

COMPRESSOR DEFINITION

Designation	VNE X419U
Nominal Voltage/Frequency	208-240 V 50-60 Hz
Engineering Number	866CX26

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	208-240 / 50-60	[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	HST - Hight 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)	-	-	-
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	18.4	[kgf/cm ²] (262 psig)	/ °C - °F
9.2 Peak	20.6	[kgf/cm ²] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1 1/2	[hp]
2 Displacement	18.70	[cm ³] (1.141 cu.in)
2.1 Bore [mm]	32.186	
2.2 Stroke [mm]	23.000	
3 Lubricant charge	400	[ml] (13.53 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	11.3	[kg] (24.91 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-240 V 50-60 Hz 1~ (Single phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF20A01 P 0.0 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	USP-102-83	
6 Start winding resistance	1.94	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.94	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (110/250 Hz)	4.60	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (110/250 Hz)	4.60	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (110/250 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - UL - VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V2200RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
2274	573	666	388	1.83	6.77	5.86	1.48	1.72

TEST CONDITIONS: @220V3000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
3205	808	939	539	2.45	9.54	5.95	1.50	1.74

TEST CONDITIONS: @220V3600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
3851	970	1128	657	2.95	11.46	5.86	1.48	1.72

TEST CONDITIONS: @220V4500RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
4642	1170	1360	824	3.65	13.82	5.63	1.42	1.65

TEST CONDITIONS: @220V5000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
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]
5024	1266	1472	919	4.06	14.95	5.47	1.38	1.60

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2200RPM		ASHRAE32 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]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	1087	274	319	211	1.08	3.21	5.16	1.30	1.51
-35	(-31)	1468	370	430	252	1.26	4.34	5.80	1.46	1.70
-30	(-22)	1922	484	563	294	1.44	5.70	6.50	1.64	1.91
-25	(-13)	2461	620	721	336	1.62	7.32	7.31	1.84	2.14
-20	(- 4)	3094	780	907	374	1.79	9.23	8.27	2.08	2.42
-15	(+ 5)	3829	965	1122	408	1.93	11.47	9.44	2.38	2.77
-10	(+14)	4677	1179	1371	434	2.04	14.08	10.85	2.73	3.18
-5	(+23)	5647	1423	1655	452	2.11	17.08	12.57	3.17	3.68
0	(+32)	6749	1701	1978	459	2.14	20.52	14.63	3.69	4.29

TEST CONDITIONS: @220V2200RPM		ASHRAE32 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]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	974	246	285	213	1.09	2.88	4.60	1.16	1.35
-35	(-31)	1337	337	392	256	1.26	3.96	5.23	1.32	1.53
-30	(-22)	1775	447	520	302	1.45	5.26	5.86	1.48	1.72
-25	(-13)	2296	579	673	350	1.65	6.83	6.52	1.64	1.91
-20	(- 4)	2911	734	853	397	1.85	8.69	7.27	1.83	2.13
-15	(+ 5)	3630	915	1064	442	2.04	10.87	8.16	2.06	2.39
-10	(+14)	4461	1124	1307	482	2.21	13.42	9.22	2.32	2.70
-5	(+23)	5414	1364	1586	515	2.34	16.37	10.51	2.65	3.08
0	(+32)	6499	1638	1904	540	2.44	19.76	12.08	3.04	3.54

TEST CONDITIONS: @220V2200RPM		ASHRAE32 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]	[Btu/Wh]	[kcal/Wh]
-40	(-40)	870	219	255	222	1.17	2.57	3.87	0.98	1.13
-35	(-31)	1212	305	355	264	1.32	3.59	4.62	1.16	1.35
-30	(-22)	1628	410	477	312	1.51	4.83	5.28	1.33	1.55
-25	(-13)	2128	536	624	363	1.72	6.33	5.91	1.49	1.73
-20	(- 4)	2722	686	798	417	1.94	8.12	6.56	1.65	1.92
-15	(+ 5)	3419	862	1002	470	2.16	10.24	7.27	1.83	2.13
-10	(+14)	4229	1066	1239	521	2.37	12.72	8.08	2.04	2.37
-5	(+23)	5162	1301	1512	568	2.57	15.61	9.06	2.28	2.66
0	(+32)	6226	1569	1824	608	2.73	18.92	10.25	2.58	3.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1500	378	440	296	1.43	4.43	5.07	1.28	1.49	
-35 (-31)	2008	506	589	353	1.67	5.94	5.67	1.43	1.66	
-30 (-22)	2617	659	767	412	1.92	7.76	6.33	1.59	1.85	
-25 (-13)	3337	841	978	470	2.17	9.92	7.08	1.78	2.08	
-20 (- 4)	4183	1054	1226	524	2.40	12.48	7.98	2.01	2.34	
-15 (+ 5)	5167	1302	1514	572	2.60	15.48	9.08	2.29	2.66	
-10 (+14)	6301	1588	1846	610	2.76	18.97	10.41	2.62	3.05	
-5 (+23)	7600	1915	2227	635	2.86	22.99	12.03	3.03	3.53	
0 (+32)	9074	2287	2659	645	2.90	27.59	13.98	3.52	4.10	

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1368	345	401	301	1.44	4.04	4.58	1.15	1.34	
-35 (-31)	1855	467	543	359	1.68	5.49	5.18	1.31	1.52	
-30 (-22)	2441	615	715	423	1.94	7.24	5.77	1.45	1.69	
-25 (-13)	3141	791	920	489	2.22	9.34	6.39	1.61	1.87	
-20 (- 4)	3966	999	1162	555	2.49	11.83	7.09	1.79	2.08	
-15 (+ 5)	4930	1242	1445	618	2.75	14.77	7.93	2.00	2.32	
-10 (+14)	6045	1523	1771	674	2.98	18.19	8.93	2.25	2.62	
-5 (+23)	7324	1846	2146	721	3.18	22.15	10.16	2.56	2.98	
0 (+32)	8780	2213	2573	756	3.32	26.69	11.65	2.94	3.41	

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1252	316	367	315	1.55	3.70	3.94	0.99	1.15	
-35 (-31)	1711	431	501	371	1.77	5.06	4.63	1.17	1.36	
-30 (-22)	2270	572	665	437	2.03	6.73	5.25	1.32	1.54	
-25 (-13)	2943	742	862	508	2.31	8.75	5.84	1.47	1.71	
-20 (- 4)	3742	943	1097	582	2.61	11.16	6.45	1.62	1.89	
-15 (+ 5)	4681	1180	1372	657	2.92	14.02	7.12	1.79	2.09	
-10 (+14)	5771	1454	1691	728	3.21	17.36	7.90	1.99	2.31	
-5 (+23)	7025	1770	2059	793	3.48	21.24	8.83	2.23	2.59	
0 (+32)	8457	2131	2478	849	3.70	25.71	9.97	2.51	2.92	

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1791	451	525	360	1.69	5.29	4.98	1.25	1.46	
-35 (-31)	2386	601	699	429	1.98	7.06	5.54	1.40	1.62	
-30 (-22)	3098	781	908	502	2.29	9.19	6.15	1.55	1.80	
-25 (-13)	3943	994	1155	573	2.59	11.72	6.86	1.73	2.01	
-20 (- 4)	4934	1243	1446	640	2.87	14.72	7.71	1.94	2.26	
-15 (+ 5)	6087	1534	1784	699	3.12	18.24	8.74	2.20	2.56	
-10 (+14)	7416	1869	2173	747	3.32	22.32	10.01	2.52	2.93	
-5 (+23)	8938	2252	2619	779	3.45	27.04	11.55	2.91	3.38	
0 (+32)	10666	2688	3125	791	3.50	32.43	13.41	3.38	3.93	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1654	417	485	367	1.71	4.88	4.54	1.14	1.33	
-35 (-31)	2224	560	652	437	2.00	6.58	5.10	1.28	1.49	
-30 (-22)	2912	734	853	515	2.31	8.64	5.65	1.42	1.66	
-25 (-13)	3733	941	1094	596	2.65	11.10	6.24	1.57	1.83	
-20 (- 4)	4702	1185	1378	677	2.98	14.03	6.90	1.74	2.02	
-15 (+ 5)	5834	1470	1709	754	3.30	17.47	7.69	1.94	2.25	
-10 (+14)	7143	1800	2093	823	3.59	21.50	8.65	2.18	2.53	
-5 (+23)	8646	2179	2533	881	3.83	26.15	9.81	2.47	2.88	
0 (+32)	10356	2610	3035	924	4.00	31.48	11.24	2.83	3.29	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1537	387	450	386	1.83	4.54	3.94	0.99	1.16	
-35 (-31)	2076	523	608	453	2.09	6.14	4.61	1.16	1.35	
-30 (-22)	2733	689	801	532	2.40	8.10	5.19	1.31	1.52	
-25 (-13)	3525	888	1033	618	2.75	10.48	5.75	1.45	1.69	
-20 (- 4)	4465	1125	1308	708	3.12	13.32	6.33	1.59	1.85	
-15 (+ 5)	5569	1403	1632	799	3.50	16.68	6.96	1.75	2.04	
-10 (+14)	6851	1727	2008	886	3.86	20.61	7.70	1.94	2.26	
-5 (+23)	8328	2099	2440	966	4.19	25.18	8.60	2.17	2.52	
0 (+32)	10013	2523	2934	1035	4.47	30.43	9.68	2.44	2.84	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	2174	548	637	456	2.09	6.42	4.77	1.20	1.40
-35	(-31)	2878	725	843	545	2.48	8.52	5.27	1.33	1.54
-30	(-22)	3722	938	1091	638	2.88	11.04	5.81	1.46	1.70
-25	(-13)	4723	1190	1384	731	3.28	14.05	6.44	1.62	1.89
-20	(- 4)	5898	1486	1728	819	3.65	17.60	7.20	1.82	2.11
-15	(+ 5)	7266	1831	2129	896	3.99	21.77	8.14	2.05	2.38
-10	(+14)	8844	2229	2592	959	4.25	26.62	9.28	2.34	2.72
-5	(+23)	10650	2684	3121	1002	4.44	32.21	10.68	2.69	3.13
0	(+32)	12701	3201	3722	1021	4.51	38.62	12.38	3.12	3.63

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	2041	514	598	464	2.11	6.02	4.42	1.11	1.29
-35	(-31)	2717	685	796	553	2.48	8.04	4.92	1.24	1.44
-30	(-22)	3534	890	1035	652	2.90	10.48	5.42	1.36	1.59
-25	(-13)	4510	1136	1321	756	3.33	13.41	5.94	1.50	1.74
-20	(- 4)	5662	1427	1659	860	3.77	16.89	6.54	1.65	1.92
-15	(+ 5)	7009	1766	2054	960	4.19	21.00	7.26	1.83	2.13
-10	(+14)	8568	2159	2511	1050	4.57	25.78	8.13	2.05	2.38
-5	(+23)	10357	2610	3035	1126	4.90	31.32	9.20	2.32	2.70
0	(+32)	12393	3123	3632	1183	5.14	37.67	10.51	2.65	3.08

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	1939	489	568	490	2.25	5.72	3.92	0.99	1.15
-35	(-31)	2578	650	755	573	2.59	7.63	4.52	1.14	1.32
-30	(-22)	3359	847	984	672	3.00	9.96	5.05	1.27	1.48
-25	(-13)	4302	1084	1261	781	3.45	12.79	5.55	1.40	1.63
-20	(- 4)	5424	1367	1589	896	3.93	16.18	6.07	1.53	1.78
-15	(+ 5)	6741	1699	1975	1013	4.42	20.19	6.65	1.68	1.95
-10	(+14)	8273	2085	2424	1125	4.90	24.89	7.33	1.85	2.15
-5	(+23)	10036	2529	2941	1228	5.34	30.35	8.15	2.05	2.39
0	(+32)	12049	3036	3531	1318	5.72	36.62	9.15	2.31	2.68

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V5000RPM		ASHRAE32 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)	2346	591	688	508	2.33	6.93	4.62	1.17	1.35
-35	(-31)	3099	781	908	608	2.77	9.17	5.08	1.28	1.49
-30	(-22)	4000	1008	1172	714	3.23	11.86	5.58	1.41	1.64
-25	(-13)	5069	1277	1485	819	3.69	15.07	6.17	1.55	1.81
-20	(- 4)	6326	1594	1854	920	4.13	18.87	6.88	1.73	2.02
-15	(+ 5)	7788	1963	2282	1009	4.52	23.33	7.75	1.95	2.27
-10	(+14)	9475	2388	2776	1081	4.84	28.52	8.82	2.22	2.58
-5	(+23)	11406	2874	3342	1131	5.06	34.50	10.14	2.55	2.97
0	(+32)	13599	3427	3985	1154	5.15	41.35	11.73	2.96	3.44

TEST CONDITIONS: @220V5000RPM		ASHRAE32 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)	2223	560	651	516	2.34	6.56	4.33	1.09	1.27
-35	(-31)	2945	742	863	615	2.76	8.71	4.80	1.21	1.41
-30	(-22)	3818	962	1119	726	3.23	11.32	5.25	1.32	1.54
-25	(-13)	4862	1225	1425	843	3.74	14.46	5.74	1.45	1.68
-20	(- 4)	6096	1536	1786	962	4.25	18.19	6.30	1.59	1.85
-15	(+ 5)	7539	1900	2209	1075	4.74	22.58	6.97	1.76	2.04
-10	(+14)	9209	2321	2698	1178	5.18	27.71	7.79	1.96	2.28
-5	(+23)	11125	2803	3260	1265	5.56	33.64	8.79	2.22	2.58
0	(+32)	13307	3353	3899	1331	5.84	40.45	10.03	2.53	2.94

TEST CONDITIONS: @220V5000RPM		ASHRAE32 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)	2136	538	626	546	2.50	6.30	3.88	0.98	1.14
-35	(-31)	2818	710	826	637	2.88	8.34	4.44	1.12	1.30
-30	(-22)	3655	921	1071	746	3.34	10.84	4.94	1.24	1.45
-25	(-13)	4665	1176	1367	869	3.86	13.87	5.41	1.36	1.58
-20	(- 4)	5867	1478	1719	998	4.42	17.50	5.89	1.49	1.73
-15	(+ 5)	7280	1835	2133	1129	4.98	21.80	6.44	1.62	1.89
-10	(+14)	8924	2249	2615	1257	5.53	26.85	7.08	1.78	2.07
-5	(+23)	10816	2726	3169	1374	6.04	32.70	7.85	1.98	2.30
0	(+32)	12976	3270	3802	1476	6.48	39.44	8.80	2.22	2.58

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.1 +0.10/+0.00	[mm]	(0.319" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 42°		
3.2 DISCHARGE	6.45 +0.10/+0.00	[mm]	(0.254" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted parallel to Base Plate		
3.3 PROCESS	6.45 +0.10/+0.00	[mm]	(0.254" +0.004"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 42°		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		