



APPROVALS



ENGINEERING CODE
863JE71

APPROVED REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
1222 W (MBP)

EFFICIENCY
1.9 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm ³
Compressor Cooling	Fan/NotControlled/115
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	115-127 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	3.81 Ω at 25° C
Run Winding Resistance	0.96 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	11.62 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
CSR / CSIR Box	YES
Starting Device	RVAH7AA3C-571
Start Capacitor	243-292 Uf / 250 V
Run Capacitor	30
Motor Protection	T0736/G9

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	206 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.45 mm	Straight/Copper
Process	6.45 mm	Slanted 42°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	1222 W	643 W	15.03 kg/h	1.9 W/W

Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C, Liquid 45°C, Subcooling OK. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	951	490	10.54	1.94
-15	1159	537	12.92	2.16
-10	1409	583	15.78	2.42
-5	1709	628	19.26	2.72
0	2067	672	23.47	3.08
5	2491	713	28.54	3.49
10	2989	753	34.59	3.97

Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	817	523	9.95	1.56
-15	1000	584	12.24	1.71
-10	1222	643	15.03	1.9
-5	1489	697	18.45	2.14
0	1810	746	22.61	2.42
5	2192	791	27.64	2.77
10	2645	831	33.66	3.18

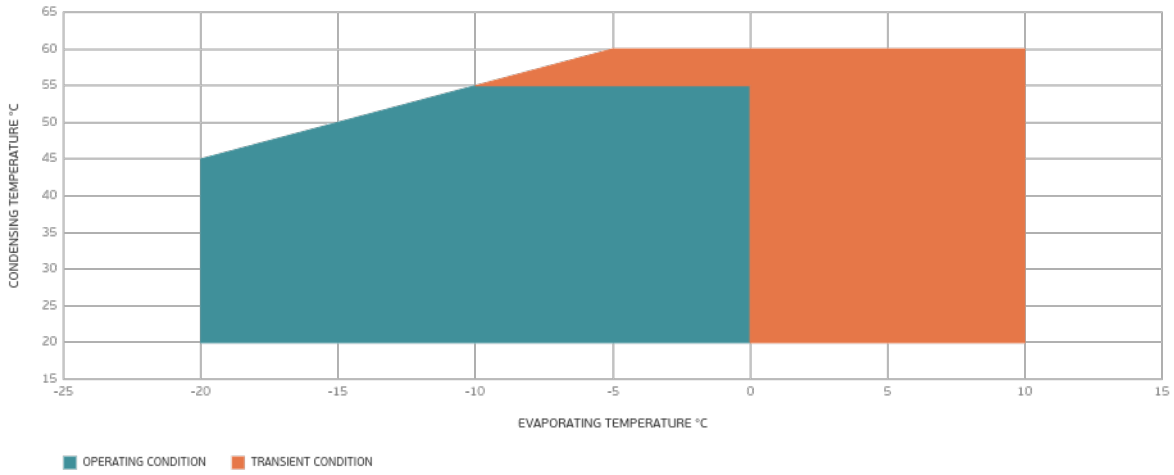
Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	1037	698	14.25	1.49
-5	1269	759	17.58	1.67
0	1551	814	21.66	1.91
5	1891	860	26.63	2.2
10	2296	899	32.60	2.55

Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions

