

# Steam Plate Heat Exchanger HESF-1000

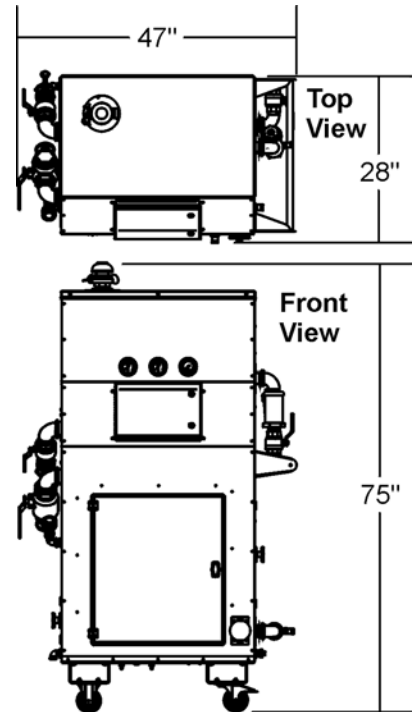
**PATENT  
PENDING**  
DRYAIR 2000 SYSTEM

- Steam-to-fluid plate heat exchanger
- Utilizing steam as the heat source



### Features:

- The system transfers heat from "on-site" steam to a circuit of heat-transfer-fluid that enables the use of any of the DRYAIR accessories for heat distribution.
- Automatic temperature control allows the user to set the desired supply-fluid temperature. Temperature is maintained by modulating the flow of steam through the exchanger.
- One unit will provide enough heating capacity to heat up to 50,000 square feet! (*dependent on the steam source capacity*)
- Using an existing steam source could prove to be the most versatile and economical approach to delivering temporary heat on a construction site / building renovation.



### Specifications

Steam requirements.....For use with low pressure steam  
 ..... 15 psi or less  
 ..... Steam supply and condensate return pipe connections to unit are 1½" FNPT  
 ..... Condensate trap is an integral part of the unit  
 ..... Must be connected to the site supply by a licensed steam-fitter/pipe-fitter  
 ..... Steam pressure reducing valves not included

Fluid distribution  
 2nd circuit .....Heat transfer fluid circuit  
 .....2" hose and Kamlock connections  
 Reservoir .....On-board "open-vented" glycol reservoir  
 .....external connection for an optional external extended reservoir  
 .....A selector valve is used to select either the on-board reservoir or the external reservoir  
 Pump .....2HP, 28SFLA, 13FLA  
 .....50 - 75 US GPM

Electrical  
 System requirements..230V, 1 Ph, 60Hz, 30A  
 Control circuitry.....24V  
 Heat exchanger  
 Type .....304 copper-brazed stainless steel plates  
 .....20 plates  

|                                   |  |                   |
|-----------------------------------|--|-------------------|
|                                   | <b>Hot side</b>  | <b>Cold Side</b>  |
| Fluid .....                       | Water/Steam.....                                       | 50.0% Prop.glycol |
| Mass flow rate .....              | 1036 b/h   | 25120 b/h         |
| Fluid condensed/vaporized ...     | 1036 b/h   | 0.000 b/h         |
| Inlet temperature .....           | 248.4°F  | 135.7°F           |
| Outlet temperature .....          | 229.4°F  | 180.0°F           |
| Saturated temperature .....       | 248.4°F  |                   |
| Pressure drop .....               | 1.67 psi   | 3.28 psi          |
| Operating pressure - in/out ..... | 29.00/27.33 psia                                       |                   |
| Heat exchange .....               | **1000 kBtu/h  |                   |
|                                   | **with 1,036 lb/h of steam and 50 US GPM of fluid flow |                   |

Optional  
 Extended Reservoir package.....Cart type

\* an extended reservoir is required if it becomes necessary to place receiving heat exchangers higher than the central unit.



**Heat Thaw Cure Dry**