

BITZER Software v6.17.8 rev2725

COP [-]

mLP [kg/h]

mHP [kg/h]

pm [bar(a)]

mLP [kg/h]

mHP [kg/h]

Qac [kW]

Qsc [kW]

tcu [°C] pm [bar(a)]

Qsc [kW]

Q [W] P [kW]

I [A] COP [-]

50°C

Qac [kW]

tcu [°C]

11/08/1401 / All data subject to change.

Selection: Compact Screw Compressors CS // CSV

Input Values

Compressor model Refrigerant Reference temperature Liq. subc. (in condenser) Suct. gas superheat Useful superheat			CSH6563-60 R22 Dew point temp. 0 K 10/00 K 100%		Operating mode Power supply Capacity control Additional cooling Max. discharge gas temp.			Standard 400V-3-50Hz 100% Automatic 110/0 °C	
Result									
Q [W] P [kW] I [A] COP [-] mLP [kg/h]	P [kW] Power input I [A] Current COP [-] COP/EER				mHP [kg/h] Qac [kW] tcu [°C] pm [bar(a)] Qsc [kW]		Mass flow HP Additional cooling Liquid temp. ECO pressure sub cooler capacity (ECO)	
tc	to	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C
30°C	Q [W] P [kW] I [A] COP [-] mLP [kg/h] MHP [kg/h] Qac [kW] tcu [°C] pm [bar(a)] Qsc [kW]		175074 31/4 57/3 5/57 3537 3537 30/0 	147254 31/3 57/1 4/71 3009 3009 30/0 	122781 30/3 55/8 4/06 2538 2538 30/0 	10131 ⁻ 28/7 53/8 3/53 2120 2120 30/0 	7 82546 27/1 51/7 3/05 1750 1750 30/0 	66172 25/7 50/0 2/58 1421 1421 30/0 	51909 24/9 49/1 2/08 1131 1131 30/0
40°C	Q [W] P [kW] I [A]	185881 38/4 66/6	156642 37/9 66/0	130881 36/8 64/5	108264 35/2 62/3	88481 33/4 59/9	71246 31/8 57/8	56289 30/6 56/3	43358 30/2 55/7

3/08

2418

2418

40/0

94243

42/0

71/6

2/25

2298

2298

50/0

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2/65

2003

2003

40/0

76106

40/1

69/0

1/90

1883

1883

50/0

2/24

1635

1635

40/0

60386

38/7

67/0

1/56

1517

1623

6/50

50/0

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1/84

1311

1311

40/0

46833

37/7

65/7

1/24

1195

1386

11/62

50/0

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1/44

1025

1119

6/19

40/0

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

4/85

4004

4004

40/0

165940

48/6

81/0

3/42

3889

3889

50/0

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

4/13

3413

3413

40/0

138860

46/3

77/7

3/00

3296

3296

50/0

3/56

2887

2887

40/0

115065

44/1

74/5

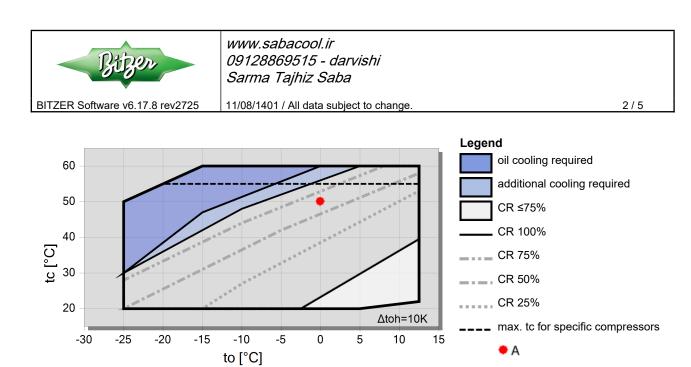
2/61

2767

2767

50/0

Application Limits Standard CSH6563-60



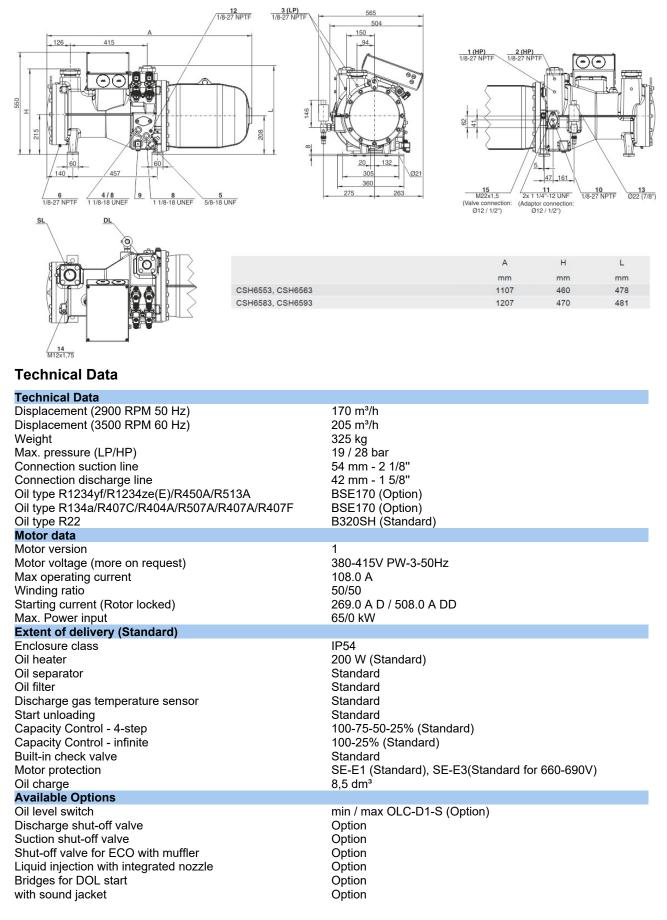


11/08/1401 / All data subject to change.

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Technical Data: CSH6563-60

Dimensions and Connections





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Vibration dampers Motor protection Option SE-i1 (200-690V)



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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.

Legend of connection positions according to "Dimensions":

1 High pressure connection (HP) 2 Additional high pressure connection 3 Low pressure connection (LP) 4 Oil sight glass 5 Oil valve for maitenance (standard) / connection for oil equalisation (parallel operation) 6 Oil drain plug (motor housing) 7 CSH only, except CSH6583, CSH6593, CSH95103 and CSH95113: Connection for electro-mechanical oil level switch in case of replacing a CSH.1 by a CSH.3 8 Connection for opto-electronical oil level switch (OLC-D1-S) CSVH: integrated into FI control CS.105: connected to monitoring module 9 Oil heater with sleeve (standard) CSVH: integrated into FI control CS.105: connected to monitoring module 10 Oil pressure connection 11 External oil cooler connections (adaptor optional) 11a outlet to oil cooler 11b inlet / return from oil cooler 12 Oil temperature sensor (PTC) CSVH: integrated into FI control CS.105: connected to monitoring module 13 Economiser connection (ECO) (shut-off valve optional CSH: with pulsation muffler) 14 Threaded bore for pipe support CS.L line for ECO or LI CSVH: 14a line for FCO 14b line for FI cooling 15 Liquid injection connection (LI) (CSH: shut-off valve optional) 16 Earth screw for housing 17 Connection for oil and gas return (for systems with flooded evaporator adaptor optional) 18 Oil filter (maitenance connection) 19 FI cooling (liquid refrigerant) 20 Frequency inverter (FI) 21 Oil injection valve (internal) 24 Gas permeable plug SL Suction gas line DL Discharge gas line Dimensions can show tolerances according to EN ISO 13920-B.