

COMPRESSOR DEFINITION

Designation	FM FT406U
Nominal Voltage/Frequency	230 V 46-150 Hz
Engineering Number	513805019

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	230 / 46-150	[V / Hz]	
4 Application type	Low-Medium Back Pressure (Light Commercial - Curves until T.Evap -		
4.1 Evaporating temperature range	-40°C to 0°C	(-40°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	HST - Hight 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	18.4	[kgf/cm ²] (262 psig)	/ °C - °F
9.2 Peak	20.6	[kgf/cm ²] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/2	[hp]
2 Displacement	6.44	[cm ³] (0.393 cu.in)
2.1 Bore [mm]	22.500	
2.2 Stroke [mm]	16.200	
3 Lubricant charge	430	[ml] (14.54 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	10.28	[kg] (22.66 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELETRICAL 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	VCC3 1156 SXXXX	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	VCC31156SXXXX	
6 Start winding resistance	10.55	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	10.55	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification		

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V1400RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
472	119	138	79	1.10	1.40	5.98	1.51	1.75

TEST CONDITIONS: @115V1800RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
643	162	188	103	1.40	1.91	6.26	1.58	1.83

TEST CONDITIONS: @115V2400RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
851	214	249	136	1.81	2.53	6.28	1.58	1.84

TEST CONDITIONS: @115V3000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1108	279	325	176	2.32	3.30	6.28	1.58	1.84

TEST CONDITIONS: @115V3600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1323	333	388	215	2.77	3.94	6.16	1.55	1.81

TEST CONDITIONS: @115V4500RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1746	440	512	287	3.64	5.20	6.08	1.53	1.78

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	272	69	80	50	0.77	0.80	5.46	1.38	1.60
-35	(-31)	333	84	98	54	0.82	0.99	6.12	1.54	1.79
-30	(-22)	416	105	122	60	0.89	1.23	6.85	1.73	2.01
-25	(-13)	521	131	153	68	0.96	1.55	7.68	1.94	2.25
-20	(- 4)	649	164	190	75	1.04	1.94	8.67	2.19	2.54
-15	(+ 5)	801	202	235	82	1.12	2.40	9.88	2.49	2.89
-10	(+14)	977	246	286	88	1.18	2.94	11.35	2.86	3.33
-5	(+23)	1179	297	345	91	1.24	3.57	13.14	3.31	3.85
0	(+32)	1406	354	412	90	1.28	4.28	15.29	3.85	4.48

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	230	58	67	49	0.76	0.68	4.73	1.19	1.38
-35	(-31)	291	73	85	54	0.84	0.86	5.33	1.34	1.56
-30	(-22)	373	94	109	62	0.93	1.11	5.93	1.50	1.74
-25	(-13)	478	120	140	71	1.03	1.42	6.58	1.66	1.93
-20	(- 4)	605	152	177	81	1.13	1.80	7.32	1.85	2.15
-15	(+ 5)	755	190	221	91	1.24	2.26	8.22	2.07	2.41
-10	(+14)	930	234	273	100	1.34	2.80	9.31	2.35	2.73
-5	(+23)	1130	285	331	107	1.43	3.42	10.66	2.69	3.12
0	(+32)	1356	342	397	111	1.51	4.12	12.31	3.10	3.61

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	199	50	58	50	0.74	0.59	4.02	1.01	1.18
-35	(-31)	256	64	75	56	0.84	0.76	4.65	1.17	1.36
-30	(-22)	334	84	98	64	0.95	0.99	5.20	1.31	1.52
-25	(-13)	434	109	127	75	1.08	1.29	5.74	1.45	1.68
-20	(- 4)	557	140	163	87	1.22	1.66	6.32	1.59	1.85
-15	(+ 5)	703	177	206	99	1.35	2.10	6.98	1.76	2.04
-10	(+14)	873	220	256	111	1.49	2.63	7.77	1.96	2.28
-5	(+23)	1068	269	313	121	1.61	3.23	8.76	2.21	2.57
0	(+32)	1288	325	377	130	1.73	3.92	9.99	2.52	2.93

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1400RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	177	45	52	53	0.71	0.52	3.19	0.80	0.93
-35	(-31)	227	57	66	59	0.84	0.67	3.92	0.99	1.15
-30	(-22)	298	75	87	68	0.97	0.88	4.52	1.14	1.32
-25	(-13)	390	98	114	79	1.13	1.16	5.03	1.27	1.47
-20	(- 4)	505	127	148	93	1.29	1.51	5.51	1.39	1.62
-15	(+ 5)	643	162	188	107	1.46	1.93	6.02	1.52	1.76
-10	(+14)	805	203	236	121	1.62	2.42	6.60	1.66	1.93
-5	(+23)	992	250	291	135	1.78	3.00	7.30	1.84	2.14
0	(+32)	1203	303	353	147	1.93	3.66	8.19	2.06	2.40

TEST CONDITIONS: @115V1800RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	306	77	90	60	0.83	0.90	5.08	1.28	1.49
-35	(-31)	411	104	120	70	0.96	1.22	5.85	1.47	1.71
-30	(-22)	531	134	156	79	1.08	1.58	6.69	1.68	1.96
-25	(-13)	672	169	197	88	1.20	2.00	7.64	1.92	2.24
-20	(- 4)	838	211	246	96	1.30	2.50	8.74	2.20	2.56
-15	(+ 5)	1034	261	303	103	1.39	3.10	10.04	2.53	2.94
-10	(+14)	1264	319	370	110	1.47	3.81	11.58	2.92	3.39
-5	(+23)	1533	386	449	115	1.53	4.64	13.39	3.38	3.92
0	(+32)	1846	465	541	118	1.57	5.61	15.53	3.91	4.55

TEST CONDITIONS: @115V1800RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	285	72	84	61	0.86	0.84	4.72	1.19	1.38
-35	(-31)	389	98	114	72	1.01	1.15	5.36	1.35	1.57
-30	(-22)	508	128	149	84	1.15	1.51	6.02	1.52	1.76
-25	(-13)	645	162	189	95	1.29	1.92	6.73	1.70	1.97
-20	(- 4)	805	203	236	106	1.42	2.40	7.54	1.90	2.21
-15	(+ 5)	993	250	291	116	1.54	2.97	8.48	2.14	2.49
-10	(+14)	1213	306	355	126	1.66	3.65	9.61	2.42	2.82
-5	(+23)	1471	371	431	134	1.76	4.45	10.95	2.76	3.21
0	(+32)	1770	446	519	142	1.84	5.38	12.56	3.17	3.68

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1800RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40 (-40)	241	61	71	58	0.85	0.71	4.16	1.05	1.22	
-35 (-31)	347	87	102	73	1.01	1.03	4.79	1.21	1.40	
-30 (-22)	465	117	136	87	1.18	1.38	5.38	1.35	1.58	
-25 (-13)	600	151	176	101	1.35	1.78	5.96	1.50	1.75	
-20 (- 4)	756	191	222	115	1.51	2.26	6.58	1.66	1.93	
-15 (+ 5)	939	237	275	128	1.67	2.81	7.28	1.84	2.13	
-10 (+14)	1152	290	338	141	1.83	3.47	8.11	2.04	2.38	
-5 (+23)	1400	353	410	153	1.98	4.23	9.09	2.29	2.66	
0 (+32)	1689	426	495	165	2.12	5.13	10.28	2.59	3.01	

TEST CONDITIONS: @115V1800RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40 (-40)	174	44	51	53	0.78	0.51	3.27	0.82	0.96	
-35 (-31)	284	72	83	70	0.97	0.84	3.99	1.01	1.17	
-30 (-22)	404	102	118	88	1.17	1.20	4.62	1.16	1.35	
-25 (-13)	539	136	158	105	1.37	1.60	5.18	1.31	1.52	
-20 (- 4)	694	175	203	122	1.57	2.07	5.73	1.44	1.68	
-15 (+ 5)	873	220	256	139	1.78	2.61	6.30	1.59	1.85	
-10 (+14)	1081	272	317	156	1.98	3.25	6.93	1.75	2.03	
-5 (+23)	1322	333	387	172	2.19	4.00	7.67	1.93	2.25	
0 (+32)	1602	404	469	187	2.38	4.87	8.55	2.15	2.50	

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%			
	°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40 (-40)	556	140	163	108	1.40	1.64	5.15	1.30	1.51	
-35 (-31)	705	178	207	120	1.58	2.09	5.86	1.48	1.72	
-30 (-22)	895	226	262	135	1.77	2.66	6.62	1.67	1.94	
-25 (-13)	1129	285	331	150	1.96	3.36	7.49	1.89	2.20	
-20 (- 4)	1409	355	413	166	2.14	4.20	8.50	2.14	2.49	
-15 (+ 5)	1736	437	509	181	2.31	5.20	9.69	2.44	2.84	
-10 (+14)	2113	532	619	193	2.46	6.36	11.09	2.80	3.25	
-5 (+23)	2542	641	745	201	2.57	7.69	12.75	3.21	3.74	
0 (+32)	3025	762	886	204	2.64	9.20	14.71	3.71	4.31	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	521	131	153	112	1.49	1.54	4.68	1.18	1.37
-35	(-31)	667	168	195	125	1.69	1.97	5.32	1.34	1.56
-30	(-22)	853	215	250	142	1.90	2.53	5.97	1.50	1.75
-25	(-13)	1083	273	317	161	2.12	3.22	6.67	1.68	1.95
-20	(- 4)	1359	342	398	181	2.34	4.05	7.46	1.88	2.19
-15	(+ 5)	1681	424	493	200	2.55	5.04	8.37	2.11	2.45
-10	(+14)	2053	517	602	217	2.74	6.18	9.45	2.38	2.77
-5	(+23)	2477	624	726	232	2.91	7.49	10.74	2.71	3.15
0	(+32)	2954	744	866	242	3.05	8.98	12.27	3.09	3.60

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	471	119	138	114	1.49	1.39	4.17	1.05	1.22
-35	(-31)	613	154	180	128	1.71	1.81	4.82	1.21	1.41
-30	(-22)	796	200	233	147	1.96	2.36	5.43	1.37	1.59
-25	(-13)	1021	257	299	169	2.22	3.04	6.03	1.52	1.77
-20	(- 4)	1291	325	378	192	2.49	3.85	6.67	1.68	1.95
-15	(+ 5)	1609	405	471	216	2.76	4.82	7.38	1.86	2.16
-10	(+14)	1975	498	579	239	3.01	5.94	8.21	2.07	2.41
-5	(+23)	2393	603	701	260	3.25	7.24	9.19	2.32	2.69
0	(+32)	2864	722	839	277	3.46	8.70	10.36	2.61	3.04

TEST CONDITIONS: @115V3000RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	407	103	119	113	1.38	1.20	3.52	0.89	1.03
-35	(-31)	544	137	159	129	1.65	1.61	4.24	1.07	1.24
-30	(-22)	722	182	212	150	1.94	2.14	4.87	1.23	1.43
-25	(-13)	943	238	276	175	2.26	2.80	5.45	1.37	1.60
-20	(- 4)	1208	304	354	202	2.59	3.60	6.01	1.51	1.76
-15	(+ 5)	1519	383	445	231	2.93	4.55	6.59	1.66	1.93
-10	(+14)	1880	474	551	259	3.26	5.65	7.24	1.82	2.12
-5	(+23)	2291	577	671	286	3.58	6.93	7.98	2.01	2.34
0	(+32)	2755	694	807	311	3.88	8.37	8.87	2.23	2.60

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@115V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	757	191	222	150	1.80	2.24	5.00	1.26	1.47	
-35 (-31)	863	217	253	150	1.90	2.55	5.79	1.46	1.70	
-30 (-22)	1056	266	310	161	2.09	3.13	6.57	1.65	1.92	
-25 (-13)	1331	335	390	180	2.32	3.96	7.39	1.86	2.17	
-20 (- 4)	1681	424	493	201	2.57	5.02	8.33	2.10	2.44	
-15 (+ 5)	2099	529	615	224	2.82	6.29	9.43	2.38	2.76	
-10 (+14)	2578	650	755	242	3.02	7.76	10.74	2.71	3.15	
-5 (+23)	3112	784	912	255	3.16	9.41	12.34	3.11	3.61	
0 (+32)	3695	931	1083	257	3.21	11.23	14.26	3.59	4.18	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@115V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	658	166	193	148	1.83	1.94	4.44	1.12	1.30	
-35 (-31)	790	199	232	154	1.99	2.34	5.17	1.30	1.51	
-30 (-22)	1000	252	293	170	2.23	2.97	5.85	1.47	1.72	
-25 (-13)	1281	323	375	193	2.51	3.81	6.55	1.65	1.92	
-20 (- 4)	1627	410	477	220	2.82	4.85	7.30	1.84	2.14	
-15 (+ 5)	2030	512	595	246	3.11	6.08	8.18	2.06	2.40	
-10 (+14)	2485	626	728	269	3.36	7.48	9.24	2.33	2.71	
-5 (+23)	2984	752	874	285	3.54	9.02	10.54	2.66	3.09	
0 (+32)	3521	887	1032	291	3.63	10.70	12.13	3.06	3.55	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@115V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	591	149	173	149	1.84	1.74	4.00	1.01	1.17	
-35 (-31)	735	185	215	158	2.05	2.17	4.71	1.19	1.38	
-30 (-22)	946	238	277	178	2.33	2.81	5.33	1.34	1.56	
-25 (-13)	1218	307	357	204	2.65	3.62	5.91	1.49	1.73	
-20 (- 4)	1544	389	452	234	2.99	4.61	6.52	1.64	1.91	
-15 (+ 5)	1918	483	562	263	3.32	5.74	7.22	1.82	2.11	
-10 (+14)	2332	588	683	289	3.60	7.02	8.05	2.03	2.36	
-5 (+23)	2781	701	815	307	3.82	8.41	9.07	2.29	2.66	
0 (+32)	3258	821	955	315	3.93	9.90	10.35	2.61	3.03	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3600RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	557	140	163	153	1.83	1.64	3.58	0.90	1.05
-35	(-31)	697	176	204	164	2.07	2.06	4.29	1.08	1.26
-30	(-22)	894	225	262	186	2.38	2.65	4.87	1.23	1.43
-25	(-13)	1142	288	335	214	2.73	3.40	5.38	1.36	1.58
-20	(- 4)	1433	361	420	245	3.10	4.27	5.87	1.48	1.72
-15	(+ 5)	1762	444	516	275	3.45	5.27	6.40	1.61	1.88
-10	(+14)	2121	535	622	302	3.76	6.38	7.03	1.77	2.06
-5	(+23)	2505	631	734	321	3.99	7.57	7.82	1.97	2.29
0	(+32)	2906	732	852	329	4.12	8.83	8.82	2.22	2.58

TEST CONDITIONS: @115V4500RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	747	188	219	159	1.95	2.21	4.69	1.18	1.37
-35	(-31)	1057	266	310	196	2.44	3.13	5.46	1.38	1.60
-30	(-22)	1406	354	412	227	2.84	4.16	6.25	1.57	1.83
-25	(-13)	1795	452	526	253	3.17	5.34	7.09	1.79	2.08
-20	(- 4)	2227	561	653	274	3.44	6.65	8.05	2.03	2.36
-15	(+ 5)	2706	682	793	291	3.64	8.11	9.15	2.31	2.68
-10	(+14)	3233	815	947	305	3.80	9.73	10.46	2.64	3.06
-5	(+23)	3810	960	1116	316	3.92	11.53	12.01	3.03	3.52
0	(+32)	4441	1119	1301	324	4.00	13.50	13.85	3.49	4.06

TEST CONDITIONS: @115V4500RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	727	183	213	164	2.07	2.15	4.35	1.10	1.28
-35	(-31)	1046	263	306	208	2.62	3.09	5.05	1.27	1.48
-30	(-22)	1379	347	404	244	3.07	4.09	5.73	1.44	1.68
-25	(-13)	1729	436	507	273	3.42	5.14	6.43	1.62	1.89
-20	(- 4)	2100	529	615	294	3.68	6.26	7.21	1.82	2.11
-15	(+ 5)	2492	628	730	309	3.86	7.47	8.09	2.04	2.37
-10	(+14)	2910	733	853	318	3.97	8.76	9.14	2.30	2.68
-5	(+23)	3355	845	983	321	4.02	10.15	10.40	2.62	3.05
0	(+32)	3830	965	1122	320	4.02	11.64	11.91	3.00	3.49

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	597	150	175	150	1.96	1.76	3.91	0.99	1.15
-35	(-31)	944	238	277	204	2.60	2.79	4.59	1.16	1.35
-30	(-22)	1284	323	376	247	3.11	3.81	5.22	1.31	1.53
-25	(-13)	1617	407	474	281	3.51	4.81	5.82	1.47	1.71
-20	(- 4)	1946	490	570	305	3.79	5.80	6.46	1.63	1.89
-15	(+ 5)	2274	573	666	320	3.97	6.81	7.18	1.81	2.10
-10	(+14)	2604	656	763	326	4.06	7.83	8.02	2.02	2.35
-5	(+23)	2938	740	861	325	4.07	8.88	9.04	2.28	2.65
0	(+32)	3278	826	960	317	4.00	9.96	10.27	2.59	3.01

TEST CONDITIONS: @115V4500RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	354	89	104	115	1.63	1.04	3.31	0.83	0.97
-35	(-31)	753	190	221	181	2.38	2.23	4.02	1.01	1.18
-30	(-22)	1119	282	328	235	2.98	3.32	4.64	1.17	1.36
-25	(-13)	1456	367	427	276	3.44	4.33	5.20	1.31	1.53
-20	(- 4)	1766	445	517	305	3.77	5.27	5.76	1.45	1.69
-15	(+ 5)	2051	517	601	323	3.97	6.14	6.36	1.60	1.86
-10	(+14)	2314	583	678	330	4.06	6.96	7.05	1.78	2.07
-5	(+23)	2558	645	749	327	4.05	7.73	7.87	1.98	2.31
0	(+32)	2784	702	816	314	3.93	8.46	8.86	2.23	2.60

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		