

# Press Information

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**BITZER Kühlmaschinenbau GmbH**  
Eschenbrunnlestraße 15  
71065 Sindelfingen // Germany  
Tel +49 (0)70 31 932-0  
Fax +49 (0)70 31 932-147  
bitzer@bitzer.de // www.bitzer.de

Unser Zeichen // Our Ref.

Abs. // Sender	Nadine Vogt
Abt. // Dept.	Corporate Communication
Tel Dw. // Ext.	+49 (0)70 31 932-43 70
Fax Dw. // Ext.	+49 (0)70 31 932-5 43 70
E-Mail	nadine.vogt@bitzer.de

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## New ORBIT 8 Scroll Compressors optimized versions for HVAC and chiller market

With rising energy costs and environmental pressures, the HVAC industry and chiller manufacturers face many new challenges. There is now a greater emphasis on energy saving part-load performance and sustainability whilst at the same time, market competitiveness is essential. BITZER's new ORBIT 8 scroll compressor series provides an answer to these requirements.

The ORBIT 8 series, specifically designed for use with R410A, includes 6 displacement steps with cooling capacities from 39 to 103 kW at 50 Hz / 15 to 40 tons at 60 Hz. As the HVAC industry's efficiency requirements are continually changing, ORBIT 8 has been designed to assist manufacturers in obtaining even higher efficiency levels than those required by current standards. This is ensured with the development of two scroll compressor versions with the same capacity – one series optimized for air-cooled applications and heat pumps and the other for water-cooled chiller operation.

The ORBIT 8 Boreal for water-cooled systems is the first of its kind in the industry. It reaches ESEER data up to 15% higher than with a conventional scroll design. This has been achieved by an optimal compression ratio for lower condensing temperatures, such as those found in water-cooled applications. Adapted motors are used, resulting in lower applied cost and better efficiency during part-load operation. ORBIT 8 Boreal offers 5 capacity steps from 20 to 40 tons. For both versions, assembly kits for even and uneven tandems and trios are available.

### Geschäftsführer // Managing Directors:

Peter Schaufler, Senator h. c.  
Christiane Schaufler-Münch  
Jürgen Kleiner  
Hans P. Meurer  
Dr. Christian Wahlers  
Christian Wehrle

### Sitz der Gesellschaft // Registered Office: Sindelfingen

**Amtsgericht // Local Court Stuttgart, HRB 240845**  
Commerzbank AG, Böblingen (BLZ 603 400 71) 806 0006  
Deutsche Bank AG, Stuttgart (BLZ 600 700 70) 051 438 000  
DZ Bank AG, Stuttgart (BLZ 600 600 00) 185 460 0000  
HypoVereinsbank AG, Böblingen (BLZ 603 202 91) 469 030 1844  
LBBW Landesbank Baden-Württemberg (BLZ 600 501 01) 136 5555  
USt.-Id. Nr./VAT Id. No.: DE 8121 61588

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Another major benefit of the ORBIT 8 series is the operational sound level which is up to 3 dBA lower than that of competitive products. Also, the very low oil circulation rate, of less than 1%, results in improved heat transfer and oil circulation characteristics, providing higher system efficiency and reliability. The shell diameter and weight have also been reduced whilst the footprint and connection points are industry standard.

The new series is developed and produced in BITZER's new scroll compressor design and manufacturing center in Syracuse, United States.

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