

NEX2190UA



**ENGINEERING CODE**  
865CA46



**REFRIGERANT**  
R-290



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



**APPLICATION**  
LBP



**MOTOR TYPE**  
CSCR



**STANDARD**  
ASHRAE



**COOLING CAPACITY**  
1038 W



**EFFICIENCY**  
1.6 W/W



DATA

GENERAL DATA

Model	NEX2190UA
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	8.4 Ω at 25°C
Run Winding Resistance	4.27 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	24.5 A

## MECHANICAL DATA

Displacement	21.02 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
Run Capacitor	15.0 µf/400 V
CSR CSIR BOX	Yes
Starting Device Description	RVA4AL3C-649
Overload Protection	USP-MOM-83 (internal)

## EXTERNAL CHARACTERISTICS

Base Plate	UNI
Tray Holder	NO

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	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	1038	1.6	649	3.1	10.54

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	510	1.33	384	1.89	5.13
-35	662	1.51	438	2.12	6.69
-30	846	1.71	494	2.36	8.56
-25	1064	1.94	549	2.60	10.80
-20	1318	2.19	602	2.84	13.42
-15	1610	2.47	651	3.09	16.46
-10	1943	2.80	694	3.34	19.94

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	473	1.19	398	1.95	4.76
-35	622	1.35	460	2.22	6.28
-30	803	1.53	526	2.50	8.12
-25	1016	1.71	594	2.79	10.31
-20	1264	1.91	663	3.08	12.87
-15	1550	2.12	730	3.38	15.84
-10	1875	2.36	794	3.68	19.24

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	746	1.38	542	2.65	7.55
-25	955	1.53	622	2.99	9.68
-20	1198	1.70	705	3.34	12.19
-15	1477	1.87	789	3.70	15.09
-10	1795	2.06	872	4.06	18.42

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

