



### Selection: Condensing Units

#### Input Values

Unit type	(LHV6/4DC-5.F1Y)	Useful superheat	7,00 K
Series	ECOSTAR	Operating mode	Economy
Refrigerant	R134a	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Frequency compressor	80,0 Hz
Suct. gas superheat	10,00 K		

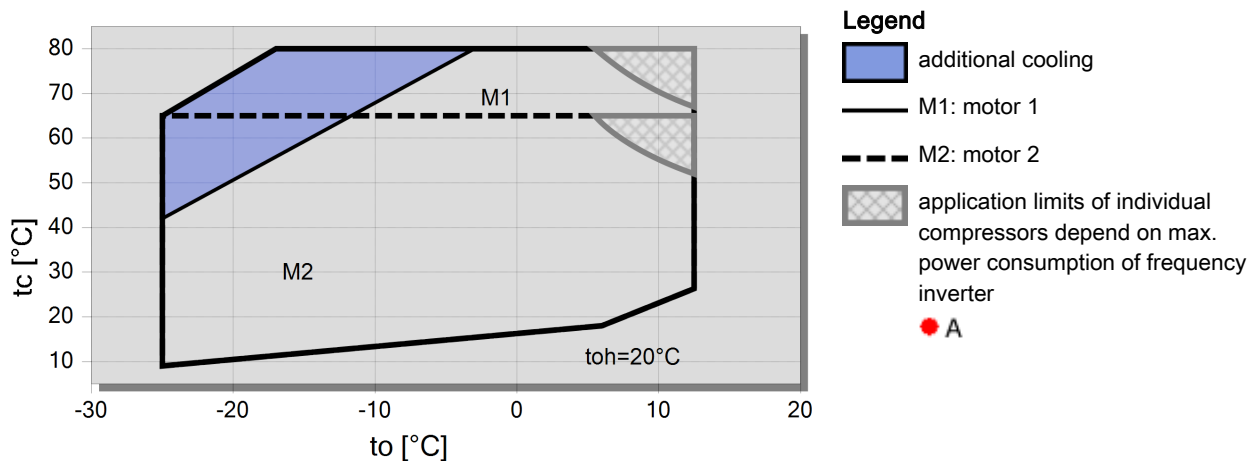
#### Result

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	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C
20°C	Q [W]	34020	28709	23938	19519	15655	12338	9514	7132
	P [kW]	7,00	6,47	5,95	5,50	5,05	4,56	4,04	3,48
	I [A]	11,10	10,32	9,58	8,93	8,26	7,55	6,76	5,91
	m [kg/h]	724	611	511	422	343	275	215	164,0
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	34,7	32,6	30,8	29,8	29,2	28,7	28,2	27,7
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00
30°C	Q [W]	30296	25453	21032	17004	13514	10528	7995	5864
	P [kW]	8,01	7,39	6,80	6,23	5,64	5,01	4,35	3,64
	I [A]	12,57	11,66	10,80	9,99	9,13	8,21	7,22	6,15
	m [kg/h]	701	589	490	402	325	257	198,7	148,4
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	43,7	41,8	40,3	39,6	39,0	38,5	38,0	37,5
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00
40°C	Q [W]	26681	22293	18326	14690	11546	8868	6608	4724
	P [kW]	8,95	8,23	7,52	6,83	6,10	5,33	4,52	3,67
	I [A]	13,95	12,88	11,84	10,85	9,80	8,68	7,49	6,21
	m [kg/h]	678	567	470	382	306	240	182,1	132,9
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	tc [°C]	52,8	50,9	49,5	48,8	48,3	47,9	47,5	47,0
	dctu [K]	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00

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

### Application Limits LHV6/4DC-5.F1



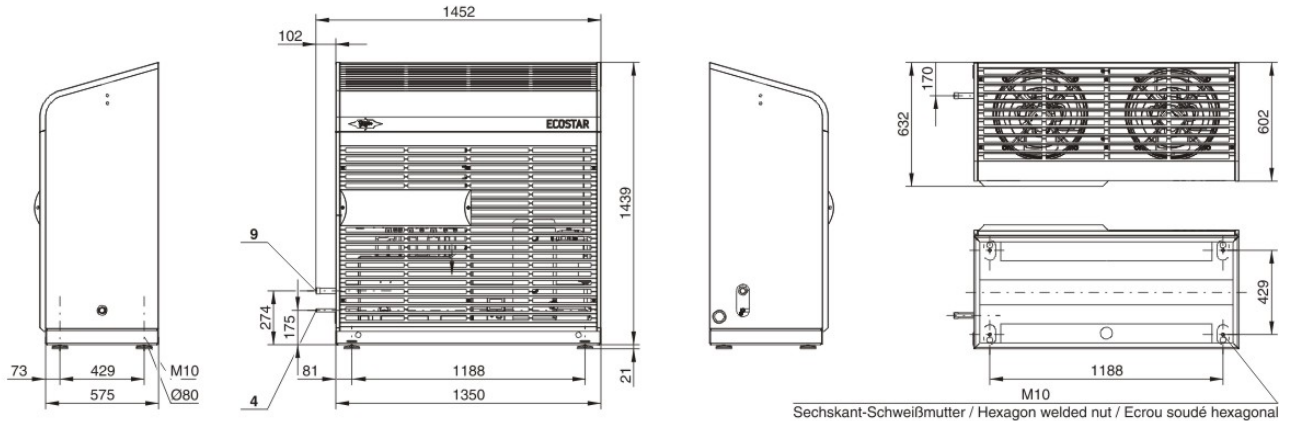
#### Legend

- additional cooling
- M1: motor 1
- M2: motor 2
- application limits of individual compressors depend on max. power consumption of frequency inverter
- A



## Technical Data: (LHV6/4DC-5.F1Y)

### Dimensions and Connections



### Technical Data

#### Technical Data

Weight	303 kg
Total width	1365 mm
Total depth	632 mm
Total height	1360 mm
Connection suction line	35 mm - 1 3/8"
Connection liquid line	22 mm - 7/8"
Air flow condenser 50Hz	10000 m <sup>3</sup> /h
Coil Volume	2,76 dm <sup>3</sup>

#### 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

Oil level monitoring	OLC-K1 (Option)
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#### Sound measurement

Data of compressors: see compressor program

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

Receiver type (Standard)	FS268
R134a	28,7 kg
R407C	27,3 kg
R404A/R507A	25,0 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.