

NEU2178U



**ENGINEERING CODE**  
8630A48

**REFRIGERANT**  
R-290

**POWER SUPPLY**  
220-240 V 50 Hz

**APPLICATION**  
LBP

**MOTOR TYPE**  
CSCR

**STANDARD**  
EN12900

**COOLING CAPACITY**  
497 W

**EFFICIENCY**  
1.23 W/W



DATA

GENERAL DATA

Model	NEU2178U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	10.42 Ω at 25°C
Run Winding Resistance	5.23 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	21 A

## MECHANICAL DATA

Displacement	18.7 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.6 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	108-130 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	USP-Y01-83

## EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 mm	SLANTED 42°	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
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	497	1.23	403	2	5.7

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	411	1.20	343	1.73	4.50
-35	532	1.36	390	1.94	5.84
-30	682	1.55	441	2.16	7.51
-25	862	1.74	494	2.38	9.52
-20	1072	1.96	547	2.60	11.88
-15	1310	2.20	596	2.83	14.60
-10	1578	2.46	641	3.07	17.68

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	358	0.98	365	1.80	4.30
-35	462	1.11	415	2.04	5.56
-30	592	1.25	473	2.29	7.15
-25	749	1.40	536	2.55	9.08
-20	933	1.55	602	2.83	11.35
-15	1143	1.71	669	3.13	13.98
-10	1379	1.88	733	3.45	16.97

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

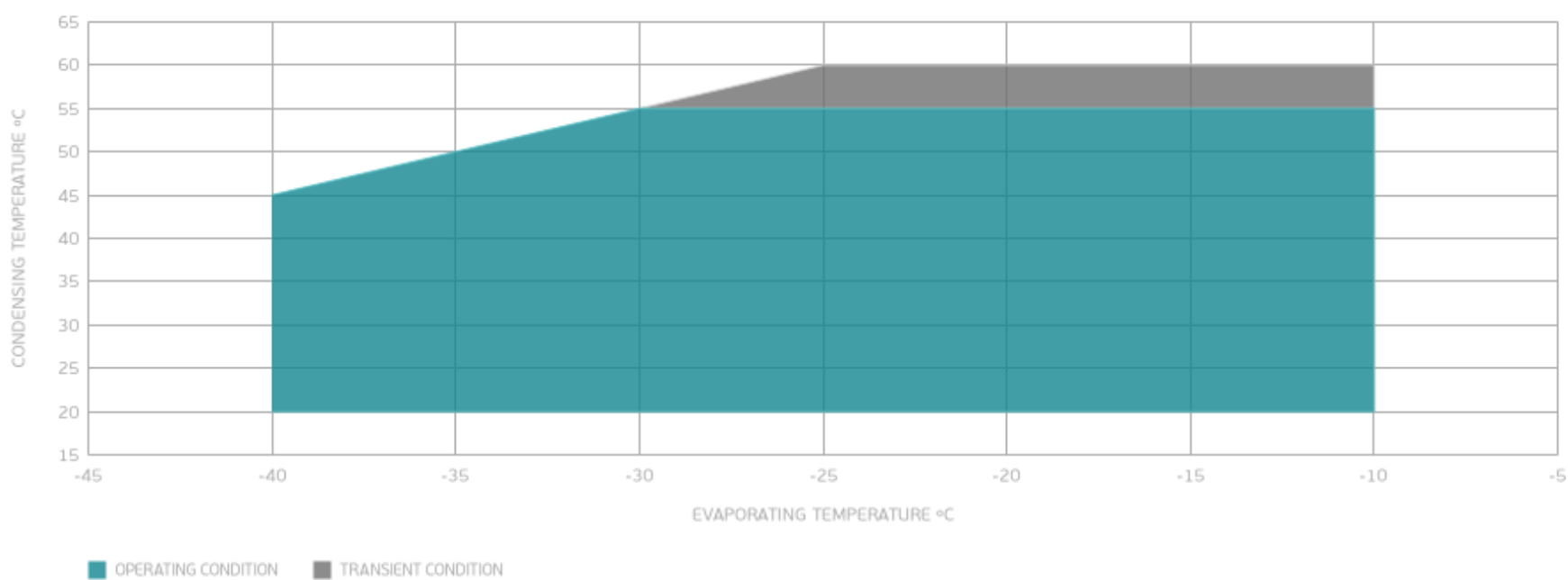
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	500	1.01	495	2.39	6.72
-25	633	1.12	565	2.70	8.55
-20	791	1.23	642	3.03	10.73
-15	971	1.34	722	3.40	13.25
-10	1175	1.46	804	3.80	16.14

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



## EXTERNAL DIMENSIONS

