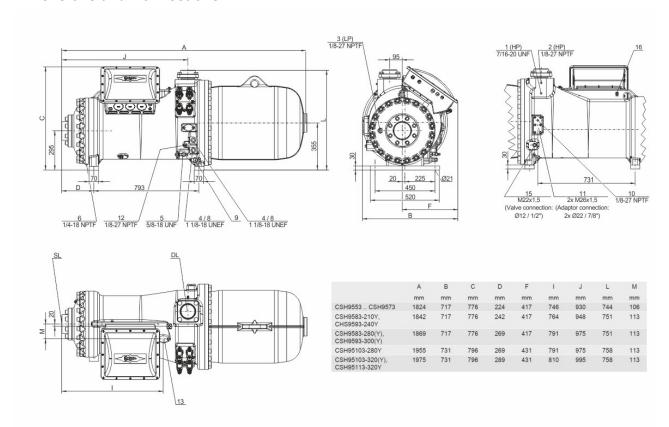


Technical Data: CSH95103-320Y

Dimensions and Connections



1015 m³/h

1225 m³/h 1500 kg

19 / 28 bar

BSE170 (Option)

BSE170 (Option)

B320SH (Standard)

380-415V D-3-50Hz

917.0 A Y / 2870.0 A D

DN 125

DN 100

566.0 A

332,0 kW

IP54

Technical Data

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Displacement (2900 RPM 50 Hz) Displacement (3500 RPM 60 Hz)

Weight

Max. pressure (LP/HP)
Connection suction line
Connection discharge line

Oil type R1234yf/R1234ze(E)/R450A/R513A Oil type R134a/R407C/R404A/R507A/R407A/R407F

Oil type R22

Motor data

Motor voltage (more on request)

Max operating current

Starting current (Rotor locked)

Max. Power input

Extent of delivery (Standard)

Enclosure class

Oil heater 300 W (Standard)

Oil separatorStandardOil filterStandardDischarge gas temperature sensorStandard

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 32,0 dm³

Available Options

Oil level switch min / max OLC-D1-S (Option)

Discharge shut-off valve Option



BITZER Software v6.12.0 rev2326

Motor protection

25.01.2020 / All data subject to change.

Suction shut-off valve

Shut-off valve for ECO with muffler

Liquid injection with integrated nozzle

Option

Bridges for DOL start

With sound jacket

Vibration dampers

Option

SE id (20

SE-i1 (200-690V)

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BITZER Software v6.12.0 rev2326

25.01.2020 / All data subject to change

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 ECO
- 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.

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