

### COMPRESSOR DEFINITION

Designation	VES F11C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513907251

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	230 / 32-150	[ V / Hz ]	
4 Application type	Low-Medium Back Pressure (Fullmotion Compressors)		
4.1 Evaporating temperature range	-35°C to 0°C	(-31°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	LST - Low Starting Torque		
7 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	160 to 264 V	160 to 264 V
8.2 LBP (43°C Ambient temperature)	Static	160 to 264 V	160 to 264 V
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm <sup>2</sup> ] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm <sup>2</sup> ] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	11.14	[cm <sup>3</sup> ] (0.680 cu.in)
2.1 Bore [mm]	26.000	
2.2 Stroke [mm]	21.000	
3 Lubricant charge	205	[ml] (6.93 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	6.55	[kg] (14.44 lb.)
5 Nitrogen charge	-	[kgf/cm <sup>2</sup> ]

### C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 31.7-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	VESF 2456 XXX X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	INVERTER VES 2456X	
6 Start winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (32/150 Hz)	2.10	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (32/150 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (32/150 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - VDE	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V950RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
160	40	47	31	0.27	0.61	5.11	1.29	1.50	

TEST CONDITIONS: @220V1300RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
222	56	65	42	0.35	0.85	5.32	1.34	1.56	

TEST CONDITIONS: @220V4000RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
624	157	183	127	0.96	2.38	4.91	1.24	1.44	

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		CECOMAF Static					(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]
-35	(-31)	126	32	37	20	0.18	0.40	6.43	1.62	1.88
-30	(-22)	166	42	49	23	0.19	0.53	7.12	1.79	2.09
-25	(-13)	217	55	64	27	0.21	0.70	8.00	2.02	2.34
-20	(- 4)	279	70	82	31	0.23	0.90	9.09	2.29	2.66
-15	(+ 5)	355	89	104	34	0.25	1.14	10.41	2.62	3.05
-10	(+14)	446	112	131	37	0.26	1.44	11.96	3.01	3.50
-5	(+23)	553	139	162	40	0.27	1.79	13.76	3.47	4.03
0	(+32)	680	171	199	42	0.27	2.21	15.82	3.99	4.64

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		CECOMAF Static			(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]
-35	(-31)	106	27	31	20	0.18	0.37	5.25	1.32	1.54
-30	(-22)	142	36	42	25	0.20	0.49	5.79	1.46	1.70
-25	(-13)	188	47	55	29	0.22	0.65	6.45	1.63	1.89
-20	(- 4)	245	62	72	34	0.25	0.85	7.23	1.82	2.12
-15	(+ 5)	315	79	92	38	0.27	1.10	8.16	2.06	2.39
-10	(+14)	400	101	117	43	0.30	1.40	9.25	2.33	2.71
-5	(+23)	501	126	147	48	0.32	1.76	10.50	2.65	3.08
0	(+32)	621	156	182	52	0.33	2.19	11.93	3.01	3.50

TEST CONDITIONS: @220V950RPM		CECOMAF Static			(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]
-35	(-31)	83	21	24	20	0.18	0.32	4.05	1.02	1.19
-30	(-22)	115	29	34	25	0.20	0.44	4.57	1.15	1.34
-25	(-13)	157	40	46	31	0.23	0.60	5.13	1.29	1.50
-20	(- 4)	210	53	61	37	0.26	0.80	5.74	1.45	1.68
-15	(+ 5)	275	69	80	43	0.30	1.05	6.41	1.61	1.88
-10	(+14)	354	89	104	49	0.34	1.36	7.15	1.80	2.09
-5	(+23)	449	113	132	56	0.37	1.73	7.98	2.01	2.34
0	(+32)	562	142	165	63	0.40	2.17	8.91	2.25	2.61

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	175	44	51	27	0.25	0.56	6.46	1.63	1.89
-30	(-22)	232	58	68	32	0.28	0.74	7.20	1.82	2.11
-25	(-13)	300	76	88	37	0.31	0.96	8.12	2.05	2.38
-20	(- 4)	384	97	113	42	0.34	1.23	9.21	2.32	2.70
-15	(+ 5)	485	122	142	46	0.37	1.56	10.50	2.64	3.08
-10	(+14)	605	153	177	51	0.40	1.95	11.97	3.02	3.51
-5	(+23)	748	188	219	55	0.43	2.42	13.64	3.44	4.00
0	(+32)	914	230	268	59	0.46	2.97	15.52	3.91	4.55

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	146	37	43	28	0.25	0.51	5.29	1.33	1.55
-30	(-22)	198	50	58	34	0.29	0.69	5.88	1.48	1.72
-25	(-13)	260	66	76	39	0.33	0.90	6.58	1.66	1.93
-20	(- 4)	335	85	98	45	0.37	1.17	7.40	1.87	2.17
-15	(+ 5)	427	108	125	51	0.41	1.49	8.36	2.11	2.45
-10	(+14)	536	135	157	57	0.45	1.88	9.44	2.38	2.77
-5	(+23)	666	168	195	63	0.49	2.34	10.67	2.69	3.13
0	(+32)	818	206	240	69	0.54	2.88	12.05	3.04	3.53

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	119	30	35	28	0.26	0.45	4.22	1.06	1.24
-30	(-22)	164	41	48	35	0.30	0.63	4.71	1.19	1.38
-25	(-13)	219	55	64	42	0.35	0.83	5.26	1.32	1.54
-20	(- 4)	285	72	84	49	0.39	1.09	5.87	1.48	1.72
-15	(+ 5)	365	92	107	56	0.44	1.40	6.56	1.65	1.92
-10	(+14)	462	117	136	63	0.50	1.78	7.33	1.85	2.15
-5	(+23)	578	146	170	71	0.56	2.23	8.17	2.06	2.40
0	(+32)	716	180	210	79	0.62	2.76	9.11	2.30	2.67

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	213	54	62	34	0.29	0.68	6.34	1.60	1.86
-30	(-22)	284	72	83	40	0.33	0.91	7.17	1.81	2.10
-25	(-13)	369	93	108	45	0.38	1.19	8.12	2.05	2.38
-20	(- 4)	472	119	138	51	0.42	1.52	9.21	2.32	2.70
-15	(+ 5)	596	150	175	57	0.46	1.92	10.45	2.63	3.06
-10	(+14)	745	188	218	63	0.50	2.40	11.87	2.99	3.48
-5	(+23)	921	232	270	68	0.54	2.98	13.48	3.40	3.95
0	(+32)	1129	284	331	74	0.59	3.67	15.32	3.86	4.49

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	181	46	53	35	0.30	0.63	5.22	1.32	1.53
-30	(-22)	245	62	72	42	0.35	0.85	5.87	1.48	1.72
-25	(-13)	321	81	94	49	0.40	1.12	6.59	1.66	1.93
-20	(- 4)	413	104	121	56	0.44	1.44	7.40	1.86	2.17
-15	(+ 5)	525	132	154	63	0.49	1.83	8.31	2.10	2.44
-10	(+14)	659	166	193	70	0.55	2.31	9.36	2.36	2.74
-5	(+23)	819	206	240	78	0.61	2.88	10.56	2.66	3.10
0	(+32)	1009	254	296	85	0.68	3.55	11.93	3.01	3.50

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	151	38	44	35	0.30	0.58	4.30	1.08	1.26
-30	(-22)	206	52	60	43	0.35	0.78	4.82	1.22	1.41
-25	(-13)	272	69	80	51	0.41	1.04	5.37	1.35	1.57
-20	(- 4)	353	89	103	59	0.47	1.35	5.96	1.50	1.75
-15	(+ 5)	451	114	132	68	0.53	1.73	6.61	1.67	1.94
-10	(+14)	570	144	167	78	0.60	2.19	7.34	1.85	2.15
-5	(+23)	714	180	209	87	0.68	2.75	8.18	2.06	2.40
0	(+32)	886	223	259	97	0.77	3.41	9.15	2.31	2.68

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	264	67	77	42	0.36	0.85	6.23	1.57	1.83
-30	(-22)	348	88	102	50	0.41	1.12	7.00	1.76	2.05
-25	(-13)	458	115	134	58	0.47	1.47	7.90	1.99	2.32
-20	(- 4)	593	149	174	66	0.53	1.91	8.94	2.25	2.62
-15	(+ 5)	753	190	221	75	0.59	2.42	10.10	2.55	2.96
-10	(+14)	938	236	275	83	0.65	3.03	11.39	2.87	3.34
-5	(+23)	1147	289	336	89	0.70	3.71	12.81	3.23	3.75
0	(+32)	1381	348	405	95	0.74	4.48	14.36	3.62	4.21

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	229	58	67	44	0.38	0.79	5.18	1.31	1.52
-30	(-22)	301	76	88	52	0.43	1.05	5.80	1.46	1.70
-25	(-13)	398	100	117	61	0.49	1.39	6.50	1.64	1.91
-20	(- 4)	520	131	152	71	0.57	1.81	7.31	1.84	2.14
-15	(+ 5)	665	168	195	81	0.64	2.32	8.20	2.07	2.40
-10	(+14)	835	210	245	91	0.72	2.92	9.17	2.31	2.69
-5	(+23)	1028	259	301	101	0.80	3.61	10.24	2.58	3.00
0	(+32)	1244	313	365	109	0.86	4.38	11.39	2.87	3.34

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	190	48	56	45	0.38	0.72	4.23	1.07	1.24
-30	(-22)	252	63	74	53	0.44	0.96	4.74	1.19	1.39
-25	(-13)	337	85	99	64	0.51	1.28	5.31	1.34	1.56
-20	(- 4)	445	112	130	75	0.59	1.70	5.93	1.49	1.74
-15	(+ 5)	576	145	169	87	0.69	2.20	6.60	1.66	1.93
-10	(+14)	730	184	214	100	0.78	2.80	7.32	1.84	2.14
-5	(+23)	906	228	266	112	0.87	3.49	8.08	2.04	2.37
0	(+32)	1105	278	324	124	0.96	4.27	8.89	2.24	2.60

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	377	95	110	65	0.51	1.21	5.81	1.47	1.70
-30	(-22)	512	129	150	77	0.59	1.64	6.61	1.67	1.94
-25	(-13)	677	171	199	91	0.69	2.17	7.46	1.88	2.18
-20	(- 4)	875	220	256	105	0.80	2.81	8.36	2.11	2.45
-15	(+ 5)	1107	279	324	119	0.91	3.56	9.31	2.35	2.73
-10	(+14)	1378	347	404	134	1.03	4.44	10.32	2.60	3.02
-5	(+23)	1688	425	495	148	1.13	5.46	11.38	2.87	3.33
0	(+32)	2042	515	598	163	1.21	6.63	12.50	3.15	3.66

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	328	83	96	67	0.52	1.14	4.91	1.24	1.44
-30	(-22)	445	112	130	80	0.61	1.55	5.54	1.40	1.62
-25	(-13)	590	149	173	95	0.73	2.05	6.21	1.56	1.82
-20	(- 4)	764	193	224	110	0.85	2.66	6.92	1.74	2.03
-15	(+ 5)	972	245	285	127	0.98	3.39	7.68	1.94	2.25
-10	(+14)	1215	306	356	143	1.11	4.26	8.48	2.14	2.49
-5	(+23)	1497	377	439	161	1.23	5.26	9.33	2.35	2.73
0	(+32)	1819	458	533	178	1.33	6.41	10.23	2.58	3.00

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	276	70	81	68	0.53	1.05	4.09	1.03	1.20
-30	(-22)	377	95	110	82	0.64	1.43	4.59	1.16	1.35
-25	(-13)	502	127	147	98	0.77	1.91	5.13	1.29	1.50
-20	(- 4)	656	165	192	115	0.91	2.50	5.69	1.43	1.67
-15	(+ 5)	840	212	246	133	1.05	3.22	6.29	1.59	1.84
-10	(+14)	1057	266	310	153	1.20	4.06	6.93	1.75	2.03
-5	(+23)	1311	330	384	172	1.33	5.04	7.60	1.91	2.23
0	(+32)	1603	404	470	193	1.45	6.18	8.31	2.09	2.43

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	488	123	143	89	0.68	1.56	5.47	1.38	1.60
-30	(-22)	643	162	188	105	0.80	2.08	6.13	1.54	1.80
-25	(-13)	799	201	234	118	0.89	2.58	6.83	1.72	2.00
-20	(- 4)	993	250	291	131	0.98	3.19	7.63	1.92	2.24
-15	(+ 5)	1263	318	370	147	1.08	4.05	8.56	2.16	2.51
-10	(+14)	1645	414	482	168	1.21	5.29	9.66	2.43	2.83
-5	(+23)	2176	548	638	199	1.40	7.04	10.97	2.76	3.21
0	(+32)	2895	729	848	240	1.67	9.44	12.54	3.16	3.67

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	426	107	125	92	0.72	1.48	4.62	1.16	1.35
-30	(-22)	575	145	168	109	0.85	2.00	5.20	1.31	1.52
-25	(-13)	718	181	210	124	0.96	2.50	5.80	1.46	1.70
-20	(- 4)	892	225	262	139	1.05	3.11	6.46	1.63	1.89
-15	(+ 5)	1136	286	333	157	1.17	3.97	7.22	1.82	2.12
-10	(+14)	1486	374	435	182	1.31	5.20	8.12	2.05	2.38
-5	(+23)	1979	499	580	215	1.51	6.95	9.21	2.32	2.70
0	(+32)	2652	668	777	260	1.77	9.34	10.51	2.65	3.08

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	363	91	106	93	0.72	1.38	3.92	0.99	1.15
-30	(-22)	503	127	148	111	0.87	1.90	4.42	1.11	1.29
-25	(-13)	632	159	185	128	1.00	2.40	4.91	1.24	1.44
-20	(- 4)	787	198	230	146	1.11	3.00	5.43	1.37	1.59
-15	(+ 5)	1003	253	294	168	1.23	3.85	6.02	1.52	1.76
-10	(+14)	1320	333	387	196	1.38	5.08	6.72	1.69	1.97
-5	(+23)	1773	447	519	234	1.58	6.82	7.57	1.91	2.22
0	(+32)	2400	605	703	284	1.85	9.20	8.61	2.17	2.52



### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal VES		
2 Tray holder	Yes		
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	Slanted 63° up + 5° to Front		
3.2 DISCHARGE	4.9 +0.10/-0.05	[mm]	(0.193" +0.004"/-0.002")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 0° 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 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		