

INDOOR MAKE-UP AIR PRODUCTS

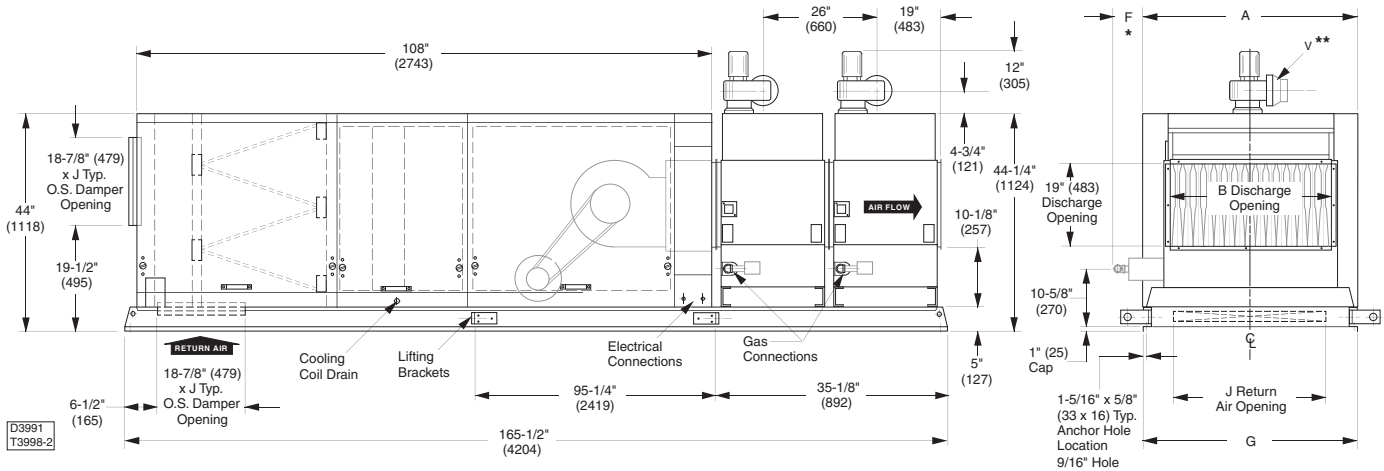
Model - ME(50-80) (A, B)† K

Unit Type (UT) - ME, Power Vent Rooftop Unit

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

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

Indoor Arrangement (IA) - K, High CFM Blower Unit with Cooling Module



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: _____



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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
- Cooling Coil in the Coil Module
- Return Air Openings / Dampers

ME(50-80) (A,B)† K 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: Indoor Arrangements (IA) "K" may utilize a maximum air flow of 6,500 CFM (3.1,m³/s) when the system is in the cooling mode. A higher air flow, up to 9,800 CFM (4.6,m³/s), may be achieved when the system utilizes a 2-speed motor in the heating mode. 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.

Indoor Arrangement (K) DX Cooling Coil Performance Data (Ref. R-22) 80°F Entering Dry Bulb, 67°F Entering Wet Bulb

Unit Capacity (CA)	Air Flow (SCFM)	Face Velocity (FPM)	Fin Spacing (FPF)	Capacity based on 80°F EDB, 67°F EWB, 45°F Sat. Suction, 100°F Liquid												
				NUMBER OF ROWS								Fin Spacing (FPF)	6			
				4				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)		Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)
				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)									
50	2500	338	98	80	58/ 56	0.28	114.1	102	98	54/ 54	0.42	158.1				
			135	89	56/ 55	0.33	121.8	134	106	53/ 53	0.48	168.0				
			159	93	55/ 55	0.37	126.7	167	112	52/ 52	0.58	178.3				
	4400	596	104	106	61/ 59	0.63	115.3	102	143	57/ 56	0.97	158.1				
			133	120	59/ 58	0.73	121.3	130	156	55/ 55	1.11	166.8				
			148	126	58/ 58	0.80	124.4	149	163	55/ 55	1.23	172.7				
60	2800	286	104	96	56/ 56	0.22	147.8	101	119	53/ 53	0.33	204.0				
			131	105	55/ 54	0.24	155.1	127	126	52/ 52	0.36	214.7				
			159	112	54/ 54	0.28	162.8	159	132	51/ 51	0.42	227.8				
	5800	593	100	148	60/ 59	0.63	146.7	100	178	58/ 57	0.93	203.4				
			129	167	59/ 57	0.73	154.6	131	199	56/ 56	1.09	216.1				
			151	178	58/ 57	0.83	160.6	151	211	55/ 55	1.25	224.5				
70	3200	327	105	106	57/ 56	0.27	148.0	103	132	53/ 53	0.41	204.8				
			132	116	55/ 55	0.30	155.4	130	140	52/ 52	0.45	215.9				
			164	125	54/ 54	0.36	164.2	158	146	51/51	0.52	227.4				
	5800	593	98	147	61/ 59	0.63	146.1	100	178	58/ 57	0.93	203.4				
			129	167	59/ 57	0.73	154.6	131	199	56/ 56	1.09	216.1				
			151	178	58/ 57	0.83	160.6	151	211	55/ 55	1.25	224.5				
80	3700	340	108	125	57/ 56	0.30	161.4	103	151	53/ 53	0.44	222.9				
			138	137	55/ 55	0.33	170.6	135	161	52/ 52	0.50	237.5				
			163	145	54/ 54	0.38	178.2	161	167	52/ 52	0.57	249.3				
	6500	599	100	168	60/ 58	0.65	159.0	109	212	57/ 56	1.02	225.6				
			127	186	59/ 58	0.74	167.2	135	232	55/ 55	1.14	237.3				
			150	198	58/ 57	0.84	174.2	150	241	55/ 55	1.25	244.1				

CONVERSIONS: 2119 SCFM = 1 m³/s, 196.8 FPM = 1 m/s, 3.412 MBH = 1 kW, (°F-32) 5/9= °C, 1 IN. W.C. = 248.8 Pa, 1 LB. = 0.453 kg.

- NOTES: 1) Data certified in accordance with ARI Standard 410.
 2) Capacity based on 80°F EDB, 67°F EWB, 45°F Sat. Suction, 100° F Liquid.
 3) Weight listed is the total weight of the dry coil.
 4) Coils denoted by an asterisk (*) require special pricing.
 5) Consult customer service department for special coil requirements.

Indoor Arrangement (K) DX Cooling Coil Performance Data (Ref. R-22) 95°F Entering Dry Bulb, 74°F Entering Wet Bulb

Unit Capacity (CA)	Air Flow (SCFM)	Face Velocity (FPM)	Fin Spacing (FPF)	Capacity based on 95°F EDB, 74°F EWB, 45°F Sat. Suction, 100°F Liquid									
				NUMBER OF ROWS									
				4				Fin	6				
				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)	Spacing (FPF)	Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)	
50	2500	338	98	118	62/ 60	0.28	114.1	107	143	57/ 57	0.42	159.4	
		338	129	135	59/ 58	0.32	120.4	136	154	56/ 55	0.48	168.4	
		338	157	145	57/ 57	0.36	126.2	164	162	54/ 54	0.56	177.1	
	4400	596	93	165	67/ 63	0.62	113.0	98	215	61/ 60	0.96	156.9	
		596	134	195	63/ 61	0.75	121.5	134	234	59/ 58	1.12	167.8	
		596	150	204	62/ 61	0.83	124.8	150	244	58/ 57	1.23	172.8	
60	2800	286	106	138	61/ 60	0.22	148.1	102	175	55/ 55	0.33	204.2	
		286	137	153	58/ 58	0.25	156.5	122	187	54/ 53	0.36	212.6	
		286	167	178	55/ 55	0.30	165.0	163	197	52/ 52	0.43	229.2	
	5800	593	97	225	66/ 63	0.64	145.8	98	290	60/ 59	0.95	202.5	
		593	138	254	63/ 61	0.75	156.8	132	326	58/ 57	1.13	216.5	
		593	151	265	62/ 61	0.83	160.6	151	341	57/ 56	1.26	224.3	
70	3200	327	95	162	61/ 59	0.27	145.3	104	195	56/ 56	0.40	205.0	
		327	130	181	58/ 57	0.31	154.9	139	212	54/ 54	0.47	219.4	
		327	152	190	57/ 56	0.34	160.9	162	220	53/ 53	0.53	228.8	
	5800	593	92	183	62/ 60	0.28	156.6	98	290	60/ 59	0.95	202.5	
		593	135	198	59/ 58	0.32	169.4	132	326	58/ 57	1.13	216.5	
		593	151	265	62/ 61	0.83	160.6	151	341	57/ 56	1.26	224.3	
80	3700	340	92	183	62/ 60	0.28	156.6	100	225	56/ 56	0.43	221.3	
		340	135	198	59/ 58	0.32	169.4	134	245	54/ 54	0.49	236.8	
		340	162	212	57/ 57	0.38	177.6	161	256	53/ 53	0.57	249.1	
	6500	599	103	251	66/ 63	0.64	159.7	97	328	60/ 59	0.96	219.9	
		599	134	287	63/61	0.75	169.1	132	367	58/ 57	1.14	235.9	
		599	149	302	62/ 60	0.82	173.7	150	381	57/ 56	1.26	244.1	

CONVERSIONS: 2119 SCFM = 1 m³/s, 196.8 FPM = 1 m/s, 3.412 MBH = 1 kW, (°F-32) 5/9= °C, 1 IN. W.C. = 248.8 Pa, 1 LB. = 0.453 kg.

NOTES: 1) Data certified in accordance with ARI Standard 410.

2) Capacity based on 95°F EDB, 74°F EWB, 45°F Sat. Suction, 100° F Liquid.

3) Weight listed is the total weight of the dry coil.

4) Consult customer service department for special coil requirements.

Indoor Arrangement (K) Chilled Water Cooling Coil Performance Data 80°F Entering Dry Bulb, 67°F Entering Wet Bulb

Unit Capacity (CA)	Air Flow (SCFM)	Face Velocity (FPM)	Fin Spacing (FPF)	Capacity based on 80°F EDB, 67°F EWB, 45°F EWT, 70 GPM								
				NUMBER OF ROWS								
				4				6				
				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)		Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)
50	2300	311	84	92	55/ 53	0.21	82.5	84	111	51/ 50	0.31	113.1
		311	122	105	52/ 51	0.26	90.3	115	121	49/ 49	0.38	122.7
		311	163	120	49/ 49	0.32	101.0	153	132	47/ 47	0.44	137.7
	4300	582	84	127	60/ 57	0.54	82.5	84	163	55/ 54	0.82	113.1
		582	115	145	57/ 56	0.64	88.9	103	175	54/ 53	0.91	119.0
		582	157	162	55/ 54	0.80	97.6	125	186	53/ 52	1.00	125.8
60	2700	276	84	112	54/ 53	0.17	106.5	84	134	50/ 50	0.26	146.9
		276	129	129	51/ 51	0.22	118.8	115	145	48/ 48	0.31	159.6
		276	160	143	49/ 48	0.25	130.2	155	157	46/ 46	0.37	180.3
	5700	583	84	165	60/ 57	0.55	106.5	84	211	56/ 55	0.82	146.9
		583	102	179	58/ 57	0.60	111.5	102	226	54/ 54	0.89	154.3
		583	125	194	57/ 56	0.67	117.7	126	241	53/ 53	1.00	164.1
70	3200	327	84	124	55/ 54	0.23	106.5	84	151	51/ 51	0.34	146.9
		327	88	133	54/ 53	0.24	110.5	103	160	50/ 50	0.39	154.7
		327	156	152	51/ 51	0.33	126.2	124	167	49/ 49	0.42	163.3
	5700	583	84	165	60/ 57	0.55	106.5	84	211	56/ 55	0.82	146.9
		583	102	179	58/ 57	0.60	111.5	102	226	54/ 54	0.89	154.3
		583	125	194	57/ 56	0.67	117.7	126	241	53/ 53	1.00	164.1
80	3700	340	84	140	56/ 54	0.24	115.2	84	171	52/ 51	0.36	159.2
		340	122	160	53/ 52	0.30	126.7	109	184	50/ 50	0.42	170.6
		340	162	174	51/ 51	0.36	138.9	160	200	48/ 48	0.54	193.9
	6300	580	84	181	60/ 57	0.54	115.2	84	231	56/ 55	0.81	159.2
		580	104	198	58/ 57	0.60	121.2	104	249	54/ 54	0.89	168.4
		580	146	225	56/ 55	0.73	134.0	125	264	53/ 53	0.98	177.9

CONVERSIONS: 2119 SCFM = 1 m³/s, 196.8 FPM = 1 m/s, 3.412 MBH = 1 kW, (°F-32) 5/9= °C, 1 IN. W.C. = 248.8 Pa, 1 LB. = 0.453 kg.

- NOTES: 1) Data certified in accordance with ARI Standard 410.
 2) Capacity based on 80°F EDB, 67°F EWB, 45°F EWT, 70 GPM.
 3) Weight listed is the total weight of the dry coil.
 4) Consult customer service department for special coil requirements.

Indoor Arrangement (K) Chilled Water Cooling Coil Performance Data 95°F Entering Dry Bulb, 74°F Entering Wet Bulb

Unit Capacity (CA)	Air Flow (SCFM)	Face Velocity (FPM)	Fin Spacing (FPF)	Capacity based on 95°F EDB, 74°F EWB, 45°F EWT, 70 GPM												
				NUMBER OF ROWS								Fin Spacing (FPF)	6			
				4				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)		Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)
				Capacity (MBH)	L.A.T. (DB / WB)	A.P.D. In.W.C.	WT. (LBS)									
50	2300	311	84	130	59/ 57	0.21	82.5	84	158	53/ 53	0.31	113.1				
		311	111	144	56/ 55	0.25	88.1	110	170	51/ 51	0.37	121.1				
		311	163	161	53/ 52	0.31	98.8	154	188	48/ 48	0.45	138.0				
	4300	582	84	179	66/ 62	0.54	82.5	84	230	60/ 58	0.81	113.1				
		582	103	195	64/ 61	0.60	86.4	112	254	57/ 56	0.93	121.8				
		582	126	211	61/ 60	0.66	91.2	154	279	54/ 54	1.16	134.8				
60	2700	276	84	158	58/ 56	0.17	106.5	84	190	53/ 52	0.26	146.9				
		276	110	174	55/ 54	0.20	113.6	106	202	51/ 50	0.30	155.9				
		276	156	192	52/ 52	0.25	126.2	155	217	48/ 48	0.37	176.0				
	5700	583	84	232	66/ 62	0.54	106.5	84	297	60/ 59	0.80	146.9				
		583	110	260	63/ 61	0.61	113.6	112	328	58/ 57	0.92	158.4				
		583	158	297	60/ 59	0.78	126.8	156	362	55/ 55	1.16	176.4				
70	3200	327	84	175	60/ 58	0.23	106.5	84	214	54/ 53	0.34	146.9				
		327	108	192	57/ 56	0.26	113.1	109	230	52/ 52	0.40	157.1				
		327	156	215	54/ 53	0.32	126.2	156	248	49/ 49	0.49	176.4				
	5700	583	84	232	66/ 62	0.54	106.5	84	297	60/ 59	0.80	146.9				
		583	111	261	63/ 61	0.61	113.9	112	328	58/ 57	0.92	158.4				
		583	155	295	60/ 59	0.77	125.9	156	362	55/ 55	1.16	176.4				
80	3700	340	84	198	61/ 58	0.24	115.2	84	242	55/ 54	0.36	159.2				
		340	114	221	57/ 56	0.29	124.3	111	262	52/ 52	0.43	171.6				
		340	159	245	54/ 54	0.35	137.9	156	293	49/ 49	0.52	196.8				
	6300	580	84	255	66/ 62	0.53	115.2	84	326	60/ 59	0.79	159.2				
		580	104	279	64/ 61	0.59	121.2	110	358	58/ 57	0.90	171.1				
		580	126	301	62/ 60	0.65	127.9	155	396	55/ 55	1.14	191.6				

CONVERSIONS: 2119 SCFM = 1 m³/s, 196.8 FPM = 1 m/s, 3.412 MBH = 1 kW, (°F-32) 5/9= °C, 1 IN. W.C. = 248.8 Pa, 1 LB. = 0.453 kg.

NOTES: 1) Data certified in accordance with ARI Standard 410.

2) Capacity based on 95°F EDB, 74°F EWB, 45°F EWT, 70 GPM.

3) Weight listed is the total weight of the dry coil.

4) Consult customer service department for special coil requirements.

MU(50-80) (A,B)† K Accessories Pressure Drop Table

CAPACITY		PRESSURE LOSS (INCHES OF WATER)							OUTSIDE OR RETURN AIR DAMPER
		OPTIONAL RAINHOOD WITH		FILTERS					
				THROWAWAY	WASHABLE		PLEATED		
		SCREEN	ELIM	2"	1"	2"	1"	2"	
50	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
	6,000	.25	.33	.16	.04	.06	.23	.14	.33
60	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
70	3,200	.04	.05	.03	<.01	<.01	.04	.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
	8,000	.26	.34	.12	.03	.04	.17	.10	.33
	8,600	.30	.40	.13	.03	.05	.19	.11	.38
80	3,700	.04	.06	.03	<.01	<.01	.04	.02	.06
	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

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

Unit Weights

Approximate weights for Arrangement "K" (Less Coil & Motor)†			
Unit Type	Net Wt.†	Ship Wt.†	Add for Optional
Capacity	(Lb.)	(Lb.)	Outside Air Hood*
ME50	1311	1501	51
ME60	1544	1745	59
ME70	1613	1814	59
ME80	1730	1936	63

Filter Data

Capacity	(Quantity) Filter Size
50	(8) 20 x 20
60, 70	(8) 16 x 20 (4) 20 x 20
80	(12) 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	+
(EXX)	M	E	*	*	*	†	K										

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