

### COMPRESSOR DEFINITION

Designation	VEM T404U
Nominal Voltage/Frequency	230 V 40-150 Hz
Engineering Number	513903048

### 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 - 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)	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 <sup>2</sup> ] (262 psig)	/ °C - °F
9.2 Peak	20.6	[kgf/cm <sup>2</sup> ] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1/3+	[hp]
2 Displacement	4.25	[cm <sup>3</sup> ] (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 <sup>2</sup> ]

### C - ELECTRICAL 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)	-	[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	CE - TUV - UKCA	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: <b>@115V1200RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
481	121	141	78	0.87	2.01	6.18	1.56	1.81

TEST CONDITIONS: <b>@115V1600RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
610	154	179	92	1.00	2.55	6.61	1.67	1.94

TEST CONDITIONS: <b>@115V2000RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
762	192	223	112	1.27	3.18	6.83	1.72	2.00

TEST CONDITIONS: <b>@115V3000RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
1155	291	338	165	1.82	4.83	7.01	1.77	2.05

TEST CONDITIONS: <b>@115V3600RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
1389	350	407	200	2.16	5.81	6.93	1.75	2.03

TEST CONDITIONS: <b>@115V4500RPM</b>			<b>ARIMBP Fan</b>		Evaporating temperature (Condensing temperature)		<b>-6.7°C (19.94°F) 48.9°C (120.02°F)</b>	
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]
1768	445	518	270	2.94	7.39	6.56	1.65	1.92

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1200RPM		ARI4 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)	136	34	40	31	0.40	0.47	4.38	1.10	1.28
-35	(-31)	174	44	51	36	0.46	0.61	4.84	1.22	1.42
-30	(-22)	222	56	65	41	0.51	0.78	5.38	1.36	1.58
-25	(-13)	279	70	82	46	0.56	0.98	6.01	1.51	1.76
-20	(- 4)	344	87	101	51	0.61	1.21	6.76	1.70	1.98
-15	(+ 5)	417	105	122	55	0.65	1.48	7.65	1.93	2.24
-10	(+14)	498	126	146	58	0.68	1.79	8.72	2.20	2.56
-5	(+23)	586	148	172	59	0.69	2.12	9.99	2.52	2.93
0	(+32)	682	172	200	59	0.69	2.49	11.49	2.90	3.37

TEST CONDITIONS: @115V1200RPM		ARI4 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)	116	29	34	35	0.43	0.45	3.34	0.84	0.98
-35	(-31)	151	38	44	41	0.49	0.58	3.76	0.95	1.10
-30	(-22)	195	49	57	46	0.55	0.75	4.18	1.05	1.22
-25	(-13)	247	62	72	53	0.62	0.96	4.64	1.17	1.36
-20	(- 4)	308	78	90	59	0.68	1.20	5.15	1.30	1.51
-15	(+ 5)	376	95	110	64	0.73	1.48	5.76	1.45	1.69
-10	(+14)	453	114	133	69	0.78	1.80	6.49	1.63	1.90
-5	(+23)	536	135	157	73	0.82	2.15	7.35	1.85	2.15
0	(+32)	626	158	183	75	0.85	2.54	8.38	2.11	2.46

TEST CONDITIONS: @115V1200RPM		ARI4 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)	96	24	28	38	0.46	0.41	2.45	0.62	0.72
-35	(-31)	123	31	36	44	0.53	0.53	2.84	0.72	0.83
-30	(-22)	159	40	47	52	0.61	0.69	3.18	0.80	0.93
-25	(-13)	204	51	60	60	0.69	0.89	3.49	0.88	1.02
-20	(- 4)	257	65	75	68	0.77	1.13	3.81	0.96	1.12
-15	(+ 5)	317	80	93	76	0.85	1.41	4.16	1.05	1.22
-10	(+14)	385	97	113	84	0.93	1.73	4.57	1.15	1.34
-5	(+23)	461	116	135	90	1.00	2.09	5.05	1.27	1.48
0	(+32)	542	137	159	96	1.07	2.49	5.65	1.42	1.66

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V1600RPM		ARI4 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)	174	44	51	39	0.49	0.60	4.48	1.13	1.31
-35	(-31)	217	55	64	44	0.56	0.76	4.92	1.24	1.44
-30	(-22)	279	70	82	51	0.62	0.97	5.50	1.39	1.61
-25	(-13)	355	90	104	57	0.68	1.25	6.23	1.57	1.82
-20	(- 4)	446	112	131	63	0.74	1.57	7.10	1.79	2.08
-15	(+ 5)	548	138	161	68	0.78	1.95	8.13	2.05	2.38
-10	(+14)	660	166	193	72	0.81	2.37	9.32	2.35	2.73
-5	(+23)	779	196	228	74	0.83	2.82	10.67	2.69	3.13
0	(+32)	904	228	265	74	0.83	3.31	12.19	3.07	3.57

TEST CONDITIONS: @115V1600RPM		ARI4 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)	150	38	44	42	0.50	0.57	3.65	0.92	1.07
-35	(-31)	189	48	55	48	0.57	0.73	4.00	1.01	1.17
-30	(-22)	244	61	72	55	0.65	0.94	4.42	1.11	1.30
-25	(-13)	313	79	92	63	0.72	1.21	4.93	1.24	1.44
-20	(- 4)	393	99	115	70	0.79	1.53	5.51	1.39	1.62
-15	(+ 5)	483	122	142	77	0.85	1.90	6.19	1.56	1.81
-10	(+14)	581	146	170	83	0.91	2.31	6.96	1.75	2.04
-5	(+23)	685	173	201	88	0.96	2.75	7.82	1.97	2.29
0	(+32)	793	200	232	91	0.99	3.22	8.78	2.21	2.57

TEST CONDITIONS: @115V1600RPM		ARI4 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)	124	31	36	44	0.51	0.53	2.76	0.70	0.81
-35	(-31)	156	39	46	51	0.59	0.68	3.10	0.78	0.91
-30	(-22)	202	51	59	60	0.68	0.88	3.44	0.87	1.01
-25	(-13)	260	66	76	69	0.77	1.14	3.81	0.96	1.12
-20	(- 4)	328	83	96	79	0.86	1.44	4.19	1.05	1.23
-15	(+ 5)	404	102	118	88	0.95	1.79	4.59	1.16	1.34
-10	(+14)	486	122	142	97	1.04	2.17	5.02	1.26	1.47
-5	(+23)	572	144	168	104	1.12	2.59	5.48	1.38	1.60
0	(+32)	660	166	193	110	1.19	3.03	5.97	1.50	1.75

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V2000RPM		ARI4 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)	220	55	64	48	0.63	0.76	4.58	1.15	1.34
-35	(-31)	278	70	81	55	0.71	0.97	5.05	1.27	1.48
-30	(-22)	355	90	104	63	0.79	1.24	5.65	1.42	1.65
-25	(-13)	451	114	132	70	0.86	1.58	6.38	1.61	1.87
-20	(- 4)	562	142	165	77	0.92	1.98	7.26	1.83	2.13
-15	(+ 5)	688	173	202	83	0.97	2.45	8.31	2.09	2.43
-10	(+14)	826	208	242	88	1.01	2.96	9.54	2.40	2.79
-5	(+23)	975	246	286	90	1.04	3.53	10.96	2.76	3.21
0	(+32)	1132	285	332	89	1.05	4.14	12.59	3.17	3.69

TEST CONDITIONS: @115V2000RPM		ARI4 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)	189	48	55	51	0.63	0.72	3.77	0.95	1.10
-35	(-31)	240	61	70	59	0.73	0.92	4.14	1.04	1.21
-30	(-22)	309	78	91	68	0.82	1.19	4.57	1.15	1.34
-25	(-13)	394	99	115	77	0.91	1.53	5.06	1.28	1.48
-20	(- 4)	493	124	144	86	1.00	1.92	5.65	1.42	1.65
-15	(+ 5)	604	152	177	94	1.08	2.38	6.33	1.59	1.85
-10	(+14)	726	183	213	102	1.16	2.88	7.12	1.79	2.09
-5	(+23)	856	216	251	107	1.22	3.44	8.03	2.02	2.35
0	(+32)	994	250	291	110	1.27	4.04	9.09	2.29	2.66

TEST CONDITIONS: @115V2000RPM		ARI4 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)	155	39	46	52	0.64	0.67	2.90	0.73	0.85
-35	(-31)	197	50	58	61	0.75	0.85	3.27	0.82	0.96
-30	(-22)	254	64	75	72	0.87	1.11	3.63	0.92	1.06
-25	(-13)	326	82	95	83	0.98	1.42	4.00	1.01	1.17
-20	(- 4)	410	103	120	94	1.09	1.80	4.38	1.10	1.28
-15	(+ 5)	504	127	148	105	1.20	2.23	4.78	1.21	1.40
-10	(+14)	607	153	178	115	1.31	2.72	5.24	1.32	1.53
-5	(+23)	717	181	210	124	1.40	3.25	5.75	1.45	1.68
0	(+32)	832	210	244	131	1.49	3.82	6.33	1.60	1.86

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3000RPM		ARI4 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)	330	83	97	72	0.91	1.14	4.57	1.15	1.34
-35	(-31)	418	105	123	83	1.02	1.46	5.06	1.27	1.48
-30	(-22)	534	135	157	94	1.14	1.87	5.66	1.43	1.66
-25	(-13)	676	170	198	105	1.25	2.37	6.38	1.61	1.87
-20	(- 4)	842	212	247	116	1.35	2.97	7.25	1.83	2.12
-15	(+ 5)	1032	260	302	125	1.44	3.67	8.27	2.08	2.42
-10	(+14)	1242	313	364	132	1.52	4.45	9.47	2.39	2.77
-5	(+23)	1473	371	432	137	1.57	5.33	10.86	2.74	3.18
0	(+32)	1722	434	505	138	1.59	6.30	12.46	3.14	3.65

TEST CONDITIONS: @115V3000RPM		ARI4 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)	285	72	84	76	0.91	1.09	3.77	0.95	1.11
-35	(-31)	363	92	106	88	1.04	1.40	4.16	1.05	1.22
-30	(-22)	466	117	137	101	1.18	1.80	4.60	1.16	1.35
-25	(-13)	592	149	173	115	1.32	2.30	5.11	1.29	1.50
-20	(- 4)	739	186	217	128	1.45	2.89	5.70	1.44	1.67
-15	(+ 5)	907	229	266	141	1.57	3.57	6.40	1.61	1.87
-10	(+14)	1093	276	320	151	1.69	4.34	7.21	1.82	2.11
-5	(+23)	1297	327	380	159	1.78	5.21	8.17	2.06	2.39
0	(+32)	1517	382	444	164	1.85	6.16	9.28	2.34	2.72

TEST CONDITIONS: @115V3000RPM		ARI4 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)	235	59	69	77	0.92	1.01	2.98	0.75	0.87
-35	(-31)	299	75	88	91	1.07	1.29	3.34	0.84	0.98
-30	(-22)	386	97	113	106	1.23	1.68	3.70	0.93	1.09
-25	(-13)	493	124	144	122	1.40	2.15	4.08	1.03	1.20
-20	(- 4)	619	156	181	138	1.56	2.72	4.48	1.13	1.31
-15	(+ 5)	763	192	223	154	1.71	3.38	4.94	1.24	1.45
-10	(+14)	922	232	270	168	1.86	4.13	5.45	1.37	1.60
-5	(+23)	1096	276	321	181	1.99	4.97	6.05	1.52	1.77
0	(+32)	1284	324	376	190	2.10	5.90	6.74	1.70	1.98

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V3600RPM		ARI4 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)	404	102	118	90	1.06	1.40	4.51	1.14	1.32
-35	(-31)	512	129	150	102	1.18	1.79	5.01	1.26	1.47
-30	(-22)	652	164	191	116	1.31	2.28	5.61	1.41	1.64
-25	(-13)	822	207	241	130	1.45	2.88	6.31	1.59	1.85
-20	(- 4)	1022	257	299	143	1.59	3.61	7.13	1.80	2.09
-15	(+ 5)	1251	315	367	155	1.71	4.45	8.09	2.04	2.37
-10	(+14)	1510	380	442	165	1.82	5.41	9.20	2.32	2.70
-5	(+23)	1796	453	526	172	1.90	6.50	10.48	2.64	3.07
0	(+32)	2111	532	618	176	1.96	7.72	11.94	3.01	3.50

TEST CONDITIONS: @115V3600RPM		ARI4 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)	331	83	97	90	1.04	1.26	3.69	0.93	1.08
-35	(-31)	427	108	125	105	1.19	1.64	4.09	1.03	1.20
-30	(-22)	552	139	162	121	1.35	2.13	4.54	1.14	1.33
-25	(-13)	703	177	206	138	1.52	2.73	5.06	1.27	1.48
-20	(- 4)	881	222	258	155	1.69	3.44	5.65	1.42	1.65
-15	(+ 5)	1085	274	318	170	1.85	4.27	6.33	1.59	1.85
-10	(+14)	1315	331	385	184	1.99	5.22	7.12	1.79	2.09
-5	(+23)	1569	395	460	196	2.12	6.30	8.03	2.02	2.35
0	(+32)	1847	465	541	204	2.22	7.50	9.08	2.29	2.66

TEST CONDITIONS: @115V3600RPM		ARI4 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)	271	68	80	92	1.05	1.17	2.92	0.74	0.86
-35	(-31)	351	88	103	108	1.22	1.52	3.28	0.83	0.96
-30	(-22)	455	115	133	127	1.40	1.97	3.64	0.92	1.07
-25	(-13)	582	147	171	146	1.60	2.54	4.02	1.01	1.18
-20	(- 4)	733	185	215	166	1.80	3.22	4.44	1.12	1.30
-15	(+ 5)	906	228	265	185	1.99	4.01	4.90	1.23	1.44
-10	(+14)	1100	277	322	202	2.18	4.93	5.42	1.37	1.59
-5	(+23)	1316	332	386	218	2.34	5.97	6.03	1.52	1.77
0	(+32)	1552	391	455	231	2.48	7.13	6.73	1.70	1.97

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V4500RPM		ARI4 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)	518	130	152	119	1.41	1.79	4.35	1.10	1.27
-35	(-31)	666	168	195	136	1.59	2.32	4.88	1.23	1.43
-30	(-22)	850	214	249	155	1.77	2.98	5.48	1.38	1.60
-25	(-13)	1070	270	313	174	1.96	3.76	6.15	1.55	1.80
-20	(- 4)	1325	334	388	192	2.14	4.68	6.91	1.74	2.03
-15	(+ 5)	1616	407	474	209	2.31	5.74	7.78	1.96	2.28
-10	(+14)	1944	490	570	223	2.45	6.97	8.75	2.21	2.57
-5	(+23)	2308	582	676	235	2.57	8.35	9.85	2.48	2.89
0	(+32)	2709	683	794	244	2.66	9.91	11.09	2.80	3.25

TEST CONDITIONS: @115V4500RPM		ARI4 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)	428	108	125	123	1.44	1.64	3.51	0.88	1.03
-35	(-31)	554	140	162	142	1.65	2.13	3.91	0.99	1.15
-30	(-22)	712	179	209	163	1.86	2.75	4.36	1.10	1.28
-25	(-13)	903	228	265	185	2.08	3.50	4.85	1.22	1.42
-20	(- 4)	1127	284	330	207	2.31	4.40	5.40	1.36	1.58
-15	(+ 5)	1383	349	405	228	2.52	5.44	6.03	1.52	1.77
-10	(+14)	1673	422	490	248	2.72	6.64	6.74	1.70	1.97
-5	(+23)	1997	503	585	265	2.89	8.02	7.54	1.90	2.21
0	(+32)	2354	593	690	280	3.04	9.56	8.45	2.13	2.48

TEST CONDITIONS: @115V4500RPM		ARI4 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)	347	88	102	122	1.44	1.49	2.81	0.71	0.82
-35	(-31)	450	113	132	144	1.67	1.94	3.15	0.79	0.92
-30	(-22)	581	146	170	168	1.91	2.52	3.51	0.88	1.03
-25	(-13)	742	187	217	193	2.17	3.23	3.88	0.98	1.14
-20	(- 4)	932	235	273	218	2.43	4.10	4.28	1.08	1.25
-15	(+ 5)	1153	291	338	244	2.69	5.11	4.72	1.19	1.38
-10	(+14)	1404	354	411	268	2.94	6.29	5.22	1.31	1.53
-5	(+23)	1686	425	494	291	3.17	7.64	5.78	1.46	1.69
0	(+32)	1998	504	586	311	3.38	9.18	6.42	1.62	1.88



### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal
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 28° up + 25° to Back
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 42° 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	Slanted 42° up + 45° to Back
3.4 Oil cooler (Copper)	No [mm]
3.5 Connector sealing	Rubber Plugs