# LIQUID COOLING SOLUTIONS

FOR COMMERCIAL BAKERY ELECTRICAL ENCLOSURES





#### SAVE ENERGY, REDUCE MAINTENANCE AND PREVENT DOWNTIME.

Flour is one of the single greatest enemies of enclosure air conditioners in the makeup area of a commercial bakery. The build-up of flour in the air conditioner leads to reduced performance and eventual failure. Without this cooling there is added stress and risk of failure for your VFDs and enclosure electronics. The last thing you need is your operations grinding to a halt.

**Pfannenberg's PWS Series Air/Water Heat Exchangers** are an ideal solution for efficient, trouble free cooling of your electrical enclosures especially in areas with high amounts of airborne particulate. Our PWS Air/Water Heat Exchangers utilize a glycol or cool water source already available in the factory to cool your electrical cabinets. If you need a cool liquid source, Pfannenberg also has a complete line of chillers to complement our Air/Water Heat Exchangers. Manufactured in the USA



 Pfannenberg PWS Series

 Air/Water Heat Exchangers



Available in 304 Stainless Steel (recommended) and RAL 7035 Lt. Gray

www.pfannenbergusa.com

## PWS Series AIR/WATER HEAT EXCHANGERS



650 - 10,000 Watts/h

### UNDERSTANDING THE BENEFITS OF LIQUID COOLING VS. STANDARD COMPRESSOR BASED ENCLOSURE COOLING

With manufacturing space at a premium, machine packages have become smaller and liquid cooling has emerged as the most efficient and economical means of removing process heat. Liquid cooling is especially well adapted to hot, dirty environments where it provides a method of removing the heat not only from the machines, but also from the factory itself.

Cooling System Integration: Advantages to using the available capacity of the existing glycol chiller system to cool your enclosures.

- No compressors means reduced energy usage
- Reduced maintenance vs. clogged systems
- One fan vs. two uses less energy
- 3X the life span of AC Cooling Units
- No filters to clog or change
- Utilizes existing reliable cooling systems



Pfannenberg PWS Series Air/Water Heat Exchanger installed in the make-up area of a large commercial bakery.

### INDUSTRY LEADING ENERGY SAVINGS SOLUTION



Based on an application of 1,055 Watts cooling assuming \$0.07 per KW electrical cost running 8000 hrs/year

