

220-240V 50 1~**GENERAL DATA**

Application: LBP
Refrigerant: R290
Evaporating Temperature Range: -40°C to -10°C
Compressor Cooling: Fan
Fan air flow: 520 m³/h
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Multi - 36 pcs
Displacement: 20.4 cm³
Horse power: 3.4 hp

Approvals:    

MECHANICAL DATA

Bore: 36.99 mm
Stroke: 19.03 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm³
Maximum Recommended Refrigerant Charge: 150 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressurization: Without dry air charge
Weight: 17.2 kg

ELECTRICAL DATA

Motor Type: CSR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 10.4 Ω (± 10%) at 25°C
Run Winding Resistance: 2.4 Ω (± 10%) at 25°C
Locked Rotor Amperage (LRA): 24 A

MOUNTING ACCESSORIES

	Description	Code
Terminal Board:	no	-
Anchorage:	no	-
Capacitor Bracket:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Overload Protector Bracket:	yes	2075299
Cover:	yes	2075278

ELECTRICAL COMPONENTS

	Component type	Description	Code
Motor Protection:	External 3/4"	T0634/G9	2321002
Start Capacitor:		53-64 MFD 330V	2252261
Run Capacitor:		12.5 MFD	2253318
Starting Device:	Potential relay	RVA2AM3C-104	1253019
CSR / CSIR Box:	yes		1272322

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 220 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	9.6	Copper	Vertical
Discharge Connector	6.42	Copper	Vertical
Process Connector	6.42	Copper	Vertical



RATED POINT DATA

Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
±5%	±5%	±5%	±5%	±7%
840	576	2.88	8.53	1.46

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporating: -23.3°C, Condensing: 54°C, Ambient: 32.2°C, Liquid: 32.2°C

PERFORMANCE CURVE DATA**220V 50Hz**

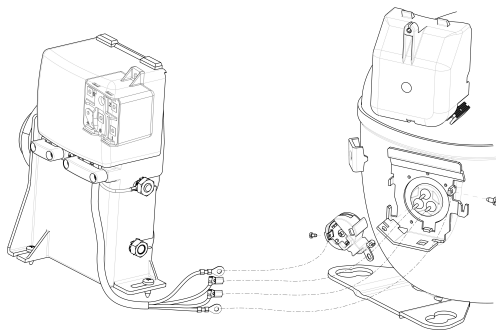
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	-10	1 706	659	3.26	17.52	2.59
	-15	1 407	609	3.03	14.38	2.31
	-20	1 141	558	2.81	11.62	2.04
	-25	908	507	2.59	9.22	1.79
	-30	709	456	2.37	7.18	1.56
	-35	544	403	2.15	5.49	1.35
	-40	412	350	1.93	4.15	1.18

Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
45°C	-10	1 598	716	3.51	16.40	2.23
	-15	1 314	654	3.23	13.43	2.01
	-20	1 061	593	2.96	10.80	1.79
	-25	840	533	2.70	8.52	1.58
	-30	650	472	2.45	6.58	1.38
	-35	492	412	2.20	4.97	1.19

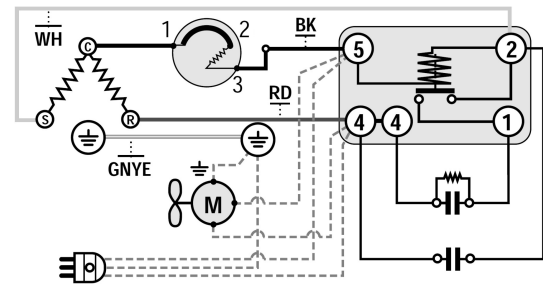
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	-10	1 477	771	3.77	15.16	1.92
	-15	1 210	697	3.43	12.36	1.74
	-20	972	625	3.10	9.90	1.56
	-25	765	554	2.79	7.76	1.38
	-30	586	485	2.49	5.93	1.21

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Ambient: 32.2°C, Liquid: 32.2°C

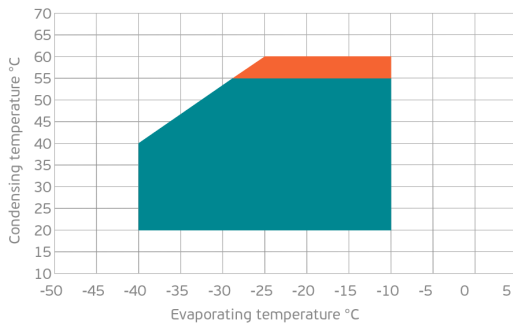
ASSEMBLY INSTRUCTION



WIRING DIAGRAM



OPERATING ENVELOPE



- Operating Condition
- Transient Condition
- Superheating

NOTE: usage of compressors outside of intended working range cannot make use of the warranty, or should be consulted with Technical support.

