

**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 m<sup>3</sup>/h  
**Type:** Hermetic reciprocating  
**Technology Type:** On-Off  
**Expansion Device:** Capillary Tube or Expansion Valve  
**Packing Quantity:** Single - 1 pc  
**Displacement:** 27.8 cm<sup>3</sup>  
**Horse power:** 1.25 hp

Approvals:    

**MECHANICAL DATA**

**Bore:** 38.1 mm  
**Stroke:** 24.4 mm  
**Oil Charge:** 450ml +/-15ml  
**Free Internal Volume:** 3.3 cm<sup>3</sup>  
**Maximum Recommended Refrigerant Charge:** 150 g  
**Oil Type Configuration:** Polyolester  
**Oil Type Viscosity:** ISO22  
**Compressor pressurization:** Without dry air charge  
**Weight:** 18.6 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:** 3.92 Ω (± 10%) at 25°C  
**Run Winding Resistance:** 1.72 Ω (± 10%) at 25°C

**MOUNTING ACCESSORIES**

	Description	Code
<b>Terminal Board:</b>	no	-
<b>Anchorage:</b>	no	-
<b>Overload Protector Bracket:</b>	no	-
<b>Capacitor Bracket:</b>	no	-
<b>Grommets:</b>	yes	2221004
<b>Sleeves:</b>	yes	2222016
<b>Washer:</b>	no	-
<b>Pin:</b>	no	-
<b>Clip:</b>	no	-
<b>Rotolock valve:</b>	no	-
<b>Cover:</b>	yes	2075288

**ELECTRICAL COMPONENTS**

	Component type	Description	Code
<b>Run Capacitor:</b>		17.5 MFD	2253311
<b>Motor Protection:</b>	Internal	15HM1962	
<b>Start Capacitor:</b>		88-108 MFD 330V	2252269
<b>Starting Device:</b>	Potential relay	RVA2E3C-103	1253002
<b>CSR / CSIR Box:</b>	yes		1272342

**EXTERNAL CHARACTERISTICS**

**Base Plate:** Universal  
**Tray Holder:** No  
**Height:** 234 mm

	Internal Diameter (mm)	Material	Shape
<b>Suction Connector</b>	9.6	Copper	Vertical
<b>Discharge Connector</b>	6.42	Copper	Vertical
<b>Process Connector</b>	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%
1 180	842	4.41	11.98	1.40

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**

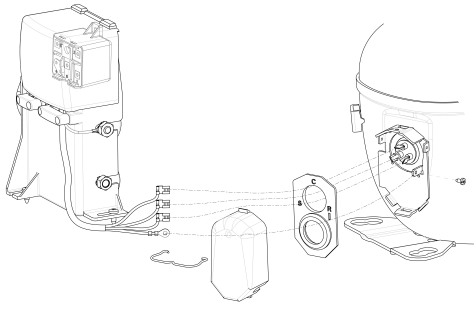
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>35°C</b>	-10	2 329	1 001	5.09	23.91	2.33
	-15	1 921	911	4.71	19.64	2.11
	-20	1 561	825	4.35	15.89	1.89
	-25	1 249	742	4.01	12.68	1.68
	-30	987	662	3.69	9.99	1.49
	-35	774	586	3.40	7.82	1.32
	-40	612	513	3.14	6.16	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%
<b>45°C</b>	-10	2 200	1 077	5.41	22.59	2.04
	-15	1 809	972	4.96	18.49	1.86
	-20	1 462	872	4.54	14.89	1.68
	-25	1 161	776	4.15	11.78	1.50
	-30	907	684	3.79	9.17	1.33
	-35	698	596	3.46	7.05	1.17

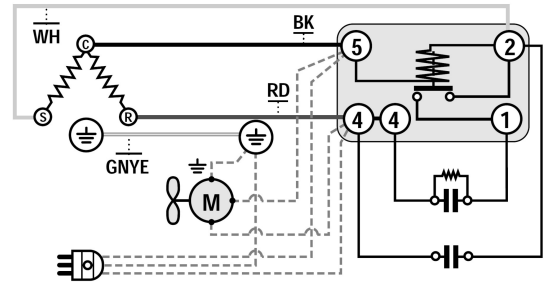
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
<b>55°C</b>	-10	2 069	1 151	5.73	21.24	1.80
	-15	1 697	1 032	5.21	17.34	1.64
	-20	1 366	918	4.73	13.90	1.49
	-25	1 078	808	4.28	10.94	1.33
	-30	833	704	3.86	8.43	1.18

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

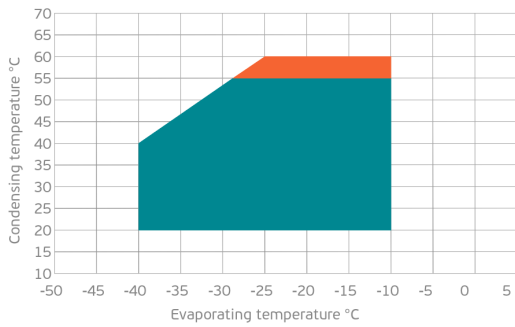
### ASSEMBLY INSTRUCTION



### WIRING DIAGRAM

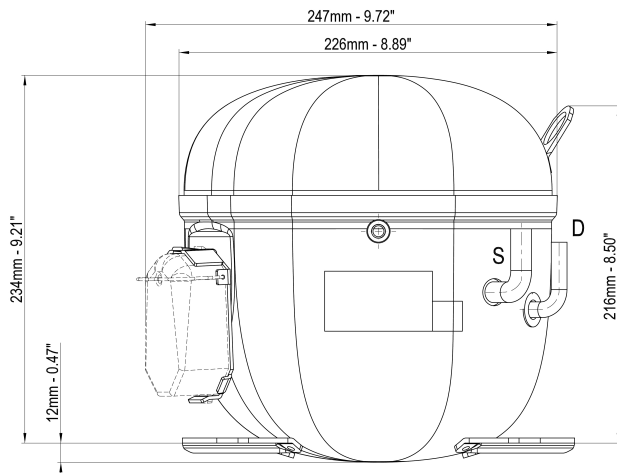


### OPERATING ENVELOPE



- 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.



	∅ mm	∅ in	Material
<b>S - Suction</b>	9.60	0.37	Cu
<b>P - Process</b>	6.42	0.25	Cu
<b>D - Discharge</b>	6.42	0.25	Cu

