COMPRESSOR DEFINITION

Designation	**VEX C9C**
Nominal Voltage/Frequency	**230 V 43-150 Hz**
Engineering Number	**513908308**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	230 / 43-150	[V / Hz]	
4 Application type	Low-Medium Back Pressure		
4.1 Evaporating temperature range	-35°C to -5°C	(-31°F to 23°F)	
5 Motor type	BPM		
6 Starting torque	LST - Low Starting Torque		
7 Expantion device	Capillary tube		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32ºC Ambient temperature)	Static	187 to 255 V	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm²] (98 psig)	/ ºC - ºF
9.2 Peak	7.8	[kgf/cm²] (111 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/7	[hp]
2 Displacement	8.74	[cm³] (0.533 cu.in)
2.1 Bore [mm]	22.500	
2.2 Stroke [mm]	22.000	
3 Lubricant charge	150	[ml] (5.07 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	4.8	[kg] (10.58 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230V 43-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	VES 2456 XX X X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	INVERTER VES 2456X	
6 Start winding resistance	20.00	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	20.00	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (43 /134 Hz)	1.70	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (43 /134 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (43 /134 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V1300RPM			**Static**			(Condensing temperature		**54.4°C (129.92°F))**
Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP		
+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
224	56	66	36	0.29	0.70	6.17	1.55	1.81

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V2000RPM			**Static**			(Condensing temperature		**54.4°C (129.92°F))**
Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP		
+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
351	88	103	56	0.41	1.10	6.32	1.59	1.85

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V3000RPM			**Static**			(Condensing temperature		**54.4°C (129.92°F))**
Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP		
+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
527	133	154	84	0.61	1.65	6.31	1.59	1.85

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V4300RPM			**Static**			(Condensing temperature		**54.4°C (129.92°F))**
Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP		
+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
713	180	209	122	0.95	2.24	5.84	1.47	1.71

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V4500RPM			**Static**			(Condensing temperature		**54.4°C (129.92°F))**
Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP		
+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
728	183	213	125	0.96	2.29	5.82	1.47	1.71

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V1300RPM **Static**

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]
-35	**(-31)**	118	30	35	21	0.21	0.37	5.86	1.48	1.72
-30	**(-22)**	204	51	60	25	0.23	0.64	7.64	1.92	2.24
-25	**(-13)**	257	65	75	29	0.25	0.81	8.47	2.13	2.48
-20	**(- 4)**	301	76	88	33	0.27	0.95	8.92	2.25	2.61
-15	**(+ 5)**	357	90	105	37	0.29	1.12	9.57	2.41	2.80
-10	**(+14)**	448	113	131	41	0.31	1.41	10.98	2.77	3.22
-5	**(+23)**	597	150	175	44	0.33	1.89	13.71	3.46	4.02

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V1300RPM **Static**

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]
-35	**(-31)**	111	28	32	22	0.21	0.35	4.87	1.23	1.43
-30	**(-22)**	185	47	54	27	0.23	0.58	6.60	1.66	1.93
-25	**(-13)**	231	58	68	32	0.26	0.73	7.32	1.85	2.15
-20	**(- 4)**	272	69	80	37	0.30	0.85	7.60	1.91	2.23
-15	**(+ 5)**	330	83	97	42	0.33	1.04	8.00	2.01	2.34
-10	**(+14)**	427	108	125	47	0.36	1.35	9.08	2.29	2.66
-5	**(+23)**	586	148	172	51	0.40	1.85	11.43	2.88	3.35

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V1300RPM **Static**

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]
-35	**(-31)**	42	11	12	22	0.20	0.13	1.70	0.43	0.50
-30	**(-22)**	107	27	31	27	0.23	0.33	3.70	0.93	1.08
-25	**(-13)**	148	37	43	33	0.27	0.46	4.62	1.16	1.35
-20	**(- 4)**	187	47	55	40	0.31	0.59	5.02	1.26	1.47
-15	**(+ 5)**	248	62	73	46	0.35	0.78	5.47	1.38	1.60
-10	**(+14)**	352	89	103	53	0.39	1.11	6.55	1.65	1.92
-5	**(+23)**	523	132	153	59	0.44	1.65	8.81	2.22	2.58

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V1600RPM **Static**

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]
-35	**(-31)**	144	36	42	26	0.23	0.45	5.75	1.45	1.68
-30	**(-22)**	247	62	72	31	0.26	0.77	7.52	1.89	2.20
-25	**(-13)**	317	80	93	36	0.29	0.99	8.51	2.15	2.49
-20	**(- 4)**	377	95	110	41	0.32	1.18	9.17	2.31	2.69
-15	**(+ 5)**	450	113	132	46	0.36	1.42	9.91	2.50	2.90
-10	**(+14)**	560	141	164	51	0.39	1.77	11.16	2.81	3.27
-5	**(+23)**	730	184	214	55	0.41	2.31	13.37	3.37	3.92

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V1600RPM **Static**

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]
-35	**(-31)**	150	38	44	27	0.24	0.47	5.40	1.36	1.58
-30	**(-22)**	225	57	66	33	0.27	0.71	6.55	1.65	1.92
-25	**(-13)**	278	70	81	39	0.31	0.87	7.09	1.79	2.08
-20	**(- 4)**	331	84	97	45	0.36	1.04	7.43	1.87	2.18
-15	**(+ 5)**	409	103	120	51	0.40	1.29	8.01	2.02	2.35
-10	**(+14)**	533	134	156	57	0.45	1.68	9.26	2.33	2.71
-5	**(+23)**	728	183	213	63	0.49	2.30	11.60	2.92	3.40

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V1600RPM **Static**

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]
-35	**(-31)**	136	34	40	27	0.24	0.42	4.75	1.20	1.39
-30	**(-22)**	173	43	51	34	0.28	0.54	5.19	1.31	1.52
-25	**(-13)**	197	50	58	41	0.32	0.62	5.16	1.30	1.51
-20	**(- 4)**	233	59	68	48	0.37	0.73	5.09	1.28	1.49
-15	**(+ 5)**	303	76	89	56	0.42	0.95	5.40	1.36	1.58
-10	**(+14)**	430	108	126	64	0.47	1.36	6.53	1.65	1.91
-5	**(+23)**	639	161	187	71	0.52	2.02	8.91	2.25	2.61

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V2000RPM **Static**

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]
-35	**(-31)**	199	50	58	34	0.27	0.62	5.93	1.50	1.74
-30	**(-22)**	265	67	78	39	0.31	0.83	6.88	1.73	2.02
-25	**(-13)**	351	88	103	44	0.34	1.10	7.91	1.99	2.32
-20	**(- 4)**	458	116	134	51	0.38	1.44	9.02	2.27	2.64
-15	**(+ 5)**	588	148	172	57	0.42	1.85	10.24	2.58	3.00
-10	**(+14)**	739	186	217	64	0.46	2.33	11.59	2.92	3.40
-5	**(+23)**	914	230	268	70	0.50	2.89	13.08	3.30	3.83

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V2000RPM **Static**

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]
-35	**(-31)**	179	45	53	35	0.27	0.56	5.19	1.31	1.52
-30	**(-22)**	245	62	72	41	0.31	0.77	6.01	1.51	1.76
-25	**(-13)**	330	83	97	48	0.36	1.04	6.87	1.73	2.01
-20	**(- 4)**	435	110	128	56	0.41	1.37	7.77	1.96	2.28
-15	**(+ 5)**	560	141	164	64	0.46	1.76	8.75	2.21	2.56
-10	**(+14)**	706	178	207	72	0.52	2.23	9.82	2.47	2.88
-5	**(+23)**	873	220	256	80	0.58	2.76	10.99	2.77	3.22

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V2000RPM **Static**

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]
-35	**(-31)**	160	40	47	35	0.28	0.50	4.60	1.16	1.35
-30	**(-22)**	226	57	66	42	0.33	0.71	5.35	1.35	1.57
-25	**(-13)**	309	78	90	51	0.38	0.97	6.10	1.54	1.79
-20	**(- 4)**	410	103	120	60	0.43	1.29	6.87	1.73	2.01
-15	**(+ 5)**	530	134	155	69	0.49	1.67	7.67	1.93	2.25
-10	**(+14)**	669	169	196	79	0.57	2.11	8.51	2.15	2.49
-5	**(+23)**	827	208	242	88	0.65	2.62	9.43	2.38	2.76

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V3000RPM **Static**

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]
-35	**(-31)**	303	76	89	52	0.39	0.95	5.77	1.45	1.69
-30	**(-22)**	410	103	120	62	0.45	1.29	6.64	1.67	1.95
-25	**(-13)**	540	136	158	71	0.51	1.69	7.57	1.91	2.22
-20	**(- 4)**	695	175	204	81	0.59	2.18	8.57	2.16	2.51
-15	**(+ 5)**	878	221	257	91	0.67	2.76	9.66	2.43	2.83
-10	**(+14)**	1092	275	320	101	0.75	3.44	10.84	2.73	3.18
-5	**(+23)**	1339	338	393	110	0.82	4.23	12.14	3.06	3.56

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V3000RPM **Static**

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]
-35	**(-31)**	275	69	81	53	0.40	0.86	5.21	1.31	1.53
-30	**(-22)**	384	97	112	64	0.46	1.20	5.98	1.51	1.75
-25	**(-13)**	514	129	151	76	0.55	1.61	6.78	1.71	1.99
-20	**(- 4)**	668	168	196	88	0.64	2.10	7.61	1.92	2.23
-15	**(+ 5)**	850	214	249	100	0.75	2.67	8.48	2.14	2.49
-10	**(+14)**	1061	267	311	113	0.85	3.35	9.42	2.37	2.76
-5	**(+23)**	1304	329	382	125	0.95	4.12	10.43	2.63	3.06

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V3000RPM **Static**

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]
-35	**(-31)**	237	60	69	52	0.39	0.74	4.55	1.15	1.33
-30	**(-22)**	346	87	101	65	0.47	1.08	5.32	1.34	1.56
-25	**(-13)**	475	120	139	78	0.57	1.49	6.07	1.53	1.78
-20	**(- 4)**	628	158	184	92	0.68	1.97	6.81	1.72	2.00
-15	**(+ 5)**	807	203	236	107	0.81	2.54	7.57	1.91	2.22
-10	**(+14)**	1014	256	297	122	0.93	3.20	8.34	2.10	2.44
-5	**(+23)**	1253	316	367	137	1.06	3.96	9.14	2.30	2.68

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V4000RPM **Static**

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]
-35	**(-31)**	402	101	118	73	0.54	1.26	5.46	1.38	1.60
-30	**(-22)**	532	134	156	86	0.63	1.67	6.19	1.56	1.81
-25	**(-13)**	694	175	203	100	0.74	2.18	6.95	1.75	2.04
-20	**(- 4)**	891	225	261	115	0.86	2.80	7.77	1.96	2.28
-15	**(+ 5)**	1126	284	330	130	0.98	3.54	8.68	2.19	2.54
-10	**(+14)**	1401	353	411	144	1.11	4.42	9.71	2.45	2.85
-5	**(+23)**	1719	433	504	158	1.22	5.43	10.90	2.75	3.19

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V4000RPM **Static**

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]
-35	**(-31)**	362	91	106	73	0.54	1.13	4.96	1.25	1.45
-30	**(-22)**	495	125	145	87	0.64	1.55	5.67	1.43	1.66
-25	**(-13)**	659	166	193	104	0.77	2.07	6.37	1.60	1.87
-20	**(- 4)**	855	216	251	121	0.91	2.69	7.08	1.78	2.08
-15	**(+ 5)**	1087	274	319	138	1.06	3.42	7.84	1.98	2.30
-10	**(+14)**	1357	342	398	156	1.22	4.28	8.69	2.19	2.54
-5	**(+23)**	1667	420	488	173	1.38	5.27	9.63	2.43	2.82

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V4000RPM **Static**

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]
-35	**(-31)**	313	79	92	71	0.53	0.98	4.40	1.11	1.29
-30	**(-22)**	449	113	131	87	0.64	1.41	5.14	1.30	1.51
-25	**(-13)**	612	154	179	105	0.78	1.92	5.83	1.47	1.71
-20	**(- 4)**	806	203	236	124	0.94	2.53	6.49	1.63	1.90
-15	**(+ 5)**	1034	261	303	145	1.12	3.25	7.15	1.80	2.09
-10	**(+14)**	1297	327	380	165	1.31	4.09	7.85	1.98	2.30
-5	**(+23)**	1598	403	468	186	1.50	5.05	8.61	2.17	2.52

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@220V4500RPM **Static**

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]
-35	**(-31)**	440	111	129	83	0.59	1.38	5.33	1.34	1.56
-30	**(-22)**	580	146	170	96	0.71	1.82	6.05	1.53	1.77
-25	**(-13)**	759	191	222	112	0.85	2.38	6.78	1.71	1.99
-20	**(- 4)**	976	246	286	130	1.01	3.07	7.53	1.90	2.21
-15	**(+ 5)**	1232	310	361	148	1.17	3.88	8.32	2.10	2.44
-10	**(+14)**	1526	385	447	167	1.32	4.81	9.17	2.31	2.69
-5	**(+23)**	1858	468	545	184	1.46	5.87	10.09	2.54	2.96

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@220V4500RPM **Static**

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]
-35	**(-31)**	394	99	115	82	0.59	1.23	4.80	1.21	1.41
-30	**(-22)**	537	135	157	98	0.72	1.68	5.48	1.38	1.61
-25	**(-13)**	716	180	210	116	0.87	2.25	6.16	1.55	1.81
-20	**(- 4)**	932	235	273	136	1.04	2.93	6.86	1.73	2.01
-15	**(+ 5)**	1183	298	347	156	1.21	3.72	7.58	1.91	2.22
-10	**(+14)**	1471	371	431	176	1.38	4.64	8.36	2.11	2.45
-5	**(+23)**	1794	452	526	195	1.54	5.67	9.20	2.32	2.70

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@220V4500RPM **Static**

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]
-35	**(-31)**	342	86	100	78	0.58	1.07	4.37	1.10	1.28
-30	**(-22)**	485	122	142	97	0.72	1.52	4.99	1.26	1.46
-25	**(-13)**	662	167	194	118	0.89	2.08	5.61	1.41	1.64
-20	**(- 4)**	873	220	256	140	1.08	2.74	6.24	1.57	1.83
-15	**(+ 5)**	1117	282	327	162	1.27	3.52	6.89	1.74	2.02
-10	**(+14)**	1395	352	409	184	1.46	4.40	7.59	1.91	2.22
-5	**(+23)**	1707	430	500	204	1.63	5.40	8.35	2.10	2.45

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard FMX		
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 + 45° 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	Slanted65°up + 0° to Back		
3.3 PROCESS	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 63° up + 0° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		