

INDOOR MAKE-UP AIR PRODUCTS

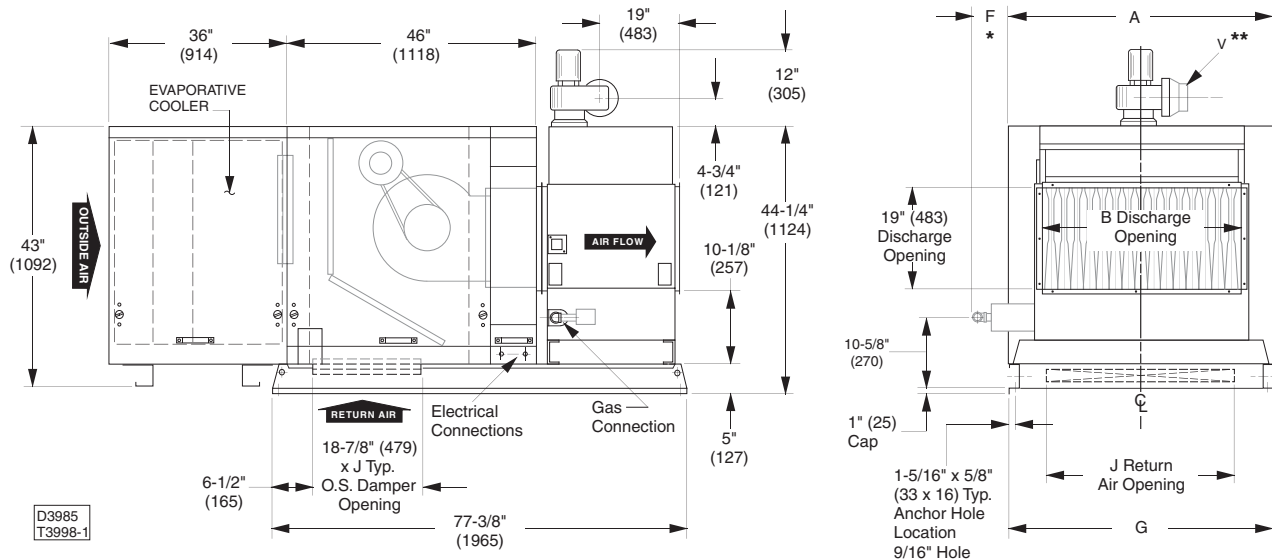
Model - ME(10-40) (A,B)† D

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

Capacity (CA) - (10-40) (100-400 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"/> 10	32-7/8 (835)	15-9/16 (395)	1/2	1/2	16-3/8 (416)	31-1/16 (789)	24 (610)	**4 (102)
<input type="checkbox"/> 15	32-7/8 (835)	18-5/16 (465)	1/2	1/2	20-1/2 (521)	31-1/16 (789)	24 (610)	**4 (102)
<input type="checkbox"/> 20	43-7/8 (1114)	23-13/16 (605)	1/2	1/2	23-1/2 (597)	42-1/16 (1068)	35 (889)	5 (127)
<input type="checkbox"/> 25	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"/> 30	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"/> 35	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"/> 40	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 10 & 15 will require a field installed 5" to 4" Dia. Reducer. Capacities 30/35/40 will require a 5" to 6" Dia. In increaser that will be supplied with the unit.

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

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

ME(10-40) (A,B)† D Performance Table

Model Digits		3, 4, & 5 Input BTU/Hr.				Max. 0.8 BTU/Hr.	TOTAL STATIC PRESSURE (INCHES OF WATER)													
							Output		1.4		1.8		2		2		2		2	
							CA, FT	(°F)	CFM	Max.	Min.	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
10	82	900				730	.18	965	.33	1065	.41	1230	.58	1375	.76	1440	.86			
	74	1,000				745	.21	980	.37	1080	.46	1245	.64	1390	.83	1455	.93			
	61	1,200				795	.29	1015	.47	1110	.57	1280	.77	1425	.99	1490	1.10			
	53	1,400				850	.39	1050	.59	1145	.69	1310	.92	1455	1.16	1520	1.28			
	46	1,600	100,000	40,000	80,000	910	.52	1095	.73	1180	.85	1340	1.09	1485	1.36	1550	1.49			
	41	1,800				980	.68	1145	.90	1225	1.03	1375	1.29	1515	1.57	1585	1.72			
	37	2,000				1050	.87	1200	1.11	1275	1.24	1420	1.52	1550	1.82	1615	1.98			
	34	2,200				1125	1.11	1265	1.36	1330	1.50	1465	1.79	1590	2.11	1655	2.27			
31	2,400				1200	1.38	1330	1.66	1390	1.80	1515	2.11	1635	2.44	1695	2.61				
15	79	1,400				745	.31	960	.49	1055	.59	1235	.81	1385	1.05	1460	1.17			
	74	1,500				770	.35	970	.54	1065	.65	1240	.87	1395	1.12	1465	1.24			
	55	2,000				895	.65	1060	.89	1135	1.00	1285	1.26	1425	1.54	1495	1.69			
	44	2,500	150,000	60,000	120,000	1035	1.13	1180	1.40	1245	1.55	1370	1.84	1490	2.14	1550	2.30			
	37	3,000				1180	1.84	1310	2.12	1370	2.28	1480	2.64	1585	2.98	1640	3.16			
	32	3,500				1335	2.79	1450	3.10	1505	3.27	1605	3.66	1705	4.07	1750	4.27			
	31	3,600				1370	3.02	1475	3.34	1530	3.50	1630	3.89	1730	4.32	1775	4.53			
20	82	1,800				640	.33	830	.51	915	.62	1060	.84	1200	1.09	1265	1.23			
	74	2,000				665	.41	845	.60	925	.71	1075	.95	1205	1.20	1265	1.34			
	59	2,500				740	.66	895	.89	970	1.02	1105	1.28	1230	1.56	1290	1.70			
	49	3,000	200,000	80,000	160,000	825	1.02	965	1.29	1030	1.43	1150	1.72	1265	2.03	1320	2.19			
	42	3,500				915	1.50	1040	1.82	1100	1.98	1210	2.31	1315	2.64	1365	2.82			
	37	4,000				1005	2.12	1120	2.48	1175	2.67	1275	3.04	1375	3.41	1420	3.60			
	33	4,500				1105	2.91	1205	3.31	1255	3.52	1350	3.93	1440	4.35	1485	4.56			
	30	4,900				1185	3.67	1280	4.11	1325	4.33	1415	4.78							
25	80	2,300				685	.52	850	.74	930	.85	1075	1.10	1205	1.36	1260	1.50			
	74	2,500				715	.63	875	.86	945	.98	1085	1.23	1210	1.51	1270	1.66			
	61	3,000				790	.96	935	1.23	1000	1.37	1125	1.66	1240	1.96	1295	2.12			
	53	3,500	250,000	100,000	200,000	875	1.41	1005	1.72	1065	1.88	1175	2.21	1285	2.54	1335	2.71			
	46	4,000				960	1.99	1080	2.35	1135	2.53	1240	2.90	1340	3.27	1385	3.46			
	41	4,500				1055	2.73	1160	3.12	1210	3.32	1305	3.74	1400	4.15	1445	4.36			
	37	5,000				1145	3.65	1245	4.06	1290	4.29	1380	4.74							
	34	5,500				1240	4.76													
30	82	2,700				740	.58	960	.94	1055	1.14	1235	1.58	1390	2.04	1460	2.27			
	74	3,000				775	.72	975	1.09	1070	1.30	1245	1.76	1395	2.25	1470	2.50			
	55	4,000	300,000	120,000	240,000	905	1.33	1070	1.80	1145	2.03	1290	2.55	1435	3.11	1500	3.41			
	44	5,000				1045	2.30	1190	2.85	1255	3.14	1380	3.72	1500	4.33	1560	4.65			
	37	6,000				1195	3.73	1325	4.30	1385	4.64									
	34	6,500				1275	4.64													
35	81	3,200				630	.55	830	.91	915	1.10	1070	1.55	1210	2.05	1280	2.31			
	65	4,000				690	.86	865	1.26	945	1.48	1090	1.95	1220	2.47	1280	2.75			
	52	5,000				770	1.40	925	1.88	995	2.12	1125	2.65	1250	3.22	1310	3.51			
	43	6,000	350,000	140,000	280,000	860	2.18	995	2.73	1060	3.02	1180	3.60	1290	4.22	1345	4.55			
	37	7,000				960	3.22	1080	3.86	1135	4.18	1245	4.84							
	32	8,000				1060	4.56													
	30	8,500																		
40	80	3,700				650	.70	835	1.08	920	1.29	1070	1.74	1200	2.25	1265	2.52			
	74	4,000				670	.82	845	1.22	930	1.43	1075	1.90	1205	2.42	1265	2.69			
	59	5,000				745	1.34	900	1.81	975	2.05	1110	2.57	1235	3.13	1295	3.43			
	49	6,000	400,000	160,000	320,000	830	2.07	970	2.62	1035	2.90	1155	3.48	1270	4.09	1325	4.41			
	42	7,000				925	3.04	1045	3.68	1105	4.01	1215	4.66							
	37	8,000				1020	4.31													
	35									8,500										

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.

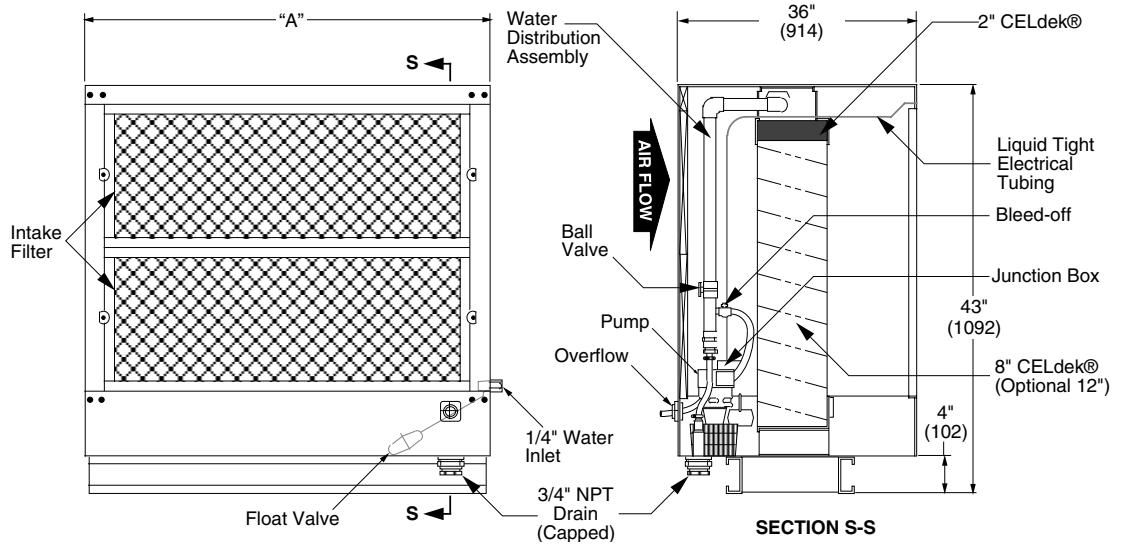
ME(10-40) (A,B)† D Accessories Pressure Drop Table

		Pressure Loss (Inches of Water)										
Model	CFM	Optional Rainhood		Filters						Evap. Pad		Outside or Return Air Damper
		With		Throwaway	Washable		Pleated		8"	12"		
		Screen	Elim.		1"	2"	1"	2"				
10	900	.01	.02	.03	<.01	<.01	.03	.02	<.01	.01	.02	
	1,000	.01	.02	.04	<.01	<.01	.04	.02	.01	.02	.02	
	1,200	.02	.03	.05	<.01	<.01	.05	.03	.02	.02	.03	
	1,400	.03	.04	.06	<.01	.01	.06	.03	.02	.03	.04	
	1,600	.04	.05	.07	.01	.02	.08	.04	.03	.04	.06	
	1,800	.05	.06	.08	.02	.02	.10	.05	.04	.06	.07	
	2,000	.06	.07	.09	.02	.03	.12	.07	.05	.07	.09	
	2,200	.07	.09	.10	.02	.03	.14	.08	.06	.08	.10	
	2,400	.08	.11	.12	.03	.04	.16	.09	.07	.10	.12	
15	1,400	.03	.04	.06	<.01	.01	.06	.03	.02	.03	.04	
	1,500	.03	.04	.06	.01	.02	.07	.04	.03	.04	.05	
	2,000	.06	.07	.09	.02	.03	.12	.07	.05	.07	.09	
	2,500	.09	.12	.12	.03	.04	.17	.10	.07	.11	.13	
	3,000	.13	.17	.16	.04	.06	.23	.14	.10	.15	.19	
	3,500	.18	.23	.19	.06	.08	.30	.18	.14	.21	.25	
	3,600	.19	.24	—	.06	.09	.31	.19	.15	.22	.27	
20	1,800	.02	.03	.06	<.01	.01	.07	.04	.02	.03	.03	
	2,000	.03	.04	.07	.01	.02	.08	.04	.03	.04	.04	
	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	
	4,900	.17	.22	—	.07	.10	.36	.22	.16	.23	.22	
25	2,300	.04	.05	.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	
	5,500	.21	.28	—	.09	.13	.44	.28	.20	.29	.28	
30	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	
	6,500	.17	.23	—	.07	.11	.38	.23	.17	.25	.22	
35	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	
	8,000	.26	.34	—	.11	.16	—	—	—	—	.33	
	8,500	.29	.39	—	.13	.18	—	—	—	—	.37	
40	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	
	8,000	.20	.27	—	.09	.12	.42	.26	.21	.31	.26	
	8,500	.23	.31	—	.10	.14	—	—	—	—	.30	

ME(10-40) (A,B)† D Evaporative Cooler Specifications

MODEL	A
10/15	32-7/8" (835)
20/25	43-7/8" (1114)
30/35	54-7/8" (1394)
40	60-3/8" (1534)

D3673A

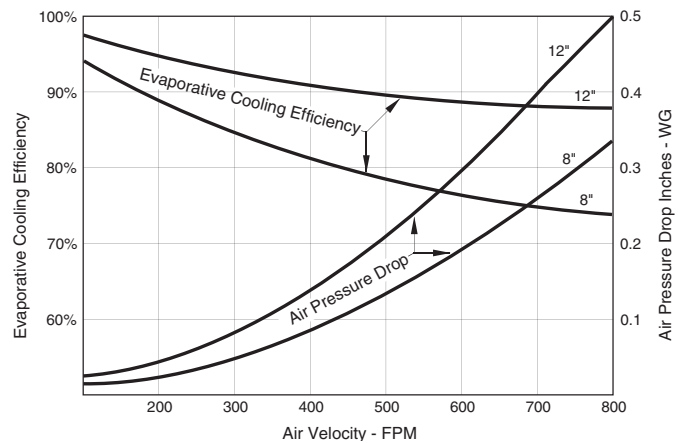


Performance and Dimensional Data

Capacity 10-40	CFM		8" Saturation Efficiency Range		12" Saturation Efficiency Range		8" or 12" Media Face Area		Pressure Drop in W.C.		"A" Unit Width in. (mm)	Shipping Wt. lb. (kg)	Operating Wt. lb. (kg)
	(cu. m/s) MIN.	(cu. m/s) MAX.	MIN.	MAX.	MIN.	MAX.	Ft.2 (m2)	Size in. (mm)	(kPa) MIN.	(kPa) MAX.			
10,15	800 (0.378)	4,500 (2.124)	78	88	89	92	7.01 (0.65)	31 x 32-9/16 (787 x 827)	0.03 (0.01)	0.23 (0.06)	32-3/4 (832)	137 (62)	301 (136)
20,25	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)
30,35	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)
40	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(10-40) (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*
ME10	715	846	43
ME15	744	875	43
ME20	895	1035	51
ME25	922	1062	51
ME30	1083	1232	59
ME35	1129	1278	59
ME40	1206	1359	63

Filter Data

Capacity	(Quantity) Filter Size
10, 15	(4) 16 x 20
20,25	(4) 20 x 20
30, 35	(4) 16 x 20
	(2) 20 x 20
40	(6) 20 x 20

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

* Optional – Shipped in a 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.