

Water Glycol Circuits WGK



HYDAC WGK coolers are designed to maintain a consistent coolant temperature in fluid cooled systems.

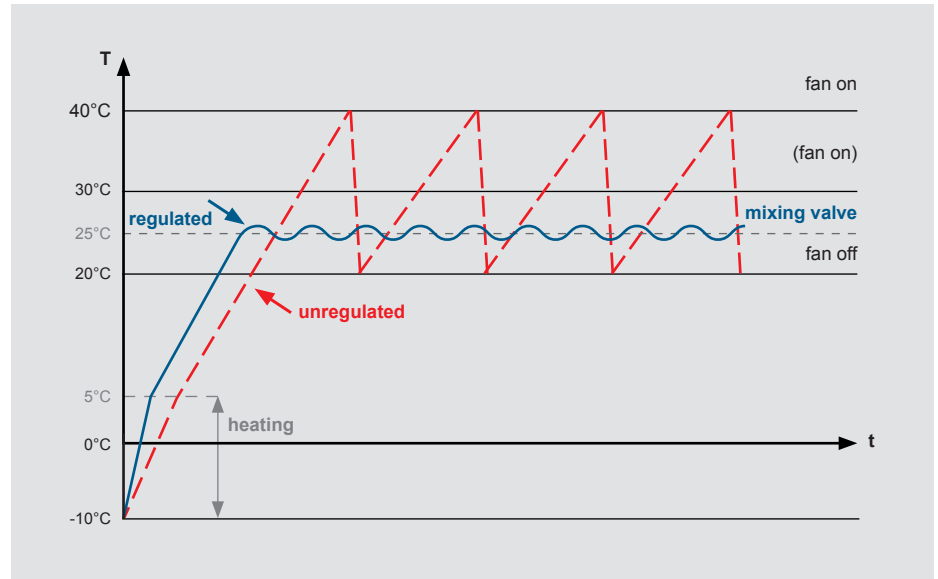
This is achieved by means of heating, mixing and cooling.

Equipment options:

- Closed water glycol circuit (WGK) with pump, expansion tank, mixing valve, screw-in heating device and sensors (pressure, temperature)
- Water/air cooler or plate heat exchanger

Benefits:

- Stops condensation from forming
- No temperature shocks when turning on the air cooler at low air temperatures
- By connecting additional fans, the cooling capacity can be adjusted as required



Application Field

- Converters
- Generators
- Transformers
- Inverters

Specification Sheet for Water Glycol Circuits

Project: _____
Contact: _____
Telephone: _____
E-mail: _____
Date: _____ Completed by: _____

Wind turbine/photovoltaic system

Manufacturer: _____
Wind turbine: With gearbox Direct drive
Location (country): _____
Component being cooled: Converter Generator _____
Heat load/required dissipation: _____ kW

Design

Cooler installation location: Inside Outside
Max. water glycol inlet temperature: _____ °C of component being cooled
Total water glycol volume: _____ ltr in the component being cooled
Pressure loss of the component being cooled during flow: _____ bar at _____ l/min
Pressure relief max. _____ bar

Ambient conditions

Installation: Onshore Near shore Offshore
Max. humidity: _____ %RH
Altitude: _____ m above sea level

Ambient temperature

During operation: max. _____ °C HYDAC standard: +40°C
min. _____ °C HYDAC standard: -10°C
Cold Climate version: -30°C
At standstill: max. _____ °C HYDAC standard: +50°C
min. _____ °C HYDAC standard: -20°C
Cold Climate version: -40°C

Electrical data

Voltage: 50 Hz: _____ V 60 Hz: _____ V
Rated power: _____ MW

Ports

Ports on the component
being cooled:

Planned hose
length/nominal diameter:

Converter cooling system

Required heating capacity: _____ kW

Mixing valve: Yes No

Additional requirements

Are additional cooling systems required?

Gearbox: _____

Others: _____

Comments

Note

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications and corrections.



HYDAC COOLING GMBH

INTERNATIONAL

Industriegebiet
66280 Sulzbach/Saar
Germany

Tel.: +49 6897 509-01
Fax: +49 6897 509-454

E-mail: cooling@hydac.com
Internet: www.hydac.com