

# Coolselector2

## Project information

Project name:  
 Comments:  
 Created by:  
 Coolselector2 version: 3.8.4. Database: 60.60.2.25.13.40  
 Printed: Tuesday 7 July 2020  
 Preferences used: All applications

## Compressors 1

### Operating conditions

Refrigerant:	R404A		
Evaporating dew point temperature:	-10,0 °C	Condensing dew point temperature:	30,0 °C
Evaporating pressure:	4,342 bar	Condensing pressure:	14,18 bar
Useful superheat:	8,0 K	Subcooling:	2,0 K
Additional superheat:	0 K	Additional subcooling:	0 K
Return gas temperature:	-2,0 °C	Total subcooling:	2,0 K
		Liquid temperature (no glide):	28,0 °C
<b>Rating conditions:</b>	<i>Custom</i>		
<b>Required cooling capacity:</b>	<i>10,00 kW</i>		

### Selection: SC10MLX, R404A

Match percentage (10,8%) is lower than minimum (90%).

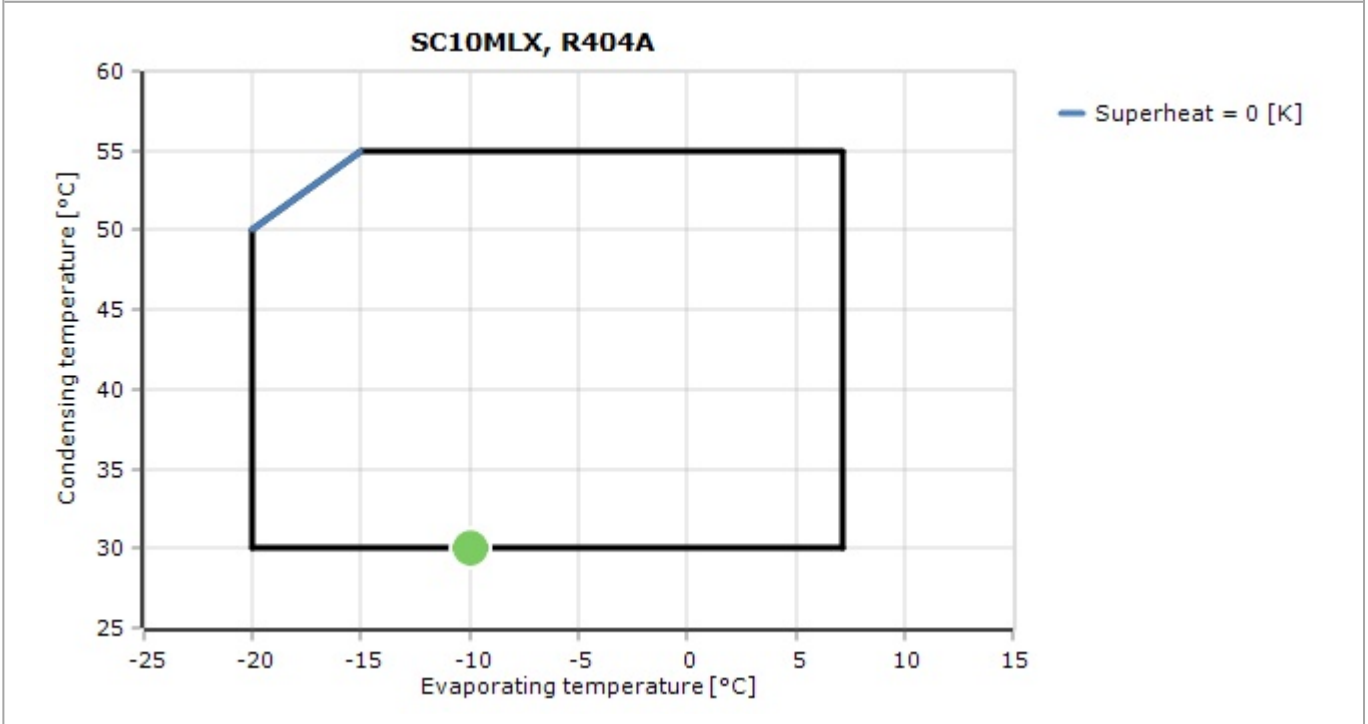
Model	SC10MLX
Technology	Reciprocating
Configuration	Single
Refrigerant	R404A
Capacity control	Fixed speed
Speed [rpm]	2900
Cooling [kW]	1,077
COP cooling [W/W]	2,33
Heating [kW]	1,400
COP heating [W/W]	3,03
Power [kW]	0,462
Current [A]	3,434
Frequency [Hz]	50
Power supply	100 V 1 ph
Mass flow [kg/h]	30,43

### Selected code number and spare parts

**Code number:** 104L2506. SC10MLX. Min. order quantity: 80 pcs

# Coolselector2

## Envelope



## Technical Data

Applications	MBP
Economizer	No
Capacity control	Fixed speed
Configuration code	Single
Swept volume [cm <sup>3</sup> ]	10.29 cm <sup>3</sup>
Application energy level	Standard MBP
Refrigerant charge [kg] [Max]	1.3 kg
Free gas volume [cm <sup>3</sup> ]	1410 cm <sup>3</sup>
Rotational speed at 50Hz [rpm]	2900 rpm
Base plate type	Universal
Brand technique	Reciprocating compressor
Colour	Black
Rotational speed at 60Hz [rpm]	3500 rpm
Net weight	13.45 kg

## Dimensions

Length [mm]	255 mm
Width [mm]	151 mm
Total height [mm]	209 mm
Height from baseplate [mm]	203 mm
Suction connection height [mm]	183 mm

Discharge connection height [mm]	100 mm
Process connection height [mm]	183 mm

### Electrical Specifications

Phase	1
Frequency [Hz]	50/60
Compressor power supply [V/Ph/Hz]	220/1/50 220/1/60
Low value of nominal voltage at 50Hz [V]	208 V
High value of nominal voltage at 50Hz [V]	230 V
Low value of nominal voltage at 60Hz [V]	208 V
High value of nominal voltage at 60Hz [V]	230 V
Low value of voltage range at 50Hz [V]	187 V
High value of voltage range at 50Hz [V]	254 V
Low value of voltage range at 60Hz [V]	187 V
High value of voltage range at 60Hz [V]	254 V
Main winding resistance for single-phase compressors [Ohm]	4.4 Ohm
No. of phases (fan)	1
Auxiliary winding resistance (start winding) for single-phase compressors [Ohm]	14.5 Ohm
No. of phases (compressor)	1
Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm]	14.5 Ohm
Voltage 50Hz [V] [Max]	240 V
Voltage 50Hz [V]	220 V
Voltage 60Hz [V] [Max]	230 V
Voltage 60Hz [V]	208 V
RLA	3.90 A
LRA HST [A]	19.5 A
Cut in current HST [A]	19.5 A

### Mechanical Connections

Process connection diameter [mm]	6.5 mm
Suction connection material	Copper
Suction connection diameter [mm]	8.2 mm
Discharge connection diameter [mm]	6.5 mm
Suction connection angle [°]	37 °
Discharge connection material	Copper
Discharge connection angle [°]	37 °
Process connection material	Copper
Process connection angle [°]	37 °

### Oil Data

# Coolselector2

Oil type		POE
Oil quantity [cm3]		600 cm <sup>3</sup>

## Packaging

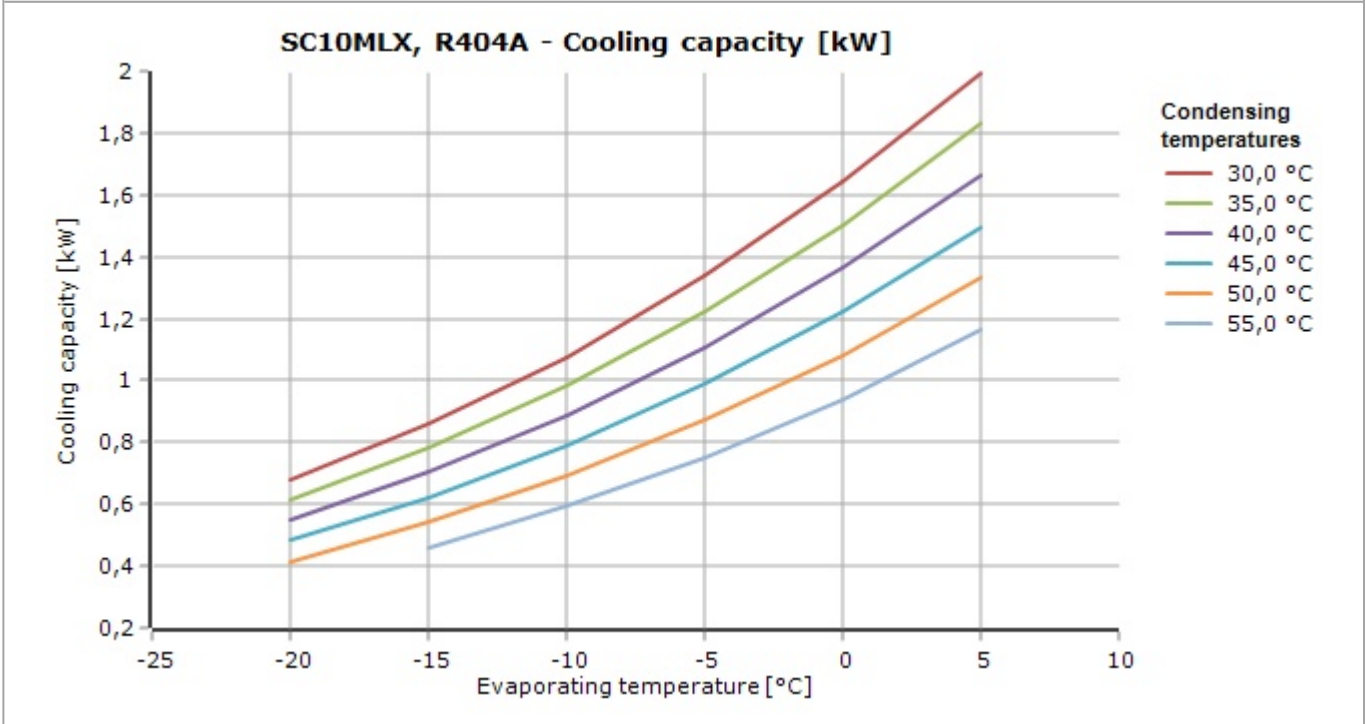
Packing quantity		80
------------------	--	----

## Acoustic power

Sound 1		0 db(A)
Sound 2		0 db(A)

# Coolselector2

## SC10MLX, R404A - Cooling capacity [kW]



## SC10MLX, R404A - Cooling capacity [kW]

Tc\Te	-25,0	-20,0	-15,0	-10,0	-5,0	0	5,0	10,0
25,0	-	-	-	-	-	-	-	-
30,0	-	0,680	0,859	1,077	1,336	1,641	1,995	-
35,0	-	0,616	0,781	0,981	1,221	1,502	1,829	-
40,0	-	0,550	0,702	0,886	1,105	1,363	1,663	-
45,0	-	0,484	0,623	0,789	0,989	1,223	1,498	-
50,0	-	0,417	0,542	0,692	0,871	1,083	1,331	-
55,0	-	-	0,459	0,592	0,752	0,941	1,163	-
60,0	-	-	-	-	-	-	-	-