

### COMPRESSOR DEFINITION

Designation	<b>NE 7215E</b>
Nominal Voltage/Frequency	<b>115 V 60 Hz</b>
Engineering Number	<b>264DG72</b>

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-22		
3 Nominal voltage and frequency	115 / 60	[ V / Hz ]	
4 Application type	Air Conditioning		
4.1 Evaporating temperature range	0°C to 15°C	(32°F to 59°F)	
5 Motor type	PSC		
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)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	21.7	[kgf/cm <sup>2</sup> ] (309 psig)	/ °C - °F
9.2 Peak (gauge)	24.2	[kgf/cm <sup>2</sup> ] (344 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	3/4	[hp]
2 Displacement	13.54	[cm <sup>3</sup> ] (0.826 cu.in)
2.1 Bore [mm]	29.362	
2.2 Stroke [mm]	20.000	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	MINERAL / ISO32	
4 Weight (with oil charge)	11.65	[kg] (25.68 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm <sup>2</sup> ] (2.84 to 4.27 psig)

### C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	115 V 60 Hz 1~ (Single phase)	
2 Starting device type	PSC	
2.1 Starting device		
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	17.5(450)	[µF(VAC minimum)]
5 Motor protection	T0815/C9	
6 Start winding resistance		[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance		[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	41.80	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	8.80	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V60Hz			ASHRAEHBP46 Fan		Evaporating temperature (Condensing temperature		7.2°C (44.96°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]
7166	1806	2100	1000	8.90	44.26	7.17	1.81	2.10

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V50Hz			ASHRAE46 Fan		(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]
0 (+32)	5016	1264	1470	636	5.87	26.78	7.89	1.99	2.31
+5 (+41)	6069	1529	1778	697	6.25	32.32	8.71	2.19	2.55
+10 (+50)	7247	1826	2124	752	6.68	39.42	9.63	2.43	2.82
+15 (+59)	8550	2155	2505	803	7.20	- 0.10	10.65	2.68	3.12

TEST CONDITIONS: @115V50Hz			ASHRAE46 Fan		(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]
0 (+32)	4741	1195	1389	695	6.32	27.03	6.82	1.72	2.00
+5 (+41)	5797	1461	1699	750	6.76	33.24	7.73	1.95	2.27
+10 (+50)	6979	1759	2045	802	7.22	40.30	8.70	2.19	2.55
+15 (+59)	8288	2088	2428	854	7.75	0.04	9.71	2.45	2.85

TEST CONDITIONS: @115V50Hz			ASHRAE46 Fan		(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]
0 (+32)	4417	1113	1294	740	6.67	27.01	5.97	1.50	1.75
+5 (+41)	5449	1373	1597	801	7.20	33.93	6.80	1.71	1.99
+10 (+50)	6608	1665	1936	864	7.73	41.01	7.65	1.93	2.24
+15 (+59)	7895	1989	2313	931	8.29	0.06	8.48	2.14	2.48

TEST CONDITIONS: @115V60Hz			ASHRAE46 Fan		(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]
0 (+32)	6107	1539	1790	766	7.08	32.62	7.98	2.01	2.34
+5 (+41)	7397	1864	2168	840	7.53	39.44	8.80	2.22	2.58
+10 (+50)	8845	2229	2592	907	8.05	47.99	9.75	2.46	2.86
+15 (+59)	10459	2636	3065	968	8.68	- 0.06	10.81	2.72	3.17

### E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE46			(Condensing temperature 45°C (+113°F))					
@115V60Hz		Fan								
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]
0	(+32)	5714	1440	1674	838	7.62	32.53	6.82	1.72	2.00
+5	(+41)	6984	1760	2046	904	8.14	40.07	7.73	1.95	2.26
+10	(+50)	8406	2118	2463	967	8.71	48.66	8.69	2.19	2.55
+15	(+59)	9988	2517	2927	1028	9.34	- 0.03	9.71	2.45	2.85

TEST CONDITIONS:		ASHRAE46			(Condensing temperature 55°C (+131°F))					
@115V60Hz		Fan								
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]
0	(+32)	5320	1341	1559	892	8.04	32.59	5.96	1.50	1.75
+5	(+41)	6568	1655	1925	965	8.67	40.82	6.81	1.72	1.99
+10	(+50)	7963	2007	2333	1041	9.32	49.43	7.65	1.93	2.24
+15	(+59)	9511	2397	2787	1121	9.99	0.09	8.48	2.14	2.49

### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.03 +0.07/+0.00	[mm]	(0.316" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
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	Vertical		
3.3 PROCESS	9.6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Vertical		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		