

ENGINEERING CODE
943RV11

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
230 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
M/HBP

COOLING CAPACITY
2425 W

EFFICIENCY
1.59 W/W

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	32.7 cm ³
Compressor Cooling	Fan
Fan Air Flow	800 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/2 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	230 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	5.4 Ω at 25° C
Run Winding Resistance	1.75 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	22.7 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
CSR / CSIR Box	yes
Starting Device	Potential relay RVA3H3C-108
Start Capacitor	130-156 μ F / 330V
Motor Protection	External 3/4" T0878/C9 MRA3764-3074

External Characteristics

Base Plate	Large	
Tray Holder	No	
Height	276 mm	
Connector	Internal Diameter	Shape
Suction	12.77 mm	Vertical
Discharge	8 mm	Slanted 65°
Process	6.42 mm	Vertical

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	2425 W	1521 W	7.43 A	72.81 kg/h	1.59 W/W

Test Condition: EN12900, Fan, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C, Liquid 45°C. Data in accordance to EN12900 guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	1904	1178	6.08	49.34	1.62
-15	2414	1311	6.57	63.07	1.84
-10	2991	1447	7.1	78.83	2.07
-5	3643	1583	7.65	97.03	2.3
0	4378	1720	8.22	118.10	2.55
5	5202	1855	8.83	142.46	2.8
10	6124	1988	9.46	170.53	3.08

Test Condition: EN12900, Fan, M/HBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	1507	1215	6.2	44.39	1.24
-15	1939	1365	6.8	57.65	1.42
-10	2425	1521	7.43	72.81	1.59
-5	2970	1683	8.1	90.28	1.76
0	3583	1849	8.81	110.49	1.94
5	4272	2019	9.56	133.87	2.12
10	5044	2190	10.35	160.83	2.3

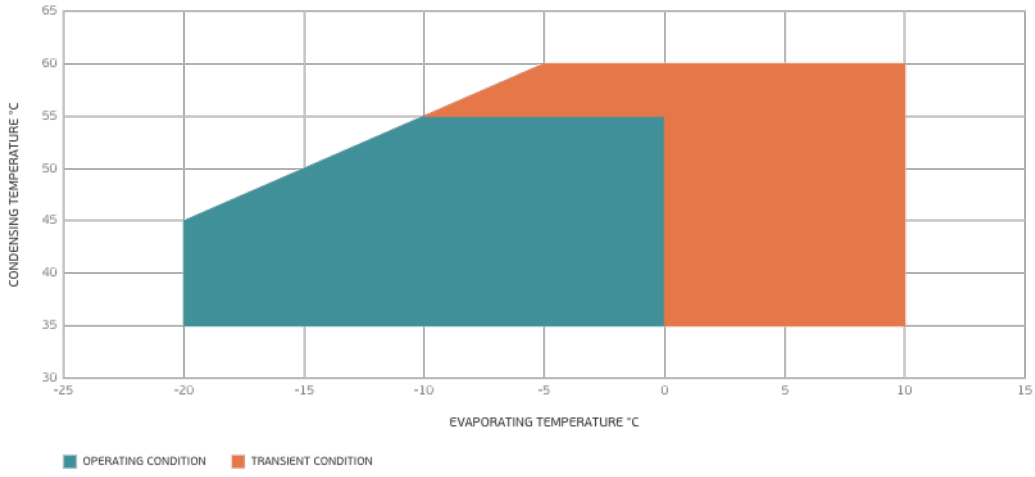
Test Condition: EN12900, Fan, M/HBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

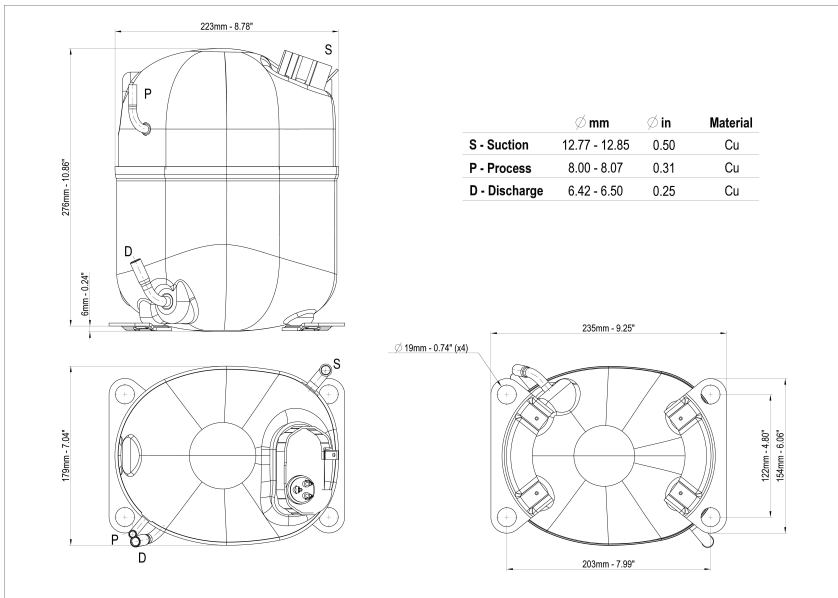
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	1896	1590	7.7	67.18	1.19
-5	2323	1773	8.44	83.56	1.31
0	2805	1965	9.23	102.56	1.43
5	3347	2165	10.07	124.60	1.55
10	3957	2371	10.96	150.09	1.67

Test Condition: EN12900, Fan, M/HBP. Data in accordance to EN12900 guideline polynomial curve.

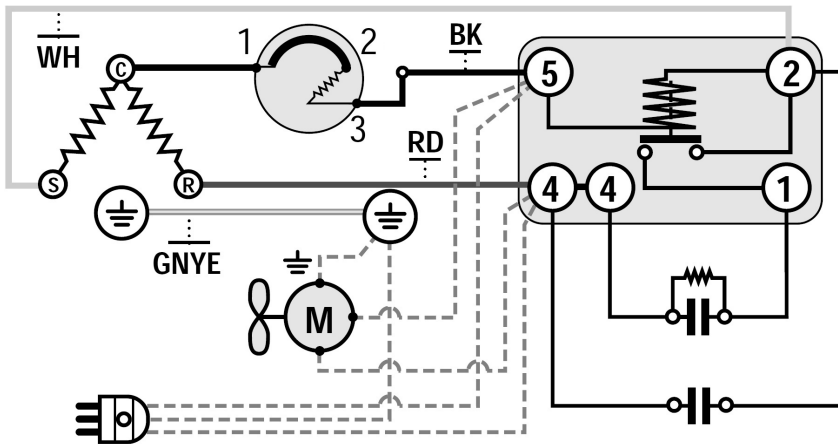
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

