

Steam Plate Heat Exchanger

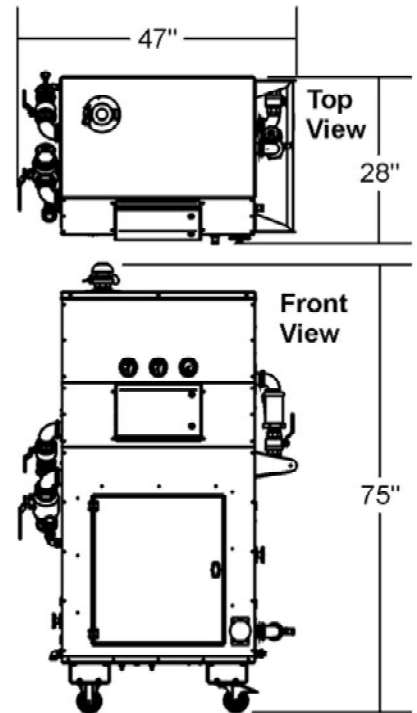
Model HESF-1000

- 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.