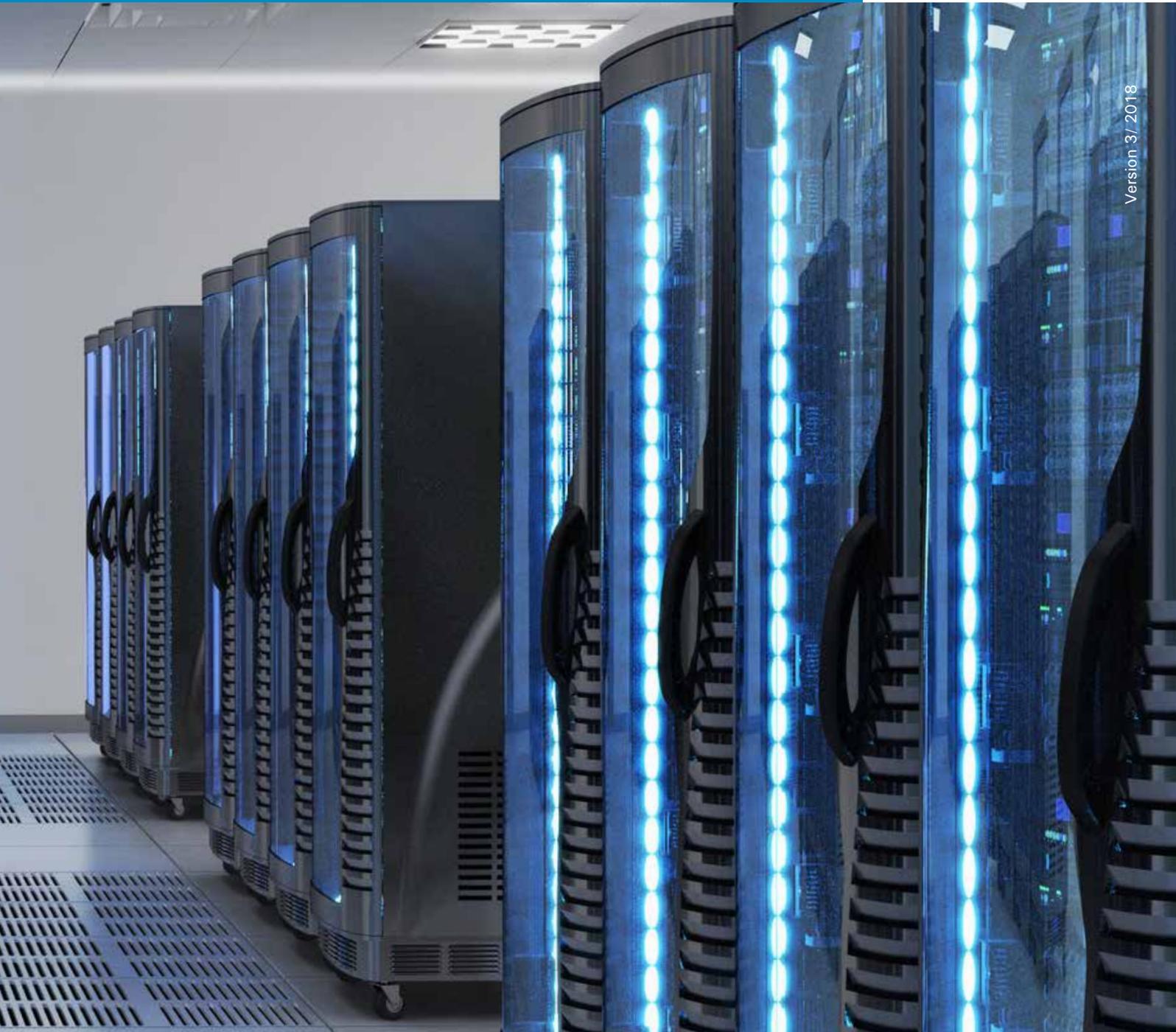


You can count on us...



Version 3/2018

## Heat dissipation units for datacenters

Cost- and CO<sub>2</sub>-reduction by means  
of high efficient cooling



HANSA is a member of the association of manufacturers for air conditioning devices  
(Raumlufotechnische Geräte e.V.)

IT Cooling

# Standard units

## Highly efficient datacenter cooling

Requirements strongly depend on application. Our solutions:

- Slim Line: free and mechanical cooling up to 3,250m<sup>3</sup>/h (1,912 CFM)
- Free Line: free and mechanical cooling up 100,000m<sup>3</sup>/h (58,857 CFM) with further conditioning options
- Blue Line IT: custom solutions centered around energy recovery systems with airflows up to 100,000m<sup>3</sup>/h (58,857 CFM)



## Slim Line

Units dissipating high thermal loads while keeping an extremely small footprint and achieving energy savings of more than 70 % compared to recirculating or split unit conditioners; airflow up to 3,250m<sup>3</sup>/h (1,912 CFM), cooling capacity up to 15kW (51,182 BTU/h). Slim Line units operate in 3 modes:

- Cooling with outside air: Dissipating thermal loads by removing warm air and supplying cold outside air. Mixing return and outside air depending on the required supply air temperature.
- Free and mechanical cooling: The DX-cooling system is activated when free cooling alone does not suffice.
- Mechanical recirculating cooling: Recirculating cooling becomes reasonable when the outside air temperature exceeds the return air temperature.

## Free Line

Customizable units for free and mechanical cooling with airflows between 2,500 m<sup>3</sup>/h (1,471 CFM) and more than 100,000 m<sup>3</sup>/h (58,857 CFM). For data center cooling and in general for dissipating process heat, Free Line units can be tailored perfectly to a range of applications and represent the following functions:

- Ventilation
- Mixing
- Cooling (free & mechanical cooling)
- Heating (optional)
- Humidification (optional)

The advantage of the Free Line concept in the field of cooling: in a typical situation, 80 % of the operating time can be realized with free cooling (cooling with outside air), only the control-system and two energy-saving fans are in operation, while the largest consumer, the DX-compressor, is inactive.



# Spot-on custom solutions



## Blue Line IT

In a data center, large amounts of thermal energy are being produced. For uninterrupted operation, it is imperative to remove heat. This objective can be achieved through the use of introducing outdoor air cooled by either indirect free cooling, or even more efficiently by direct free cooling. HANSA Blue Line IT units are ideally suited to fulfill these two tasks - with one unit.

Blue Line IT products stand for highly individualized airhandling units with optimum energy efficiency. They can be adapted to almost any space, do their job reliably and for decades. In critical applications, redundancy warrants for reliable operation.

On your journey towards having a greener IT solution, we can help you take a big step. With our units, you achieve a high energy efficiency by lower energy consumption and, consequently, an optimized CO<sub>2</sub> balance for your data center.

# Service

## Data center - Service and Maintenance

During operation of plant equipment, there is unavoidable wear and tear. Since performance can be affected in this way, regular checks are required. Even in the design of our HANSA air conditioners we are laying the foundation for low maintenance and high availability. This is made possible by our experienced and qualified staff and our ISO 9001:2015 certified quality management system. Thus, errors can still be avoided prior to emergence and the subsequent maintenance and repair costs are kept to a minimum.

## Maintenance

HANSA offers also the appropriate service for trouble-free operation of the equipment. For this we can offer a semi-annual service maintenance agreement in the US where factory trained personnel would assist in maintaining the machine by performing scheduled service on it twice a year. So your maintenance can be performed by a HANSA specialist of your region.

## Replacement parts and redundancies

To avoid long-term breakdowns with the resulting costs, HANSA has implemented mechanisms to provide an optimal repair and maintenance:

- Critical parts should be kept with the air conditioner and replaced immediately after installation
- Parts whose failure would lead to a standstill should be designed redundantly during planning

## Remote monitoring and reporting

On customer request, HANSA offers the possibility of remote monitoring and reporting for the HANSA air conditioners. The device data then is checked regularly. If required, the operator is notified of relevant events and the device parameters are adjusted accordingly. If faults occur which lead to functional limitations, independently an alarm message is issued from the unit to initiate the problem elimination.



HANSA service crew



HANSA Service

# References

- Glatt GmbH, Binzen
- TWK Kaiserslautern  
(Technische Werke Kaiserslautern)
- EVO Offenbach  
(power supply Offenbach)
- Mercedes Benz, Luxembourg
- German Telekom AG
- EWE AG
- Long Island University
- European Central Bank
- Public Transportation Services Karlsruhe
- Astra Interlaken,  
Zentrale Rugen West/Ost
- Media Broadcast GmbH,  
satellite earth station Usingen
- Bechtle GmbH & Co. KG,  
Darmstadt
- Sewage works, Hetlingen



Mobile datacenter with Slim Line units



TWK (Technische Werke Kaiserslautern)



German Telekom AG, Nordenham

# HANSA Climate Systems



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