

### COMPRESSOR DEFINITION

Designation	<b>FM FT406U</b>
Nominal Voltage/Frequency	<b>230 V 46-150 Hz</b>
Engineering Number	<b>513805001</b>

### 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) up to -40°C		
4.1 Evaporating temperature range	-40°C to 0°C	(-40°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	HST - 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)	Fan	220 to 240 V	220 to 240 V
8.2 LBP (43°C Ambient temperature)	Fan	220 to 240 V	220 to 240 V
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating (gauge)	18.4	[kgf/cm <sup>2</sup> ] (262 psig)	/ °C - °F
9.2 Peak (gauge)	20.6	[kgf/cm <sup>2</sup> ] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1/2	[hp]
2 Displacement	6.44	[cm <sup>3</sup> ] (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 <sup>2</sup> ]

### 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	CF10C02 M 0.1 X	
3 Start capacitor	-	[μF(VAC minimum)]
4 Run capacitor	-	[μF(VAC minimum)]
5 Motor protection	CF10C02 M 0.1 XX A X	
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	VDE	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: <b>@220V1400RPM</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 +/- 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]
481	121	141	80	0.52	1.43	6.01	1.51	1.76

TEST CONDITIONS: <b>@220V2000RPM</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 +/- 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]
737	186	216	6	0.67	2.19	118.87	29.96	34.83

TEST CONDITIONS: <b>@220V3000RPM</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 +/- 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]
1138	287	333	179	0.91	3.39	6.36	1.60	1.86

TEST CONDITIONS: <b>@220V4500RPM</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 +/- 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]
1798	453	527	287	1.38	5.35	6.26	1.58	1.83

### E - PERFORMANCE - CURVES

TEST CONDITIONS: <b>@220V1400RPM</b>		<b>ASHRAE32 Fan</b>					(Condensing temperature <b>35°C (+95°F)</b> )			
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]
-40	(-40)	260	66	76	49	0.56	0.77	5.27	1.33	1.54
-35	(-31)	330	83	97	55	0.72	0.98	5.99	1.51	1.75
-30	(-22)	417	105	122	61	0.85	1.24	6.77	1.71	1.98
-25	(-13)	522	132	153	68	0.96	1.55	7.65	1.93	2.24
-20	(- 4)	649	164	190	75	1.05	1.94	8.69	2.19	2.55
-15	(+ 5)	799	201	234	81	1.12	2.39	9.92	2.50	2.91
-10	(+14)	974	245	285	86	1.18	2.93	11.39	2.87	3.34
-5	(+23)	1177	296	345	90	1.24	3.56	13.14	3.31	3.85
0	(+32)	1408	355	413	92	1.28	4.28	15.22	3.83	4.46

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	220	55	64	49	0.63	0.65	4.51	1.14	1.32
-35	(-31)	291	73	85	57	0.79	0.86	5.14	1.30	1.51
-30	(-22)	378	95	111	65	0.93	1.12	5.78	1.46	1.70
-25	(-13)	484	122	142	74	1.06	1.44	6.48	1.63	1.90
-20	(- 4)	610	154	179	83	1.16	1.82	7.27	1.83	2.13
-15	(+ 5)	758	191	222	92	1.26	2.27	8.20	2.07	2.40
-10	(+14)	930	234	273	100	1.35	2.80	9.32	2.35	2.73
-5	(+23)	1129	285	331	106	1.43	3.41	10.66	2.69	3.12
0	(+32)	1357	342	398	111	1.51	4.12	12.28	3.09	3.60

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	180	45	53	47	0.65	0.53	3.90	0.98	1.14
-35	(-31)	251	63	74	56	0.82	0.74	4.52	1.14	1.32
-30	(-22)	337	85	99	67	0.98	1.00	5.09	1.28	1.49
-25	(-13)	441	111	129	78	1.12	1.31	5.66	1.43	1.66
-20	(- 4)	563	142	165	89	1.25	1.68	6.27	1.58	1.84
-15	(+ 5)	707	178	207	101	1.38	2.12	6.97	1.76	2.04
-10	(+14)	875	220	256	111	1.49	2.63	7.79	1.96	2.28
-5	(+23)	1068	269	313	121	1.61	3.23	8.79	2.22	2.58
0	(+32)	1288	325	378	129	1.73	3.92	10.01	2.52	2.93

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@220V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	142	36	42	41	0.62	0.42	3.23	0.82	0.95
-35	(-31)	210	53	62	53	0.81	0.62	3.90	0.98	1.14
-30	(-22)	292	74	86	66	0.98	0.87	4.46	1.12	1.31
-25	(-13)	391	99	115	80	1.15	1.16	4.97	1.25	1.46
-20	(- 4)	508	128	149	94	1.31	1.52	5.46	1.38	1.60
-15	(+ 5)	646	163	189	108	1.46	1.93	5.99	1.51	1.75
-10	(+14)	806	203	236	122	1.61	2.42	6.59	1.66	1.93
-5	(+23)	991	250	290	135	1.77	3.00	7.31	1.84	2.14
0	(+32)	1203	303	352	147	1.93	3.66	8.19	2.06	2.40

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@220V1800RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	317	80	93	61	0.77	0.94	5.23	1.32	1.53
-35	(-31)	420	106	123	70	0.95	1.24	5.97	1.51	1.75
-30	(-22)	539	136	158	79	1.10	1.60	6.78	1.71	1.99
-25	(-13)	679	171	199	88	1.22	2.02	7.71	1.94	2.26
-20	(- 4)	844	213	247	96	1.31	2.52	8.78	2.21	2.57
-15	(+ 5)	1037	261	304	104	1.39	3.11	10.04	2.53	2.94
-10	(+14)	1263	318	370	110	1.45	3.80	11.54	2.91	3.38
-5	(+23)	1525	384	447	115	1.51	4.61	13.31	3.36	3.90
0	(+32)	1828	461	536	118	1.56	5.56	15.41	3.88	4.51

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V1800RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	282	71	83	62	0.82	0.83	4.67	1.18	1.37
-35	(-31)	385	97	113	73	1.02	1.14	5.32	1.34	1.56
-30	(-22)	504	127	148	84	1.19	1.49	5.99	1.51	1.75
-25	(-13)	643	162	188	95	1.33	1.91	6.71	1.69	1.97
-20	(- 4)	806	203	236	106	1.46	2.40	7.53	1.90	2.21
-15	(+ 5)	997	251	292	117	1.57	2.99	8.48	2.14	2.48
-10	(+14)	1220	307	357	127	1.67	3.67	9.61	2.42	2.82
-5	(+23)	1479	373	433	135	1.76	4.47	10.96	2.76	3.21
0	(+32)	1778	448	521	142	1.86	5.40	12.57	3.17	3.68

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V1800RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	241	61	71	60	0.80	0.71	4.09	1.03	1.20
-35	(-31)	342	86	100	73	1.02	1.01	4.73	1.19	1.39
-30	(-22)	458	115	134	86	1.22	1.36	5.33	1.34	1.56
-25	(-13)	594	150	174	100	1.39	1.77	5.93	1.49	1.74
-20	(- 4)	753	190	221	114	1.55	2.25	6.57	1.65	1.92
-15	(+ 5)	939	237	275	128	1.70	2.81	7.28	1.83	2.13
-10	(+14)	1157	292	339	142	1.84	3.48	8.12	2.05	2.38
-5	(+23)	1411	356	413	154	1.99	4.27	9.12	2.30	2.67
0	(+32)	1704	429	499	166	2.13	5.18	10.32	2.60	3.03

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1800RPM		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)	193	49	57	55	0.70	0.57	3.35	0.85	0.98
-35	(-31)	289	73	85	70	0.95	0.86	4.06	1.02	1.19
-30	(-22)	400	101	117	86	1.18	1.19	4.67	1.18	1.37
-25	(-13)	530	134	155	103	1.40	1.58	5.21	1.31	1.53
-20	(- 4)	683	172	200	120	1.60	2.04	5.74	1.45	1.68
-15	(+ 5)	863	217	253	138	1.79	2.58	6.30	1.59	1.85
-10	(+14)	1074	271	315	155	1.99	3.23	6.92	1.74	2.03
-5	(+23)	1320	333	387	172	2.18	3.99	7.64	1.93	2.24
0	(+32)	1604	404	470	188	2.39	4.88	8.52	2.15	2.50

TEST CONDITIONS: @220V3000RPM		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)	542	136	159	107	1.40	1.60	5.11	1.29	1.50
-35	(-31)	702	177	206	120	1.58	2.08	5.84	1.47	1.71
-30	(-22)	898	226	263	135	1.77	2.66	6.62	1.67	1.94
-25	(-13)	1134	286	332	151	1.96	3.37	7.50	1.89	2.20
-20	(- 4)	1413	356	414	166	2.14	4.22	8.51	2.14	2.49
-15	(+ 5)	1738	438	509	180	2.31	5.21	9.69	2.44	2.84
-10	(+14)	2113	533	619	192	2.46	6.36	11.10	2.80	3.25
-5	(+23)	2542	641	745	200	2.57	7.69	12.78	3.22	3.74
0	(+32)	3027	763	887	204	2.64	9.20	14.76	3.72	4.32

TEST CONDITIONS: @220V3000RPM		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)	515	130	151	111	1.50	1.52	4.67	1.18	1.37
-35	(-31)	668	168	196	126	1.70	1.98	5.32	1.34	1.56
-30	(-22)	857	216	251	143	1.92	2.54	5.97	1.51	1.75
-25	(-13)	1087	274	318	162	2.14	3.23	6.67	1.68	1.95
-20	(- 4)	1360	343	398	181	2.36	4.06	7.45	1.88	2.18
-15	(+ 5)	1679	423	492	200	2.57	5.03	8.35	2.10	2.45
-10	(+14)	2049	516	601	217	2.76	6.17	9.43	2.38	2.76
-5	(+23)	2473	623	725	231	2.92	7.48	10.72	2.70	3.14
0	(+32)	2955	745	866	242	3.05	8.98	12.26	3.09	3.59

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		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)	468	118	137	111	1.48	1.38	4.18	1.05	1.23
-35	(-31)	615	155	180	128	1.72	1.82	4.84	1.22	1.42
-30	(-22)	799	201	234	148	1.98	2.37	5.44	1.37	1.59
-25	(-13)	1023	258	300	170	2.24	3.04	6.03	1.52	1.77
-20	(- 4)	1291	325	378	193	2.51	3.85	6.66	1.68	1.95
-15	(+ 5)	1607	405	471	217	2.78	4.81	7.37	1.86	2.16
-10	(+14)	1973	497	578	239	3.03	5.94	8.20	2.07	2.40
-5	(+23)	2394	603	701	260	3.25	7.24	9.18	2.31	2.69
0	(+32)	2872	724	842	277	3.45	8.73	10.38	2.62	3.04

TEST CONDITIONS: @220V3000RPM		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)	401	101	117	108	1.37	1.18	3.49	0.88	1.02
-35	(-31)	543	137	159	127	1.65	1.61	4.23	1.07	1.24
-30	(-22)	722	182	212	150	1.96	2.14	4.86	1.23	1.43
-25	(-13)	943	238	276	175	2.28	2.80	5.44	1.37	1.60
-20	(- 4)	1208	304	354	203	2.61	3.60	6.01	1.51	1.76
-15	(+ 5)	1520	383	445	231	2.94	4.55	6.60	1.66	1.93
-10	(+14)	1884	475	552	259	3.26	5.67	7.25	1.83	2.13
-5	(+23)	2303	580	675	286	3.56	6.96	8.02	2.02	2.35
0	(+32)	2780	701	815	311	3.83	8.45	8.95	2.25	2.62

TEST CONDITIONS: @220V3600RPM		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)	646	163	189	130	1.62	1.91	5.02	1.27	1.47
-35	(-31)	842	212	247	146	1.87	2.49	5.75	1.45	1.68
-30	(-22)	1080	272	316	165	2.12	3.20	6.52	1.64	1.91
-25	(-13)	1365	344	400	185	2.37	4.06	7.37	1.86	2.16
-20	(- 4)	1704	429	499	204	2.60	5.08	8.34	2.10	2.44
-15	(+ 5)	2100	529	615	223	2.81	6.29	9.47	2.39	2.78
-10	(+14)	2560	645	750	239	2.99	7.70	10.80	2.72	3.16
-5	(+23)	3089	778	905	251	3.13	9.34	12.35	3.11	3.62
0	(+32)	3692	930	1082	259	3.22	11.23	14.18	3.57	4.16

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V3600RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	610	154	179	137	1.75	1.80	4.53	1.14	1.33
-35	(-31)	795	200	233	154	2.00	2.35	5.20	1.31	1.52
-30	(-22)	1022	258	299	174	2.27	3.03	5.86	1.48	1.72
-25	(-13)	1296	327	380	196	2.54	3.85	6.57	1.65	1.92
-20	(- 4)	1622	409	475	219	2.81	4.84	7.35	1.85	2.15
-15	(+ 5)	2006	505	588	242	3.07	6.01	8.24	2.08	2.42
-10	(+14)	2452	618	719	263	3.31	7.38	9.29	2.34	2.72
-5	(+23)	2967	748	869	282	3.52	8.97	10.52	2.65	3.08
0	(+32)	3556	896	1042	297	3.69	10.81	11.99	3.02	3.51

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V3600RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	575	145	168	141	1.81	1.69	4.09	1.03	1.20
-35	(-31)	747	188	219	159	2.07	2.21	4.73	1.19	1.39
-30	(-22)	960	242	281	181	2.36	2.85	5.33	1.34	1.56
-25	(-13)	1219	307	357	206	2.66	3.63	5.93	1.49	1.74
-20	(- 4)	1530	386	448	233	2.97	4.57	6.56	1.65	1.92
-15	(+ 5)	1898	478	556	260	3.29	5.69	7.25	1.83	2.13
-10	(+14)	2329	587	682	287	3.60	7.01	8.06	2.03	2.36
-5	(+23)	2828	713	829	313	3.89	8.55	9.01	2.27	2.64
0	(+32)	3399	857	996	336	4.15	10.33	10.14	2.56	2.97

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@220V3600RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	540	136	158	142	1.79	1.59	3.61	0.91	1.06
-35	(-31)	696	175	204	161	2.07	2.06	4.27	1.08	1.25
-30	(-22)	892	225	262	185	2.38	2.65	4.85	1.22	1.42
-25	(-13)	1135	286	332	213	2.73	3.37	5.37	1.35	1.57
-20	(- 4)	1428	360	418	245	3.09	4.26	5.89	1.48	1.73
-15	(+ 5)	1778	448	521	277	3.47	5.32	6.43	1.62	1.88
-10	(+14)	2190	552	642	311	3.85	6.59	7.03	1.77	2.06
-5	(+23)	2669	673	782	344	4.23	8.07	7.74	1.95	2.27
0	(+32)	3221	812	944	375	4.60	9.79	8.58	2.16	2.51

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@220V4500RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	863	218	253	183	2.25	2.55	4.66	1.17	1.37
-35	(-31)	1090	275	319	199	2.49	3.23	5.48	1.38	1.61
-30	(-22)	1384	349	406	221	2.78	4.10	6.27	1.58	1.84
-25	(-13)	1746	440	512	247	3.10	5.19	7.07	1.78	2.07
-20	(- 4)	2174	548	637	273	3.41	6.49	7.94	2.00	2.33
-15	(+ 5)	2668	672	782	298	3.69	7.99	8.93	2.25	2.62
-10	(+14)	3227	813	946	320	3.92	9.71	10.09	2.54	2.96
-5	(+23)	3851	970	1128	337	4.07	11.65	11.47	2.89	3.36
0	(+32)	4539	1144	1330	345	4.11	13.80	13.13	3.31	3.85

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V4500RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	802	202	235	182	2.30	2.37	4.32	1.09	1.27
-35	(-31)	1040	262	305	205	2.61	3.08	5.07	1.28	1.49
-30	(-22)	1337	337	392	233	2.96	3.96	5.75	1.45	1.69
-25	(-13)	1691	426	496	264	3.34	5.03	6.41	1.62	1.88
-20	(- 4)	2104	530	616	296	3.71	6.28	7.10	1.79	2.08
-15	(+ 5)	2573	648	754	326	4.04	7.71	7.88	1.99	2.31
-10	(+14)	3098	781	908	353	4.32	9.32	8.79	2.21	2.57
-5	(+23)	3679	927	1078	373	4.52	11.13	9.88	2.49	2.89
0	(+32)	4315	1087	1264	385	4.60	13.12	11.21	2.82	3.28

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V4500RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	673	170	197	172	2.18	1.99	3.86	0.97	1.13
-35	(-31)	931	235	273	202	2.57	2.75	4.60	1.16	1.35
-30	(-22)	1238	312	363	237	3.01	3.67	5.24	1.32	1.53
-25	(-13)	1594	402	467	275	3.46	4.74	5.82	1.47	1.70
-20	(- 4)	1999	504	586	313	3.90	5.96	6.39	1.61	1.87
-15	(+ 5)	2451	618	718	349	4.30	7.34	7.01	1.77	2.05
-10	(+14)	2951	744	865	381	4.64	8.88	7.73	1.95	2.26
-5	(+23)	3497	881	1025	407	4.90	10.57	8.59	2.16	2.52
0	(+32)	4090	1031	1198	424	5.04	12.43	9.65	2.43	2.83

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		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)	476	120	139	151	1.90	1.40	3.21	0.81	0.94
-35	(-31)	761	192	223	190	2.39	2.25	4.00	1.01	1.17
-30	(-22)	1087	274	319	233	2.91	3.22	4.65	1.17	1.36
-25	(-13)	1453	366	426	279	3.45	4.32	5.21	1.31	1.53
-20	(- 4)	1859	468	545	325	3.98	5.54	5.73	1.44	1.68
-15	(+ 5)	2303	580	675	368	4.47	6.90	6.25	1.58	1.83
-10	(+14)	2786	702	816	407	4.89	8.38	6.84	1.72	2.00
-5	(+23)	3306	833	969	439	5.22	9.99	7.53	1.90	2.21
0	(+32)	3863	974	1132	461	5.44	11.74	8.38	2.11	2.46

### 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		