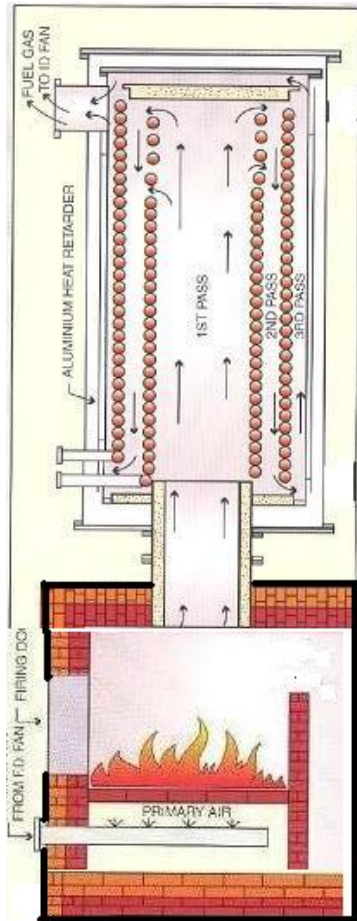




ASCENT MACHINERIES & ENGG. SERVICES

S. No-2, 1st Floor, Nalanda Shopping Center, Station Road, Goregaon (W), Mumbai – 62.
Tel: +91-22-22915887 Fax: 66910293 Mob: 9819063898 Email : ascent08@hotmail.com

ASCENT SOILD FUEL FIRED –THERMIC FLUID HEATER – UTH-W



UNIQUE THERMAL HEATER

UNIFIRE Thermal heating system consists of twin units, a radiation chamber and a convective chamber.

The fuel burnt on stationary grate produces radiant heat, which is absorbed by radiant coil. The residual heat is then passed on to the convective zone of concentric coils, where maximum heat is absorbed. The design guarantees a very low contamination as well as easy cleaning of the gas side-heating surface.

The FD fan & ID Fan provided ensures optimum combustion with low excess-air. Ash cleaning doors are provided for both the chambers. The unit is skid mounted, refractory lined & supplied with ready to use conditions, which reduces the erection time at site.

UNIFIRE SYSTEM ADVANTAGE:

OPERATION WITHOUT PRESSURE: A thermal fluid system can function between 100 C and 350 C without any pressure increase. By way of comparison, the use of steam at 320 C requires a pressure greater than 110 bar and far more complex equipment. Thus UNIFIRE low-pressure system ensures high efficiency, high safety and low cost.

NON-CORROSIVE SYSTEM: The UNIFIRE system requires mineral oil as heat transfer media, which is non-corrosive and free from any foreign particles. This ensures low maintenance cost and higher reliability.

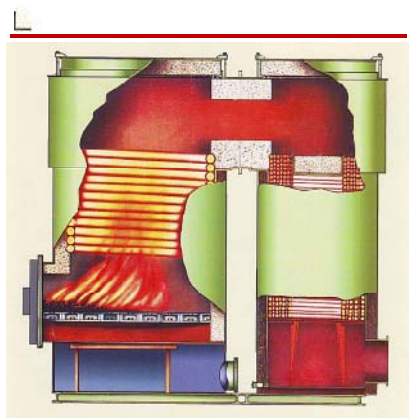
NO EXPLOSION RISKS: UNIFIRE offers low thermal inertia, low pressure system and with fully automatic safety trips ensures fully safe operation.

NO BOILER REGULATION: UNIFIRE heater is outside the purview of Indian Boiler regulations and therefore eliminates the need for annual shut down.

SAFETY AND CONTROLS:

UNIFIRE system provides following safety inter lockings.

1. Outlet temp High - Audio Visual Alarm with ID Fan / FD Fan Trip.
2. Inlet temp high - Audio Visual Alarm
3. Expansion Tank level low - Audio Visual Alarm with ID fan / FD Fan trip
4. Fluid Pressure High - Spring Loaded Safety Valve.
5. Fluid flow low - Audio Visual Alarm with ID Fan / FD Fan trip





ASCENT MACHINERIES & ENGG. SERVICES

S. No-2, 1st Floor, Nalanda Shopping Center, Station Road, Goregaon (W), Mumbai – 62.
Tel: +91-22-22915887 Fax: 66910293 Mob: 9819063898 Email : ascent08@hotmail.com

TECHNICAL SPECIFICATIONS

UTH Series, Thermic Fluid Heater

Model	UTH-10 W	UTH-20 W	UTH -40 W	UTH -60 W	UTH -100 W	UTH 150 W	UTH -200 W	UTH -250
Heat Output - K-cal/hr	1,00,000	2,00,000	4,00,000	6,00,000	10,00,000	15,00,000	20,00,00	25,00,00
Max. Temperature °C	300°C	300°C	300°C	300°C	300°C	300°C	300°C	300°C
Δ T - °C	40°C	40°C	40°C	40°C	40°C	40°C	40°C	40°C
Flow – M3/h	5	10	20	30	50	75	100	125
Head – mIc	50 - 55	50 - 55	50 - 55	50 - 55	50 - 55	50 - 55	50 - 55	50 - 55
Thermal Efficiency	70%	70%	70%	70%	70%	70%	70%	70%
Fuel (Wood) - Kg/hr	40	80	165	245	400	610	815	1020
Coal - Kg/hr	26	52	104	156	260	390	520	650
Briquetted - Kg-hr	30	60	125	190	320	480	635	890
Connected Load - KW	4-0	4.5	8-0	14-0	20-0	31-0	40-0	54-0
Thermic Fluid Content in the Coils-Ltrs	150	260	480	640	1200	1680	2400	3000
Expansion Tank Size - Litres	200	200	500	500	1000	1500	1500	2000
Inlet/Outlet size - mm	40	50	65	80	100	125	150	150
Dry Weight - Tons	2.2	3.2	5.2	6.2	7.4	8.8	10-0	12-0
Overall Dimension - Mtr								
Length	1.2	1.4	1.6	4.2	4.8	5.5	6-0	6.8
Width	1.2	1.4	1.6	2-0	2.3	2.6	2.8	3.2
Height	2-0	3.2	4-0	4.8	5.4	6-0	7.2	8-0

NOTE :

- Fuel Consumption is based on wood having calorific Value of
Wood 3500 K-cal/Kg,
Coal -5500 K-cal/Kg,
Briquette - 4000 K-cal/Kg
- The efficiency is guaranteed with clean internal and external heating surface.
- We reserve the right to alter or change specifications without prior notice.

Other Product Range

