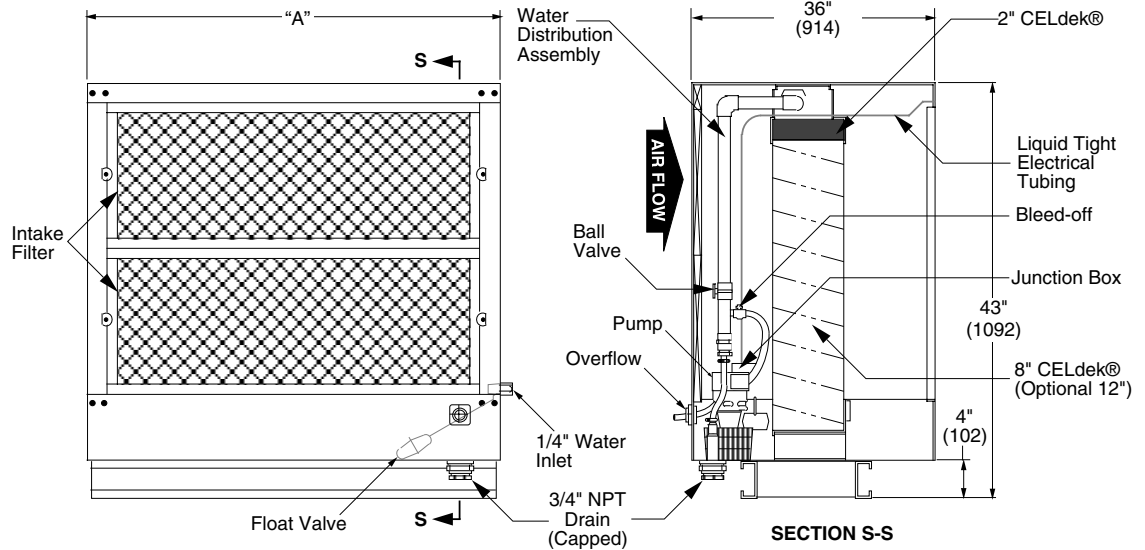
ME(50-80) (A,B)† D Accessories Pressure Drop Table

MODEL	CFM	PRESSURE LOSS (INCHES OF WATER)									
		OPTIONAL RAINHOOD WITH		FILTERS					EVAP. PAD		RETURN DAMPER
		SCREEN	ELIM	THROWAWAY	WASHABLE		PLEATED		8"	12"	
		2"	1"	2"	1"	2"	8"	12"			
50	2,300	.04	.0	.08	.02	.02	.10	.06	.03	.05	.05
	2,500	.04	.06	.09	.02	.03	.12	.07	.04	.06	.06
	3,000	.06	.08	.12	.03	.04	.16	.09	.06	.09	.08
	3,500	.09	.11	.14	.04	.05	.21	.12	.08	.12	.11
	4,000	.11	.15	.17	.05	.07	.26	.16	.10	.15	.15
	4,500	.14	.19	—	.06	.09	.31	.19	.13	.20	.19
	5,000	.17	.23	—	.07	.11	.38	.23	.16	.24	.23
	5,200	.19	.25	—	.08	.12	.40	.25	.17	.26	.25
60	2,700	.03	.04	.07	.01	.02	.09	.05	.03	.04	.04
	3,000	.04	.05	.08	.02	.02	.10	.06	.04	.05	.05
	4,000	.06	.09	.12	.03	.04	.17	.10	.06	.10	.08
	5,000	.10	.13	.16	.04	.06	.24	.14	.10	.15	.13
	6,000	.14	.19	—	.06	.09	.33	.20	.14	.21	.19
70	3,200	.04	.05	.09	.02	.03	.11	.06	.04	.06	.05
	4,000	.06	.09	.12	.03	.04	.17	.10	.06	.10	.08
	5,000	.10	.13	.16	.04	.06	.24	.14	.10	.15	.13
	6,000	.14	.19	—	.06	.09	.33	.20	.14	.21	.19
	7,000	.20	.26	—	.09	.13	.43	.27	.20	.29	.25
	7,500	.22	.30	—	.10	.14	—	—	.22	.34	.29
80	3,700	.04	.06	.09	.02	.03	.11	.06	.04	.07	.06
	4,000	.05	.07	.10	.02	.03	.13	.07	.05	.08	.07
	5,000	.08	.11	.13	.03	.05	.19	.11	.08	.12	.10
	6,000	.11	.15	.17	.05	.07	.26	.16	.12	.18	.15
	7,000	.16	.21	—	.07	.09	.33	.21	.16	.24	.20
	7,500	.18	.24	—	.07	.11	.38	.23	.18	.28	.23

ME(50-80) (A, B)† D Evaporative Cooler Specifications

MODEL	A
50	43-7/8" (1114)
60/70	54-7/8" (1394)
80	60-3/8" (1534)

D3673A

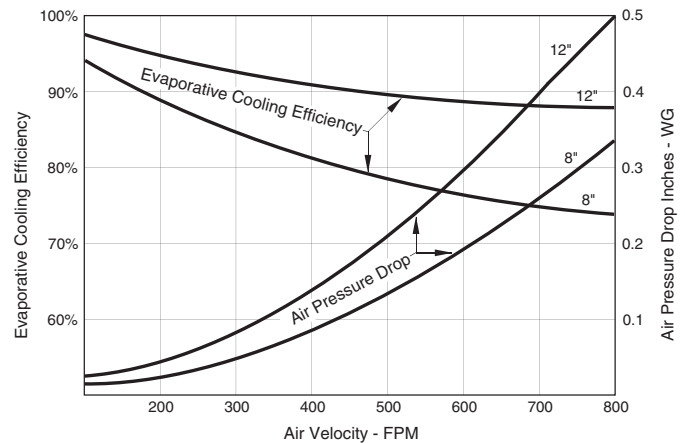


Performance and Dimensional Data

Capacity 50-80	CFM		8" Saturation Efficiency Range		12" Saturation Efficiency Range		8" or 12" Media Face Area		Pressure Drop in W.C.		"A" Unit Width	Shipping Wt.	Operating Wt.
	(cu. m/s) MIN.	(cu. m/s) MAX.	MIN.	MAX.	MIN.	MAX.	Ft.2	in. (mm)	(kPa) MIN.	(kPa) MAX.	in. (mm)	lb. (kg)	lb. (kg)
50	1,600 (0.755)	5,500 (2.596)	77	88	88	92	9.38 (0.87)	31 x 43-9/16 (787 x 1106)	0.03 (0.01)	0.20 (0.05)	43-3/4 (1111)	166 (75)	386 (175)
60, 70	2,400 (1.133)	8,500 (4.012)	77	86	88	92	11.75 (1.09)	31 x 54-9/16 (787 x 1386)	0.05 (0.01)	0.30 (0.07)	54-3/4 (1391)	192 (87)	468 (212)
80	3,200 (1.510)	8,500 (4.012)	77	86	87	92	12.92 (1.20)	31 x 60 (787 x 1524)	0.07 (0.02)	0.28 (0.07)	60-1/4 (1530)	206 (93)	509 (231)

CELdek® EVAPORATIVE MEDIA

The Sterling Evaporative Cooler utilizes high efficiency CELdek® media. CELdek® is made from a special cellulose paper, impregnated with insoluble anti-rot salts and rigidifying saturants. The cross fluted design of the pads induces highly-turbulent mixing of air and water for optimum heat and moisture transfer. Sterling Evaporative Coolers utilize 8 inch CELdek® as standard equipment. Optional 12 inch CELdek®, 8 and 12 inch GLASdek® are also available. A 2 inch distribution pad is used to disperse the water evenly over the media.



EVAPORATIVE COOLER EFFICIENCY/A.P.D. CHART

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

Unit Weights

Approximate weights for Arrangement "D" (Less Motor)†			
Unit Type	Net Wt.†	Ship Wt.†	Add for Optional
Capacity	(Lb.)	(Lb.)	Outside Air Hood*
ME50	1241	1406	51
ME60	1459	1634	59
ME70	1529	1704	59
ME80	1642	1022	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 or 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	+
(EXX)	M	E	*	*	*	†	D										

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