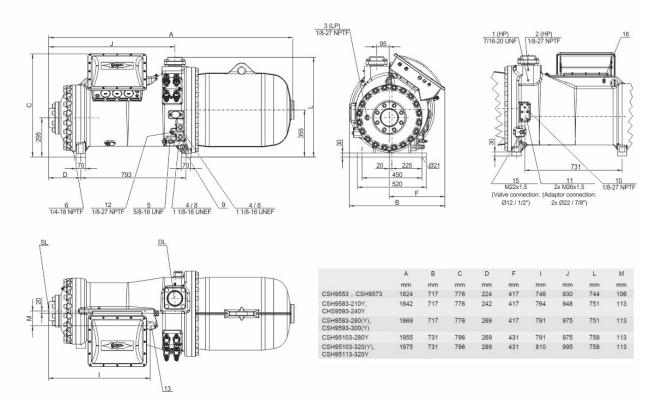


25.01.2020 / All data subject to change.

# Technical Data: CSH95113-320Y

## **Dimensions and Connections**



### **Technical Data**

Technical Data	
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 Motor data	1120 m³/h 1351 m³/h 1500 kg 19 / 28 bar DN 125 DN 100 BSE170 (Standard) BSE170 (Standard)
Motor voltage (more on request)	380-415V D-3-50Hz
Max operating current	447.0 A
Starting current (Rotor locked)	917.0 A Y / 2870.0 A D
Max. Power input	277,0 kW
Extent of delivery (Standard)	
Enclosure class	IP54
Oil heater	300 W (Standard) Standard
Oil separator Oil filter	Standard
	Standard
Discharge gas temperature sensor 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 dm <sup>3</sup>
Available Options	
Oil level switch	min / max OLC-D1-S (Option)
Discharge shut-off valve	Option
Suction shut-off valve	Option



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Shut-off valve for ECO with muffler Liquid injection with integrated nozzle Bridges for DOL start with sound jacket Vibration dampers Motor protection Option Option Option Option Option 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.

#### 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.