

COMPRESSOR DEFINITION

Designation	FM FT413U
Nominal Voltage/Frequency	230 V 60-150 Hz
Engineering Number	513805004

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	230 / 60-150	[V / Hz]	
4 Application type	Low-Medium Back Pressure (Light Commercial - Curves until T.Evap -4		
4.1 Evaporating temperature range	-40°C to 0°C	(-40°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	LST/HST - Low/Hight starting sorque		
7 Expantion 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	[hp]
2 Displacement	12.92	[cm ³] (0.788 cu.in)
2.1 Bore [mm]	28.000	
2.2 Stroke [mm]	21.000	
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)	10.87	[kg] (23.96 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 60-150 Hz 3 ~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF10C01 M 0.1 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	CF10C01 M 0.1 XX A Y	
6 Start winding resistance	4.30	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	4.30	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	6.50/6.50	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	2.00	[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: @220V1800RPM			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]
1376	347	403	229	1.10	4.10	6.02	1.52	1.76

TEST CONDITIONS: @220V2400RPM			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]
1812	457	531	298	1.45	5.39	6.08	1.53	1.78

TEST CONDITIONS: @220V3000RPM			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]
2328	587	682	379	1.76	6.93	6.15	1.55	1.80

TEST CONDITIONS: @220V3600RPM			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]
2652	668	777	441	2.08	7.89	6.01	1.51	1.76

TEST CONDITIONS: @220V4500RPM			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]
3407	859	998	574	2.64	10.14	5.94	1.50	1.74

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)	623	157	183	113	0.70	1.84	5.56	1.40	1.63
-35	(-31)	861	217	252	139	0.79	2.55	6.12	1.54	1.79
-30	(-22)	1119	282	328	163	0.88	3.32	6.82	1.72	2.00
-25	(-13)	1408	355	413	183	0.97	4.19	7.67	1.93	2.25
-20	(- 4)	1739	438	510	202	1.05	5.19	8.70	2.19	2.55
-15	(+ 5)	2123	535	622	217	1.13	6.36	9.91	2.50	2.90
-10	(+14)	2570	648	753	230	1.19	7.73	11.33	2.85	3.32
-5	(+23)	3091	779	906	240	1.24	9.35	12.96	3.27	3.80
0	(+32)	3697	932	1083	247	1.27	11.24	14.83	3.74	4.35

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)	608	153	178	124	0.73	1.79	4.96	1.25	1.45
-35	(-31)	820	207	240	151	0.82	2.43	5.41	1.36	1.59
-30	(-22)	1061	267	311	176	0.93	3.15	5.96	1.50	1.75
-25	(-13)	1342	338	393	201	1.04	3.99	6.61	1.67	1.94
-20	(- 4)	1672	421	490	225	1.15	4.99	7.39	1.86	2.17
-15	(+ 5)	2063	520	605	247	1.26	6.18	8.30	2.09	2.43
-10	(+14)	2526	637	740	269	1.37	7.60	9.38	2.36	2.75
-5	(+23)	3071	774	900	290	1.47	9.29	10.62	2.68	3.11
0	(+32)	3709	935	1087	310	1.55	11.28	12.04	3.04	3.53

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)	557	140	163	129	0.74	1.64	4.35	1.10	1.28
-35	(-31)	751	189	220	158	0.85	2.22	4.79	1.21	1.40
-30	(-22)	981	247	287	187	0.97	2.91	5.26	1.33	1.54
-25	(-13)	1258	317	369	217	1.11	3.74	5.79	1.46	1.70
-20	(- 4)	1594	402	467	247	1.26	4.75	6.40	1.61	1.88
-15	(+ 5)	1998	503	585	279	1.41	5.98	7.10	1.79	2.08
-10	(+14)	2482	626	727	311	1.57	7.47	7.91	1.99	2.32
-5	(+23)	3057	770	896	344	1.72	9.24	8.84	2.23	2.59
0	(+32)	3733	941	1094	379	1.87	11.35	9.91	2.50	2.90

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°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)	472	119	138	128	0.73	1.39	3.61	0.91	1.06
-35	(-31)	652	164	191	160	0.86	1.93	4.10	1.03	1.20
-30	(-22)	877	221	257	194	1.01	2.60	4.59	1.16	1.34
-25	(-13)	1157	292	339	231	1.18	3.44	5.08	1.28	1.49
-20	(- 4)	1503	379	441	271	1.37	4.48	5.61	1.41	1.64
-15	(+ 5)	1927	486	565	313	1.57	5.77	6.17	1.56	1.81
-10	(+14)	2439	615	715	357	1.78	7.34	6.80	1.71	1.99
-5	(+23)	3049	768	893	405	1.99	9.22	7.50	1.89	2.20
0	(+32)	3769	950	1104	455	2.21	11.45	8.29	2.09	2.43

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@220V3000RPM		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)	1092	275	320	209	1.11	3.22	5.22	1.32	1.53
-35	(-31)	1435	362	420	245	1.25	4.25	5.85	1.47	1.72
-30	(-22)	1841	464	540	281	1.40	5.46	6.55	1.65	1.92
-25	(-13)	2318	584	679	316	1.56	6.89	7.33	1.85	2.15
-20	(- 4)	2873	724	842	350	1.71	8.57	8.21	2.07	2.41
-15	(+ 5)	3512	885	1029	383	1.86	10.52	9.20	2.32	2.70
-10	(+14)	4243	1069	1243	412	1.99	12.77	10.32	2.60	3.02
-5	(+23)	5073	1278	1486	439	2.11	15.34	11.59	2.92	3.40
0	(+32)	6009	1514	1761	460	2.19	18.27	13.02	3.28	3.81

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V3000RPM		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)	1042	263	305	219	1.14	3.08	4.77	1.20	1.40
-35	(-31)	1379	348	404	259	1.30	4.08	5.33	1.34	1.56
-30	(-22)	1779	448	521	300	1.47	5.28	5.92	1.49	1.73
-25	(-13)	2249	567	659	342	1.66	6.69	6.55	1.65	1.92
-20	(- 4)	2795	704	819	384	1.85	8.34	7.26	1.83	2.13
-15	(+ 5)	3426	863	1004	425	2.03	10.26	8.05	2.03	2.36
-10	(+14)	4148	1045	1215	463	2.21	12.48	8.94	2.25	2.62
-5	(+23)	4968	1252	1456	500	2.37	15.02	9.95	2.51	2.91
0	(+32)	5894	1485	1727	533	2.50	17.92	11.08	2.79	3.25

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)	936	236	274	218	1.14	2.76	4.30	1.08	1.26
-35	(-31)	1271	320	372	264	1.32	3.76	4.82	1.22	1.41
-30	(-22)	1668	420	489	312	1.52	4.95	5.35	1.35	1.57
-25	(-13)	2134	538	625	362	1.74	6.34	5.90	1.49	1.73
-20	(- 4)	2676	674	784	412	1.97	7.98	6.48	1.63	1.90
-15	(+ 5)	3302	832	968	462	2.19	9.89	7.12	1.80	2.09
-10	(+14)	4018	1013	1177	512	2.41	12.09	7.83	1.97	2.30
-5	(+23)	4832	1218	1416	559	2.62	14.61	8.63	2.17	2.53
0	(+32)	5750	1449	1685	605	2.81	17.48	9.52	2.40	2.79

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)	775	195	227	208	1.11	2.29	3.71	0.94	1.09
-35	(-31)	1111	280	326	261	1.32	3.29	4.26	1.07	1.25
-30	(-22)	1508	380	442	317	1.55	4.47	4.77	1.20	1.40
-25	(-13)	1974	497	578	375	1.81	5.87	5.28	1.33	1.55
-20	(- 4)	2515	634	737	435	2.07	7.50	5.80	1.46	1.70
-15	(+ 5)	3139	791	920	496	2.34	9.40	6.33	1.60	1.86
-10	(+14)	3853	971	1129	557	2.61	11.59	6.91	1.74	2.02
-5	(+23)	4663	1175	1366	617	2.87	14.10	7.54	1.90	2.21
0	(+32)	5578	1406	1634	676	3.12	16.95	8.25	2.08	2.42

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)	1230	310	360	256	1.35	3.63	4.83	1.22	1.42
-35	(-31)	1649	416	483	292	1.45	4.88	5.61	1.41	1.64
-30	(-22)	2146	541	629	336	1.63	6.36	6.34	1.60	1.86
-25	(-13)	2732	688	801	386	1.86	8.12	7.07	1.78	2.07
-20	(- 4)	3418	861	1002	436	2.09	10.20	7.86	1.98	2.30
-15	(+ 5)	4216	1062	1235	484	2.31	12.63	8.76	2.21	2.57
-10	(+14)	5136	1294	1505	526	2.49	15.46	9.84	2.48	2.88
-5	(+23)	6190	1560	1814	558	2.58	18.72	11.14	2.81	3.26
0	(+32)	7388	1862	2165	577	2.57	22.46	12.72	3.21	3.73

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)	1167	294	342	266	1.43	3.45	4.41	1.11	1.29
-35	(-31)	1562	394	458	303	1.52	4.62	5.13	1.29	1.50
-30	(-22)	2033	512	596	351	1.70	6.03	5.76	1.45	1.69
-25	(-13)	2592	653	759	405	1.93	7.71	6.37	1.61	1.87
-20	(- 4)	3250	819	952	462	2.19	9.70	7.01	1.77	2.05
-15	(+ 5)	4018	1013	1177	519	2.44	12.04	7.73	1.95	2.26
-10	(+14)	4908	1237	1438	571	2.65	14.77	8.59	2.16	2.52
-5	(+23)	5930	1494	1738	616	2.80	17.93	9.64	2.43	2.83
0	(+32)	7096	1788	2079	649	2.85	21.57	10.95	2.76	3.21

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)	1093	275	320	277	1.47	3.23	3.97	1.00	1.16
-35	(-31)	1460	368	428	313	1.56	4.32	4.67	1.18	1.37
-30	(-22)	1903	479	558	363	1.75	5.64	5.26	1.32	1.54
-25	(-13)	2432	613	713	421	2.00	7.23	5.78	1.46	1.69
-20	(- 4)	3060	771	897	484	2.28	9.13	6.31	1.59	1.85
-15	(+ 5)	3796	957	1112	549	2.57	11.37	6.88	1.73	2.02
-10	(+14)	4653	1172	1363	611	2.83	14.00	7.57	1.91	2.22
-5	(+23)	5641	1421	1653	668	3.04	17.06	8.42	2.12	2.47
0	(+32)	6771	1706	1984	716	3.16	20.58	9.49	2.39	2.78

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)	1007	254	295	286	1.47	2.97	3.47	0.87	1.02
-35	(-31)	1344	339	394	323	1.57	3.98	4.19	1.06	1.23
-30	(-22)	1756	443	515	373	1.77	5.21	4.76	1.20	1.39
-25	(-13)	2254	568	660	435	2.04	6.70	5.24	1.32	1.54
-20	(- 4)	2848	718	834	503	2.36	8.49	5.69	1.43	1.67
-15	(+ 5)	3550	895	1040	575	2.70	10.63	6.17	1.55	1.81
-10	(+14)	4371	1101	1281	647	3.02	13.15	6.72	1.69	1.97
-5	(+23)	5322	1341	1560	716	3.30	16.09	7.40	1.87	2.17
0	(+32)	6415	1617	1880	777	3.49	19.49	8.28	2.09	2.43

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)	1667	420	488	333	1.67	4.93	4.97	1.25	1.46	
-35 (-31)	2076	523	608	383	1.88	6.14	5.48	1.38	1.60	
-30 (-22)	2606	657	764	433	2.09	7.72	6.07	1.53	1.78	
-25 (-13)	3259	821	955	484	2.32	9.69	6.74	1.70	1.98	
-20 (- 4)	4038	1018	1183	536	2.55	12.05	7.49	1.89	2.20	
-15 (+ 5)	4944	1246	1449	590	2.77	14.82	8.31	2.10	2.44	
-10 (+14)	5980	1507	1752	645	2.98	18.00	9.20	2.32	2.70	
-5 (+23)	7148	1801	2095	703	3.17	21.62	10.15	2.56	2.97	
0 (+32)	8450	2129	2476	762	3.34	25.69	11.15	2.81	3.27	

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)	1552	391	455	334	1.65	4.58	4.62	1.16	1.35	
-35 (-31)	2016	508	591	399	1.92	5.96	5.09	1.28	1.49	
-30 (-22)	2575	649	755	461	2.19	7.63	5.63	1.42	1.65	
-25 (-13)	3232	814	947	521	2.46	9.61	6.23	1.57	1.83	
-20 (- 4)	3988	1005	1168	579	2.72	11.90	6.90	1.74	2.02	
-15 (+ 5)	4845	1221	1420	635	2.97	14.51	7.63	1.92	2.24	
-10 (+14)	5807	1463	1701	690	3.19	17.47	8.41	2.12	2.46	
-5 (+23)	6874	1732	2014	743	3.39	20.79	9.23	2.33	2.70	
0 (+32)	8049	2028	2359	796	3.55	24.47	10.09	2.54	2.96	

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)	1346	339	394	318	1.62	3.97	4.21	1.06	1.23	
-35 (-31)	1877	473	550	403	1.95	5.55	4.64	1.17	1.36	
-30 (-22)	2477	624	726	482	2.28	7.34	5.13	1.29	1.50	
-25 (-13)	3148	793	922	556	2.60	9.36	5.67	1.43	1.66	
-20 (- 4)	3893	981	1141	624	2.90	11.61	6.26	1.58	1.83	
-15 (+ 5)	4713	1188	1381	687	3.18	14.11	6.89	1.74	2.02	
-10 (+14)	5611	1414	1644	746	3.43	16.88	7.56	1.90	2.22	
-5 (+23)	6590	1661	1931	800	3.64	19.92	8.26	2.08	2.42	
0 (+32)	7650	1928	2242	850	3.81	23.25	8.98	2.26	2.63	

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)	1050	265	308	285	1.56	3.10	3.77	0.95	1.10
-35	(-31)	1659	418	486	394	1.97	4.91	4.17	1.05	1.22
-30	(-22)	2311	582	677	495	2.36	6.86	4.60	1.16	1.35
-25	(-13)	3009	758	882	586	2.74	8.95	5.08	1.28	1.49
-20	(- 4)	3754	946	1100	669	3.09	11.20	5.59	1.41	1.64
-15	(+ 5)	4549	1146	1333	744	3.41	13.62	6.13	1.54	1.80
-10	(+14)	5396	1360	1581	811	3.69	16.23	6.69	1.69	1.96
-5	(+23)	6296	1587	1845	870	3.92	19.03	7.26	1.83	2.13
0	(+32)	7253	1828	2125	923	4.10	22.04	7.84	1.98	2.30

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		