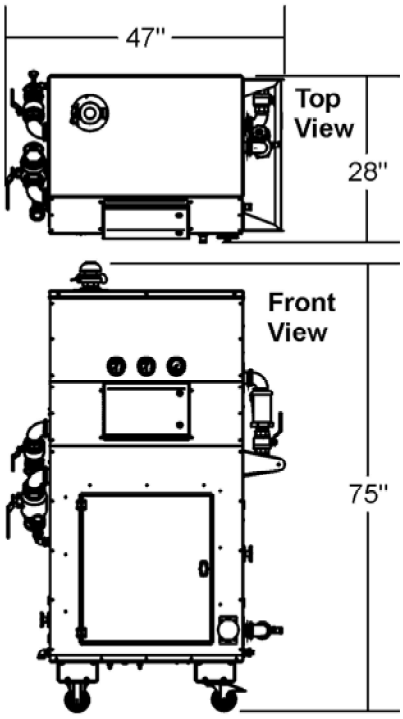
Steam Plate Heat Exchanger

Model HESF-1000

- 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

	Hot side	**Cold Side**
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.*

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