Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

APPLICATION: FILLING

Annually, breweries in the United States spend over $200 million on energy. Energy consumption is equal to 3 – 8% of the production costs of beer, making energy efficiency improvement an important way to reduce costs, especially in times of high energy price volatility.

Often it is possible to achieve energy savings at very low investment costs with attention to improved operations and maintenance. Such improvements can include shutting doors, setting correct head pressure, maintaining correct levels of refrigerant, effectively maintaining cooling units. Equally important is selecting and running appropriate cooling units for control panels and electrical enclosures.

Our cooling units from the ECOOL X series have impressive performance values. Thanks to innovative, brushless direct current technology (BLDC), the DTI 6X1E model offers a performance range of 1,000 to 2,600 W, while the DTI 6X2E goes from 2,000 to 4,300 W. The inverter control of the compressor and the ventilators make the partial-load operation very quiet and energy efficient with an extreme energy efficiency ratio (EER) of >6. Additionally for those companies looking to monitor performance and collect operating data, our new ECOOL X series cooling units offer Industry 4.0 connectivity options to connect to your existing equipment.

When applications include free flowing to very viscous, chunky, particulated and abrasive products and display and PLC are housed in sealed NEMA 4 stainless steel enclosure, we can provide NEMA 4/4 stainless steel cooling units.

Pfannenberg **Solution**

Inverter Cooling units

ECOOL X series
Speed-controlled enclosure cooling units

The innovative, brushless direct current technology (Brushless DC) makes an extreme energy efficiency (EER) of >6 possible.
XC Controller: the operating unit which was developed especially for this series makes communication between the cooling unit and machine control possible and also the integration into production processes. A „Modbus“ communication interface allows integration into the existing machine control or in a cloud solution.

NEMA Cooling Units

NEMA series
enclosure cooling units

We have a standard answer for your specific needs such as outdoor applications, ambient temperature up to +55°C, harsh environment, Food & Beverage applications, UL Listing.
Type 4/4X models have covers made from 304, #3 polish Stainless Steel with a vertical grain for industrial and food grade applications. Non-polish finishes can attract dust and other non-desirable contaminants. The lower carbon 316L are also available for most designs and are considered more corrosive resistant vs. 304 stainless steel.

Global Technical Service

Global Technical Service
for chillers and cooling units from all manufacturers

>> 24/7 worldwide presence
>> commissioning
>> maintenance and repair
>> F-GAS / leakage tests
>> spare part kits
>> service trainings
>> PSS - Pfannenberg Sizing Software

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