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Selection: Compact Screw Compressors CS // CSV

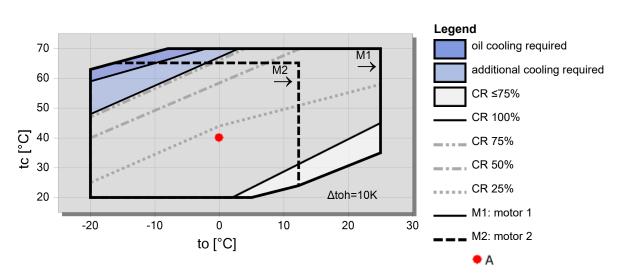
Input Values

Compressor model Refrigerant Reference temperature Evaporating SST Condensing SDT Liq. subc. (in condenser) Suct. gas superheat Useful superheat Operating mode Power supply Capacity control Additional cooling	CSH6563-40Y R134a Dew point temp. 0 °C 40,0 °C 0 K 10,00 K 100% Standard 400V-3-50Hz 100% Automatic	40,0°C 40,0°C 40,0°C CSH6563-40Y (100%) 0,0°C
Additional cooling Max. discharge gas temp.	Automatic 110,0 °C	CSH6563-40Y (100%) 0,0°C

Result

Compressor	CSH6563-40Y-40P
Capacity steps	100%
Cooling capacity	88,3 kW
Cooling capacity *	88,3 kW
Evaporator capacity	88,3 kW
Power input	23,5 kW
Current (400V)	42,4 A
Voltage range	380-415V
Condenser capacity	111,8 kW
COP/EER	3,76
COP/EER *	3,76
Mass flow LP	2113 kg/h
Mass flow HP	2113 kg/h
Operating mode	Standard
Liquid temp.	40,0 °C
Oil volume flow	0,40 m³/h
Cooling method	
Discharge gas temp. w/o cooling	65,0 °C

*According to EN12900 (10K suction gas superheat, 0K liquid subcooling, see tech. data/ notes)



Application Limits Standard CSH6563-40

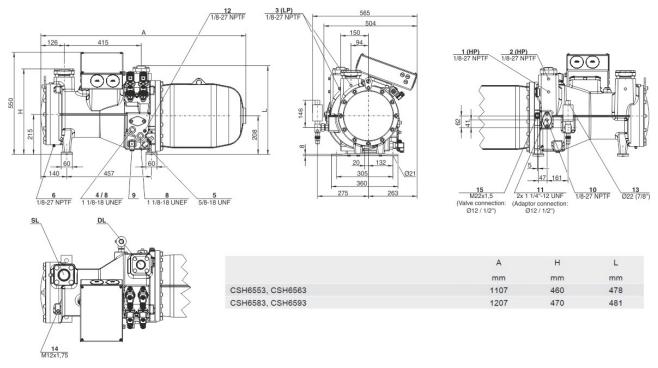


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Technical Data: CSH6563-40Y

Dimensions and Connections





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Technical Data

Technical Data	
Displacement (2900 RPM 50 Hz)	170 m³/h
Displacement (3500 RPM 60 Hz)	205 m³/h
Weight	317 kg
Max. pressure (LP/HP)	19 / 28 bar
Connection suction line	54 mm - 2 1/8"
Connection discharge line	42 mm - 1 5/8"
Oil type R1234yf/R1234ze(E)/R450A/R513A/R515B	BSE170 (Standard)
Oil type R134a/R407C/R404A/R507A/R407A/R407F	BSE170 (Standard)
Motor data	
Motor version	2
Motor voltage (more on request)	380-415V PW-3-50Hz
Max operating current	66.0 A
Winding ratio	50/50
Starting current (Rotor locked)	182.0 A D / 338.0 A DD
Max. Power input	41,0 kW
Extent of delivery (Standard)	
Enclosure class	IP54
Oil heater	200 W (Standard)
Oil separator	Standard
Oil filter	Standard
Discharge gas temperature sensor	Standard
Start unloading	Standard
Capacity Control - 4-step	100-75-50-25% (Standard)
Capacity Control - infinite	100-25% (Standard)
Built-in check valve	Standard
Motor protection	SE-E1 (Standard), SE-E3(Standard for 660-690V)
Oil charge	8,5 dm ³
Available Options	
Oil level switch	min / max OLC-D1-S (Option)
Discharge shut-off valve	Option
Suction shut-off valve	Option
Shut-off valve for ECO with muffler	Option
Liquid injection with integrated nozzle	Option
Bridges for DOL start	Option
with sound jacket	Option
Vibration dampers	Option
Motor protection	SE-i1 (200-690V)



Compact Screw Compressors CS

Reference points for evaporating and condensing pressures

Connection positions 1 (HP) and 3 (LP) on the compressor (see dimensions). The pressure drop for shut-off valves and check valves has not been taken into consideration. This is the worldwide state of the art for compact screws, as in factory-produced chillers shut-off valves are often omitted and the check valve can also be arranged as an external com-ponent in the discharge line. For the sake of the international comparability of performance data, this standard has been adopted for the screw compressors of the CSH/CSW/CSVH series.

ASERCOM certified performance data

The Association of European Refrigeration Component Manufacturers has implemented a procedure of certifying performance data. The high standard of these certifications is assured by:

- * plausibility tests of the data performed by experts.
- * regular measurements at independent institutes.

These high efforts result in the fact that only a limited number of compressors can be submitted. Due to this not all BITZER compressors are certified up to now.Performance data of compressors which fulfil the strict requirements may carry the label "ASERCOM certified". In this software you will find the label at the respective compressors on the right side below the field "result" or in the print out of the performance data. All certified compressors and further information are listed on the homepage of ASERCOM.