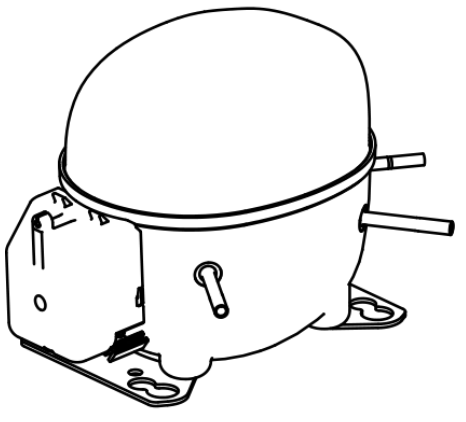
COMPRESSOR TECHNICAL DATA

NEU2155U



ENGINEERING CODE
863PI51

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
EN12900

COOLING CAPACITY
450 W

EFFICIENCY
1.32 W/W

DATA

GENERAL DATA

Model	NEU2155U
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	7.82 Ω at 25°C
Run Winding Resistance	5.18 Ω at 25°C

MECHANICAL DATA

Displacement	13.54 cm^3
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	11.3 Kg

ELECTRICAL COMPONENTS

Start Capacitor	108-130 µf/330 V
Run Capacitor	10.0 µf/400 V
CSR CSIR BOX	Yes
Starting Device Description	RVA2AE3C-105
Overload Protection	USP-Y01-83 (internal)

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

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	EN12900
Tested Cooling	Fan
Tested Voltage	220 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
40	-35	450	1.32	342	-	5.17

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

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	376	1.29	292	-	4.12
-35	484	1.45	333	-	5.31
-30	617	1.64	376	-	6.79
-25	777	1.85	421	-	8.58
-20	963	2.07	466	-	10.68
-15	1176	2.31	508	-	13.10
-10	1417	2.59	548	-	15.87

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

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	323	1.06	305	-	3.87
-35	416	1.19	350	-	5.00
-30	532	1.33	400	-	6.42
-25	671	1.48	454	-	8.13
-20	834	1.63	511	-	10.15
-15	1021	1.80	569	-	12.49
-10	1233	1.97	625	-	15.17

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

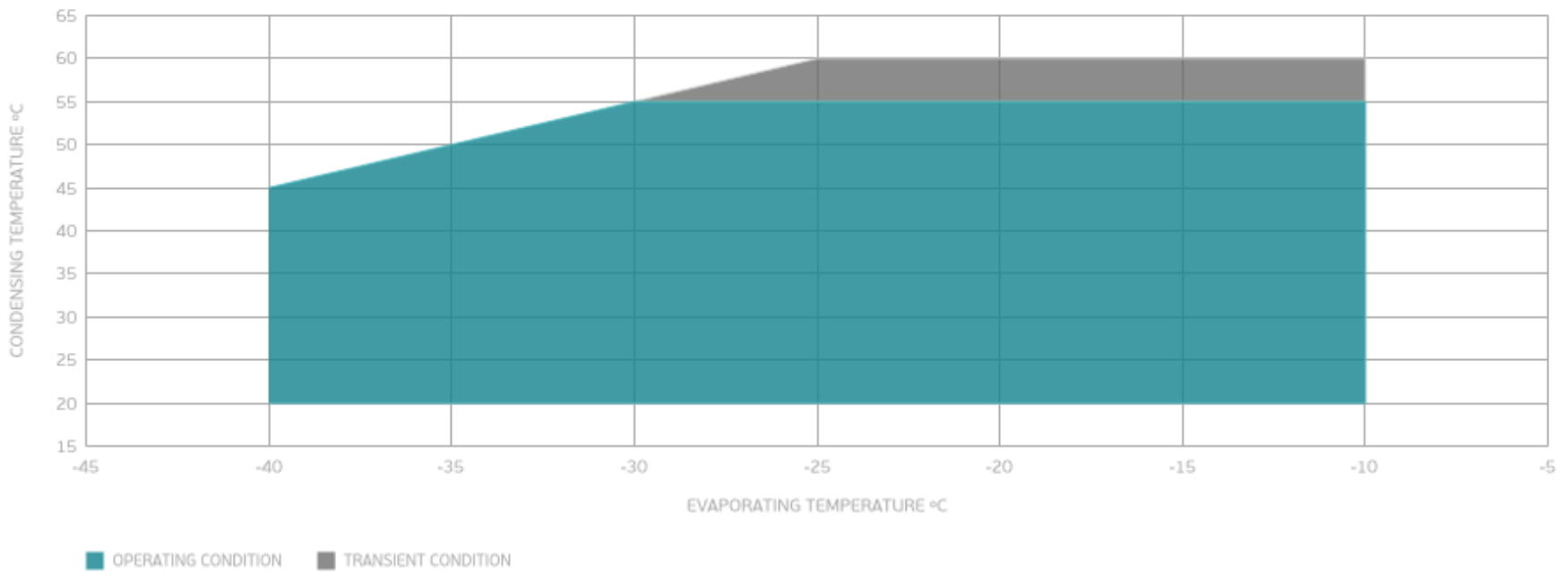
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	443	1.07	413	-	5.95
-25	561	1.18	475	-	7.58
-20	701	1.29	541	-	9.51
-15	862	1.41	612	-	11.76
-10	1044	1.53	684	-	14.34

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS