

Input data

Refrigerant	R449A	
Reference temperature	Dew point temperature	
Calculation mode	Refrigeration / Air Cond.	
Operating mode	Subcritical	
Power supply	400/3/50	
Ambient temperature	°C	32
Liquid subcooling	K	3
Liquid temperature	°C	38,63
Evaporating temperature	°C	-10
Evaporating pressure	bar	3,61
Suction gas superheating	K	10
Useful fraction of superheating	%	100



Output data

Compressor :	LB2-Q420-0Y-2M	
Number of compressors :	FSx1	
Refrigerating capacity	kW	9,429
Condensing temperature (dew point)	°C	45,87
Evaporator capacity	kW	9,429
Power input (with fan)	W	4444
Condenser capacity, theor.	kW	13,614
Current	A	7,77
COP/EER (with fan)	W/W	2,12
Mass flow	kg/h	235
Operating frequency	Hz	50
Connection	-	DOL-STAR
Operating mode	-	100%
Discharge temperature	°C	88,64
Ratio (%)	%	100,0%
Note	-	
Oil flow	l/min	-
Heat Exchanged (oil Cooler)	kW	-
Oil Temp. at Oil Cooler Outlet	°C	-
Certified by	-	Frascold

Compliant with EU Ecodesign Directive 2009/125/EC - Regulation EU 2015/1095.

Certified by:

- Frascold Data



Legend:

- *ref: At conditions according to EN12900
- Suction gas temperature = 20 °C
- Liquid subcooling = 0 K

All data subject to change without notice

Model: LB2-Q420-0Y-2M

Refrigerant: R449A

Power supply: 400/3/50 DOL-STAR

Technical data:

Compressor

Compressor	Q4-20.1Y
Displacement	19,77 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
Maximum allowed operating current (MRA)	10,1 A
Locked rotor current (LRA)	53,2 A
Number of pistons	4
Net weight	74 kg
Lubricant	FRASCOLD POE32
Oil charge	1,6 l
Maximum static pressure LP	20,5 bar
Maximum operating pressure HP	30 bar

Condenser

Volume	2 l
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Fan motor

Number	2
Air flow	5000 m³/h
Power supply	230/1/50
Max power input (x1)	130 W
Max Current (x1)	0,6 A

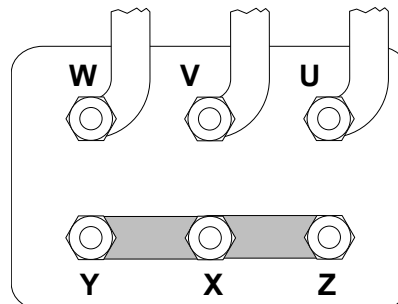
Liquid receiver

Code	USLR04
Volume	3,4 l

Net weight

STANDARD	135 kg
with housing	171 kg

Motor connections:



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