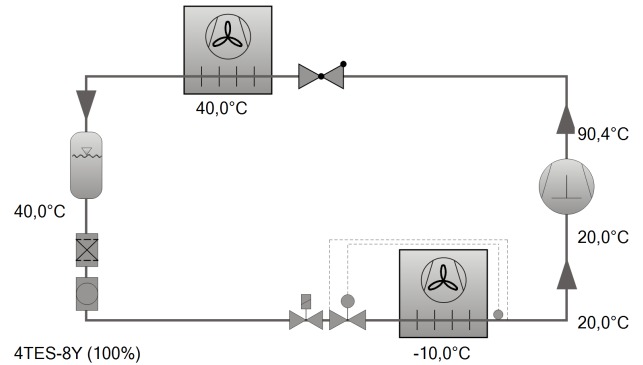




Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model	4TES-8Y
Mode	Refrigeration and air conditioning
Refrigerant	R134a
Reference temperature	Dew point temp.
Evaporating SST	-10,00 °C
Condensing SDT	40,0 °C
Liq. subc. (in condenser)	0 K
Suction gas temperature	20,00 °C
Operating mode	Auto
Power supply	400V-3-50Hz
Capacity control	100%
Useful superheat	100%



Result

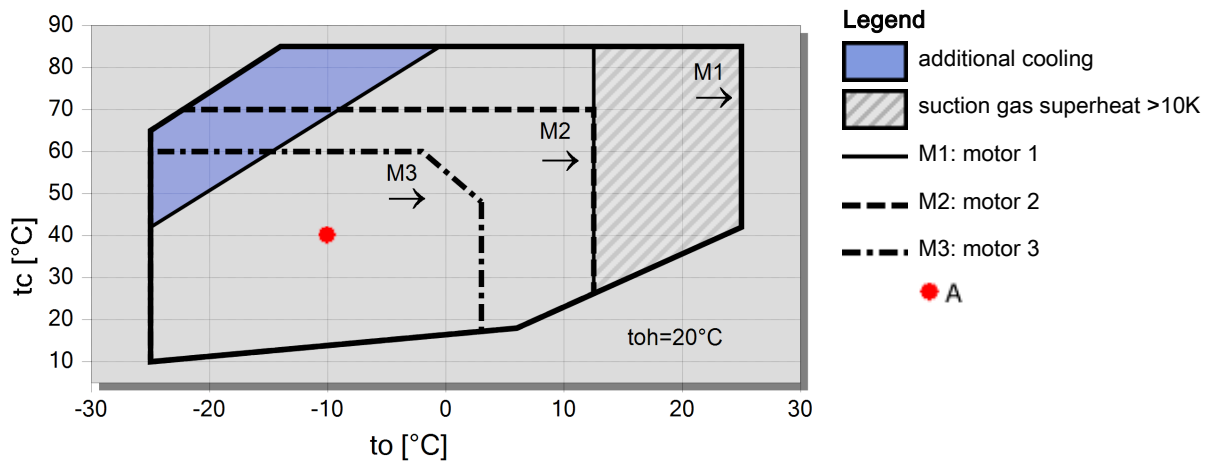
Compressor	4TES-8Y-40P
Capacity steps	100%
Cooling capacity	13,42 kW
Cooling capacity *	13,42 kW
Evaporator capacity	13,42 kW
Power input	4,68 kW
Current (400V)	8,99 A
Voltage range	380-420V
Condenser capacity	18,10 kW
COP/EER	2,87
COP/EER *	2,87
Mass flow	299 kg/h
Operating mode	Standard
Discharge gas temp. w/o cooling	90,4 °C

Tentative Data.

Please consider design current for 70 Hz operation when using a frequency inverter! See also KP-100.

*According to EN12900 (20°C suction gas temp., 0K liquid subcooling)

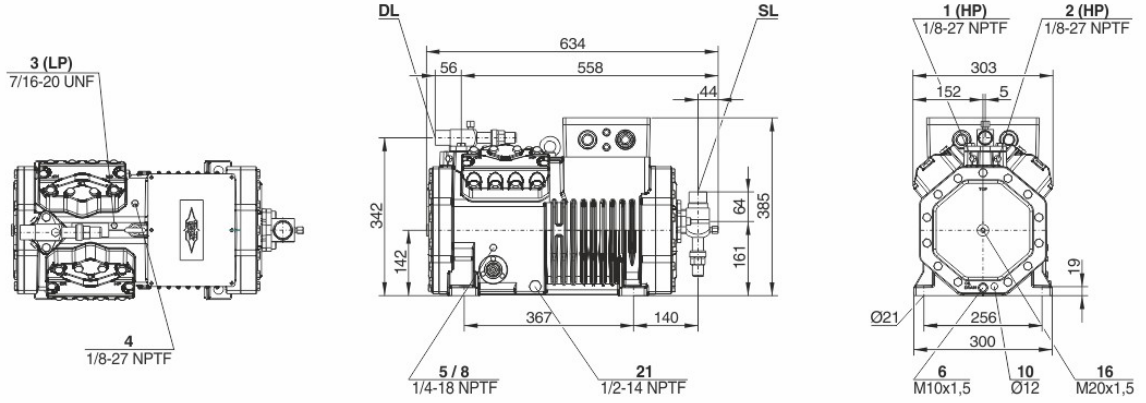
Application Limits 100% 4TES-8





Technical Data: 4TES-8Y

Dimensions and Connections





Technical Data

Technical Data

Displacement (1450rpm 50Hz)	41,33 m ³ /h
Displacement (1750rpm 60Hz)	49,88 m ³ /h
Frequency range	25..70 Hz
No. of cylinder x bore x stroke	4 x 60 mm x 42 mm
Weight	143 kg
Max. pressure (LP/HP)	19 / 32 bar
Connection suction line	35 mm - 1 3/8"
Connection discharge line	28 mm - 1 1/8"
Oil type R134a/R407C/R404A/R507A/R407A/R407F	BSE32(Standard) R134a tc>70°C: BSE55 (Option)
Oil type R1234yf	BSE32 (Standard) R1234yf tc>70°C : BSE55 (Option)
Oil type R1234ze	BSE55 (Standard) to>15°C: BSE85K (Option) tc>70°C: BSE85K (Option)
Oil type R454C/R455A	BSE32 (Standard)

Motor data

Motor version	3
Motor voltage (more on request)	380-420V PW-3-50Hz
Max. operating current	12.1 A
Max. operating current 70Hz/400V/FI	17,6 A
Winding ratio	50/50
Starting current (Rotor locked)	49.0 A Y / 81.0 A YY
Max. power input	7,0 kW

Extent of delivery (standard)

Motor protection	SE-B3 (Option), SE-B2 (Option), CM-RC-02 (Standard)
Enclosure class	IP66
Vibration dampers	Standard
Oil charge	2,60 dm ³
Discharge shut-off valve	Standard
Suction shut-off valve	Standard

Available options

Discharge gas temperature sensor	Option
Start unloading	Option
Capacity control	100-50% (Option)
Capacity Control - infinite	100-10% (Option)
Additional fan	Option
Oil service valve	Option
Oil heater	0..140 W PTC (Option)
Oil level monitoring	OLC-K1 (Option)

Sound measurement

Sound power level (-10°C / 45°C)	72,3 dB(A) @50Hz
Sound pressure level @ 1m (-10°C / 45°C)	64,3 dB(A) @50Hz