

### COMPRESSOR DEFINITION

Designation	FMF T415L
Nominal Voltage/Frequency	230 V 46-150 Hz
Engineering Number	513805025

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	HFO		
3 Nominal voltage and frequency	230 / 46-150	[ V / Hz ]	
4 Application type	LowMedium BackPressure LightCO (Hot Gas Defrost Not Allowed)		
4.1 Evaporating temperature range	-40°C to 5°C	(-40°F to 41°F)	
5 Motor type	BPM		
6 Starting torque	LST/HST - Low/High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	15.72	[kgf/cm <sup>2</sup> ] (224 psig)	/ °C - °F
9.2 Peak	19.82	[kgf/cm <sup>2</sup> ] (282 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1/2	[hp]
2 Displacement	14.77	[cm <sup>3</sup> ] (0.901 cu.in)
2.1 Bore [mm]	28.000	
2.2 Stroke [mm]	24.000	
3 Lubricant charge	430	[ml] (14.54 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO10	
4 Weight (with oil charge)	10.87	[kg] (23.96 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm <sup>2</sup> ] (2.84 to 4.27 psig)

### C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 46-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF10B01 N 0.1 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	CF10B01 N 0.1 XX A Y	
6 Start winding resistance	3.79	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	3.79	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	7.00/7.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	3.40/3.40	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	3.40/3.40	[A] - Measured according to UL 984
11 Approval boards certification		

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: <b>@100V1400RPM</b>			<b>ASHRAELBP32 Fan</b>		Evaporating temperature (Condensing temperature)		<b>-23.3°C (-9.94°F) 54.4°C (129.92°F)</b>	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
821	207	240	136	2.01	5.66	6.03	1.52	1.77

TEST CONDITIONS: <b>@100V1600RPM</b>			<b>ASHRAELBP32 Fan</b>		Evaporating temperature (Condensing temperature)		<b>-23.3°C (-9.94°F) 54.4°C (129.92°F)</b>	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
924	233	271	152	2.24	6.37	6.07	1.53	1.78

TEST CONDITIONS: <b>@100V3000RPM</b>			<b>ASHRAELBP32 Fan</b>		Evaporating temperature (Condensing temperature)		<b>-23.3°C (-9.94°F) 54.4°C (129.92°F)</b>	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1589	400	465	276	3.88	10.96	5.76	1.45	1.69

TEST CONDITIONS: <b>@100V3600RPM</b>			<b>ASHRAELBP32 Fan</b>		Evaporating temperature (Condensing temperature)		<b>-23.3°C (-9.94°F) 54.4°C (129.92°F)</b>	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1809	456	530	329	4.54	12.47	5.49	1.38	1.61

TEST CONDITIONS: <b>@100V4500RPM</b>			<b>ASHRAELBP32 Fan</b>		Evaporating temperature (Condensing temperature)		<b>-23.3°C (-9.94°F) 54.4°C (129.92°F)</b>	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
2077	523	608	415	5.60	14.32	5.01	1.26	1.47

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V1400RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	364	92	107	70	1.23	2.33	5.05	1.27	1.48	
-35 (-31)	455	115	133	81	1.35	2.68	5.67	1.43	1.66	
-30 (-22)	592	149	173	94	1.52	3.31	6.41	1.61	1.88	
-25 (-13)	781	197	229	109	1.74	4.27	7.29	1.84	2.13	
-20 (- 4)	1028	259	301	125	1.97	5.60	8.31	2.09	2.43	
-15 (+ 5)	1340	338	393	143	2.22	7.33	9.49	2.39	2.78	
-10 (+14)	1720	434	504	160	2.47	9.50	10.83	2.73	3.17	
-5 (+23)	2177	548	638	177	2.70	12.16	12.35	3.11	3.62	
0 (+32)	2714	684	795	193	2.91	15.35	14.05	3.54	4.12	
+5 (+41)	3338	841	978	208	3.07	19.11	15.95	4.02	4.67	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V1400RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	297	75	87	69	1.16	2.25	4.37	1.10	1.28	
-35 (-31)	408	103	119	83	1.31	3.03	4.96	1.25	1.45	
-30 (-22)	563	142	165	99	1.53	4.11	5.62	1.42	1.65	
-25 (-13)	768	194	225	119	1.79	5.54	6.36	1.60	1.86	
-20 (- 4)	1030	259	302	140	2.09	7.33	7.20	1.81	2.11	
-15 (+ 5)	1352	341	396	164	2.42	9.55	8.13	2.05	2.38	
-10 (+14)	1743	439	511	188	2.76	12.22	9.17	2.31	2.69	
-5 (+23)	2207	556	647	213	3.10	15.39	10.34	2.61	3.03	
0 (+32)	2750	693	806	237	3.42	19.10	11.64	2.93	3.41	
+5 (+41)	3378	851	990	261	3.72	23.39	13.07	3.29	3.83	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@100V1400RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	249	63	73	68	1.14	1.33	3.80	0.96	1.11	
-35 (-31)	367	92	107	84	1.32	2.21	4.41	1.11	1.29	
-30 (-22)	527	133	154	104	1.58	3.40	5.03	1.27	1.47	
-25 (-13)	735	185	215	128	1.90	4.94	5.68	1.43	1.66	
-20 (- 4)	997	251	292	154	2.26	6.86	6.36	1.60	1.86	
-15 (+ 5)	1319	332	386	184	2.67	9.22	7.09	1.79	2.08	
-10 (+14)	1706	430	500	214	3.10	12.05	7.87	1.98	2.31	
-5 (+23)	2164	545	634	247	3.54	15.38	8.73	2.20	2.56	
0 (+32)	2700	680	791	280	3.98	19.27	9.66	2.43	2.83	
+5 (+41)	3318	836	972	313	4.40	23.74	10.67	2.69	3.13	

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	220	55	64	66	1.17	1.74	3.24	0.82	0.95
-35	(-31)	332	84	97	85	1.38	2.37	3.90	0.98	1.14
-30	(-22)	484	122	142	108	1.68	3.32	4.52	1.14	1.32
-25	(-13)	682	172	200	136	2.05	4.63	5.11	1.29	1.50
-20	(- 4)	932	235	273	167	2.48	6.34	5.68	1.43	1.66
-15	(+ 5)	1239	312	363	202	2.96	8.49	6.25	1.57	1.83
-10	(+14)	1610	406	472	239	3.48	11.13	6.81	1.72	2.00
-5	(+23)	2050	516	601	279	4.02	14.28	7.39	1.86	2.17
0	(+32)	2564	646	751	320	4.57	18.00	7.99	2.01	2.34
+5	(+41)	3160	796	926	363	5.12	22.32	8.62	2.17	2.53

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	374	94	110	74	1.33	2.38	4.96	1.25	1.45
-35	(-31)	519	131	152	93	1.54	3.04	5.59	1.41	1.64
-30	(-22)	700	176	205	111	1.77	3.93	6.33	1.60	1.86
-25	(-13)	925	233	271	130	2.02	5.09	7.21	1.82	2.11
-20	(- 4)	1203	303	353	148	2.28	6.58	8.23	2.07	2.41
-15	(+ 5)	1542	389	452	165	2.55	8.46	9.39	2.37	2.75
-10	(+14)	1949	491	571	183	2.81	10.78	10.70	2.70	3.13
-5	(+23)	2434	613	713	200	3.05	13.61	12.16	3.06	3.56
0	(+32)	3003	757	880	218	3.27	16.98	13.77	3.47	4.04
+5	(+41)	3666	924	1074	235	3.46	20.97	15.55	3.92	4.56

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	340	86	100	78	1.30	2.59	4.43	1.12	1.30
-35	(-31)	485	122	142	97	1.51	3.59	5.01	1.26	1.47
-30	(-22)	665	168	195	117	1.77	4.83	5.67	1.43	1.66
-25	(-13)	886	223	260	137	2.05	6.36	6.41	1.62	1.88
-20	(- 4)	1158	292	339	159	2.36	8.22	7.24	1.83	2.12
-15	(+ 5)	1489	375	436	181	2.69	10.49	8.16	2.06	2.39
-10	(+14)	1886	475	553	204	3.02	13.21	9.18	2.31	2.69
-5	(+23)	2359	594	691	228	3.35	16.44	10.30	2.59	3.02
0	(+32)	2914	734	854	253	3.68	20.23	11.52	2.90	3.38
+5	(+41)	3560	897	1043	279	3.99	24.65	12.86	3.24	3.77

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	300	76	88	78	1.30	1.65	3.91	0.99	1.15
-35	(-31)	444	112	130	98	1.52	2.71	4.50	1.13	1.32
-30	(-22)	620	156	182	120	1.80	4.01	5.12	1.29	1.50
-25	(-13)	836	211	245	144	2.12	5.61	5.76	1.45	1.69
-20	(- 4)	1101	277	322	170	2.49	7.57	6.45	1.62	1.89
-15	(+ 5)	1421	358	417	197	2.89	9.93	7.17	1.81	2.10
-10	(+14)	1807	455	529	226	3.31	12.76	7.94	2.00	2.33
-5	(+23)	2265	571	664	258	3.74	16.10	8.76	2.21	2.57
0	(+32)	2804	707	822	291	4.18	20.03	9.63	2.43	2.82
+5	(+41)	3432	865	1006	326	4.62	24.59	10.57	2.66	3.10

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	254	64	74	75	1.31	1.98	3.35	0.84	0.98
-35	(-31)	395	99	116	97	1.55	2.81	3.99	1.01	1.17
-30	(-22)	565	142	166	122	1.87	3.88	4.61	1.16	1.35
-25	(-13)	774	195	227	150	2.24	5.27	5.20	1.31	1.52
-20	(- 4)	1029	259	302	180	2.67	7.02	5.78	1.46	1.69
-15	(+ 5)	1339	337	392	214	3.15	9.19	6.35	1.60	1.86
-10	(+14)	1711	431	501	250	3.66	11.83	6.91	1.74	2.03
-5	(+23)	2153	543	631	289	4.20	15.01	7.48	1.88	2.19
0	(+32)	2675	674	784	332	4.77	18.77	8.05	2.03	2.36
+5	(+41)	3283	827	962	377	5.35	23.18	8.64	2.18	2.53

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	633	159	185	139	2.22	4.03	4.55	1.15	1.33
-35	(-31)	868	219	254	168	2.54	5.09	5.19	1.31	1.52
-30	(-22)	1177	297	345	200	2.95	6.60	5.90	1.49	1.73
-25	(-13)	1571	396	460	236	3.44	8.63	6.67	1.68	1.95
-20	(- 4)	2059	519	603	275	3.99	11.26	7.48	1.88	2.19
-15	(+ 5)	2652	668	777	318	4.60	14.56	8.33	2.10	2.44
-10	(+14)	3360	847	984	365	5.24	18.60	9.20	2.32	2.70
-5	(+23)	4192	1056	1228	415	5.90	23.45	10.10	2.55	2.96
0	(+32)	5159	1300	1512	469	6.58	29.18	11.01	2.78	3.23
+5	(+41)	6272	1580	1838	526	7.24	35.86	11.93	3.01	3.49

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	582	147	171	137	2.17	4.43	4.24	1.07	1.24
-35	(-31)	815	205	239	171	2.53	6.05	4.79	1.21	1.40
-30	(-22)	1122	283	329	208	3.00	8.17	5.40	1.36	1.58
-25	(-13)	1514	381	443	249	3.55	10.86	6.07	1.53	1.78
-20	(- 4)	1999	504	586	295	4.17	14.19	6.77	1.71	1.98
-15	(+ 5)	2589	652	759	344	4.85	18.23	7.51	1.89	2.20
-10	(+14)	3294	830	965	398	5.57	23.06	8.28	2.09	2.43
-5	(+23)	4123	1039	1208	455	6.33	28.73	9.06	2.28	2.65
0	(+32)	5088	1282	1491	517	7.10	35.34	9.85	2.48	2.89
+5	(+41)	6197	1562	1816	583	7.87	42.93	10.63	2.68	3.12

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	516	130	151	133	2.11	2.84	3.89	0.98	1.14
-35	(-31)	744	187	218	171	2.52	4.53	4.37	1.10	1.28
-30	(-22)	1045	263	306	213	3.04	6.76	4.92	1.24	1.44
-25	(-13)	1431	361	419	260	3.66	9.61	5.51	1.39	1.61
-20	(- 4)	1910	481	560	311	4.35	13.14	6.13	1.55	1.80
-15	(+ 5)	2494	629	731	367	5.12	17.42	6.79	1.71	1.99
-10	(+14)	3193	805	936	428	5.93	22.53	7.46	1.88	2.19
-5	(+23)	4016	1012	1177	493	6.78	28.53	8.15	2.05	2.39
0	(+32)	4974	1254	1458	563	7.66	35.51	8.84	2.23	2.59
+5	(+41)	6077	1531	1781	638	8.55	43.52	9.52	2.40	2.79

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	435	110	127	125	2.03	3.39	3.47	0.87	1.02
-35	(-31)	654	165	192	167	2.50	4.65	3.91	0.99	1.15
-30	(-22)	946	238	277	215	3.09	6.50	4.41	1.11	1.29
-25	(-13)	1322	333	387	267	3.77	9.00	4.95	1.25	1.45
-20	(- 4)	1793	452	525	325	4.55	12.23	5.52	1.39	1.62
-15	(+ 5)	2368	597	694	387	5.40	16.25	6.12	1.54	1.79
-10	(+14)	3057	770	896	455	6.31	21.14	6.73	1.70	1.97
-5	(+23)	3870	975	1134	528	7.27	26.98	7.35	1.85	2.15
0	(+32)	4819	1214	1412	606	8.26	33.82	7.96	2.01	2.33
+5	(+41)	5912	1490	1732	689	9.27	41.75	8.57	2.16	2.51

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F) )					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	702	177	206	162	2.50	4.47	4.31	1.09	1.26
-35	(-31)	964	243	283	197	2.91	5.64	4.92	1.24	1.44
-30	(-22)	1318	332	386	238	3.44	7.37	5.55	1.40	1.63
-25	(-13)	1772	447	519	286	4.07	9.73	6.20	1.56	1.82
-20	(- 4)	2335	588	684	339	4.80	12.77	6.88	1.73	2.02
-15	(+ 5)	3016	760	884	398	5.59	16.57	7.57	1.91	2.22
-10	(+14)	3824	964	1121	462	6.45	21.18	8.28	2.09	2.43
-5	(+23)	4768	1202	1397	530	7.34	26.68	9.00	2.27	2.64
0	(+32)	5858	1476	1717	601	8.26	33.13	9.75	2.46	2.86
+5	(+41)	7102	1790	2081	676	9.19	40.60	10.50	2.65	3.08

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F) )					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	644	162	189	161	2.45	4.91	4.01	1.01	1.17
-35	(-31)	906	228	265	199	2.89	6.73	4.57	1.15	1.34
-30	(-22)	1258	317	369	245	3.47	9.17	5.14	1.30	1.51
-25	(-13)	1711	431	501	298	4.16	12.28	5.74	1.45	1.68
-20	(- 4)	2272	573	666	358	4.96	16.13	6.34	1.60	1.86
-15	(+ 5)	2952	744	865	423	5.83	20.78	6.96	1.75	2.04
-10	(+14)	3759	947	1101	495	6.78	26.30	7.60	1.91	2.23
-5	(+23)	4702	1185	1378	571	7.78	32.76	8.24	2.08	2.41
0	(+32)	5790	1459	1697	652	8.81	40.21	8.89	2.24	2.60
+5	(+41)	7032	1772	2061	736	9.87	48.73	9.55	2.41	2.80

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F) )					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	565	142	166	155	2.39	3.07	3.65	0.92	1.07
-35	(-31)	824	208	242	198	2.88	5.01	4.18	1.05	1.22
-30	(-22)	1175	296	344	249	3.51	7.60	4.72	1.19	1.38
-25	(-13)	1625	410	476	308	4.27	10.92	5.27	1.33	1.54
-20	(- 4)	2185	551	640	375	5.13	15.03	5.82	1.47	1.71
-15	(+ 5)	2862	721	839	448	6.10	19.99	6.39	1.61	1.87
-10	(+14)	3667	924	1074	527	7.14	25.86	6.96	1.75	2.04
-5	(+23)	4607	1161	1350	613	8.25	32.72	7.53	1.90	2.21
0	(+32)	5693	1435	1668	703	9.41	40.63	8.11	2.04	2.38
+5	(+41)	6933	1747	2032	798	10.60	49.66	8.68	2.19	2.54

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	464	117	136	144	2.34	3.65	3.23	0.81	0.95	
-35 (-31)	721	182	211	193	2.87	5.14	3.74	0.94	1.10	
-30 (-22)	1068	269	313	250	3.56	7.35	4.26	1.07	1.25	
-25 (-13)	1516	382	444	316	4.39	10.32	4.78	1.20	1.40	
-20 (- 4)	2072	522	607	390	5.34	14.14	5.30	1.34	1.55	
-15 (+ 5)	2746	692	805	471	6.40	18.86	5.83	1.47	1.71	
-10 (+14)	3548	894	1040	560	7.55	24.54	6.35	1.60	1.86	
-5 (+23)	4485	1130	1314	654	8.77	31.26	6.87	1.73	2.01	
0 (+32)	5568	1403	1632	755	10.06	39.08	7.38	1.86	2.16	
+5 (+41)	6805	1715	1994	861	11.39	48.06	7.89	1.99	2.31	

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	807	203	237	203	3.08	5.17	3.94	0.99	1.16	
-35 (-31)	1074	271	315	241	3.51	6.24	4.49	1.13	1.32	
-30 (-22)	1486	375	435	296	4.19	8.25	5.03	1.27	1.47	
-25 (-13)	2033	512	596	364	5.06	11.14	5.57	1.40	1.63	
-20 (- 4)	2705	682	793	439	6.06	14.83	6.13	1.54	1.80	
-15 (+ 5)	3489	879	1022	518	7.11	19.27	6.71	1.69	1.97	
-10 (+14)	4377	1103	1282	596	8.15	24.37	7.35	1.85	2.15	
-5 (+23)	5356	1350	1569	669	9.11	30.08	8.04	2.03	2.36	
0 (+32)	6416	1617	1880	731	9.93	36.32	8.80	2.22	2.58	
+5 (+41)	7546	1902	2211	779	10.53	43.01	9.66	2.43	2.83	

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	706	178	207	194	2.91	5.42	3.61	0.91	1.06	
-35 (-31)	985	248	289	240	3.42	7.34	4.14	1.04	1.21	
-30 (-22)	1405	354	412	302	4.19	10.21	4.66	1.17	1.37	
-25 (-13)	1957	493	573	377	5.14	13.98	5.17	1.30	1.52	
-20 (- 4)	2628	662	770	459	6.20	18.56	5.69	1.43	1.67	
-15 (+ 5)	3408	859	999	544	7.32	23.90	6.24	1.57	1.83	
-10 (+14)	4287	1080	1256	627	8.42	29.92	6.83	1.72	2.00	
-5 (+23)	5254	1324	1539	704	9.44	36.55	7.48	1.88	2.19	
0 (+32)	6297	1587	1845	771	10.31	43.73	8.19	2.06	2.40	
+5 (+41)	7407	1866	2170	823	10.96	51.39	8.98	2.26	2.63	



### E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	606	153	178	182	2.78	3.29	3.31	0.83	0.97
-35	(-31)	889	224	261	235	3.37	5.41	3.82	0.96	1.12
-30	(-22)	1310	330	384	305	4.21	8.51	4.31	1.09	1.26
-25	(-13)	1857	468	544	386	5.23	12.50	4.79	1.21	1.40
-20	(- 4)	2519	635	738	474	6.37	17.33	5.28	1.33	1.55
-15	(+ 5)	3287	828	963	565	7.55	22.93	5.79	1.46	1.70
-10	(+14)	4149	1046	1216	654	8.71	29.22	6.34	1.60	1.86
-5	(+23)	5094	1284	1493	736	9.78	36.14	6.93	1.75	2.03
0	(+32)	6112	1540	1791	807	10.70	43.61	7.59	1.91	2.22
+5	(+41)	7192	1812	2108	863	11.40	51.58	8.33	2.10	2.44

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	510	129	149	167	2.67	3.94	3.02	0.76	0.88
-35	(-31)	788	199	231	228	3.34	5.62	3.51	0.88	1.03
-30	(-22)	1200	302	352	304	4.26	8.29	3.98	1.00	1.17
-25	(-13)	1734	437	508	392	5.35	11.87	4.43	1.12	1.30
-20	(- 4)	2379	600	697	486	6.56	16.30	4.88	1.23	1.43
-15	(+ 5)	3125	788	916	582	7.80	21.51	5.35	1.35	1.57
-10	(+14)	3962	998	1161	676	9.02	27.42	5.85	1.47	1.71
-5	(+23)	4877	1229	1429	763	10.14	33.98	6.40	1.61	1.87
0	(+32)	5861	1477	1718	838	11.11	41.11	7.00	1.76	2.05
+5	(+41)	6903	1740	2023	898	11.85	48.74	7.68	1.94	2.25

### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal EG/F/AMEM version 2		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.2 +0.12/-0.08	[mm]	(0.323" +0.005"/-0.003")
3.1.1 Material	Copper		
3.1.2 Shape	Straight		
3.2 DISCHARGE	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.3.1 Material	Copper		
3.3.2 Shape	Straight		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		