COMPRESSOR DEFINITION

Designation	**EM C26CLT**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**710EA96**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Low Back Pressure		
4.1 Evaporating temperature range	-35°C to -10°C	(-31°F to 14°F)	
5 Motor type	RSCR		
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)	Static	187 to 255 V	-
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		[hp]
2 Displacement	5.19	[cm³] (0.317 cu.in)
2.1 Bore [mm]	21.000	
2.2 Stroke [mm]	15.000	
3 Lubricant charge	150	[ml] (5.07 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO2	
4 Weight (with oil charge)	7.1	[kg] (15.65 lb.)
5 Nitrogen charge	-	[kgf/cm²]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	TSD	
2.1 Starting device	TY-QZ003	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	2(350)/2.5(350)/3(350)/4(350)	[µF(VAC minimum)]
5 Motor protection	4TM134KDBYY	
6 Start winding resistance	27.40	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	52.20	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	2.10	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: **@220V50Hz**			**CECOMAFLBP-NOFAN** **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]
206	52	60	44	0.22	0.79	4.74	1.19	1.39

E - PERFORMANCE - CURVES

TEST CONDITIONS: **CECOMAF-NOFAN** (Condensing temperature **35ºC (+95ºF))**
@220V50Hz **Static**

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)**	154	39	45	26	0.12	0.49	5.81	1.46	1.70
-30	**(-22)**	222	56	65	33	0.14	0.71	6.66	1.68	1.95
-25	**(-13)**	297	75	87	39	0.16	0.95	7.57	1.91	2.22
-20	**(- 4)**	383	96	112	45	0.18	1.23	8.56	2.16	2.51
-15	**(+ 5)**	483	122	141	50	0.21	1.55	9.66	2.44	2.83
-10	**(+14)**	602	152	176	55	0.24	1.94	10.89	2.74	3.19

TEST CONDITIONS: **CECOMAF-NOFAN** (Condensing temperature **45ºC (+113ºF))**
@220V50Hz **Static**

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	28	0.14	0.43	4.43	1.12	1.30
-30	**(-22)**	184	46	54	35	0.16	0.64	5.22	1.32	1.53
-25	**(-13)**	251	63	73	41	0.19	0.87	6.02	1.52	1.76
-20	**(- 4)**	327	82	96	47	0.22	1.14	6.85	1.73	2.01
-15	**(+ 5)**	417	105	122	54	0.25	1.46	7.73	1.95	2.27
-10	**(+14)**	524	132	154	60	0.28	1.83	8.69	2.19	2.55

TEST CONDITIONS: **CECOMAF-NOFAN** (Condensing temperature **55ºC (+131ºF))**
@220V50Hz **Static**

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)**	98	25	29	29	0.15	0.37	3.37	0.85	0.99
-30	**(-22)**	150	38	44	36	0.17	0.57	4.10	1.03	1.20
-25	**(-13)**	207	52	61	43	0.20	0.79	4.79	1.21	1.40
-20	**(- 4)**	274	69	80	50	0.24	1.05	5.45	1.37	1.60
-15	**(+ 5)**	353	89	103	57	0.27	1.35	6.12	1.54	1.79
-10	**(+14)**	448	113	131	66	0.31	1.72	6.81	1.72	2.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: **CECOMAF-NOFAN** (Condensing temperature **65ºC (+149ºF))**
@220V50Hz **Static**

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)**	71	18	21	26	0.13	0.30	2.69	0.68	0.79
-30	**(-22)**	115	29	34	34	0.16	0.48	3.36	0.85	0.98
-25	**(-13)**	163	41	48	42	0.20	0.69	3.93	0.99	1.15
-20	**(- 4)**	219	55	64	50	0.24	0.93	4.43	1.12	1.30
-15	**(+ 5)**	287	72	84	59	0.28	1.22	4.88	1.23	1.43
-10	**(+14)**	370	93	108	70	0.33	1.58	5.30	1.34	1.55

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard		
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 42º up + 45° 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 0° up + 45° to Back		
3.3 PROCESS	5.1 +0.10/+0.00	[mm]	(0.201" +0.004"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 43° up + 45° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		