



Selection: Condensing Units

Input Values

Unit type	(LHV6/2DC-3.F1Y)	Useful superheat	100%
Series	ECOSTAR	Operating mode	Economy
Refrigerant	R404A	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Frequency compressor	80,0 Hz
Suction gas temperature	20,00 °C		

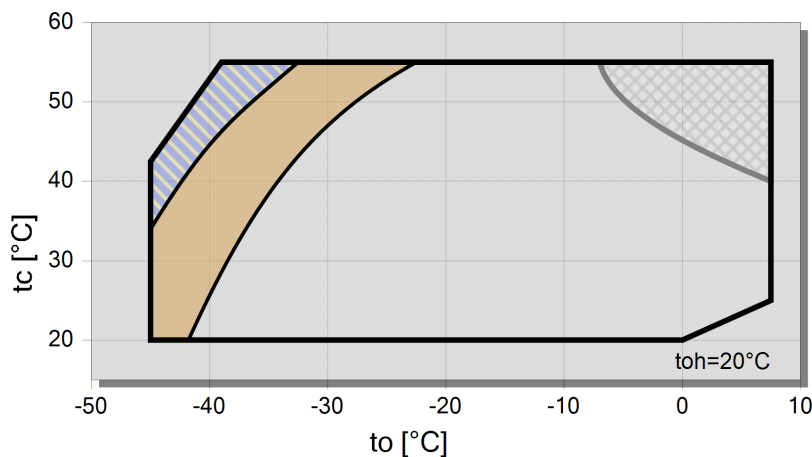
Result

Q [W]	Cooling capacity	Op.	Operating mode
P [kW]	Power input	tc [°C]	Condensing SDT
I [A]	Current	dctu [K]	subcooling
m [kg/h]	Mass flow		

tamb	to	0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C
20°C	Q [W]	19054	16248	13651	11291	9202	7379	5804	4457
	P [kW]	5,27	4,95	4,64	4,31	3,96	3,58	3,18	2,75
	I [A]	8,59	8,12	7,65	7,17	6,64	6,07	5,44	4,76
	m [kg/h]	482	399	328	267	215	170,3	132,7	101,1
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	32,6	31,0	29,8	28,9	28,3	27,7	27,3	26,8
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	2,98
30°C	Q [W]	16402	13944	11651	9586	7760	6166	4787	3604
	P [kW]	6,11	5,67	5,23	4,77	4,29	3,78	3,26	2,73
	I [A]	9,80	9,16	8,53	7,85	7,14	6,37	5,57	4,73
	m [kg/h]	462	381	311	252	201	157,8	121,2	90,5
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	41,6	40,2	39,3	38,6	38,0	37,5	37,0	36,6
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	2,95
40°C	Q [W]	13780	11695	9729	7949	6373	4995	3800	2778
	P [kW]	6,82	6,25	5,68	5,10	4,49	3,87	3,24	2,61
	I [A]	10,84	10,01	9,19	8,34	7,44	6,50	5,53	4,54
	m [kg/h]	442	362	294	236	186,0	143,9	108,3	78,4
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	50,6	49,4	48,5	47,9	47,4	47,0	46,6	46,1
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	2,94	2,89

-- No calculation possible (see message in single point selection)

Application Limits



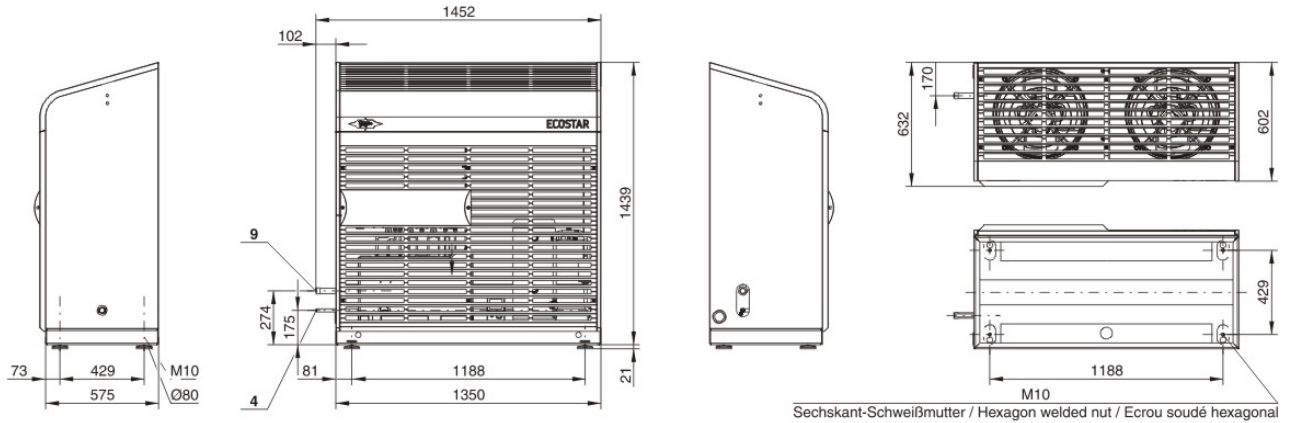
Legend

- additional cooling & suction gas superheat $\leq 20K$
- additional cooling or suction gas superheat $\leq 20K$
- application limits of individual compressors depend on max. power consumption of frequency inverter
- A



Technical Data: (LHV6/2DC-3.F1Y)

Dimensions and Connections



Technical Data

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Weight	270 kg
Total width	1365 mm
Total depth	632 mm
Total height	1360 mm
Connection suction line	22 mm - 7/8"
Connection liquid line	12 mm - 1/2"
Air flow condenser 50Hz	8400 m ³ /h
Coil Volume	10,9 dm ³

Extent of delivery (Standard)

Discharge gas line	
Weather protective housing	Standard
Fans: elect. Speed regulator	Standard
Fans: Number	2
Protective charge	
high pressure switch	Standard
Dressed unit	Standard

Available Options

Sound measurement

Sound pressure in 10m (to=-10°C, tamb=32°C) R404A

Economy	44 dB(A) @ 50Hz
Low sound	41 dB(A) @ 50Hz

Data of compressors: see compressor program

Max. refrigerant charge 90% at 20°C / 68°F

Receiver type (Standard)	FS128
R22	14,2 kg
R134a	14,3 kg
R407C	13,6 kg
R404A/R507A	12,5 kg



Condensing Units

Motor 1 = e.g. LH..E/4TES-12 with 12"HP", primary for air-conditioning (e.g. R22,R407C) and medium temperature application (e.g. R134a, R407F, R407A, R404A, R507A, R22) and air-conditioning with R134a at high ambient temperatures.

Motor 2 = e.g. LH..E/4TES-9 with 8"HP", for medium and low temperature application (e.g. R134a, R407F, R407A, R404A, R507A, R22) and air-conditioning with R134a.

For more information concerning the application range use the "limits" button.

Operation modes for LH..E/4VES-7 to LH../6HE-28 with R22

CIC = liquid injection with low temperature application, suction gas cooled motor

Specifications for sound emission

The data are based on 50Hz operation.

Soundpressure: Data are valid for free field conditions with a block-shaped reference area in a distance of 10m.

For further information see technical information for sound data.

Legend of connection positions according to "Dimensions":

- 1 Suction gas valve
- 2 Discharge gas line
- 3 Condensate line
- 4 Refrigerant outlet (liquid line)
- 5 Pressure relief valve connection
- 6 Liquid injection (operation without liquid subcooler and with thermostatic expansion valve)
- 7 Refrigerant inlet at liquid subcooler
- 8 Refrigerant outlet at liquid subcooler
- 9 Suction gas line
- 10 Sight glass
- 11 Load suspension points
- 12 Plug for screwed cable gland
- 13 Cable bushing (for cables \varnothing 9-17 mm) (only ECOLITE)

Dimensions can show tolerances according to EN ISO 13920-B.