

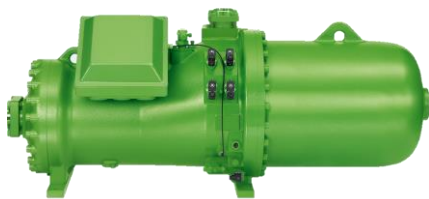


SALES INFORMATION

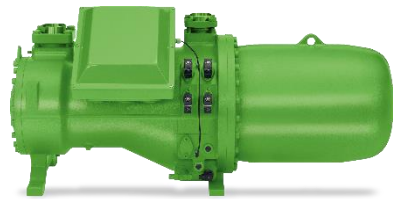
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CSH.6

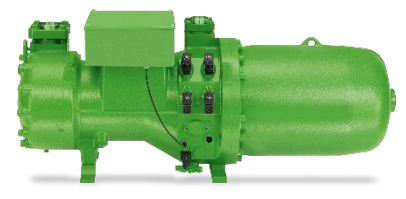
NEW HIGH EFFICIENCY COMPACT SCREW COMPRESSOR SERIES FOR USE IN AIR-COOLED A/C CHILLERS



CSH96..



CSH86..



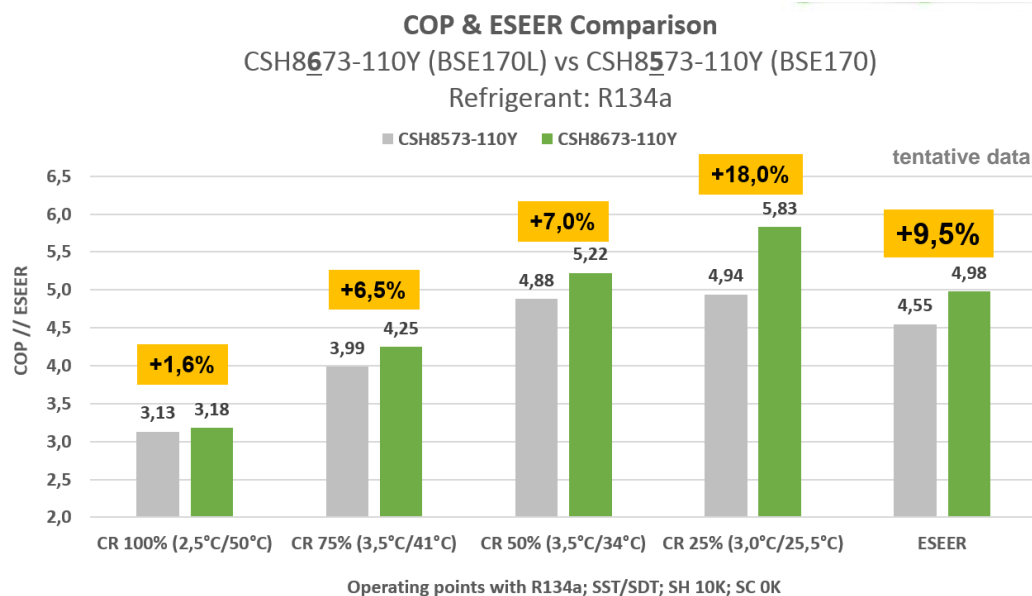
CSH76..

The new BITZER CSH.6 series enables OEM screw chiller manufactures to design and produce A/C chillers that fulfill the mandatory MEPS of the European Chiller Energy Efficiency Standard **EU 2016/2281 Tier 1** (into effect since 01. January 2018).

Note: The CSH.6 series is an extension of the product range for compact screw compressor and will not replace the standard CSH.5. The standard CSH.5 and its unique features is still available.

Efficiency comparison

Example: COP/ESEER new CSH8673-110Y vs Standard CSH8573-110Y





SALES INFORMATION

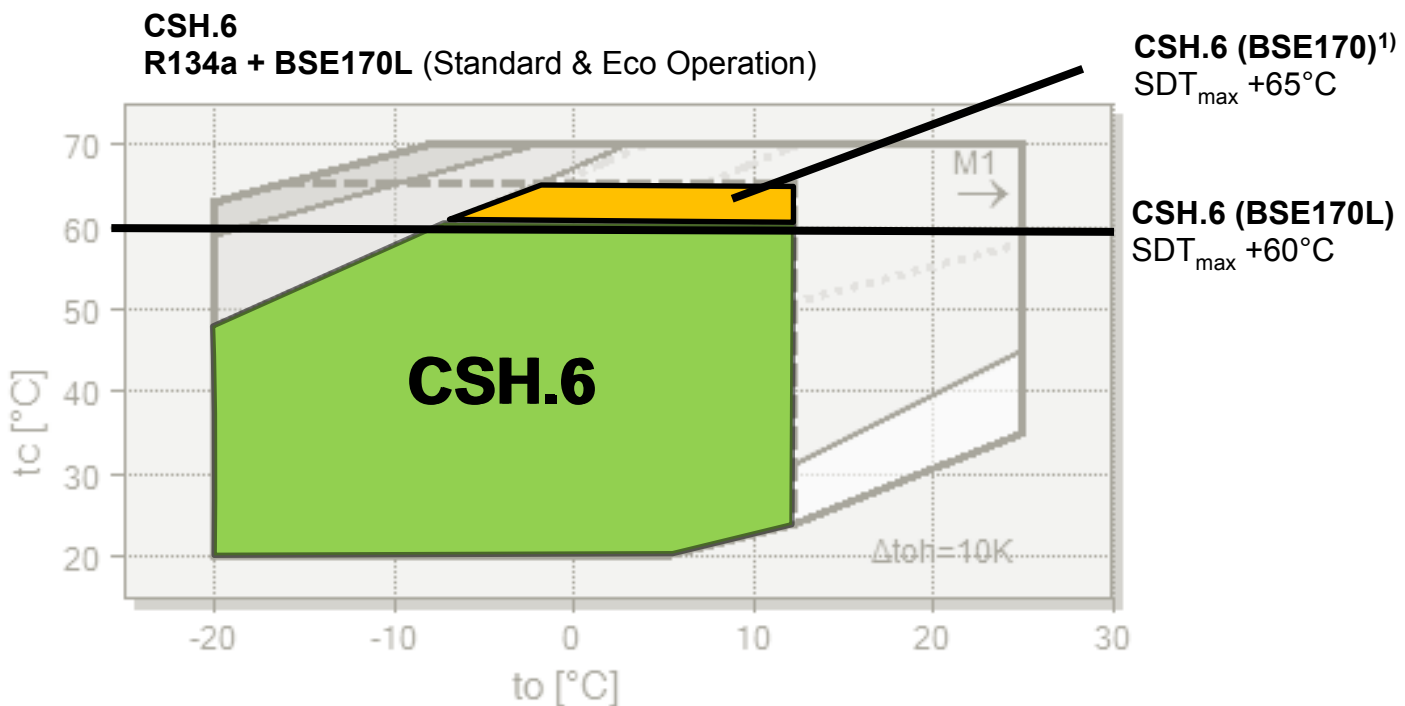
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Product range

| CSH96 series | Displacement m ³ /h at 50/60Hz | CSH86 series | Displacement m ³ /h at 50/60Hz | CSH76 series | Displacement m ³ /h at 50/60Hz |
|---------------|--|--------------|--|--------------|--|
| CSH96113-320Y | 1120/1351 | | | | |
| CSH96103-280Y | 1015/1225 | | | | |
| CSH9693-240Y | 910/1098 | CSH8693-140Y | 535/646 | CSH7693-90Y | 336/406 |
| CSH9683-210Y | 805/972 | CSH8683-125Y | 470/567 | CSH7683-80Y | 295/356 |
| CSH9673-180Y | 700/845 | CSH8673-110Y | 410/495 | CSH7673-70Y | 258/311 |
| CSH9663-160Y | 615/742 | | | | |

Application Envelope

The CSH.6 application envelope is adapted to generic operating conditions of air-cooled A/C chillers under the European Ecodesign Directive EU 2016/2281.



¹⁾ CSH.6 with BSE170: slightly reduced efficiency

Refrigerants

- R134a, R513A, R450A (Safety group A1)
- R1234ze(E), R1234yf (Safety group A2L)



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Main features

- Volume ratio (Vi) adapted to generic operating conditions of A/C chiller designs under the Ecodesign Directive EU 2016/2281
- New optimized slider / pressure flange geometry-combination
- New optimized capacity slider geometry
 - Reduced internal pressure drop
- Low viscosity oil BSE170L as standard
 - Reduced internal friction
- Motor
 - Motor designed & adapted to air-cooled A/C chiller application
- Economiser operation

Selected accessories

- Wide variety of suction and discharge bushes and shut-off valves
- Motor for special voltages (see ST-410)
- Oil charge:
 - Standard BSE170L (SDT max +60°C)
 - Option BSE170 (SDT max +65°C)
- ECO adapter with shut-off valve
 - Fixed ECO-Port, full load only (CR=100%)
- Motor protection devices
 - Analog to CSH.5
- Sound jacket

Availability

- Start of order processing
 - March 2018 (MCE2018)