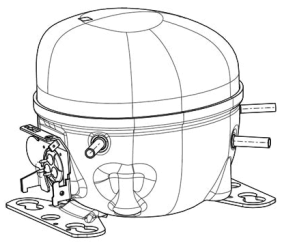
COMPRESSOR TECHNICAL DATA

EMY3115Z



ENGINEERING CODE
171AA72

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
L/MBP

MOTOR TYPE
RSIR

STANDARD
EN12900

COOLING CAPACITY
80 W

EFFICIENCY
0.97 W/W

DATA

GENERAL DATA

Model	EMY3115Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/6
Starting Torque	LST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	16.25 Ω at 25°C
Run Winding Resistance	17.6 Ω at 25°C

MECHANICAL DATA

Displacement	6.09 cm^3
Oil Charge	150 ml
Oil Type	ESTER
Oil Viscosity	ISO10
Weight	7.6 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	PTC
Overload Protection	AE19BU8

EXTERNAL CHARACTERISTICS

Base Plate	SMALL

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.94 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 46°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Static
Tested Voltage	220 V
Tested Frequency	50 Hz
Max Refrigerant Charge	250 g
Refrigerant Temperature	Dew

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
40	-35	80	0.97	83	-	1.76

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	89	1.09	81	-	1.85
-30	123	1.33	92	-	2.58
-25	167	1.59	105	-	3.52
-20	221	1.86	119	-	4.67
-15	287	2.16	133	-	6.07
-10	363	2.50	145	-	7.71
-5	451	2.90	156	-	9.63
0	551	3.38	163	-	11.84

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	73	0.87	84	-	1.67
-30	102	1.07	95	-	2.34
-25	140	1.28	109	-	3.22
-20	187	1.49	126	-	4.32
-15	245	1.71	143	-	5.67
-10	312	1.95	161	-	7.28
-5	391	2.21	177	-	9.17
0	481	2.52	191	-	11.36

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

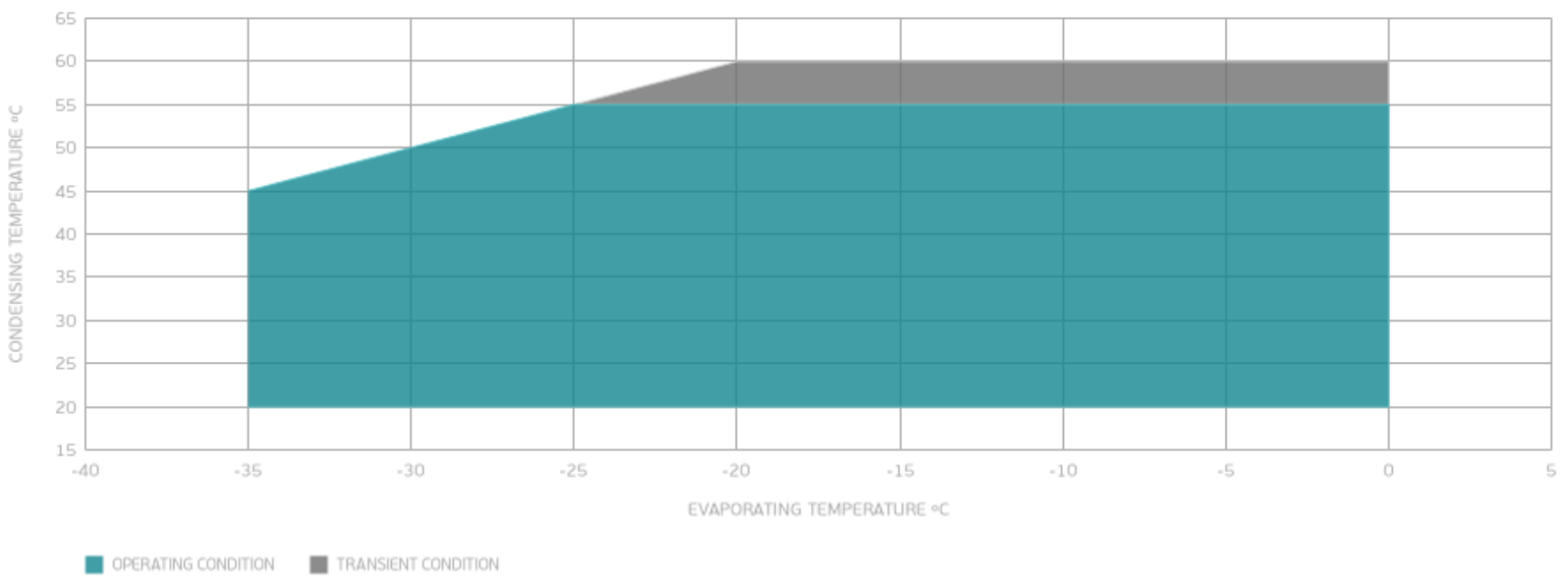
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-25	114	1.05	109	-	2.91
-20	154	1.21	127	-	3.95
-15	203	1.38	147	-	5.23
-10	262	1.56	168	-	6.79
-5	331	1.75	189	-	8.63
0	410	1.96	210	-	10.77

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS