

NEU2168U



**ENGINEERING CODE**  
863IA58

**REFRIGERANT**  
R-290

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

**APPLICATION**  
LBP

**MOTOR TYPE**  
CSCR

**STANDARD**  
ASHRAE

**COOLING CAPACITY**  
791 W

**EFFICIENCY**  
1.56 W/W



DATA

GENERAL DATA

Model	NEU2168U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	3/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	11.03 Ω at 25°C
Run Winding Resistance	5.15 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	21 A
Rated Load Amperage (LMBP) at 50 Hz	3.3 A

## MECHANICAL DATA

Displacement	16.8 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.6 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	MST30AMK-3261

## EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	ASHRAE
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
54.4	-23.3	791	1.56	507	2.43	8.03

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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	377	1.23	306	1.51	3.80
-35	490	1.42	345	1.69	4.95
-30	634	1.64	387	1.88	6.41
-25	808	1.88	430	2.07	8.20
-20	1013	2.14	473	2.26	10.31
-15	1249	2.43	514	2.46	12.76
-10	1515	2.75	550	2.66	15.55

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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	362	1.12	322	1.59	3.64
-35	470	1.29	364	1.79	4.75
-30	608	1.47	412	2.00	6.15
-25	775	1.67	465	2.22	7.86
-20	971	1.87	519	2.46	9.88
-15	1196	2.08	574	2.70	12.22
-10	1451	2.31	628	2.96	14.89

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

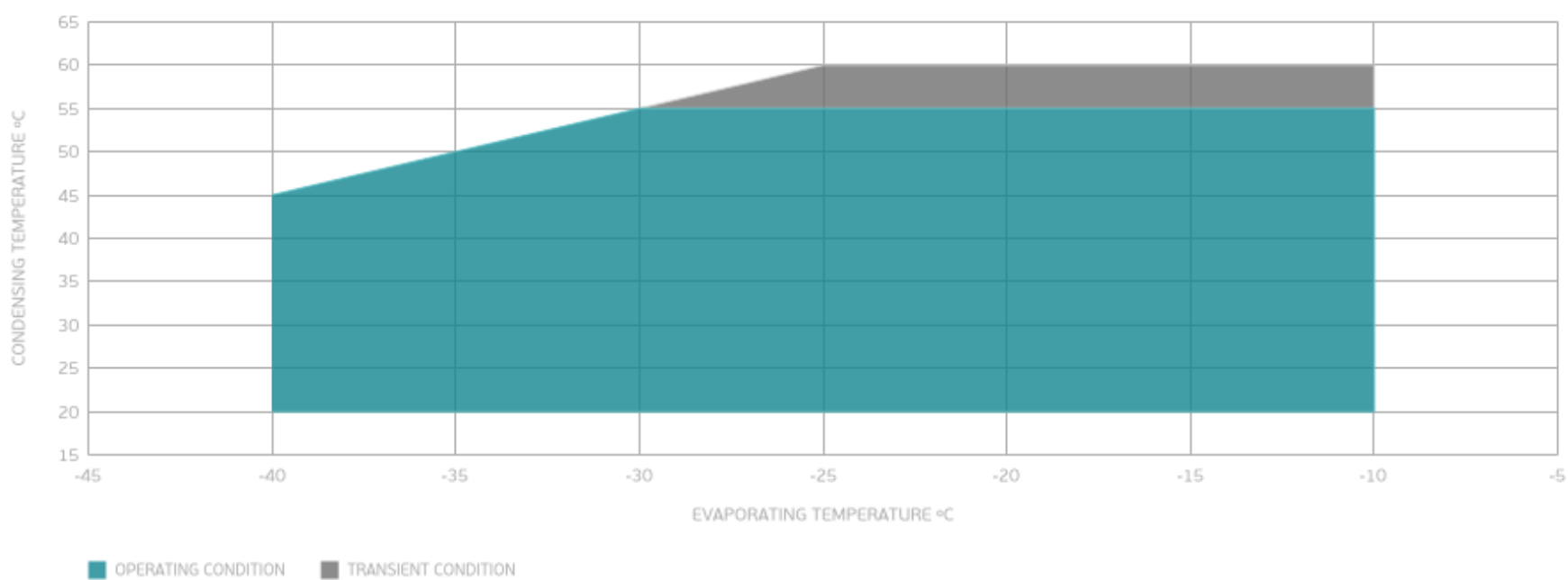
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	568	1.33	427	2.08	5.74
-25	727	1.49	487	2.34	7.37
-20	914	1.66	551	2.62	9.30
-15	1129	1.83	618	2.92	11.54
-10	1372	2.00	687	3.24	14.08

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



## EXTERNAL DIMENSIONS

