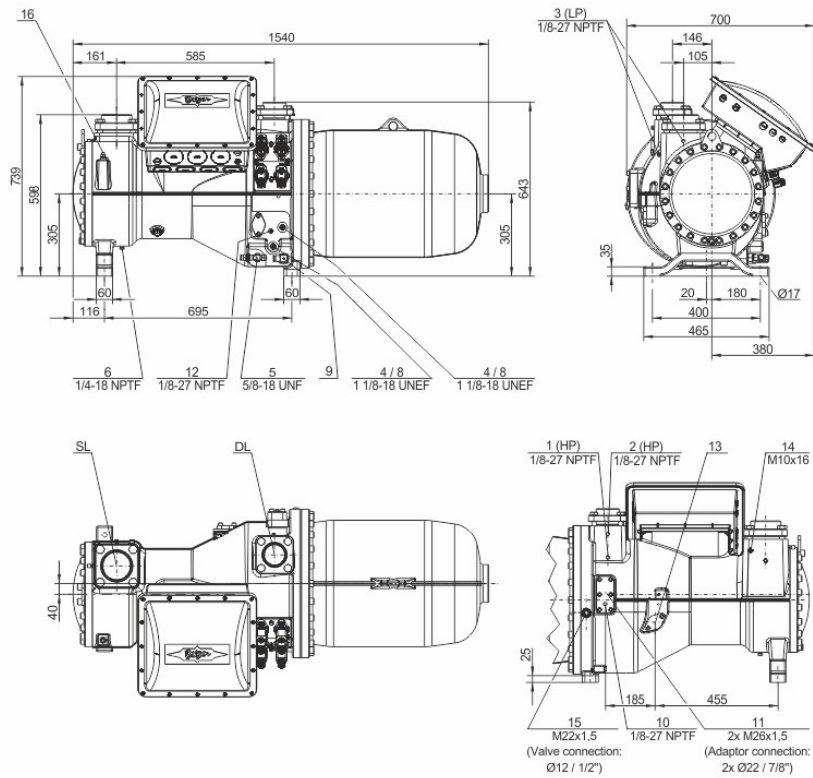




## Technical Data: CSH8563-90Y

### Dimensions and Connections





## Technical Data

### Technical Data

|                                               |                   |
|-----------------------------------------------|-------------------|
| Displacement (2900rpm 50 Hz)                  | 359 m³/h          |
| Displacement (3500rpm 60 Hz)                  | 433 m³/h          |
| Weight                                        | 840 kg            |
| Max. pressure (LP/HP)                         | 19 / 28 bar       |
| Connection suction line                       | DN 100            |
| Connection discharge line                     | 76 mm - 3 1/8"    |
| 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          | 155.0 A                |
| Winding ratio                   | 50/50                  |
| Starting current (Rotor locked) | 439.0 A D / 675.0 A DD |
| Max. power input                | 96,0 kW                |

### Extent of delivery (standard)

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| Enclosure class                  | IP54                                           |
| Oil heater                       | 300 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                       | 21,0 dm³                                       |

### 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 component 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.