

Press release

JAEGGI has shipped 3,000 hybrid dry coolers: Stadtwerk Winterthur (the Winterthur municipal utility company) extends the refrigerating plant on the former Sulzer site

December 2013

JAEGGI Hybridtechnologie AG, the Basel-based hybrid dry cooler specialist, has further strengthened its existing market leadership. In November, the 3,000th hybrid dry cooler was delivered to the Winterthur municipal utility company. As the new heat exchangers are far more powerful, it will be possible to connect more consumers to the refrigeration supply network. As an energy contractor and thanks to the extended plant, the Winterthur municipal utility company will provide the entire former Sulzer site with cold water.

One particular challenge was to install the more powerful hybrid coolers between the existing noise barriers in the position occupied by the old system. JAEGGI's modular design meant that an important criterion was met. As the steel substructure was designed for the previous system, the axial dimensions were not right for the new coolers. JAEGGI's engineers solved the problem by using special small structure-borne noise insulators. This means that each cooler is positioned on six small supports.

The three hybrid dry coolers, with a total output of 6,000 kW, are hydraulically connected together in a single system and are operated in an efficiency-optimised manner using an overall master control system. All the necessary process values for the individual devices are integrated into the Winterthur municipal utility company's building management system via a Modbus interface.

JAEGGI took charge of the complete service package, including crane

Page 2 of “JAEGGI has shipped 3,000 hybrid dry coolers: the Winterthur municipal utility company extends the refrigerating plant on the former Sulzer site”

positioning, introduction, installation and commissioning. The design office Leplan AG in Winterthur was responsible for design.

In recent years, JAEGGI Hybridtechnologie AG has become a major presence throughout Europe and overseas thanks to innovative and sustainable, energy and water saving recooling systems. In addition to hybrid dry coolers (HTK - Hybrid High Performance) and hybrid dry condensers (HTV - Hybrid High Performance), as well as the recently launched advanced dry cooler (ADC Hybrid Blue) and its service, it also develops and manufactures products for industrial and air-conditioning applications. Intelligent dimensioning and optimisation systems and the latest production methods facilitate “bespoke” customised solutions in all areas of recooling technology.

Technical data for hybrid dry coolers

Specifications	
Cooler type	HTK 2.4/8.4-2S-P2-CU-SLNF
Quantity	3
Total recooling power	6,000 kW
Product	
Cooling medium	30% Glycol / 70% Water
Required medium temperatures (Infeed/Outlet)	36°C / 30°C
Medium flow rate for coolers	963.2 t/h
Air	
Fan speed	91% (Wetted cooler), 100% (Dry cooler)
Incoming air condition	34 °C / 36% RH (Wetted cooler), 9 °C (Dry cooler)
Total wetting water consumption for 3 coolers	
for the air condition	34 °C / 36% Rh
Evaporation water quantity	10.1 m³/h
Cooler configuration	
Cooler dimensions (LxWxH)	9.2 m x 2.44 m x 3.75 m
Operating weight per cooler	10,000 kg

Page 3 of "JAEGGI has shipped 3,000 hybrid dry coolers: the Winterthur municipal utility company extends the refrigerating plant on the former Sulzer site"

A Güntner Group company

A-HEAT AG

A-HEAT AG, Allied Heat Exchange Technology AG, with its headquarters in Vienna, is a leading international technology group, specialising in refrigeration and air-conditioning technology as well as process engineering. The group acts as the holding company for Güntner GmbH & Co. KG, JAEGGI Hybridtechnologie AG, thermowave GmbH and basetec products + solutions GmbH.

Press contact:

JAEGGI Hybridtechnologie AG

Kathrin Gänge
Hirschgässlein 11
CH-4051 Basel

Tel.: +41 (0)61 560 91 26
Fax: +41 (0)61 560 91 01
e-mail: kathrin.gaenge@jaeggi-hybrid.ch

www.jaeggi-hybrid.ch

Caption 1

JAEGGI's 3000th hybrid dry cooler leaves the Fürstentfeldbruck plant (DE). The Production Manager, Mr. Bals (far right in the picture), thanks all those involved for their tremendous commitment.

Caption 2

Ceremonial handover of the 3000th hybrid dry cooler by JAEGGI's Project Manager Marco Baumann (left in the picture) to Daniel Senn (right in the picture) from the Winterthur municipal utility company.

Captions 3, 4 & 5

Installation of the hybrid dry cooler