

COMPRESSOR DEFINITION

Designation	VEM T404U
Nominal Voltage/Frequency	230 V 40-150 Hz
Engineering Number	513903039

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	230 / 40-150	[V / Hz]	
4 Application type	Low-Medium Back Pressure (Light Commercial / Peak 65°C)		
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)	Static/Fan	103 to 140 V	103 to 140 V
8.2 LBP (43°C Ambient temperature)	Static/Fan	103 to 140 V	103 to 140 V
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	1/3+	[hp]
2 Displacement	4.25	[cm ³] (0.259 cu.in)
2.1 Bore [mm]	19.000	
2.2 Stroke [mm]	15.000	
3 Lubricant charge	220	[ml] (7.44 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO22	
4 Weight (with oil charge)	7.18	[kg] (15.83 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 40-150 Hz 3 ~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF03B01 N XX XX	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	INVERTER CF03B01 N X	
6 Start winding resistance	13.65	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	13.65	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	2.80/2.80	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	2.00/2.00	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	2.00/2.00	[A] - Measured according to UL 984
11 Approval boards certification	TUV - UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V1200RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
485	122	142	76	1.13	2.03	6.38	1.61	1.87

TEST CONDITIONS: @115V1600RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
615	155	180	90	1.30	2.57	6.81	1.72	2.00

TEST CONDITIONS: @115V2000RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
771	194	226	109	1.55	3.22	7.07	1.78	2.07

TEST CONDITIONS: @115V3000RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
1169	295	343	162	2.21	4.89	7.23	1.82	2.12

TEST CONDITIONS: @115V3600RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
1406	354	412	196	2.63	5.88	7.17	1.81	2.10

TEST CONDITIONS: @115V4500RPM			ARIMBP Fan		Evaporating temperature (Condensing temperature)		-6.7°C (19.94°F) 48.9°C (120.02°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]
1789	451	524	259	3.42	7.48	6.92	1.74	2.03

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1200RPM		ARI4 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)	137	34	40	30	0.51	0.47	4.52	1.14	1.32
-35	(-31)	176	44	52	35	0.59	0.61	5.00	1.26	1.47
-30	(-22)	224	56	66	40	0.66	0.78	5.56	1.40	1.63
-25	(-13)	281	71	82	45	0.73	0.99	6.21	1.56	1.82
-20	(- 4)	347	87	102	50	0.79	1.23	6.98	1.76	2.04
-15	(+ 5)	421	106	123	54	0.84	1.50	7.90	1.99	2.31
-10	(+14)	502	127	147	57	0.88	1.80	9.00	2.27	2.64
-5	(+23)	591	149	173	58	0.89	2.14	10.32	2.60	3.02
0	(+32)	687	173	201	57	0.89	2.51	11.87	2.99	3.48

TEST CONDITIONS: @115V1200RPM		ARI4 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)	117	30	34	35	0.56	0.45	3.45	0.87	1.01
-35	(-31)	152	38	45	40	0.64	0.59	3.88	0.98	1.14
-30	(-22)	196	49	58	45	0.72	0.76	4.32	1.09	1.27
-25	(-13)	249	63	73	51	0.80	0.97	4.79	1.21	1.40
-20	(- 4)	310	78	91	57	0.88	1.21	5.32	1.34	1.56
-15	(+ 5)	380	96	111	63	0.96	1.49	5.95	1.50	1.74
-10	(+14)	456	115	134	68	1.02	1.81	6.70	1.69	1.96
-5	(+23)	541	136	158	71	1.07	2.17	7.59	1.91	2.22
0	(+32)	631	159	185	74	1.11	2.57	8.66	2.18	2.54

TEST CONDITIONS: @115V1200RPM		ARI4 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)	97	24	28	37	0.59	0.42	2.52	0.64	0.74
-35	(-31)	124	31	36	43	0.69	0.54	2.93	0.74	0.86
-30	(-22)	161	41	47	50	0.79	0.70	3.28	0.83	0.96
-25	(-13)	206	52	60	58	0.89	0.90	3.61	0.91	1.06
-20	(- 4)	259	65	76	66	1.00	1.14	3.94	0.99	1.15
-15	(+ 5)	320	81	94	74	1.11	1.42	4.29	1.08	1.26
-10	(+14)	389	98	114	82	1.21	1.74	4.71	1.19	1.38
-5	(+23)	465	117	136	88	1.31	2.11	5.22	1.31	1.53
0	(+32)	547	138	160	94	1.39	2.51	5.84	1.47	1.71

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1600RPM		ARI4 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)	175	44	51	38	0.63	0.61	4.61	1.16	1.35
-35	(-31)	219	55	64	43	0.72	0.76	5.06	1.28	1.48
-30	(-22)	281	71	82	50	0.80	0.98	5.66	1.43	1.66
-25	(-13)	358	90	105	56	0.88	1.26	6.41	1.61	1.88
-20	(- 4)	450	113	132	61	0.96	1.59	7.31	1.84	2.14
-15	(+ 5)	552	139	162	66	1.02	1.97	8.37	2.11	2.45
-10	(+14)	665	168	195	70	1.06	2.39	9.59	2.42	2.81
-5	(+23)	786	198	230	72	1.08	2.84	10.98	2.77	3.22
0	(+32)	912	230	267	72	1.08	3.33	12.54	3.16	3.67

TEST CONDITIONS: @115V1600RPM		ARI4 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)	151	38	44	41	0.66	0.58	3.77	0.95	1.10
-35	(-31)	191	48	56	47	0.75	0.73	4.12	1.04	1.21
-30	(-22)	246	62	72	54	0.84	0.95	4.56	1.15	1.34
-25	(-13)	315	79	92	61	0.94	1.22	5.07	1.28	1.49
-20	(- 4)	396	100	116	69	1.03	1.55	5.68	1.43	1.66
-15	(+ 5)	487	123	143	76	1.12	1.92	6.37	1.61	1.87
-10	(+14)	586	148	172	82	1.19	2.33	7.16	1.80	2.10
-5	(+23)	691	174	202	86	1.25	2.77	8.05	2.03	2.36
0	(+32)	799	201	234	89	1.29	3.25	9.04	2.28	2.65

TEST CONDITIONS: @115V1600RPM		ARI4 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)	125	31	37	43	0.67	0.54	2.84	0.72	0.83
-35	(-31)	157	40	46	50	0.77	0.68	3.19	0.80	0.93
-30	(-22)	204	51	60	59	0.89	0.89	3.54	0.89	1.04
-25	(-13)	262	66	77	68	1.00	1.15	3.92	0.99	1.15
-20	(- 4)	331	83	97	77	1.12	1.45	4.31	1.09	1.26
-15	(+ 5)	407	103	119	86	1.24	1.80	4.72	1.19	1.38
-10	(+14)	490	123	144	95	1.36	2.19	5.17	1.30	1.51
-5	(+23)	577	145	169	102	1.46	2.61	5.64	1.42	1.65
0	(+32)	665	168	195	108	1.54	3.06	6.14	1.55	1.80

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V2000RPM		ARI4 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)	222	56	65	47	0.76	0.77	4.73	1.19	1.39
-35	(-31)	281	71	82	54	0.86	0.98	5.22	1.32	1.53
-30	(-22)	359	91	105	61	0.96	1.26	5.83	1.47	1.71
-25	(-13)	456	115	134	69	1.04	1.60	6.59	1.66	1.93
-20	(- 4)	569	143	167	76	1.12	2.01	7.51	1.89	2.20
-15	(+ 5)	696	175	204	82	1.18	2.48	8.59	2.17	2.52
-10	(+14)	836	211	245	86	1.23	3.00	9.86	2.49	2.89
-5	(+23)	986	249	289	88	1.26	3.57	11.33	2.86	3.32
0	(+32)	1146	289	336	88	1.28	4.19	13.02	3.28	3.81

TEST CONDITIONS: @115V2000RPM		ARI4 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)	191	48	56	50	0.76	0.73	3.90	0.98	1.14
-35	(-31)	243	61	71	58	0.88	0.93	4.28	1.08	1.25
-30	(-22)	313	79	92	66	1.00	1.21	4.72	1.19	1.38
-25	(-13)	398	100	117	75	1.11	1.55	5.23	1.32	1.53
-20	(- 4)	499	126	146	84	1.22	1.95	5.84	1.47	1.71
-15	(+ 5)	611	154	179	92	1.32	2.40	6.54	1.65	1.92
-10	(+14)	734	185	215	99	1.41	2.92	7.36	1.86	2.16
-5	(+23)	867	218	254	105	1.49	3.48	8.31	2.09	2.43
0	(+32)	1006	253	295	108	1.55	4.08	9.40	2.37	2.75

TEST CONDITIONS: @115V2000RPM		ARI4 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)	157	40	46	51	0.79	0.68	3.00	0.76	0.88
-35	(-31)	199	50	58	60	0.92	0.86	3.38	0.85	0.99
-30	(-22)	257	65	75	70	1.06	1.12	3.75	0.95	1.10
-25	(-13)	330	83	97	81	1.20	1.44	4.13	1.04	1.21
-20	(- 4)	415	104	121	92	1.33	1.82	4.52	1.14	1.33
-15	(+ 5)	510	129	149	103	1.46	2.26	4.95	1.25	1.45
-10	(+14)	614	155	180	113	1.59	2.75	5.42	1.37	1.59
-5	(+23)	725	183	213	121	1.71	3.29	5.95	1.50	1.74
0	(+32)	842	212	247	128	1.82	3.87	6.55	1.65	1.92

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		ARI4 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)	334	84	98	71	1.10	1.16	4.71	1.19	1.38
-35	(-31)	423	107	124	81	1.24	1.47	5.22	1.31	1.53
-30	(-22)	541	136	158	92	1.37	1.89	5.83	1.47	1.71
-25	(-13)	684	172	201	103	1.51	2.40	6.58	1.66	1.93
-20	(- 4)	853	215	250	114	1.64	3.01	7.47	1.88	2.19
-15	(+ 5)	1044	263	306	123	1.75	3.71	8.53	2.15	2.50
-10	(+14)	1257	317	368	130	1.84	4.51	9.77	2.46	2.86
-5	(+23)	1491	376	437	134	1.90	5.40	11.21	2.82	3.28
0	(+32)	1743	439	511	135	1.93	6.38	12.86	3.24	3.77

TEST CONDITIONS: @115V3000RPM		ARI4 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)	289	73	85	75	1.11	1.10	3.90	0.98	1.14
-35	(-31)	368	93	108	87	1.27	1.41	4.29	1.08	1.26
-30	(-22)	472	119	138	99	1.43	1.82	4.74	1.20	1.39
-25	(-13)	599	151	176	113	1.60	2.32	5.27	1.33	1.54
-20	(- 4)	748	189	219	126	1.76	2.92	5.88	1.48	1.72
-15	(+ 5)	918	231	269	138	1.91	3.61	6.60	1.66	1.93
-10	(+14)	1107	279	324	148	2.04	4.40	7.44	1.88	2.18
-5	(+23)	1313	331	385	156	2.15	5.27	8.43	2.12	2.47
0	(+32)	1535	387	450	161	2.24	6.24	9.57	2.41	2.80

TEST CONDITIONS: @115V3000RPM		ARI4 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)	237	60	70	76	1.12	1.02	3.08	0.78	0.90
-35	(-31)	303	76	89	89	1.31	1.31	3.45	0.87	1.01
-30	(-22)	391	98	114	104	1.50	1.70	3.82	0.96	1.12
-25	(-13)	499	126	146	120	1.70	2.18	4.21	1.06	1.23
-20	(- 4)	627	158	184	136	1.90	2.75	4.62	1.17	1.36
-15	(+ 5)	772	194	226	151	2.09	3.42	5.09	1.28	1.49
-10	(+14)	933	235	274	165	2.26	4.18	5.63	1.42	1.65
-5	(+23)	1110	280	325	177	2.42	5.03	6.24	1.57	1.83
0	(+32)	1299	327	381	187	2.55	5.97	6.96	1.75	2.04

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3600RPM		ARI4 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)	409	103	120	88	1.29	1.42	4.67	1.18	1.37
-35	(-31)	518	131	152	100	1.44	1.81	5.19	1.31	1.52
-30	(-22)	659	166	193	113	1.60	2.31	5.80	1.46	1.70
-25	(-13)	831	210	244	127	1.76	2.92	6.53	1.64	1.91
-20	(- 4)	1034	261	303	140	1.93	3.65	7.38	1.86	2.16
-15	(+ 5)	1266	319	371	152	2.08	4.50	8.37	2.11	2.45
-10	(+14)	1528	385	448	162	2.21	5.48	9.52	2.40	2.79
-5	(+23)	1818	458	533	169	2.31	6.58	10.84	2.73	3.18
0	(+32)	2136	538	626	172	2.37	7.82	12.35	3.11	3.62

TEST CONDITIONS: @115V3600RPM		ARI4 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)	335	84	98	88	1.27	1.28	3.82	0.96	1.12
-35	(-31)	432	109	127	103	1.45	1.66	4.23	1.07	1.24
-30	(-22)	558	141	164	119	1.65	2.16	4.70	1.18	1.38
-25	(-13)	712	179	209	135	1.85	2.76	5.23	1.32	1.53
-20	(- 4)	892	225	261	151	2.05	3.48	5.84	1.47	1.71
-15	(+ 5)	1098	277	322	167	2.25	4.32	6.55	1.65	1.92
-10	(+14)	1331	335	390	180	2.43	5.28	7.36	1.86	2.16
-5	(+23)	1588	400	465	192	2.58	6.37	8.31	2.09	2.43
0	(+32)	1869	471	548	200	2.70	7.59	9.39	2.37	2.75

TEST CONDITIONS: @115V3600RPM		ARI4 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)	275	69	80	90	1.28	1.18	3.02	0.76	0.89
-35	(-31)	355	90	104	106	1.48	1.53	3.39	0.85	0.99
-30	(-22)	460	116	135	124	1.71	2.00	3.77	0.95	1.10
-25	(-13)	589	149	173	143	1.95	2.57	4.16	1.05	1.22
-20	(- 4)	742	187	217	162	2.19	3.26	4.59	1.16	1.34
-15	(+ 5)	917	231	269	181	2.43	4.06	5.07	1.28	1.48
-10	(+14)	1114	281	326	198	2.65	4.99	5.61	1.41	1.64
-5	(+23)	1332	336	390	213	2.85	6.04	6.23	1.57	1.83
0	(+32)	1571	396	460	226	3.03	7.22	6.96	1.75	2.04

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		ARI4 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)	524	132	154	114	1.64	1.81	4.59	1.16	1.34
-35	(-31)	675	170	198	131	1.85	2.35	5.15	1.30	1.51
-30	(-22)	861	217	252	149	2.06	3.01	5.78	1.46	1.69
-25	(-13)	1083	273	317	166	2.28	3.80	6.49	1.64	1.90
-20	(- 4)	1341	338	393	184	2.49	4.74	7.29	1.84	2.14
-15	(+ 5)	1636	412	479	200	2.68	5.82	8.20	2.07	2.40
-10	(+14)	1968	496	577	214	2.85	7.05	9.23	2.33	2.71
-5	(+23)	2336	589	685	226	2.99	8.46	10.40	2.62	3.05
0	(+32)	2742	691	804	234	3.09	10.03	11.70	2.95	3.43

TEST CONDITIONS: @115V4500RPM		ARI4 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)	433	109	127	118	1.68	1.66	3.70	0.93	1.08
-35	(-31)	561	141	164	137	1.92	2.16	4.13	1.04	1.21
-30	(-22)	721	182	211	157	2.17	2.78	4.60	1.16	1.35
-25	(-13)	914	230	268	178	2.42	3.54	5.12	1.29	1.50
-20	(- 4)	1141	287	334	199	2.68	4.45	5.70	1.44	1.67
-15	(+ 5)	1401	353	410	219	2.93	5.51	6.36	1.60	1.86
-10	(+14)	1694	427	496	238	3.16	6.73	7.11	1.79	2.08
-5	(+23)	2022	509	592	255	3.37	8.11	7.95	2.00	2.33
0	(+32)	2383	601	698	268	3.54	9.68	8.91	2.25	2.61

TEST CONDITIONS: @115V4500RPM		ARI4 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)	352	89	103	117	1.68	1.51	2.97	0.75	0.87
-35	(-31)	455	115	133	138	1.94	1.97	3.33	0.84	0.98
-30	(-22)	588	148	172	161	2.22	2.55	3.70	0.93	1.08
-25	(-13)	751	189	220	185	2.52	3.27	4.09	1.03	1.20
-20	(- 4)	944	238	277	210	2.82	4.15	4.51	1.14	1.32
-15	(+ 5)	1167	294	342	234	3.12	5.18	4.98	1.25	1.46
-10	(+14)	1421	358	417	258	3.41	6.37	5.50	1.39	1.61
-5	(+23)	1707	430	500	279	3.68	7.74	6.10	1.54	1.79
0	(+32)	2023	510	593	299	3.93	9.29	6.77	1.71	1.98

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal EUEM		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 90° up		
3.2 DISCHARGE	4.94 +0.08/-0.08	[mm]	(0.194" +0.003"/-0.003")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 90° up + 24° to Back		
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		