

# Reciprocating compressor NST34LA



Producer: **Cubigel Compressors**

Line: **S**

Model: **NST34LA**

Cooling capacity [W]: **2,463**

Cylinder volume [cm<sup>3</sup>]: **34.42**

Refrigerant: **R290**

Applications: **LBP**

Power supply: **230V/1Ph/50Hz**

## Data

### Technical data

Nominal cooling capacity (CECOMAF)	[W]	1,143
Nominal cooling capacity (ASHRAE)	[kcal/h]	1,323
Displacement	[m <sup>3</sup> /h]	6.20
Cylinder volume	[cm <sup>3</sup> ]	34.42
Cylinder bore	[mm]	42.9
Cylinder stroke	[mm]	23.9
Oil charge	[l]	0.70
Oil type		ISO VG 46 ESTER
Net weight	[kg]	23

### Electrical data and limits

Power supply		220-240V 50Hz ~1
Maximum continuous current	[A]	8.1
Locked rotor amperage	[A]	29.5
Motor resistance main	[Ω]	2.60
Motor resistance start	[Ω]	3.85
Electrical motor type		CSR
Type of torque		HST
Maximum ambient temperature	[°C]	43

### Dimensions

Suction / Service tube diameter (1) <sup>1</sup>	[mm]	12.7
Discharge tube diameter (3)	[mm]	8.0
Service / Suction tube diameter (2)	[mm]	9.7

### Other

Approved refrigerants	R290
Expansion device	Capillary tube, Expansion valve
Compressor cooling	Fan
Applications	LBP

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<sup>1</sup> Without valve version.

<sup>2</sup> Valve version.

## Performance

Nominal conditions: refrigerant: R290 , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

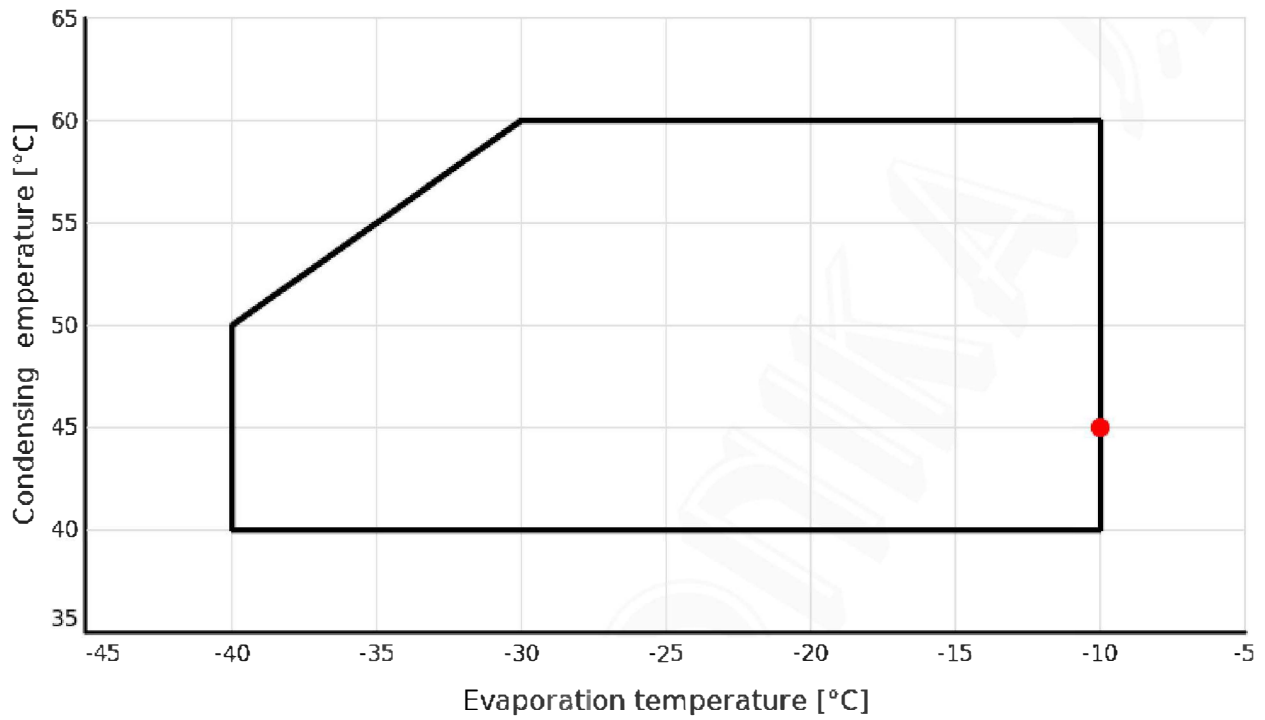
### Cooling capacity [W]

		Evaporation temperature [°C]						
		<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>
Condensation temperature °C]	<b>40</b>	546	784	1,067	1,397	1,775	2,200	2,676
	<b>45</b>	499	709	965	1,267	1,616	2,015	2,463
	<b>50</b>	451	635	863	1,137	1,459	1,829	2,250
	<b>55</b>		562	763	1,009	1,302	1,645	2,038
	<b>60</b>			663	882	1,147	1,462	1,827

### Power consumption [W]

		Evaporation temperature [°C]						
		<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>
Condensation temperature [°C]	<b>40</b>	622	716	815	918	1,027	1,140	1,258
	<b>45</b>	613	717	826	940	1,059	1,183	1,312
	<b>50</b>	604	719	838	962	1,091	1,226	1,365
	<b>55</b>		720	850	984	1,124	1,269	1,418
	<b>60</b>			861	1,006	1,156	1,311	1,471

**Application range**



**Legend**

- Current operating conditions