



BITZER Output data

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Project survey

Selected compressors

Condensing Units

1x LH84E/4CES-6Y



Selection: Condensing Units

Input Values

Unit type	LH84E/4CES-6Y	Useful superheat	100%
Series	Standard	Operating mode	Auto
Refrigerant	R449A	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Capacity control	100%
Suction gas temperature	20,00 °C		

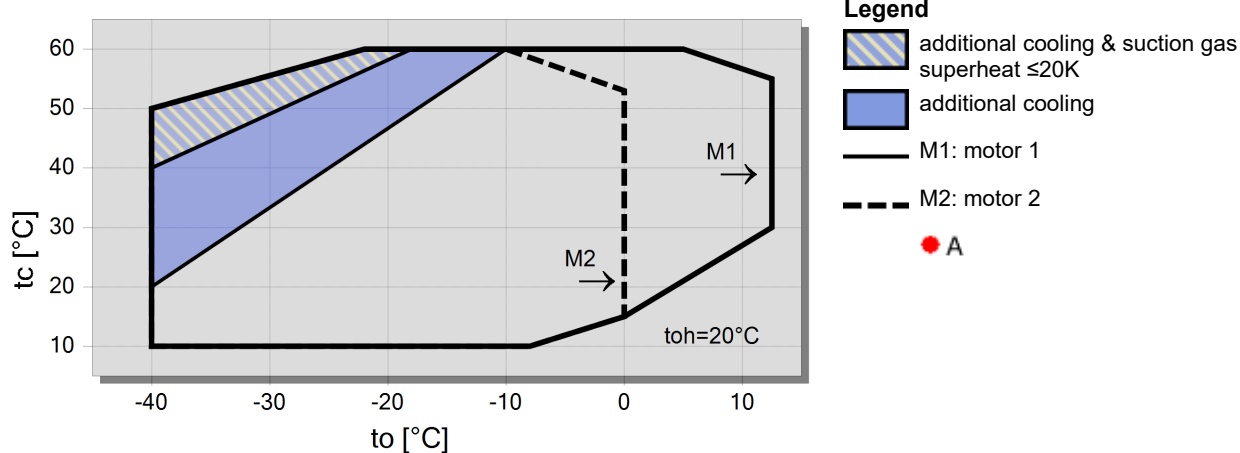
Result

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

tamb	to	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C
27°C	Q [W]	--	--	--	18518	15660	13032	10655	8535
	P [kW]	--	--	--	8,28	7,34	6,47	5,66	4,91
	I [A]	--	--	--	13,58	12,22	11,01	9,93	9,00
	m [kg/h]	--	--	--	441	356	285	226	176,0
	Op.	--	--	--	Standard	Standard	Standard	Standard	Standard
	tc [°C]	--	--	--	51,1	47,9	45,0	42,4	40,0
	dtau [K]	--	--	--	3,00	3,00	3,00	3,00	3,00
32°C	Q [W]	--	--	--	--	14543	12077	9843	7853
	P [kW]	--	--	--	--	7,59	6,66	5,80	5,00
	I [A]	--	--	--	--	12,57	11,27	10,11	9,11
	m [kg/h]	--	--	--	--	347	277	218	169,2
	Op.	--	--	--	--	Standard	Standard	Standard	Standard
	tc [°C]	--	--	--	--	52,1	49,3	46,8	44,5
	dtau [K]	--	--	--	--	3,00	3,00	3,00	3,00
43°C	Q [W]	--	--	--	--	--	9993	8094	6398
	P [kW]	--	--	--	--	--	6,99	6,03	5,13
	I [A]	--	--	--	--	--	11,73	10,41	9,27
	m [kg/h]	--	--	--	--	--	258	201	153,7
	Op.	--	--	--	--	--	Standard	Standard	Standard
	tc [°C]	--	--	--	--	--	58,8	56,5	54,4
	dtau [K]	--	--	--	--	--	3,00	3,00	3,00

-- No calculation possible (see message in single point selection)
Power input compressor, power input fan see "T. Data"

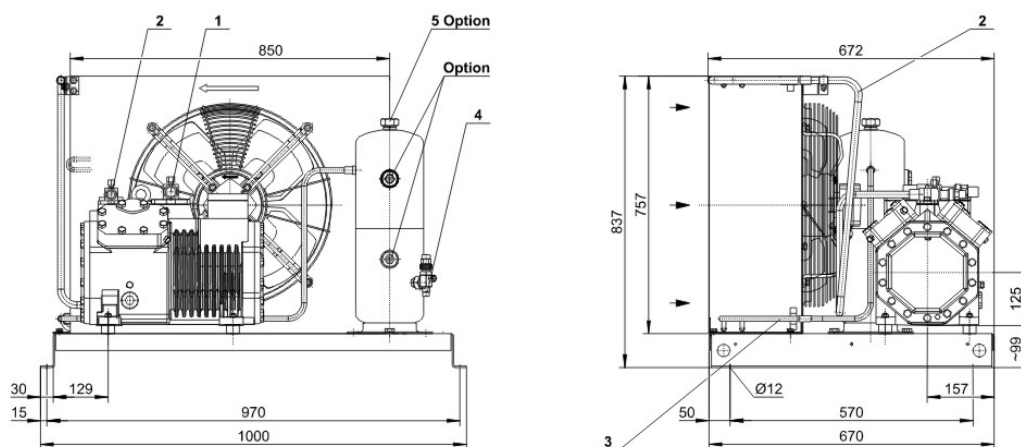
Application Limits 1 LH84E/4CES-6





Technical Data: LH84E/4CES-6Y

Dimensions and Connections



Technical Data

Technical Data

Weight	147 kg
Total width	1000 mm
Total depth	672 mm
Total height	837 mm
Connection suction line	28 mm - 1 1/8"
Connection liquid line	12 mm - 1/2"
Fans: Number	1xEC
Voltage (50Hz, more on request)	230V-1-50Hz (Standard)
Current / Power consumption of each fan (50Hz)	1,5 A / 330 W
Air flow condenser 50Hz	4600 m³/h
Voltage (60Hz, more on request)	230V-1-60Hz (Standard)
Current / Power consumption of each fan (60Hz)	1,7 A / 340 W
Air flow condenser 60Hz	4600 m³/h
Coil Volume	2,23 dm³
Receiver type (Standard)	FS126
Max. refrigerant charge 90% at 20°C / 68°F	
R22	14,2 kg
R134a	14,3 kg
R407C	13,6 kg
R404A/R507A	12,5 kg
R407A	13,7 kg
R407F	13,3 kg
R448A	13 kg
R449A	13,1 kg
R450A	14 kg
R513A	14,3 kg
R1234yf	13 kg
R1234ze	13,8 kg
Receiver type (Option)	FS202
R22	21,8 kg
R134a	22,1 kg
R407C	20,9 kg
R404A/R507A	19,2 kg

Extent of delivery (Standard)

Discharge line	Standard
Protective charge	Standard

Available Options

Oil separator	Option
Check valve	Option
High & low pressure switch	Option
Dressed unit	Option
Weather protective housing	Option
Fans: elect. Speed control	Option

Sound measurement

Data of compressors: see compressor program



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 Ecostar

The data are based on 50 Hz operation with R404A.

Soundpressure: Data are valid for free field conditions according to EN13487 with a block-shaped reference area in a distance of 10m.

For further informations 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.