



**Heat Thaw Cure Dry**

## Reliable, Efficient Solutions for Heating, Thawing, Curing & Drying

DryAir Manufacturing supplies a full line of modular components assuring that you have the right tools for the widest range of applications

[www.dryair.ca](http://www.dryair.ca)



# Central Heating Units

DRYAIR central heating units (CHUs) warm a heat transfer fluid which is, in turn, pumped through a fluid circulation system loop to heat exchangers at remote locations. The following two types of exchangers are most common:

"Portable heat exchangers" heat and recirculate warm, dry, clean air inside a structure utilizing a heat transfer coil and fan. This type of heat exchanger is used primarily in heating and drying applications.

"Thaw/cure line heat exchangers" transfer heat by direct contact and radiant heat conduction. This type of heat exchanger is used primarily in ground thaw, frost prevention and curing applications.

## CENTRAL HEATING UNITS

Available in propane, natural gas, diesel or steam configurations in sizes ranging from 900,000 BTU's up to 1.2 million BTU's.

All system operations are controlled and

monitored from the central heating unit control panel. Temperature control and fuel usage is automatic. A multi-light system monitoring feature allows easy system troubleshooting.

## PORTABLE HEAT EXCHANGERS

The exchangers' efficient fan/coil design provides a high rate of heat transfer. Built-in, high volume fans provide fast heat delivery and ensure:

- when heating... even heat distribution throughout the structure
- when drying... required air flow to effectively exhaust moisture-laden air from the structure.

## WHY IS THIS METHOD OF SPACE HEATING THE MOST ENERGY EFFICIENT?

- Heat Exchangers are re-heating already warmed inside air making them more efficient than other systems that are required to constantly heat outside cold air up to the desired inside temperature level.

- Thermostat's on each heat exchanger shut them off when the area they are in has reached the desired temperature. A lower demand for heat from the outside Central Heating Unit will allow it to cycle down to a low fire mode or shut off completely when the structure has reached the desired temperature for a further fuel savings.

## GREENSPEC APPROVED

DRYAIR is proud to be recognized by GreenSpec for our energy efficiency and safety as an approved product that can offer LEED's credits on certified projects. DRYAIR systems are approved for LEED's credit IEQc3.1: Construction IAQ management.

## DO MORE WITH DRYAIR ACCESSORIES

Dryair has developed a number of accessories to help maximize what you can do with your CHU. See the Heating Accessories on the back of the product catalog for more information.

### CHU-1200

Fuel: Nat Gas; Propane  
Output: BTU/H – 1,023,390; 941,519  
Heat sq.ft. 40,000; 37,000  
Thaw sq.ft. 18,000; 15,000  
Cure sq.ft. 48,000; 43,500  
Dimensions: 104" L x 45" W x 134" H  
Weight: 1,815 lbs



### CHU-900

Fuel: Nat Gas; Propane;  
Diesel Fuel #1  
or 2 Heating Oil  
Output: BTU/H – 896,000  
Heat sq.ft. 27,000  
Thaw sq.ft. 16,000  
Cure sq.ft. 32,000  
Dimensions: 64" L x 57" W x 98" H  
Weight: 2,800 lbs



### CHU-600

Fuel: Diesel Fuel #1 or 2  
Heating Oil,  
Output: BTU/H – 620,200  
Heat sq.ft. 19,000  
Thaw sq.ft. 11,000  
Cure sq.ft. 25,000  
Dimensions: 64" L x 48" W x 83" H  
Weight: 1,500 lbs  
Gas version available to run LP or NG



### HESF-1000

Heat Source: Low Pressure Steam  
Output: BTU/H – 1,000,000  
Heat sq.ft. 40,000  
Thaw sq.ft. 18,000  
Cure sq.ft. 48,000  
Dimensions: 47" L x 28" W x 75" H  
Weight: 405 lbs



### HE 80

Output: BTU/H – 80,187  
Dimensions: 23" L x 14" W x 34" H  
Weight: 85 lbs



### HE 200

Output: BTU/H – 201,364  
Dimensions: 50" L x 32" W x 39" H  
Weight 210 lbs



### HE200 HD NEW

Output: BTU/H – 201,364  
Dimensions: 43" L x 26" W x 44" H  
Weight: 244 lbs



### HE 600

Output: BTU/H – 512,418  
Dimensions: 81" L x 45" W x 52" H  
Weight: 560 lbs



# Thaw ground in 1/2 the time and reduce fuel costs by 50%!

DRYAIR's patented "Smart Thaw System" is standard in all greenthaw models. By reversing the fluid flow through the field loops means every square foot of ground sees the same amount of energy... giving you an almost perfect thaw pattern... and more importantly, saving you valuable time and reducing energy requirements by as much as 50%!

## UNMATCHED TEMPERATURE CONTROL

The DRYAIR greenthaw system gives you almost perfect control over the temperature of your concrete pour. By adjusting the "Smart Thaw" to the recommended schedule, every square foot of your concrete pour will receive the same amount of heat. This means a uniform curing pattern and less likelihood of problems caused by uneven curing. DRYAIR's 'even heat' approach to curing will also reduce the risk of freezing.

## OUTSTANDING COMBUSTION RELIABILITY

DRYAIR's patented CEC system (combustion environment control system) pre-heats the combustion air and fuel to provide the burner with an ideal combustion environment in the widest range of ambient conditions. Wide outside temperature swings don't faze the DRYAIR greenthaw system... they hum right along!

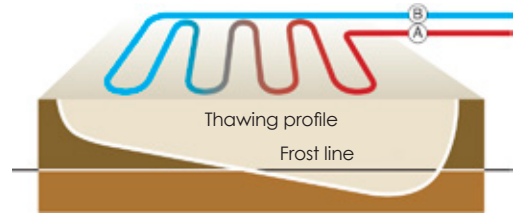
## GET MORE OUT OF YOUR GREENTHAW SYSTEM WITH DRYAIR ACCESSORIES

Need to heat, thaw and cure... all at the same time... with only one greenthaw system? Utilizing Dryair accessories you can do just that, see the back of the product catalog for more information on how our Heating Accessories can be used to maximize the BTU's in your greenthaw system to get your job done in less time and with less fuel cost.

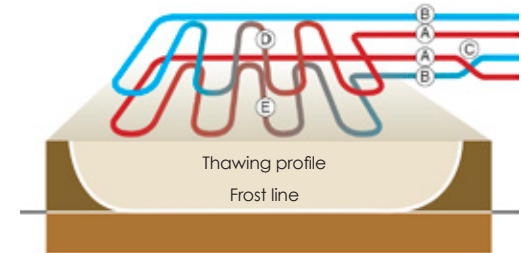
## GROUND THAW APPLICATION

Layout for one line heat exchanger

1. Fluid circulation flow in a single direction.



2. Fluid circulation flow using the "Smart Thaw System".



- A. Heat transfer fluid "supply" – 180°F, 82°C
- B. Heat transfer fluid "return" – 90°F, 32°C
- C. Smart Thaw System
- D. Thaw/cure hose loop – normal flow
- E. Thaw/cure hose loop – reverse flow



### 400GTS

Output: BTU/H – 348,000  
 Fuel Capacity: 150 US GAL  
 Onboard Hose: Max 3,000 ft.  
 Max Thaw Area: 6,000 sq.ft.\*  
 Max Cure Area: 14,000 sq.ft.\*  
 Weight: 5,950 LBS  
 Dimensions: 188" L x 76" W x 98" H



### 600GTS

Output: BTU/H – 620,200  
 Fuel Capacity: 250 US GAL  
 Onboard Hose: Max 4,000 ft.  
 Max Thaw Area: 11,200 sq.ft.\*  
 Max Cure Area: 24,800 sq.ft.\*  
 Weight: 6,600 LBS  
 Dimensions: 195" L x 94" W x 96" H  
 Gas version available to run LP or NG



### 900GTS

Output: BTU/H – 896,000  
 Fuel Capacity: 250 US GAL  
 Onboard Hose: Max 4,000 ft.  
 Max Thaw Area: 16,000 sq.ft.\*  
 Max Cure Area: 35,840 sq.ft.\*  
 Weight: 7,100 LBS  
 Dimensions: 195" L x 94" W x 107" H  
 Gas version available to run LP or NG



\*Additional hoses are required to be added to the greenthaw system to reach maximum thaw and cure areas quoted above.



# Heating Accessories

## Smart Thaw

Patented system reverses direction of flow through thaw/cure hoses at timed intervals to eliminate hot and cold zones and provide even heat across the entire hose pattern. Thaw ground in 1/2 the time with 1/2 the fuel. Cure concrete more evenly for a faster cure and stronger concrete. Standard in all greenhaw's, optional attachment for CHU's when thawing or curing.  
 Dimensions: 30" L x 19" W x 21" H  
 Weight: 75 lbs



## Mixing Booster

Dual Temperature Zones on 1 CHU. The loop from the CHU can go out at 180F for heating or thawing, the loop off the mixing booster can be dialed down to 70°F for example for concrete curing. Boost Flow. The mixing booster can also be used to boost flow up to 300 ft from CHU or another mixing booster.  
 Dimensions: 50" L x 33" W x 25" H  
 Weight: 150 lbs



## Plate Heat Exchanger

Used with CHU's to circulate fluid up to 70' above in high-rise heating applications. Provides a fluid distribution system totally separate from CHU for fluid heating.  
 Dimensions: 52" L x 36" W x 33" H  
 Weight: 500 lbs



## MRV 4000/HRV 6000 Hose Reel

Powered hose reel holds up to 4,000' of 5/8" hose. For use with CHU's or when additional hose is needed for greenhaws for ground thawing or concrete curing applications.  
 Dimensions: 48" L x 42" W x 56" H  
 Weight: 3,400 lbs



# Oil & Gas Accessories

## HE250 EX – Explosion Proof Fan Coil

Output BTU/H – 250,000 BTU/H  
 Dimensions: 42" L x 29" W x 32" H  
 Weight: 212 lbs



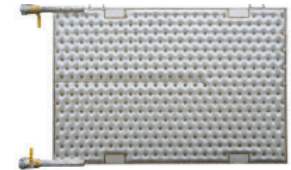
## Mini Plate

Output BTU/H – 60,000 @ 400°F Water  
 Dimensions: 32" L x 18" W x 5" H  
 Weight: 37 lbs



## Mega Plate

Output BTU/H – 270,000 @ 500F Water  
 Dimensions: 4' W x 6' L x 5" H  
 Weight: 170 lbs



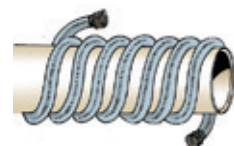
## BHE-1M Bayonet Tank Heat Exchanger

Output BTU/H – 1,000,000 @ 500F Water  
 Dimensions: 66" L x 30" W x 42" H  
 Weight: 368 lbs



## Stainless Steel Flex Pipe

Wrap pipes and valve's for heating and frost prevention. Transfer's 6 times the BTU's per foot compared to rubber hose. Can also be immersed in tanks for fluid heating.



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