

COMPRESSOR DEFINITION

Designation	VES H7C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513907387

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	-	-
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	1/5	[hp]
2 Displacement	7.23	[cm ³] (0.441 cu.in)
2.1 Bore [mm]	24.000	
2.2 Stroke [mm]	16.000	
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	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

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	CCC - 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]
130	33	38	19	0.18	0.41	6.74	1.70	1.97

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]
181	46	53	25	0.23	0.57	7.13	1.80	2.09

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]
225	57	66	32	0.27	0.71	7.12	1.79	2.09

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]
283	71	83	39	0.31	0.89	7.22	1.82	2.12

TEST CONDITIONS: @220V3000RPM			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]
422	106	124	60	0.48	1.33	7.01	1.77	2.05

TEST CONDITIONS: @220V4000RPM			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]
559	141	164	83	0.69	1.76	6.74	1.70	1.97

D - PERFORMANCE - CHECK POINT DATA

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]	
587	148	172	87	0.68	1.84	6.75	1.70	1.98	

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)	75	19	22	12	0.11	0.24	6.36	1.60	1.86
-30	(-22)	102	26	30	14	0.13	0.32	7.40	1.87	2.17
-25	(-13)	138	35	40	16	0.14	0.43	8.65	2.18	2.53
-20	(- 4)	181	46	53	18	0.15	0.57	10.10	2.54	2.96
-15	(+ 5)	232	58	68	20	0.16	0.73	11.75	2.96	3.44
-10	(+14)	291	73	85	21	0.18	0.92	13.63	3.43	3.99
-5	(+23)	358	90	105	23	0.20	1.13	15.73	3.96	4.61
0	(+32)	433	109	127	23	0.23	1.37	18.06	4.55	5.29

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)	70	18	21	12	0.11	0.22	5.68	1.43	1.66
-30	(-22)	95	24	28	15	0.14	0.30	6.53	1.65	1.91
-25	(-13)	129	33	38	17	0.16	0.41	7.52	1.90	2.20
-20	(- 4)	171	43	50	20	0.17	0.54	8.65	2.18	2.54
-15	(+ 5)	222	56	65	22	0.19	0.70	9.94	2.50	2.91
-10	(+14)	281	71	82	25	0.21	0.89	11.38	2.87	3.33
-5	(+23)	348	88	102	27	0.23	1.10	12.99	3.27	3.81
0	(+32)	424	107	124	29	0.26	1.34	14.76	3.72	4.33

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)	62	16	18	13	0.12	0.19	4.75	1.20	1.39
-30	(-22)	83	21	24	15	0.15	0.26	5.48	1.38	1.61
-25	(-13)	114	29	33	18	0.17	0.36	6.29	1.59	1.84
-20	(- 4)	153	39	45	21	0.19	0.48	7.19	1.81	2.11
-15	(+ 5)	201	51	59	25	0.21	0.63	8.17	2.06	2.40
-10	(+14)	258	65	76	28	0.23	0.81	9.26	2.33	2.71
-5	(+23)	324	82	95	31	0.25	1.03	10.45	2.63	3.06
0	(+32)	399	101	117	34	0.28	1.27	11.75	2.96	3.44

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)	106	27	31	16	0.15	0.33	6.56	1.65	1.92	
-30 (-22)	145	37	42	19	0.16	0.45	7.67	1.93	2.25	
-25 (-13)	192	48	56	22	0.18	0.60	8.85	2.23	2.59	
-20 (- 4)	249	63	73	25	0.20	0.78	10.17	2.56	2.98	
-15 (+ 5)	317	80	93	27	0.22	1.00	11.71	2.95	3.43	
-10 (+14)	397	100	116	30	0.25	1.25	13.52	3.41	3.96	
-5 (+23)	490	123	144	31	0.28	1.55	15.67	3.95	4.59	
0 (+32)	597	150	175	32	0.32	1.89	18.23	4.59	5.34	

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)	100	25	29	17	0.16	0.31	5.91	1.49	1.73	
-30 (-22)	136	34	40	20	0.18	0.43	6.87	1.73	2.01	
-25 (-13)	182	46	53	23	0.20	0.57	7.84	1.97	2.30	
-20 (- 4)	238	60	70	27	0.22	0.75	8.86	2.23	2.60	
-15 (+ 5)	305	77	89	30	0.25	0.96	10.03	2.53	2.94	
-10 (+14)	384	97	113	34	0.28	1.21	11.39	2.87	3.34	
-5 (+23)	477	120	140	37	0.31	1.51	13.01	3.28	3.81	
0 (+32)	584	147	171	39	0.35	1.85	14.97	3.77	4.39	

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)	89	22	26	17	0.16	0.28	5.08	1.28	1.49	
-30 (-22)	121	31	36	21	0.18	0.38	5.96	1.50	1.75	
-25 (-13)	163	41	48	24	0.21	0.51	6.77	1.71	1.98	
-20 (- 4)	215	54	63	29	0.24	0.68	7.56	1.91	2.22	
-15 (+ 5)	279	70	82	33	0.27	0.88	8.42	2.12	2.47	
-10 (+14)	355	89	104	38	0.30	1.12	9.39	2.37	2.75	
-5 (+23)	445	112	130	42	0.34	1.41	10.56	2.66	3.09	
0 (+32)	550	139	161	46	0.38	1.74	11.98	3.02	3.51	

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]	[W/W]
-35 (-31)	133	33	39	20	0.18	0.42	6.63	1.67	1.94	
-30 (-22)	180	45	53	23	0.21	0.56	7.70	1.94	2.26	
-25 (-13)	237	60	70	27	0.23	0.74	8.85	2.23	2.59	
-20 (- 4)	307	77	90	30	0.26	0.96	10.14	2.56	2.97	
-15 (+ 5)	390	98	114	34	0.28	1.23	11.66	2.94	3.42	
-10 (+14)	488	123	143	36	0.31	1.54	13.47	3.39	3.95	
-5 (+23)	604	152	177	39	0.35	1.91	15.65	3.94	4.59	
0 (+32)	739	186	216	40	0.40	2.34	18.29	4.61	5.36	

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]	[W/W]
-35 (-31)	124	31	36	21	0.19	0.39	5.97	1.51	1.75	
-30 (-22)	170	43	50	24	0.22	0.53	6.93	1.75	2.03	
-25 (-13)	226	57	66	29	0.25	0.71	7.88	1.98	2.31	
-20 (- 4)	294	74	86	33	0.28	0.92	8.88	2.24	2.60	
-15 (+ 5)	376	95	110	37	0.31	1.18	10.03	2.53	2.94	
-10 (+14)	473	119	139	42	0.35	1.49	11.39	2.87	3.34	
-5 (+23)	588	148	172	45	0.39	1.86	13.03	3.28	3.82	
0 (+32)	722	182	212	48	0.45	2.29	15.05	3.79	4.41	

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]	[W/W]
-35 (-31)	112	28	33	21	0.19	0.35	5.21	1.31	1.53	
-30 (-22)	153	39	45	25	0.22	0.48	6.11	1.54	1.79	
-25 (-13)	205	52	60	30	0.25	0.64	6.90	1.74	2.02	
-20 (- 4)	268	68	79	35	0.28	0.84	7.68	1.93	2.25	
-15 (+ 5)	345	87	101	41	0.32	1.09	8.50	2.14	2.49	
-10 (+14)	438	110	128	46	0.37	1.38	9.46	2.38	2.77	
-5 (+23)	549	138	161	52	0.43	1.74	10.62	2.68	3.11	
0 (+32)	678	171	199	57	0.50	2.15	12.06	3.04	3.53	

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]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	168	42	49	25	0.22	0.52	6.61	1.67	1.94	
-30 (-22)	225	57	66	29	0.26	0.71	7.63	1.92	2.24	
-25 (-13)	296	75	87	34	0.29	0.93	8.75	2.20	2.56	
-20 (- 4)	382	96	112	38	0.31	1.20	10.03	2.53	2.94	
-15 (+ 5)	486	122	142	42	0.34	1.53	11.55	2.91	3.38	
-10 (+14)	609	154	179	46	0.37	1.92	13.36	3.37	3.92	
-5 (+23)	754	190	221	48	0.41	2.38	15.54	3.92	4.55	
0 (+32)	923	232	270	50	0.46	2.92	18.15	4.57	5.32	

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]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	157	40	46	26	0.23	0.49	6.06	1.53	1.77	
-30 (-22)	213	54	63	31	0.27	0.67	6.95	1.75	2.04	
-25 (-13)	283	71	83	36	0.30	0.89	7.86	1.98	2.30	
-20 (- 4)	368	93	108	41	0.33	1.16	8.85	2.23	2.59	
-15 (+ 5)	470	118	138	47	0.37	1.48	10.00	2.52	2.93	
-10 (+14)	592	149	174	52	0.41	1.87	11.36	2.86	3.33	
-5 (+23)	736	185	216	57	0.47	2.33	13.01	3.28	3.81	
0 (+32)	904	228	265	61	0.54	2.86	15.00	3.78	4.40	

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]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35 (-31)	144	36	42	27	0.23	0.45	5.33	1.34	1.56	
-30 (-22)	194	49	57	32	0.27	0.61	6.15	1.55	1.80	
-25 (-13)	257	65	75	37	0.30	0.81	6.91	1.74	2.03	
-20 (- 4)	336	85	99	44	0.34	1.06	7.68	1.93	2.25	
-15 (+ 5)	433	109	127	51	0.39	1.36	8.51	2.15	2.49	
-10 (+14)	550	138	161	58	0.45	1.73	9.48	2.39	2.78	
-5 (+23)	688	173	202	65	0.52	2.18	10.65	2.69	3.12	
0 (+32)	850	214	249	71	0.61	2.70	12.09	3.05	3.54	

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)	250	63	73	39	0.33	0.78	6.34	1.60	1.86	
-30 (-22)	334	84	98	46	0.37	1.05	7.28	1.83	2.13	
-25 (-13)	440	111	129	53	0.42	1.38	8.35	2.10	2.45	
-20 (- 4)	569	143	167	59	0.47	1.79	9.60	2.42	2.81	
-15 (+ 5)	724	182	212	66	0.52	2.28	11.07	2.79	3.24	
-10 (+14)	908	229	266	71	0.58	2.86	12.83	3.23	3.76	
-5 (+23)	1123	283	329	75	0.63	3.55	14.91	3.76	4.37	
0 (+32)	1372	346	402	77	0.68	4.35	17.36	4.37	5.09	

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)	237	60	69	40	0.33	0.74	5.91	1.49	1.73	
-30 (-22)	318	80	93	47	0.38	1.00	6.72	1.69	1.97	
-25 (-13)	420	106	123	55	0.44	1.32	7.59	1.91	2.23	
-20 (- 4)	547	138	160	63	0.50	1.72	8.57	2.16	2.51	
-15 (+ 5)	701	177	205	72	0.57	2.21	9.71	2.45	2.85	
-10 (+14)	884	223	259	80	0.63	2.79	11.05	2.79	3.24	
-5 (+23)	1099	277	322	87	0.70	3.47	12.65	3.19	3.71	
0 (+32)	1348	340	395	93	0.76	4.27	14.56	3.67	4.27	

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)	218	55	64	41	0.32	0.68	5.30	1.34	1.55	
-30 (-22)	289	73	85	48	0.39	0.91	6.03	1.52	1.77	
-25 (-13)	383	96	112	57	0.46	1.20	6.75	1.70	1.98	
-20 (- 4)	501	126	147	67	0.53	1.58	7.51	1.89	2.20	
-15 (+ 5)	647	163	190	77	0.61	2.04	8.36	2.11	2.45	
-10 (+14)	822	207	241	88	0.69	2.60	9.34	2.35	2.74	
-5 (+23)	1030	260	302	98	0.76	3.26	10.50	2.65	3.08	
0 (+32)	1273	321	373	107	0.83	4.04	11.90	3.00	3.49	

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)	325	82	95	56	0.46	1.02	5.77	1.45	1.69
-30	(-22)	437	110	128	65	0.53	1.37	6.68	1.68	1.96
-25	(-13)	575	145	169	75	0.60	1.80	7.68	1.93	2.25
-20	(- 4)	744	187	218	84	0.67	2.34	8.83	2.22	2.59
-15	(+ 5)	947	239	277	93	0.73	2.98	10.18	2.57	2.98
-10	(+14)	1188	299	348	101	0.79	3.75	11.80	2.97	3.46
-5	(+23)	1470	370	431	107	0.86	4.65	13.74	3.46	4.03
0	(+32)	1798	453	527	110	0.94	5.70	16.06	4.05	4.70

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)	308	78	90	57	0.46	0.96	5.46	1.38	1.60
-30	(-22)	416	105	122	66	0.55	1.30	6.29	1.58	1.84
-25	(-13)	552	139	162	77	0.63	1.73	7.13	1.80	2.09
-20	(- 4)	719	181	211	89	0.71	2.26	8.05	2.03	2.36
-15	(+ 5)	921	232	270	101	0.78	2.90	9.11	2.30	2.67
-10	(+14)	1161	293	340	112	0.86	3.66	10.36	2.61	3.04
-5	(+23)	1444	364	423	122	0.94	4.57	11.87	2.99	3.48
0	(+32)	1773	447	519	130	1.02	5.62	13.69	3.45	4.01

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)	286	72	84	57	0.45	0.90	5.01	1.26	1.47
-30	(-22)	382	96	112	67	0.55	1.20	5.77	1.45	1.69
-25	(-13)	506	127	148	79	0.65	1.59	6.48	1.63	1.90
-20	(- 4)	662	167	194	92	0.74	2.08	7.20	1.81	2.11
-15	(+ 5)	853	215	250	107	0.83	2.69	7.99	2.01	2.34
-10	(+14)	1084	273	318	121	0.92	3.42	8.90	2.24	2.61
-5	(+23)	1358	342	398	136	1.01	4.29	10.00	2.52	2.93
0	(+32)	1679	423	492	149	1.11	5.32	11.34	2.86	3.32

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard VES		
2 Tray holder	No		
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 45° up + 15° to 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		