

Air quality is quality of life



Stand 3/2018



## Run-Around Coil System

Heat recovery intelligently controlled with the etaHydro hydraulic stations



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

HANSA  
eta technologies



etaHydro

# About us

## The company

Our company, the HANSA Klimasysteme GmbH, was founded in 1971 and is based in Strücklingen in the municipality Saterland. We have been guaranteeing sophisticated and high-quality air conditioning systems for more than 45 years.

Since the founding of the company, we have been known for the construction of air-conditioning systems for schools, sports halls, swimming pools and hospitals as well as for use in both industry and process engineering in Germany and world-wide.

As member of the association of manufacturers for air conditioning devices (RLT Herstellerverbandes e.V.), we undertake to construct our devices according to the associations' guidelines to always guarantee quality, operational safety and legal security for our customers and operators. Our certified (TÜV Süd) construction software ensures comparable energy efficiency labeling.

The construction and production are performed in QM-conditions according to DIN EN ISO 9001:2015.

## Our product range

Custom solutions for a range of applications is the central point of our work. We produce individual units for ventilation, air conditioning, heat dissipation and dehumidification.

Also, we offer configurable and scalable standard AHUs for a range of applications.



DIN EN ISO 9001  
REG.-NR. 01 0195002



HANSA factory site

# Huge savings potential

## Blue Line KVS devices with etaHydro technology

Maximizing efficiency with the lowest energy consumption: The hydraulic station ETA Hydro from HANSA takes into account the increased demand for highly efficient closed-loop systems, allowing for an expeditious payback from the heat recovery's added cost, saving operation cost for years to come.

### Areas of application

When one has separate supply and exhaust air ventilation units or a combined singular system (side-by-side or stacked configuration), this heat recovery technology, called the Run-Around Coil System, can be utilized. As the water or brine (the system may include glycol depending on inlet temperature conditions)

KVS stands for *Kreislaufverbundsystem*, which is the German term for Run-Around Coil System.

solution passes through each air stream, the associated coils either absorb or release heat energy.

The KVS is inherently robust against any pressure differences between the air streams and offers a complete separation of supply and exhaust air. This allows the KVS heat recovery system to be used in instances where the exhaust air is of category ETA-4 (very high pollution).

### Modular design

The hydraulic station of the KVS is mounted on a welded frame and can, depending on the space conditions, be installed separately or be installed inside the ventilation unit itself. This modular-style system allows complete accessibility to all components for maintenance and cleaning.

### Advantages

- Freely configurable – application-specific design tailored to your individual needs
- Highly efficient control strategy
- Complete accessibility of components for maintenance and cleaning
- Everything provided from one source

Both pictures:  
non-redundant  
Hydraulikstation  
etaHydro in  
the Installation  
situation;  
Regulation over  
Device DDC



# Individual solutions

## Project examples 2017

**Blue Line Hy KVS, 14 000 m<sup>3</sup>/h (8,240 CFM)**

Hygienic device; KVS with redundant hydraulics and Saia-DDC, evaporative cooler on the exhaust side

Plant: Central Pretreatment OR  
Company: **Agalpesion Evangelical Hospital Mittelhessen, Giessen**

**Blue Line KVS, 45 000 m<sup>3</sup>/h (26,486 CFM)**  
**Blue Line KVS, 25 000 m<sup>3</sup>/h (14,714 CFM)**

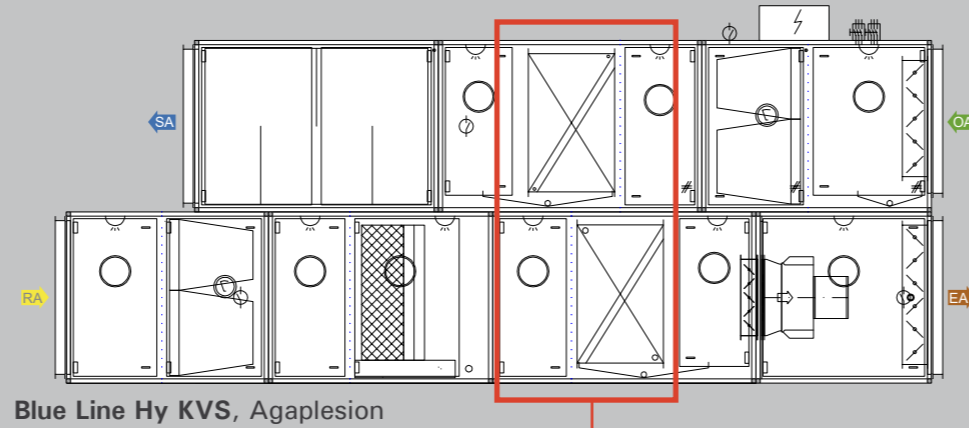
Roof devices with internal hydraulics

Plant: Meat Processing and Butchery  
Company: **Vion Food Group, Buchloe**

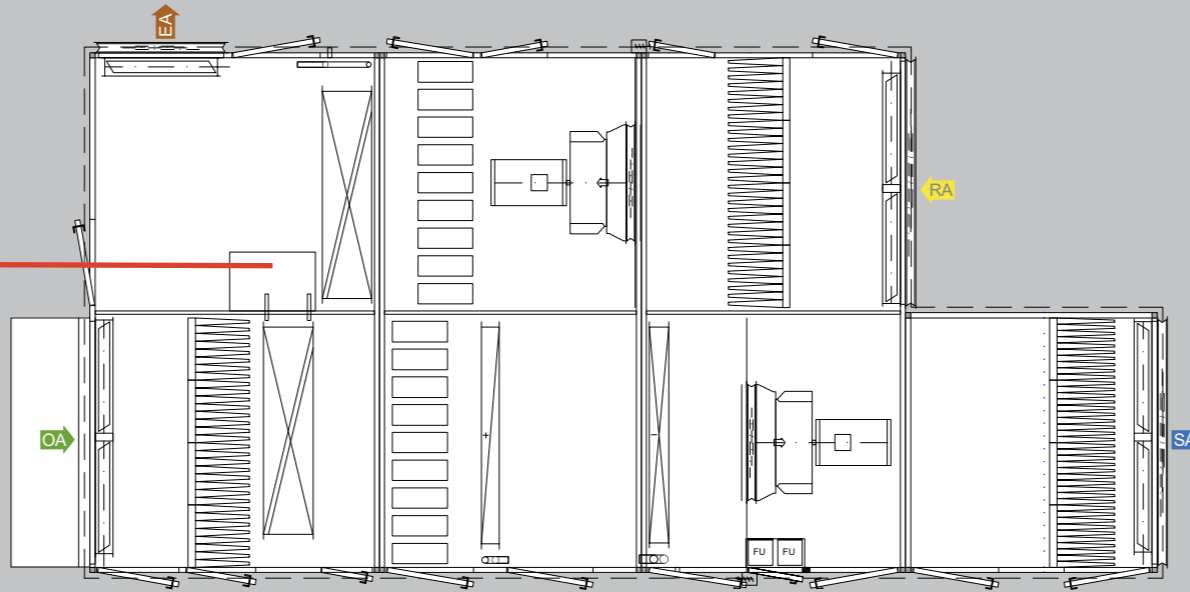
**Blue Line KVS, 16 000 m<sup>3</sup>/h (9,417 CFM)**

Ventilation unit with internal hydraulics, entire unit controlled by Saia-DDC

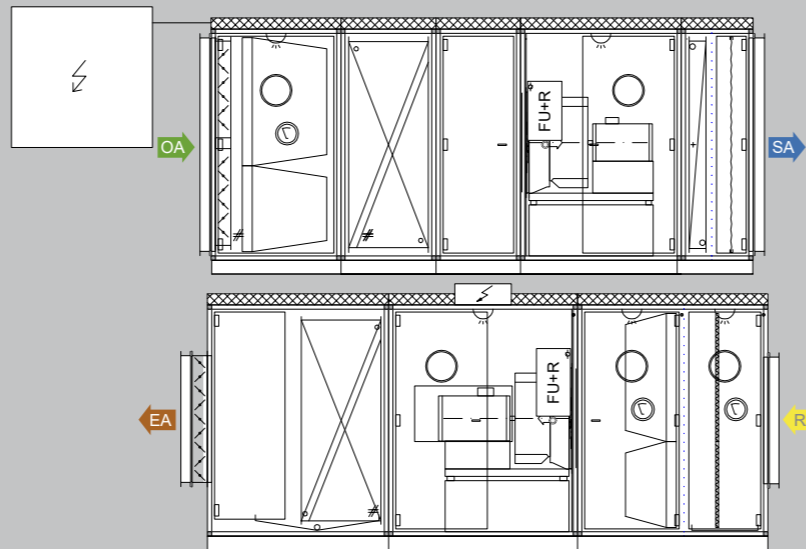
Plant: Kitchen  
**MRVZ Lower Saxony, Bad Rehburg**



Blue Line Hy KVS, Agalpesion



Blue Line KVS, Vion



Blue Line KVS, MRVZ Lower Saxony



Fig. Right: Redundant hydraulic station etaHydro with frequency converters and Saia DDC (Project Agalpesion ev. KH, Giessen)

# HANSA Air Conditioning Systems



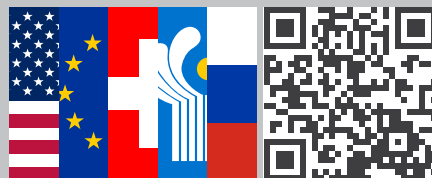
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