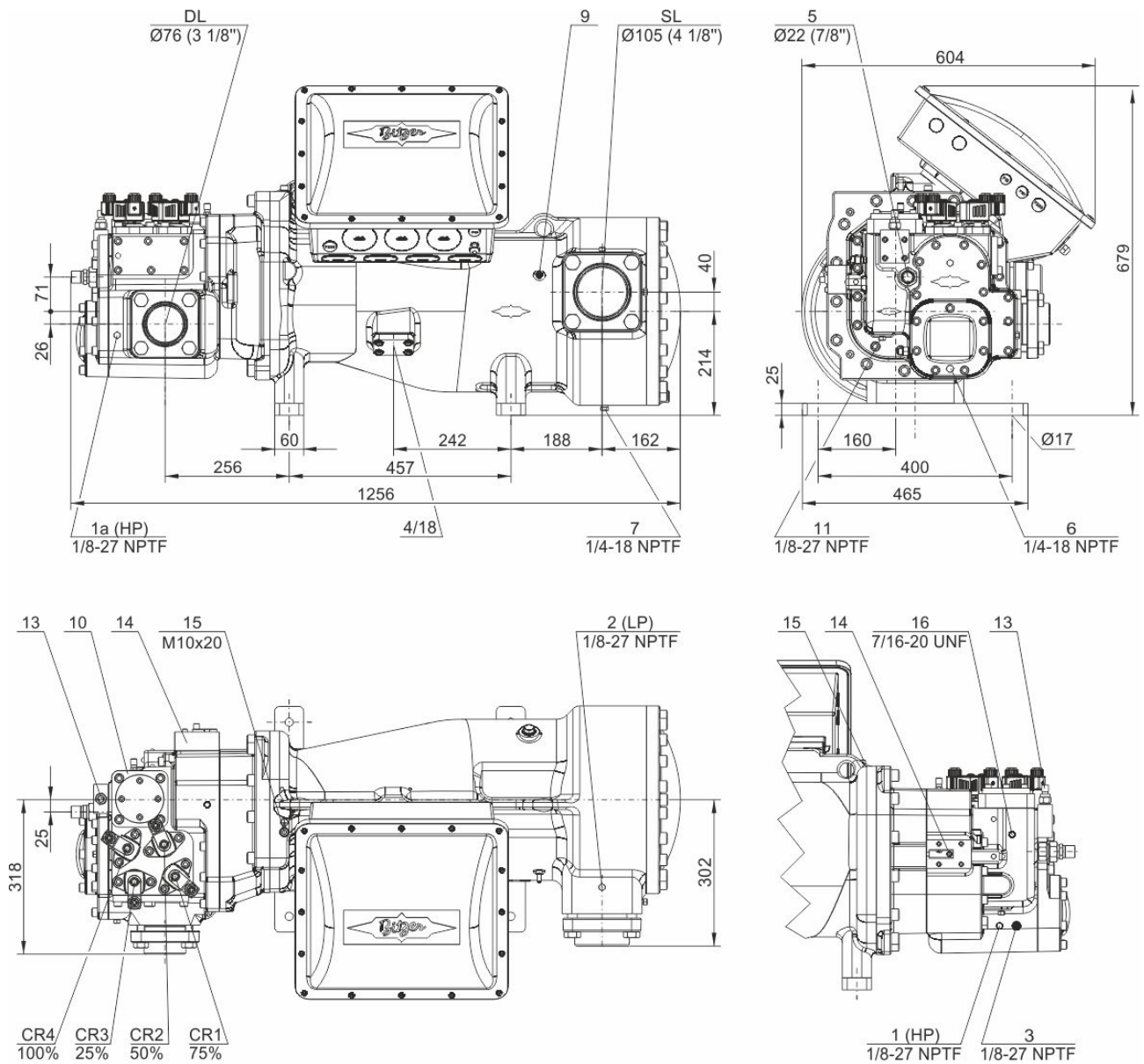




Technical Data: HSK8571-140

Dimensions and Connections





Technical Data

Technical Data

| | |
|--|-------------------------|
| Displacement (2900rpm 50 Hz) | 410 m³/h |
| Displacement (3500rpm 60 Hz) | 495 m³/h |
| Weight | 580 kg |
| Max. pressure (LP/HP) | 19 / 28 bar |
| Connection suction line | DN 100 |
| Connection discharge line | 76 mm - 3 1/8" |
| Adapter/shut-off valve for ECO | 28 mm - 1 1/8" (Option) |
| Adapter for liquid injection | 22 mm - 7/8" (Option) |
| Oil type R22 | B150SH, B100 (Option) |
| Oil type R134a/R404A/R507A/R407A/R407F | BSE170 |
| Oil type R448A/R449A/R454C | BSE170 |

Motor data

| | |
|---------------------------------|-------------------------|
| Motor version | 1 |
| Motor voltage (more on request) | 380-415V PW-3-50Hz |
| Max. operating current | 246.0 A |
| Starting current (Rotor locked) | 665.0 A D / 1023.0 A DD |
| Max. power input | 150,0 kW |

Extent of delivery (standard)

| | |
|----------------------------------|---|
| Discharge gas temperature sensor | Standard |
| Start unloading | Standard |
| Oil flow control | SE-B3 (Standard) |
| Motor protection | SE-E1 + SE-B3 (Standard), SE-E3 (Standard for 660-690V) |
| Capacity control | 100-75-50% or 100-50% (Standard) |
| Enclosure class | IP54 |

Available options

| | |
|------------------------------------|------------------|
| Suction shut-off valve | Option |
| Discharge shut-off valve | Option |
| ECO connection with shut-off valve | Option |
| Motor protection | SE-i1 (200-690V) |

Sound measurement



Semi-hermetic Screw Compressors HS

HSK = Application for air-conditioning and medium temperature cooling.

HSN = Application for low temperature cooling.

Notes regarding application limits (see "Limits")

- * Ranges are valid for standard operation and at full-load conditions.
- * With high pressure conditions, part-load operation is partly limited (see application limits in applications manual SH-100).
- * With Economizer operation the maximum admissible evaporation temperature is shifted by 10 K downward (otherwise there is a danger of excessive compression and overload of the motor because of a higher mass flow). At pull-down conditions from higher evaporation temperatures, the ECO injection must remain closed until the evaporation temperature is below the maximum admissible value and a stable operation is achieved (e.g. control of the ECO solenoid valve by means of a low pressure cut-out). The use of the ECO-system with higher evaporation temperatures requires individual consultation with Bitzer.

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- * Capacity control with ECO operation at the same time is limited to one single regulating step (CR 75 %). At CR 50 % the ECO injection should be closed.

Data for sound emission

Data are based on 50 Hz application (IP-units 60 Hz) and R404A.

Sound pressure level: values are based on open air test sites with semi-spherical sound emissions at 1 meter distance. For further information see Technical Information "Sound Data".