



BITZER Output data

Created on : 06.01.2020 12:13:58



Table of content

Project survey.....	3
Selection: Condensing Units.....	4
Technical Data: LH32E/2KES-05Y.....	5
Information: Condensing Units.....	6



Project survey

Selected compressors

Condensing Units

1x LH32E/2KES-05Y



Selection: Condensing Units

Input Values

Unit type	LH32E/2KES-05Y	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		

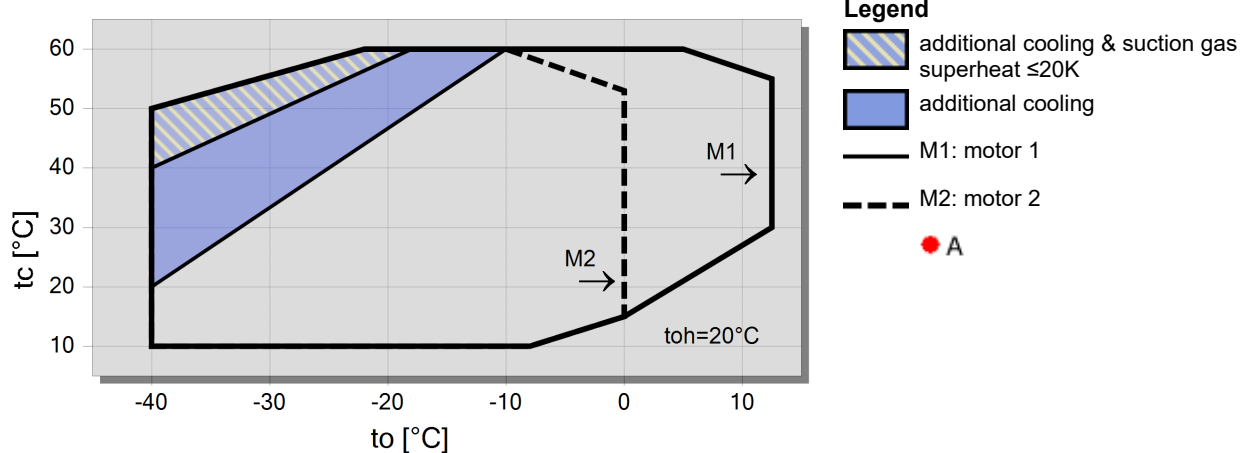
Result

Q [W]	Cooling capacity	Op.	Operating mode
P [kW]	Power input	tc [°C]	Condensing SDT
I [A]	Current	dtcu [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]	4136	3524	2962	2453	1997	1593	1241	937
	P [kW]	1,16	1,11	1,04	0,97	0,90	0,82	0,74	0,66
	I [A]	2,01	1,94	1,88	1,80	1,73	1,65	1,58	1,51
	m [kg/h]	95,1	78,1	63,7	51,3	40,8	32,0	24,5	18,22
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	44,7	42,5	40,6	38,8	37,2	35,8	34,5	33,4
	dtcu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	2,93
32°C	Q [W]	3817	3247	2725	2251	1826	1451	1124	841
	P [kW]	1,23	1,16	1,08	1,00	0,92	0,83	0,74	0,65
	I [A]	2,09	2,00	1,92	1,83	1,75	1,66	1,58	1,50
	m [kg/h]	91,8	75,3	61,2	49,2	39,0	30,4	23,1	17,06
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	48,7	46,7	44,9	43,2	41,7	40,4	39,2	38,1
	dtcu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	2,89
43°C	Q [W]	--	2644	2202	1801	1441	1124	846	608
	P [kW]	--	1,27	1,16	1,06	0,95	0,84	0,74	0,63
	I [A]	--	2,13	2,01	1,89	1,78	1,67	1,57	1,48
	m [kg/h]	--	68,6	55,2	43,8	34,2	26,1	19,31	13,67
	Op.	--	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	--	56,1	54,5	53,0	51,7	50,4	49,3	48,4
	dtcu [K]	--	3,00	3,00	3,00	3,00	3,00	2,92	2,80

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

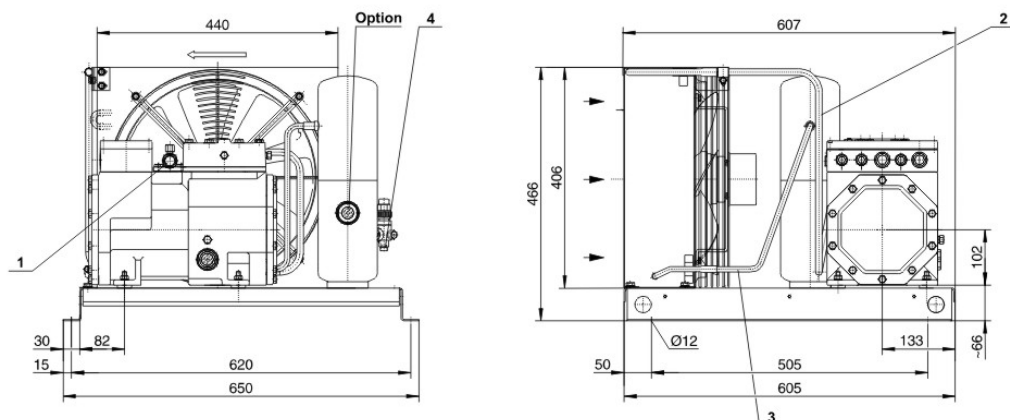
Application Limits 1 LH32E/2KES-05





Technical Data: LH32E/2KES-05Y

Dimensions and Connections



Technical Data

Technical Data

Weight	71 kg
Total width	650 mm
Total depth	607 mm
Total height	466 mm
Connection suction line	16 mm - 5/8"
Connection liquid line	10 mm - 3/8"
Fans: Number	1xEC
Voltage (50Hz, more on request)	230V-1-50Hz (Standard)
Current / Power consumption of each fan (50Hz)	1,4 A / 160 W
Air flow condenser 50Hz	1650 m³/h
Voltage (60Hz, more on request)	230V-1-60Hz (Standard)
Current / Power consumption of each fan (60Hz)	1,35 A / 135 W
Air flow condenser 60Hz	1550 m³/h
Coil Volume	0,4 dm³
Receiver type (Standard)	FS36
Max. refrigerant charge 90% at 20°C / 68°F	
R22	3,3 kg
R134a	3,3 kg
R407C	3,1 kg
R404A/R507A	2,9 kg
R407A	3,2 kg
R407F	3,1 kg
R448A	3 kg
R449A	3 kg
R450A	3,2 kg
R513A	3,3 kg
R1234yf	3,0 kg
R1234ze	3,1 kg
Receiver type (Option)	FS056
R22	6,1 kg
R134a	6,2 kg
R407C	5,8 kg
R404A/R507A	5,4 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.