



BITZER Kühlmaschinenbau GmbH

Eschenbrünlestrasse 15
71065 Sindelfingen // Germany
Tel.: +49-70-319-320
Fax: +49-70-3193-2147
bitzer@bitzer.de // www.bitzer.de

Unser Zeichen // Our ref.

Abs. // Sender	Patrick Koops
Abt. // Dept.	Corporate Communication
Tel Dw. // Ext.	+49-70-319-324-327
Fax Dw. // Ext.	+49-70-319-325-4327
E-mail	patrick.koops@bitzer.de

Datum // Date **October 9, 2012**

BITZER at Chillventa, October 9–11, 2012, Hall 4, Booths 310 and 408

A strong performance: top energy-efficiency levels in the new CSV series

- Compact screw compressor with integrated frequency inverter boasts an especially large range of control and high power density
- The CSV series sets new standards with an especially high ESEER (air cooled)
- An all-rounder for air conditioning systems, heat pumps, and process cooling

Sindelfingen/Nuremberg, October 9, 2012. Variable speed with integrated frequency inverter is the key to top energy efficiency in the new CSV series from BITZER. With an ESEER (European Seasonal Energy Efficiency Ratio) of over 5, the new intelligent compact screw compressor sets new standards for air cooled chillers with dry expansion.

The frequency inverter is integrated into the compressor in the CSV series, carefully fine-tuned in the factory, and configured for maximum efficiency. The compact unit takes up little space and meets the requirements of the EMC directive for industry, optional for residential areas. Thanks to the refrigerant-cooled electronics, maximum operational reliability and maintenance-free operation are ensured. This significantly reduces life cycle costs.

Geschäftsführer // Managing Directors:

Peter Schaufler, Senator h. c.
Christiane Schaufler-Münch
Michael Bauer
Rainer Große-Kracht
Jürgen Kleiner
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

Press Information



Minimal network load

The starting current is very low due to the soft-start function of the internal frequency inverter. Starting creates a steady increase in the operating current, without the usual current peak.

Versatile

CSV series models are highly efficient specialists used in chillers for air conditioning systems, in heat pumps, and in industrial and process cooling. The CSV compressor becomes an all-rounder thanks to its wide speed range and internal Vi-slider. The CSV series compact screw compressor communicates with the master control via Modbus.

Always under control

All CSV series models know their application limits. If preset parameters are exceeded, a warning message is first sent to the master system controller in order to enable correction. It only turns off in the case of constant or greater exceedance. The operator thus achieves maximum availability with minimum risk. The CSV series can of course also be combined with conventional BITZER CSH and CSW compact screw compressors in one system. This once again increases the flexibility with regards to full and part load performance both in system design and in operation.

BITZER currently offers three models in the CSV series, which are all designed for use with R134a refrigerant. The performance data:

Cooling capacity ($t_o = 5^\circ\text{C}$, $t_c = 50^\circ\text{C}$)	up to 430 kW	up to 350 kW	up to 270 kW
Range of control	> 1 : 6	> 1 : 5	> 1 : 4
Max. flow volumes	712 m ³ /h	582 m ³ /h	449 m ³ /h

Geschäftsführer // Managing Directors:

Peter Schaufler, Senator h. c.
Christiane Schaufler-Münch
Michael Bauer
Rainer Große-Kracht
Jürgen Kleiner
Dr. Christian Wahlers
Christian Wehrle

Sitz der Gesellschaft // Registered Office: Sindelfingen

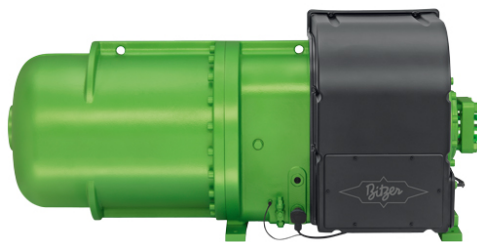
Amtsgericht // Local Court Stuttgart, HRB 240845
Commerzbank AG, Böblingen (BLZ 603 400 71) 806 0006
Deutsche Bank AG, Stuttgart (BLZ 600 700 70) 051 438 000
DZ Bank AG, Stuttgart (BLZ 600 600 00) 185 460 0000
HypoVereinsbank AG, Böblingen (BLZ 603 202 91) 469 030 1844
LBBW Landesbank Baden-Württemberg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

Press Information



The BITZER Group is the world's largest independent manufacturer of refrigeration compressors with sales companies and production sites for reciprocating, screw, and scroll compressors as well as pressure vessels all over the globe. In 2011, 2,966 employees generated sales of 632 million euros.

Images may only be used for editorial purposes. This usage is free of charge if "Photo: BITZER Kühlmaschinenbau GmbH" is given as the source and a complementary copy is forwarded to us. Graphical changes – except for highlighting the main motif – are not permitted.



Top energy-efficiency levels in the new CSV series

Geschäftsführer // Managing Directors:

Peter Schaufler, Senator h. c.
Christiane Schaufler-Münch
Michael Bauer
Rainer Große-Kracht
Jürgen Kleiner
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