

COMPRESSOR DEFINITION

Designation	FM FT413U
Nominal Voltage/Frequency	230 V 60-150 Hz
Engineering Number	513805003

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 -		
4.1 Evaporating temperature range	-40°C to 0°C	(-40°F to 32°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	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	ALQUILB / 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 - ELECTRICAL 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	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	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	CCC - CE - TUV - UKCA - UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V1800RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
1368	345	401	226	3.17	4.07	6.05	1.52	1.77

TEST CONDITIONS: @115V2400RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
1830	461	536	296	4.03	5.45	6.18	1.56	1.81

TEST CONDITIONS: @115V3000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
2310	582	677	376	4.99	6.88	6.14	1.55	1.80

TEST CONDITIONS: @115V3600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
2663	671	780	441	5.73	7.93	6.04	1.52	1.77

TEST CONDITIONS: @115V4500RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
3367	848	987	574	7.23	10.02	5.87	1.48	1.72

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1800RPM		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]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	619	156	181	112	1.06	1.83	5.56	1.40	1.63
-35	(-31)	860	217	252	139	1.24	2.55	6.12	1.54	1.79
-30	(-22)	1120	282	328	163	1.40	3.32	6.82	1.72	2.00
-25	(-13)	1409	355	413	184	1.55	4.19	7.67	1.93	2.25
-20	(- 4)	1740	438	510	202	1.68	5.19	8.70	2.19	2.55
-15	(+ 5)	2122	535	622	217	1.79	6.36	9.91	2.50	2.90
-10	(+14)	2569	647	753	229	1.89	7.73	11.33	2.85	3.32
-5	(+23)	3090	779	905	239	1.96	9.35	12.96	3.27	3.80
0	(+32)	3697	932	1083	247	2.02	11.24	14.83	3.74	4.35

TEST CONDITIONS: @115V1800RPM		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)	605	152	177	124	1.14	1.78	4.95	1.25	1.45
-35	(-31)	821	207	241	151	1.32	2.43	5.41	1.36	1.59
-30	(-22)	1064	268	312	177	1.51	3.15	5.96	1.50	1.75
-25	(-13)	1344	339	394	202	1.68	4.00	6.61	1.67	1.94
-20	(- 4)	1674	422	491	225	1.85	4.99	7.39	1.86	2.16
-15	(+ 5)	2064	520	605	247	2.02	6.18	8.30	2.09	2.43
-10	(+14)	2526	637	740	269	2.18	7.60	9.37	2.36	2.75
-5	(+23)	3071	774	900	290	2.33	9.29	10.62	2.68	3.11
0	(+32)	3710	935	1087	310	2.47	11.28	12.04	3.04	3.53

TEST CONDITIONS: @115V1800RPM		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)	554	140	162	129	1.15	1.63	4.35	1.10	1.27
-35	(-31)	751	189	220	158	1.36	2.22	4.78	1.20	1.40
-30	(-22)	983	248	288	187	1.57	2.91	5.26	1.32	1.54
-25	(-13)	1261	318	369	217	1.79	3.75	5.79	1.46	1.70
-20	(- 4)	1596	402	468	248	2.02	4.76	6.40	1.61	1.88
-15	(+ 5)	1999	504	586	279	2.25	5.99	7.10	1.79	2.08
-10	(+14)	2483	626	727	311	2.48	7.47	7.91	1.99	2.32
-5	(+23)	3057	770	896	344	2.72	9.24	8.84	2.23	2.59
0	(+32)	3733	941	1094	379	2.96	11.35	9.91	2.50	2.90

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1800RPM		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)	467	118	137	127	1.11	1.38	3.61	0.91	1.06
-35	(-31)	651	164	191	159	1.35	1.93	4.10	1.03	1.20
-30	(-22)	878	221	257	194	1.61	2.60	4.59	1.16	1.34
-25	(-13)	1159	292	340	232	1.89	3.44	5.08	1.28	1.49
-20	(- 4)	1505	379	441	271	2.18	4.49	5.61	1.41	1.64
-15	(+ 5)	1928	486	565	313	2.49	5.77	6.17	1.56	1.81
-10	(+14)	2439	615	715	357	2.82	7.34	6.80	1.71	1.99
-5	(+23)	3048	768	893	404	3.16	9.22	7.50	1.89	2.20
0	(+32)	3768	950	1104	454	3.51	11.45	8.29	2.09	2.43

TEST CONDITIONS: @115V3000RPM		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]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	1081	272	317	205	1.78	3.19	5.28	1.33	1.55
-35	(-31)	1432	361	420	240	1.99	4.24	5.95	1.50	1.74
-30	(-22)	1842	464	540	276	2.22	5.46	6.67	1.68	1.96
-25	(-13)	2320	585	680	311	2.47	6.90	7.47	1.88	2.19
-20	(- 4)	2874	724	842	344	2.71	8.57	8.36	2.11	2.45
-15	(+ 5)	3511	885	1029	376	2.95	10.52	9.37	2.36	2.74
-10	(+14)	4241	1069	1243	405	3.16	12.76	10.50	2.65	3.08
-5	(+23)	5071	1278	1486	431	3.34	15.34	11.79	2.97	3.46
0	(+32)	6009	1514	1761	452	3.48	18.27	13.25	3.34	3.88

TEST CONDITIONS: @115V3000RPM		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)	1036	261	304	214	1.82	3.06	4.84	1.22	1.42
-35	(-31)	1381	348	405	254	2.06	4.09	5.43	1.37	1.59
-30	(-22)	1785	450	523	295	2.34	5.29	6.04	1.52	1.77
-25	(-13)	2255	568	661	336	2.63	6.71	6.69	1.69	1.96
-20	(- 4)	2800	706	821	377	2.93	8.35	7.41	1.87	2.17
-15	(+ 5)	3429	864	1005	417	3.22	10.27	8.20	2.07	2.40
-10	(+14)	4149	1045	1216	455	3.50	12.48	9.10	2.29	2.67
-5	(+23)	4968	1252	1456	491	3.76	15.02	10.13	2.55	2.97
0	(+32)	5895	1486	1727	523	3.97	17.92	11.29	2.84	3.31

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		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)	930	234	273	214	1.81	2.75	4.36	1.10	1.28
-35	(-31)	1273	321	373	259	2.10	3.77	4.92	1.24	1.44
-30	(-22)	1674	422	491	307	2.42	4.96	5.47	1.38	1.60
-25	(-13)	2141	540	627	356	2.76	6.37	6.03	1.52	1.77
-20	(- 4)	2682	676	786	405	3.12	8.00	6.62	1.67	1.94
-15	(+ 5)	3305	833	968	454	3.48	9.90	7.26	1.83	2.13
-10	(+14)	4019	1013	1178	502	3.83	12.09	7.98	2.01	2.34
-5	(+23)	4831	1218	1416	549	4.16	14.61	8.78	2.21	2.57
0	(+32)	5751	1449	1685	594	4.46	17.48	9.70	2.44	2.84

TEST CONDITIONS: @115V3000RPM		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]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	764	193	224	203	1.76	2.25	3.75	0.94	1.10
-35	(-31)	1109	280	325	256	2.09	3.28	4.33	1.09	1.27
-30	(-22)	1511	381	443	311	2.46	4.48	4.87	1.23	1.43
-25	(-13)	1979	499	580	369	2.86	5.88	5.39	1.36	1.58
-20	(- 4)	2519	635	738	428	3.29	7.51	5.91	1.49	1.73
-15	(+ 5)	3141	792	920	487	3.72	9.40	6.45	1.63	1.89
-10	(+14)	3853	971	1129	547	4.15	11.59	7.03	1.77	2.06
-5	(+23)	4662	1175	1366	606	4.56	14.09	7.68	1.93	2.25
0	(+32)	5578	1406	1634	664	4.95	16.95	8.40	2.12	2.46

TEST CONDITIONS: @115V3600RPM		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)	1194	301	350	248	2.17	3.53	4.83	1.22	1.42
-35	(-31)	1639	413	480	285	2.31	4.85	5.70	1.44	1.67
-30	(-22)	2149	541	630	329	2.58	6.37	6.48	1.63	1.90
-25	(-13)	2738	690	802	378	2.94	8.14	7.23	1.82	2.12
-20	(- 4)	3421	862	1002	427	3.32	10.21	8.03	2.02	2.35
-15	(+ 5)	4213	1062	1235	474	3.68	12.62	8.94	2.25	2.62
-10	(+14)	5129	1292	1503	515	3.96	15.44	10.03	2.53	2.94
-5	(+23)	6183	1558	1812	547	4.11	18.70	11.36	2.86	3.33
0	(+32)	7390	1862	2165	565	4.07	22.47	13.00	3.28	3.81

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3600RPM		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)	1148	289	336	259	2.28	3.39	4.46	1.12	1.31
-35	(-31)	1569	395	460	297	2.40	4.64	5.26	1.33	1.54
-30	(-22)	2052	517	601	344	2.67	6.09	5.94	1.50	1.74
-25	(-13)	2613	659	766	397	3.04	7.77	6.56	1.65	1.92
-20	(- 4)	3266	823	957	453	3.46	9.74	7.20	1.81	2.11
-15	(+ 5)	4027	1015	1180	508	3.87	12.06	7.92	1.99	2.32
-10	(+14)	4909	1237	1439	559	4.22	14.77	8.77	2.21	2.57
-5	(+23)	5928	1494	1737	603	4.45	17.93	9.84	2.48	2.88
0	(+32)	7099	1789	2080	636	4.52	21.58	11.19	2.82	3.28

TEST CONDITIONS: @115V3600RPM		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)	1073	270	314	269	2.35	3.17	4.01	1.01	1.18
-35	(-31)	1468	370	430	306	2.46	4.34	4.79	1.21	1.40
-30	(-22)	1925	485	564	355	2.74	5.71	5.42	1.37	1.59
-25	(-13)	2457	619	720	412	3.14	7.30	5.97	1.50	1.75
-20	(- 4)	3080	776	902	474	3.60	9.19	6.49	1.64	1.90
-15	(+ 5)	3808	960	1116	537	4.07	11.40	7.06	1.78	2.07
-10	(+14)	4657	1173	1365	598	4.50	14.01	7.74	1.95	2.27
-5	(+23)	5640	1421	1653	654	4.83	17.05	8.59	2.17	2.52
0	(+32)	6773	1707	1985	701	5.01	20.59	9.69	2.44	2.84

TEST CONDITIONS: @115V3600RPM		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)	967	244	283	278	2.38	2.85	3.44	0.87	1.01
-35	(-31)	1337	337	392	315	2.49	3.96	4.25	1.07	1.25
-30	(-22)	1766	445	517	365	2.79	5.24	4.88	1.23	1.43
-25	(-13)	2269	572	665	426	3.22	6.74	5.39	1.36	1.58
-20	(- 4)	2861	721	838	493	3.74	8.53	5.84	1.47	1.71
-15	(+ 5)	3557	896	1042	563	4.28	10.65	6.31	1.59	1.85
-10	(+14)	4371	1101	1281	634	4.80	13.15	6.86	1.73	2.01
-5	(+23)	5318	1340	1558	700	5.24	16.08	7.55	1.90	2.21
0	(+32)	6413	1616	1879	760	5.55	19.49	8.46	2.13	2.48

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		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)	1660	418	486	326	2.69	4.90	5.07	1.28	1.48	
-35 (-31)	2074	523	608	375	2.95	6.13	5.58	1.41	1.64	
-30 (-22)	2606	657	764	425	3.26	7.73	6.19	1.56	1.81	
-25 (-13)	3260	821	955	475	3.61	9.69	6.88	1.73	2.02	
-20 (- 4)	4038	1018	1183	526	3.98	12.05	7.64	1.93	2.24	
-15 (+ 5)	4943	1246	1448	578	4.34	14.81	8.48	2.14	2.48	
-10 (+14)	5978	1506	1752	632	4.67	18.00	9.38	2.36	2.75	
-5 (+23)	7146	1801	2094	688	4.97	21.62	10.35	2.61	3.03	
0 (+32)	8450	2129	2476	747	5.21	25.69	11.37	2.87	3.33	

TEST CONDITIONS: @115V4500RPM		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)	1549	390	454	326	2.64	4.57	4.72	1.19	1.38	
-35 (-31)	2018	509	591	390	2.99	5.97	5.20	1.31	1.52	
-30 (-22)	2579	650	756	452	3.38	7.65	5.75	1.45	1.69	
-25 (-13)	3236	816	948	511	3.79	9.62	6.37	1.61	1.87	
-20 (- 4)	3991	1006	1169	567	4.21	11.91	7.05	1.78	2.07	
-15 (+ 5)	4847	1221	1420	622	4.61	14.52	7.79	1.96	2.28	
-10 (+14)	5807	1463	1702	676	4.98	17.47	8.58	2.16	2.51	
-5 (+23)	6873	1732	2014	728	5.30	20.79	9.42	2.37	2.76	
0 (+32)	8050	2028	2359	780	5.54	24.47	10.30	2.59	3.02	

TEST CONDITIONS: @115V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°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)	1343	338	393	311	2.59	3.96	4.30	1.08	1.26	
-35 (-31)	1879	474	551	395	3.03	5.56	4.74	1.19	1.39	
-30 (-22)	2482	625	727	473	3.51	7.36	5.24	1.32	1.54	
-25 (-13)	3154	795	924	545	4.00	9.38	5.80	1.46	1.70	
-20 (- 4)	3898	982	1142	612	4.48	11.63	6.40	1.61	1.87	
-15 (+ 5)	4716	1188	1382	673	4.93	14.12	7.04	1.77	2.06	
-10 (+14)	5613	1414	1645	731	5.34	16.88	7.71	1.94	2.26	
-5 (+23)	6590	1661	1931	784	5.68	19.92	8.42	2.12	2.47	
0 (+32)	7650	1928	2242	833	5.94	23.25	9.16	2.31	2.68	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		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)	1042	263	305	278	2.55	3.07	3.83	0.97	1.12
-35	(-31)	1658	418	486	386	3.10	4.91	4.24	1.07	1.24
-30	(-22)	2314	583	678	485	3.67	6.86	4.70	1.18	1.38
-25	(-13)	3012	759	883	575	4.24	8.96	5.19	1.31	1.52
-20	(- 4)	3757	947	1101	656	4.79	11.21	5.71	1.44	1.67
-15	(+ 5)	4551	1147	1333	729	5.30	13.62	6.26	1.58	1.83
-10	(+14)	5396	1360	1581	795	5.75	16.23	6.83	1.72	2.00
-5	(+23)	6295	1586	1845	853	6.13	19.03	7.41	1.87	2.17
0	(+32)	7252	1828	2125	904	6.42	22.04	8.01	2.02	2.35

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		