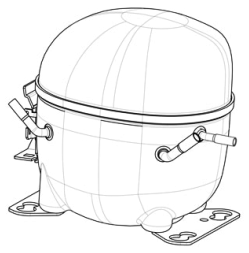
COMPRESSOR TECHNICAL DATA

NEU6181U



ENGINEERING CODE
861JE71

REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
730 W

EFFICIENCY
1.99 W/W

DATA

GENERAL DATA

Model	NEU6181U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/115
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	7.19 Ω at 25°C
Run Winding Resistance	1.57 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	30 A
Rated Load Amperage (LMBP) at 60 Hz	5 A

MECHANICAL DATA

Displacement	7.28 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10 Kg

ELECTRICAL COMPONENTS

Start Capacitor	189-227 µf/250 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	MSP26AHK-3265

EXTERNAL CHARACTERISTICS

Base Plate	UNI

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	MBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	115 V
Tested Frequency	60 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	-6.7	730	1.99	367	4.3	8.35

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	545	2.10	259	3.59	5.24
-15	684	2.45	279	3.74	6.61
-10	840	2.81	299	3.86	8.16
-5	1015	3.23	315	3.94	9.90
0	1211	3.72	325	4.00	11.87
5	1428	4.35	328	4.04	14.09
10	1668	5.19	321	4.05	16.59

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	461	1.66	277	3.70	4.80
-15	587	1.94	302	3.87	6.13
-10	730	2.22	328	4.02	7.65
-5	891	2.52	354	4.16	9.39
0	1072	2.85	377	4.29	11.38
5	1275	3.23	395	4.41	13.63
10	1500	3.70	406	4.53	16.16

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

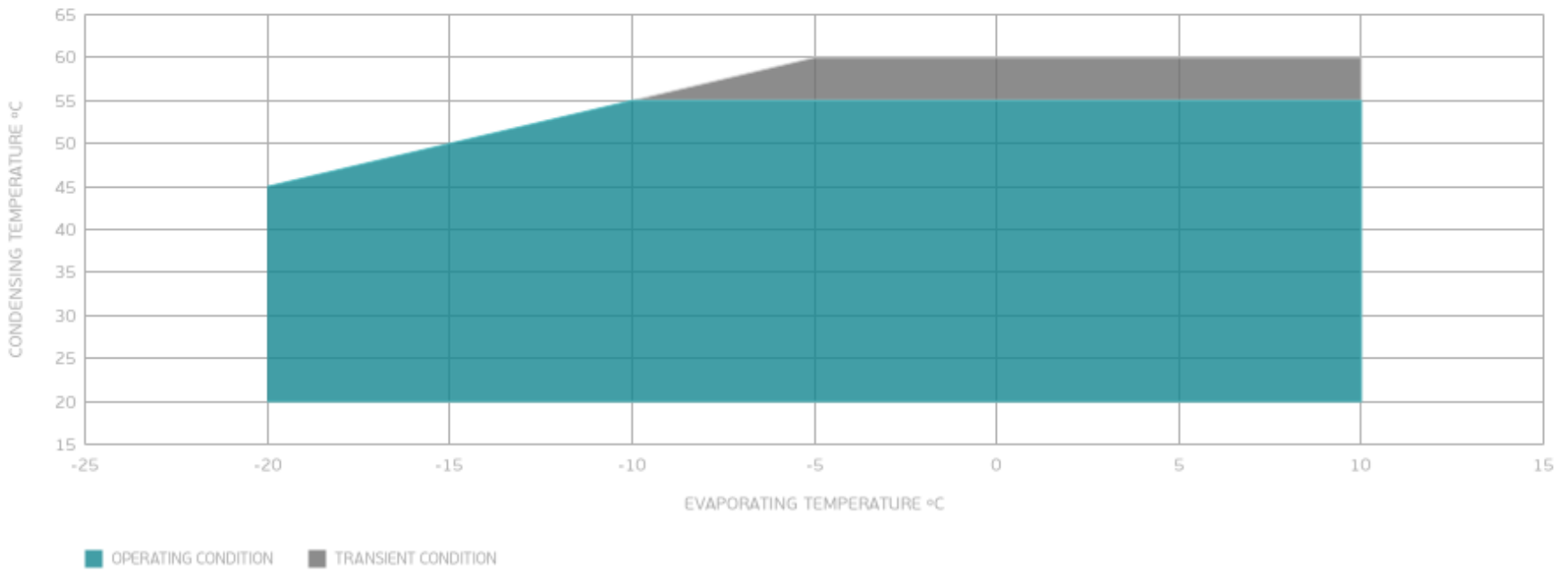
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	630	1.82	346	4.18	7.21
-5	775	2.05	379	4.38	8.93
0	940	2.29	411	4.60	10.91
5	1126	2.55	441	4.82	13.16
10	1334	2.86	466	5.05	15.73

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS