

### COMPRESSOR DEFINITION

Designation	EM C60CLT
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	701CA72

### 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 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	187 to 255 V	-
8.2 LBP (43°C Ambient temperature)	Static	187 to 255 V	-
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 <sup>2</sup> ] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm <sup>2</sup> ] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation		[hp]
2 Displacement	9.87	[cm <sup>3</sup> ] (0.602 cu.in)
2.1 Bore [mm]	26.000	
2.2 Stroke [mm]	18.600	
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)	8.1	[kg] (17.86 lb.)
5 Nitrogen charge	-	[kgf/cm <sup>2</sup> ]

### 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	TSD-220V/TSD2-220V1.2/TSD2-D-220V	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	4(350)	[µF(VAC minimum)]
5 Motor protection	4TM265KDB	
6 Start winding resistance	15.00	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	17.65	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[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			<b>CECOMAFLBP-NOFAN</b> 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]
431	109	126	86	0.42	1.64	5.00	1.26	1.47

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		<b>CECOMAF-NOFAN</b> 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)	349	88	102	59	0.00	1.12	5.89	1.48	1.72
-30 (-22)	459	116	134	70	0.00	1.47	6.60	1.66	1.93
-25 (-13)	592	149	173	80	0.00	1.90	7.40	1.87	2.17
-20 (- 4)	751	189	220	91	0.00	2.42	8.31	2.09	2.44
-15 (+ 5)	941	237	276	101	0.00	3.03	9.34	2.35	2.74
-10 (+14)	1165	294	341	111	0.00	3.76	10.49	2.64	3.07

TEST CONDITIONS: @220V50Hz		<b>CECOMAF-NOFAN</b> 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)	289	73	85	61	0.00	1.00	4.76	1.20	1.39
-30 (-22)	392	99	115	73	0.00	1.36	5.38	1.36	1.58
-25 (-13)	516	130	151	85	0.00	1.80	6.06	1.53	1.78
-20 (- 4)	663	167	194	97	0.00	2.31	6.79	1.71	1.99
-15 (+ 5)	838	211	246	110	0.00	2.93	7.59	1.91	2.22
-10 (+14)	1043	263	306	123	0.00	3.65	8.46	2.13	2.48

TEST CONDITIONS: @220V50Hz		<b>CECOMAF-NOFAN</b> 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)	234	59	69	62	0.00	0.89	3.79	0.96	1.11
-30 (-22)	328	83	96	75	0.00	1.25	4.39	1.11	1.29
-25 (-13)	439	111	129	88	0.00	1.67	4.98	1.25	1.46
-20 (- 4)	571	144	167	102	0.00	2.18	5.58	1.41	1.64
-15 (+ 5)	728	183	213	117	0.00	2.79	6.21	1.56	1.82
-10 (+14)	912	230	267	133	0.00	3.50	6.85	1.73	2.01

### 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 42° 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	Slanted 0° up + 45° 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 45° up + 45° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		