



## Cooling Systems and Air Conditioning Units

Stable Temperatures for Your Process

# Cooling Systems and Air Conditioning Units

BARTEC BENKE is a company with more than 300 specialists committed to monitor and optimize production processes in the oil and gas industry and accordingly to assure an efficient production of high-quality products. Our knowledge and many years of experience form the basis of innovative and economical process analyzers, moisture analyzers and cooling systems which comply with international standards.

Cooling systems from BARTEC BENKE are the basis for reliable measurement results of process analyzers and measurement systems.

**BARTEC BENKE**

YOUR competent  
partner for  
safe plants



The specialists  
from BARTEC  
BENKE have  
many years  
of experience in  
plant safety.  
They create  
solutions which  
you can rely on:  
economical,  
reliable and  
for the future.

Operators of plants in potentially explosive atmospheres do benefit of our know-how in engineering of cooling systems and air conditioning units for shelters, containers or cabinets with installed analyzer or measurement systems. By providing reliable and steady ambient temperatures in housings and/or the precise temperature regulation of liquid or gaseous samples, BARTEC BENKE ensures that the installed systems comply with predefined specifications.

Our long-term experience provides you the optimal solution for three different applications.

### Ex-Compact Air Conditioning Unit

Protection cabinets with sensitive measurement systems which are installed outdoors are exposed to volatile ambient temperatures (day/night; summer/winter). This can have a significant impact on the performance of the installed systems. Additionally, the heat loss of the systems affects the indoor temperature.

The Compact Air Conditioning unit with its 2 KW or 4 KW cooling capacity offers the best solution for operators who

- are installing or planning to install electrical measurement and control equipment or analyzer systems in cabinets or small containers.
- wish to regulate interior temperatures safely and reliably.

The compact air conditioning unit is intended for being mounted on a flat side panel and is also suitable for installation afterwards.

#### Features

- Compact design
- Also suitable for Ex p cabinets

Easy, quick installation

Robust, low-maintenance devices

For ambient temperatures from -20 °C up to 55 °C

Fully certified for ATEX, Zone 1



### Ex-Closed Loop Chiller

The variable quality and availability of plant cooling water issues a challenge to many operators to ensure a permanent supply of good quality cooling water respectively with constant sample temperature for analyzers and analyzer shelters.

The usage of the Closed Loop Chiller ensures the required sample temperature according to your specification by cooling via the secondary cooling circuit.

#### Features

- Cooling capacity up to 60 KW
- Compact design

### Ex-Air Conditioning Unit

The interior temperature in analyzer shelters is affected by the ambient temperatures as well as by the heat loss of the installed analyzer and measurement systems. BARTEC BENKE manufactures every Air Conditioning Unit according to customer's requirements to ensure a safe operation of the installed systems according to the applicable standards for safety in analyzer shelters. These requirements generally include:

- Size and make (type of insulation) of the shelter
- Heat loss of installed systems
- Existing ambient temperatures and required interior temperature
- Fresh air exchange per hour

#### Features

- Cooling capacity up to 60 KW
- System components can be installed redundantly

### Tailor-made solutions

Are you looking for an individual solution? We implement large-scale projects with customized complete solutions, including integration into existing processes – all from one source.

Depending on the requirements, such complete solutions can contain:

- Analyzers from BARTEC BENKE and from other manufacturers
- Sample conditioning systems
- Fast loop systems
- Recovery tanks
- Cooling/air conditioning systems
- Analyzer houses and cabinets



### Would you like to get more information?

For all questions with regard to Ex-Cooling Systems and Air Conditioning our colleagues are at your's disposal. You can reach them via email: [cooling@bartec-benke.de](mailto:cooling@bartec-benke.de). Benefit from the know-how of our specialists!