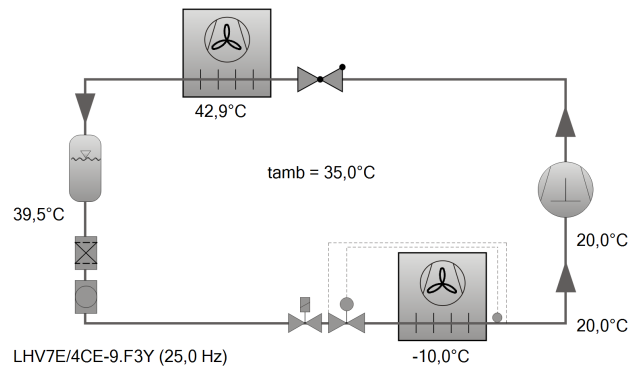




Selection: Condensing Units

Input Values

Unit type	LHV7E/4CE-9.F3Y
Series	ECOSTAR
Refrigerant	R404A
Reference temperature	Dew point temp.
Evaporating SST	-10,00 °C
Ambient temp.	35,0 °C
Suction gas temperature	20,00 °C
Useful superheat	100%
Operating mode	Economy
Power supply	400V-3-50Hz



Result

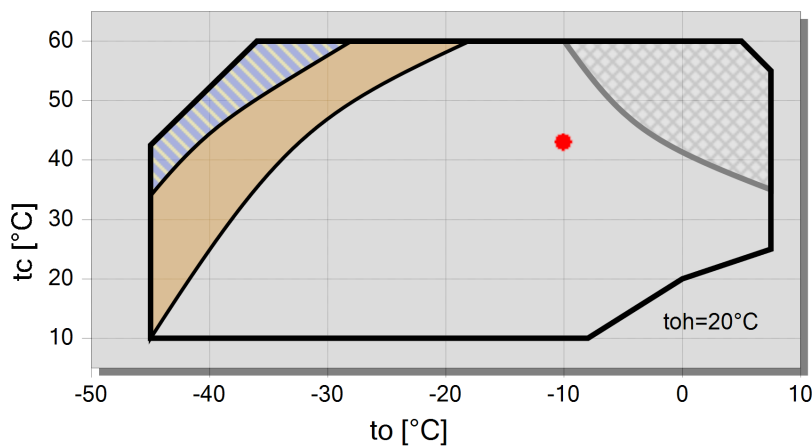
Unit type	LHV7E/4CE-9.F3Y-40S
Frequency compressor	25,0 Hz
Cooling capacity	8,56 kW
Evaporator capacity	8,56 kW
Power input	4,00 kW
Current (400V)	8,38 A
Mass flow	239 kg/h
Condensing SDT	42,9 °C
Liquid subcooling	3,00 K
Fan power absorbed	0,21 kW
min. cooling capacity	8,56 kW (25 Hz)
max. cooling capacity	23,7 kW (87 Hz)

According to EU Regulation 517/2014, the refrigerants R404A and R507A are subject to special restrictions of use Tentative Data.

Estimated calculation

Power input including fan power absorption

Application Limits LHV7E/4CE-9.F3



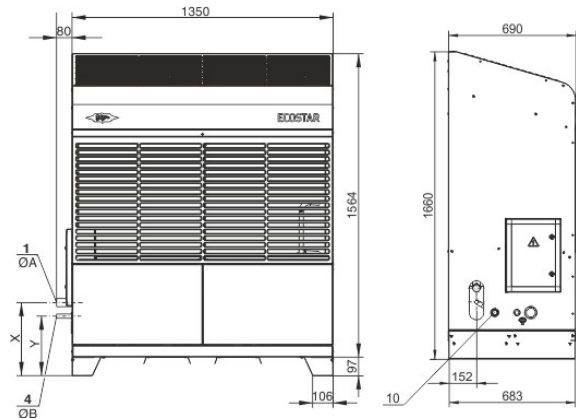
Legend

- RI-system & suction gas superheat ≤20K
- RI-system or suction gas superheat ≤20K
- application limits of individual compressors depend on max. power consumption of frequency inverter
- A



Technical Data: LHV7E/4CE-9.F3Y

Dimensions and Connections



Ansicht von unten / bottom view / vue de dessous

Typ Type Type	OA		OB		X	Y
	mm	inch	mm	inch		
LHV5E/2DES-3.F1Y	22	7/8	16	5/8	372	310
LHV5E/4FE-5.F1Y	28	1 1/8	16	5/8	375	310
LHV5E/4EE-6.F1Y	28	1 1/8	16	5/8	375	310
LHV7E/4FE-5.F1Y	28	1 1/8	16	5/8	375	310
LHV7E/4EE-6.F1Y	28	1 1/8	16	5/8	375	310
LHV7E/4DE-5.F1Y	35	1 3/8	22	7/8	383	308
LHV7E/4CE-6.F1Y	35	1 3/8	22	7/8	383	308
LHV7E/4DE-7.F3Y	35	1 3/8	22	7/8	383	308
LHV7E/4CE-9.F3Y	35	1 3/8	22	7/8	383	308
LHV7E/4VE-7.F3Y	42	1 5/8	22	7/8	383	308
LHV7E/4TE-9.F3Y	42	1 5/8	22	7/8	383	308
LHV7E/4PE-12.F3Y	42	1 5/8	22	7/8	383	308
LHV7E/4NE-14.F3Y	42	1 5/8	22	7/8	383	308

Technical Data

Technical Data

Weight	330 kg
Total width	1430 mm
Total depth	696 mm
Total height	1661 mm
Connection suction line	35 mm - 1 3/8"
Connection liquid line	22 mm - 7/8"
Fans: Number	2xEC
Air flow condenser 50Hz	10400 m ³ /h
Coil Volume	2,8 dm ³
Receiver type (Standard)	F212N3
Max. refrigerant charge 90% at 20°C / 68°F	
R22	22,9 kg
R134a	23,2 kg
R407C	21,9 kg
R404A/R507A	20,2 kg
R407A	22,1 kg
R407F	21,5 kg
R448A	21 kg
R449A	21,1 kg
R450A	22,5 kg
R513A	23,1 kg

Extent of delivery (Standard)

High & low pressure switch	Standard
Dressed unit	Standard
Weather protective housing	Standard
Fans: elect. Speed control	Standard
Protective charge	
Discharge gas temperature sensor	Standard
suction gas temperature sensor	Standard
Filter Drier	Standard
data logging	Standard

Available Options

RI System	Option
Oil level monitoring	Delta-PII
room temperature sensor	Option
external display LUP200	Option
Oil separator with check valve	Option
check valve for liquid line (additional pressure relief valve according to EN 378 required)	Option

Sound measurement

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

Economy
Low sound

47.5 dB(A) @ 80Hz R134a
45 dB(A) @ 80Hz R134a



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.