

COMPRESSOR DEFINITION

Designation	VES H4C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513908922

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)	-	-	-
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	6.9	[kgf/cm ²] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm ²] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation		[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	205	[ml] (6.93 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	6.5	[kg] (14.33 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

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	CF02D03 M 0.0 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	CF02D03	
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	VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V950RPM			ASHRAELBP32 Static		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]
57	14	17	10	0.09	0.18	5.53	1.39	1.62

TEST CONDITIONS: @220V1300RPM			ASHRAELBP32 Static		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]
87	22	25	14	0.12	0.27	6.08	1.53	1.78

TEST CONDITIONS: @220V1600RPM			ASHRAELBP32 Static		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]
112	28	33	18	0.15	0.35	6.22	1.57	1.82

TEST CONDITIONS: @220V2000RPM			ASHRAELBP32 Static		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]
142	36	42	23	0.18	0.45	6.26	1.58	1.83

TEST CONDITIONS: @220V4500RPM			ASHRAELBP32 Static		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]
334	84	98	55	0.44	1.05	6.05	1.52	1.77

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	37	9	11	7	0.06	0.12	5.36	1.35	1.57	
-30 (-22)	53	13	16	8	0.07	0.17	6.55	1.65	1.92	
-25 (-13)	73	18	21	9	0.07	0.23	7.84	1.98	2.30	
-20 (- 4)	97	25	29	11	0.08	0.31	9.27	2.34	2.72	
-15 (+ 5)	127	32	37	12	0.09	0.40	10.89	2.75	3.19	
-10 (+14)	162	41	47	13	0.10	0.51	12.76	3.21	3.74	
-5 (+23)	203	51	60	14	0.11	0.64	14.90	3.76	4.37	
0 (+32)	252	63	74	14	0.13	0.80	17.39	4.38	5.09	

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	31	8	9	8	0.06	0.10	4.05	1.02	1.19	
-30 (-22)	46	12	13	9	0.07	0.14	5.22	1.32	1.53	
-25 (-13)	64	16	19	10	0.08	0.20	6.38	1.61	1.87	
-20 (- 4)	87	22	26	11	0.09	0.27	7.59	1.91	2.22	
-15 (+ 5)	115	29	34	13	0.10	0.36	8.88	2.24	2.60	
-10 (+14)	149	38	44	14	0.11	0.47	10.31	2.60	3.02	
-5 (+23)	189	48	55	16	0.13	0.60	11.92	3.00	3.49	
0 (+32)	236	59	69	17	0.15	0.75	13.76	3.47	4.03	

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	22	6	7	9	0.07	0.07	2.48	0.63	0.73	
-30 (-22)	36	9	10	10	0.08	0.11	3.76	0.95	1.10	
-25 (-13)	53	13	15	11	0.09	0.16	4.94	1.24	1.45	
-20 (- 4)	74	19	22	12	0.10	0.23	6.05	1.52	1.77	
-15 (+ 5)	100	25	29	14	0.11	0.32	7.14	1.80	2.09	
-10 (+14)	132	33	39	16	0.12	0.42	8.27	2.09	2.42	
-5 (+23)	170	43	50	18	0.14	0.54	9.49	2.39	2.78	
0 (+32)	215	54	63	20	0.16	0.68	10.83	2.73	3.17	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	51	13	15	9	0.08	0.16	5.42	1.37	1.59	
-30 (-22)	75	19	22	11	0.09	0.23	6.68	1.68	1.96	
-25 (-13)	103	26	30	13	0.10	0.32	7.99	2.01	2.34	
-20 (- 4)	137	34	40	15	0.12	0.43	9.41	2.37	2.76	
-15 (+ 5)	177	45	52	16	0.13	0.56	11.02	2.78	3.23	
-10 (+14)	224	57	66	17	0.14	0.71	12.87	3.24	3.77	
-5 (+23)	280	71	82	19	0.15	0.89	15.04	3.79	4.41	
0 (+32)	346	87	101	20	0.16	1.10	17.59	4.43	5.15	

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	42	11	12	10	0.08	0.13	4.23	1.07	1.24	
-30 (-22)	64	16	19	12	0.10	0.20	5.47	1.38	1.60	
-25 (-13)	91	23	27	14	0.11	0.29	6.66	1.68	1.95	
-20 (- 4)	124	31	36	16	0.13	0.39	7.86	1.98	2.30	
-15 (+ 5)	162	41	48	18	0.14	0.51	9.14	2.30	2.68	
-10 (+14)	208	53	61	20	0.16	0.66	10.56	2.66	3.09	
-5 (+23)	263	66	77	22	0.17	0.83	12.20	3.07	3.57	
0 (+32)	326	82	96	23	0.19	1.04	14.11	3.56	4.13	

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	26	7	8	10	0.08	0.08	2.61	0.66	0.76	
-30 (-22)	48	12	14	12	0.10	0.15	4.02	1.01	1.18	
-25 (-13)	75	19	22	14	0.12	0.23	5.27	1.33	1.55	
-20 (- 4)	106	27	31	17	0.14	0.33	6.44	1.62	1.89	
-15 (+ 5)	144	36	42	19	0.15	0.45	7.57	1.91	2.22	
-10 (+14)	189	48	55	22	0.17	0.60	8.75	2.20	2.56	
-5 (+23)	242	61	71	24	0.19	0.77	10.04	2.53	2.94	
0 (+32)	304	77	89	27	0.21	0.97	11.50	2.90	3.37	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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]
-35	(-31)	64	16	19	12	0.09	0.20	5.47	1.38	1.60
-30	(-22)	94	24	28	14	0.11	0.29	6.71	1.69	1.97
-25	(-13)	129	32	38	16	0.13	0.40	8.00	2.02	2.34
-20	(- 4)	170	43	50	18	0.15	0.54	9.40	2.37	2.75
-15	(+ 5)	220	55	64	20	0.16	0.69	10.98	2.77	3.22
-10	(+14)	278	70	81	22	0.18	0.88	12.79	3.22	3.75
-5	(+23)	346	87	101	23	0.19	1.09	14.90	3.75	4.37
0	(+32)	426	107	125	25	0.20	1.35	17.36	4.37	5.09

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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]
-35	(-31)	50	13	15	12	0.10	0.16	4.27	1.08	1.25
-30	(-22)	80	20	23	14	0.12	0.25	5.55	1.40	1.63
-25	(-13)	115	29	34	17	0.14	0.36	6.77	1.71	1.98
-20	(- 4)	155	39	46	19	0.16	0.49	8.00	2.02	2.34
-15	(+ 5)	203	51	60	22	0.18	0.64	9.29	2.34	2.72
-10	(+14)	260	66	76	24	0.19	0.82	10.71	2.70	3.14
-5	(+23)	327	82	96	26	0.21	1.03	12.31	3.10	3.61
0	(+32)	404	102	118	29	0.23	1.28	14.17	3.57	4.15

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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]
-35	(-31)	29	7	9	11	0.09	0.09	2.72	0.69	0.80
-30	(-22)	60	15	17	14	0.12	0.19	4.19	1.06	1.23
-25	(-13)	95	24	28	17	0.14	0.30	5.49	1.38	1.61
-20	(- 4)	135	34	40	20	0.17	0.42	6.69	1.69	1.96
-15	(+ 5)	183	46	54	23	0.19	0.58	7.84	1.98	2.30
-10	(+14)	239	60	70	27	0.22	0.75	9.02	2.27	2.64
-5	(+23)	304	77	89	30	0.24	0.96	10.27	2.59	3.01
0	(+32)	380	96	111	33	0.26	1.21	11.66	2.94	3.42

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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]
-35	(-31)	81	20	24	15	0.12	0.25	5.40	1.36	1.58
-30	(-22)	120	30	35	18	0.15	0.37	6.67	1.68	1.95
-25	(-13)	164	41	48	21	0.17	0.51	7.94	2.00	2.33
-20	(- 4)	216	54	63	23	0.19	0.68	9.30	2.34	2.73
-15	(+ 5)	277	70	81	25	0.21	0.87	10.81	2.73	3.17
-10	(+14)	349	88	102	28	0.22	1.10	12.56	3.17	3.68
-5	(+23)	433	109	127	30	0.24	1.37	14.61	3.68	4.28
0	(+32)	532	134	156	32	0.26	1.69	17.04	4.29	4.99

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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]
-35	(-31)	62	16	18	15	0.12	0.20	4.27	1.08	1.25
-30	(-22)	102	26	30	18	0.15	0.32	5.61	1.41	1.64
-25	(-13)	147	37	43	22	0.17	0.46	6.84	1.72	2.00
-20	(- 4)	198	50	58	25	0.20	0.62	8.04	2.03	2.36
-15	(+ 5)	258	65	76	28	0.22	0.81	9.30	2.34	2.72
-10	(+14)	329	83	96	31	0.24	1.04	10.67	2.69	3.13
-5	(+23)	412	104	121	34	0.27	1.30	12.24	3.09	3.59
0	(+32)	508	128	149	36	0.29	1.61	14.09	3.55	4.13

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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]
-35	(-31)	33	8	10	12	0.10	0.10	2.78	0.70	0.81
-30	(-22)	75	19	22	17	0.14	0.24	4.32	1.09	1.27
-25	(-13)	122	31	36	21	0.18	0.38	5.66	1.43	1.66
-20	(- 4)	174	44	51	25	0.21	0.55	6.86	1.73	2.01
-15	(+ 5)	235	59	69	29	0.24	0.74	8.00	2.02	2.34
-10	(+14)	305	77	89	33	0.27	0.96	9.16	2.31	2.68
-5	(+23)	387	98	113	37	0.30	1.22	10.40	2.62	3.05
0	(+32)	482	121	141	41	0.33	1.53	11.81	2.98	3.46

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	125	32	37	24	0.20	0.39	5.14	1.29	1.50	
-30 (-22)	182	46	53	29	0.24	0.57	6.26	1.58	1.83	
-25 (-13)	247	62	72	33	0.27	0.78	7.41	1.87	2.17	
-20 (- 4)	324	82	95	37	0.30	1.02	8.66	2.18	2.54	
-15 (+ 5)	414	104	121	41	0.33	1.30	10.06	2.53	2.95	
-10 (+14)	521	131	153	44	0.36	1.64	11.69	2.94	3.42	
-5 (+23)	646	163	189	48	0.38	2.04	13.61	3.43	3.99	
0 (+32)	793	200	232	51	0.41	2.51	15.89	4.00	4.66	

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	99	25	29	23	0.19	0.31	4.27	1.07	1.25	
-30 (-22)	158	40	46	29	0.23	0.49	5.47	1.38	1.60	
-25 (-13)	224	57	66	34	0.27	0.70	6.60	1.66	1.94	
-20 (- 4)	301	76	88	39	0.32	0.95	7.73	1.95	2.26	
-15 (+ 5)	391	98	115	44	0.35	1.23	8.91	2.24	2.61	
-10 (+14)	496	125	145	48	0.39	1.56	10.21	2.57	2.99	
-5 (+23)	618	156	181	53	0.43	1.96	11.71	2.95	3.43	
0 (+32)	761	192	223	57	0.46	2.41	13.46	3.39	3.94	

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	55	14	16	18	0.15	0.17	3.01	0.76	0.88	
-30 (-22)	119	30	35	26	0.21	0.37	4.43	1.12	1.30	
-25 (-13)	189	48	56	33	0.27	0.59	5.67	1.43	1.66	
-20 (- 4)	269	68	79	40	0.32	0.84	6.80	1.71	1.99	
-15 (+ 5)	360	91	105	46	0.37	1.13	7.88	1.99	2.31	
-10 (+14)	465	117	136	52	0.42	1.47	8.99	2.26	2.63	
-5 (+23)	587	148	172	58	0.46	1.86	10.19	2.57	2.98	
0 (+32)	728	184	213	63	0.51	2.31	11.54	2.91	3.38	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4000RPM		ASHRAE32 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]
-35	(-31)	171	43	50	34	0.28	0.54	4.98	1.26	1.46
-30	(-22)	241	61	71	40	0.32	0.75	5.94	1.50	1.74
-25	(-13)	324	82	95	46	0.37	1.02	6.99	1.76	2.05
-20	(- 4)	424	107	124	52	0.41	1.33	8.18	2.06	2.40
-15	(+ 5)	544	137	159	57	0.46	1.71	9.54	2.40	2.80
-10	(+14)	687	173	201	62	0.50	2.17	11.12	2.80	3.26
-5	(+23)	855	215	250	66	0.53	2.70	12.95	3.26	3.80
0	(+32)	1051	265	308	70	0.55	3.33	15.09	3.80	4.42

TEST CONDITIONS: @220V4000RPM		ASHRAE32 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]
-35	(-31)	152	38	45	34	0.28	0.48	4.47	1.13	1.31
-30	(-22)	219	55	64	41	0.32	0.69	5.40	1.36	1.58
-25	(-13)	299	75	88	47	0.38	0.94	6.34	1.60	1.86
-20	(- 4)	396	100	116	54	0.43	1.24	7.35	1.85	2.15
-15	(+ 5)	513	129	150	60	0.49	1.61	8.46	2.13	2.48
-10	(+14)	651	164	191	67	0.54	2.06	9.72	2.45	2.85
-5	(+23)	815	205	239	73	0.59	2.58	11.16	2.81	3.27
0	(+32)	1007	254	295	79	0.63	3.19	12.83	3.23	3.76

TEST CONDITIONS: @220V4000RPM		ASHRAE32 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]
-35	(-31)	119	30	35	32	0.26	0.37	3.66	0.92	1.07
-30	(-22)	183	46	54	39	0.32	0.57	4.67	1.18	1.37
-25	(-13)	261	66	76	47	0.37	0.82	5.62	1.42	1.65
-20	(- 4)	355	89	104	54	0.44	1.12	6.56	1.65	1.92
-15	(+ 5)	468	118	137	62	0.50	1.47	7.53	1.90	2.21
-10	(+14)	603	152	177	70	0.57	1.90	8.58	2.16	2.51
-5	(+23)	763	192	224	78	0.63	2.41	9.74	2.45	2.85
0	(+32)	951	240	279	86	0.69	3.01	11.06	2.79	3.24

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard VES		
2 Tray holder	Yes		
3 Connectors			
3.1 SUCTION	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 79° up + 0° back		
3.2 DISCHARGE	5.1 +0.10/+0.00	[mm]	(0.201" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 47° up + 24° to Back		
3.3 PROCESS	6 +0.08/-0.08	[mm]	(0.236" +0.003"/-0.003")
3.3.1 Material	Copper(OD)		
3.3.2 Shape	Slanted 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		