



uniconfort



Wood Waste **HOT AIR HEATERS**

DUST CONTROL ENGINEERING LTD



Our modern offices where auto-cad is used in the design of systems.

The factory includes a well equipped fabrication shop where the assembly of boilers and heaters takes place. In addition a multitude of silo's and storage bunkers are constructed to complement the boilers.

An area is set aside for the manufacture of the refractories a very important and integral part of the combustion systems.

A large spray shop means that the assembled items are finished properly all under cover.



The final inspection and assembly of boilers prior to delivery.

Mr. Dust.

Mr. Dust has the taste, a lust for dust and wooden waste, all your rubbish he likes to eat just to give you lots of heat!

Uniconfort have recently moved into a new purpose built factory not far from the original factory near Castelfranco Veneto where they started building wood burning boilers and heaters in 1955 - fifty years ago.

This lies about 1.5 hours drive from Venice Airport and 35 minutes from Treviso Airport.



The modern storage area means that almost all the standard components are at hand for ease of production and included are high value items such as gear boxes, thermal gauges, sensors and control valves and this facility affords smooth and efficient control of the manufacture.

Our team of electrical engineers manufacture the control panels for each system so that we have in house control over the whole project.

The factory also includes a test facility where boilers and equipment undergo trials to prove their ability to function before delivery to the customer. Here we can develop new ideas especially now that biomass is becoming an important part of the economy.



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FMT/F30 Unit with small silo at the rear

The FMT/F range of wood waste burners is second to none in both quality of manufacture and design performance.

The 50 years of engineering in this field means that we must be doing something right!

The air heaters are designed for the automatic firing of wood waste of all types from MDF dust to hardwood and softwood dust and chips as well as chipboard, plywood and laminates.

The system includes a steel silo which metres the waste into the combustion system. This may be 1 to 8 cubic metres in capacity although larger silos can be made on request.

The smaller silos are fitted with a flat spring type feeder whilst the larger systems have a conical screw out feed.

The feed unit is driven by a reduction gearbox. The waste is taken up by a horizontal screw feed which delivers the dust and chip to the combustion chamber. A second motor drives the screw through an adjustable gear drive.

The silo is also fitted with a sight panel and level switch to control the waste in the system.

In the stoker screw a water injection system prevents burn back to the silo to prevent fire propagation and give peace of mind to the operator.



FMT/500 Unit showing combustion equipment

The combustion system includes a fan/fans which provide primary and secondary air for the firing and thus allow the system to operate without smoke. The air is thoroughly mixed with the fuel and this is controlled automatically by directional damper controls.

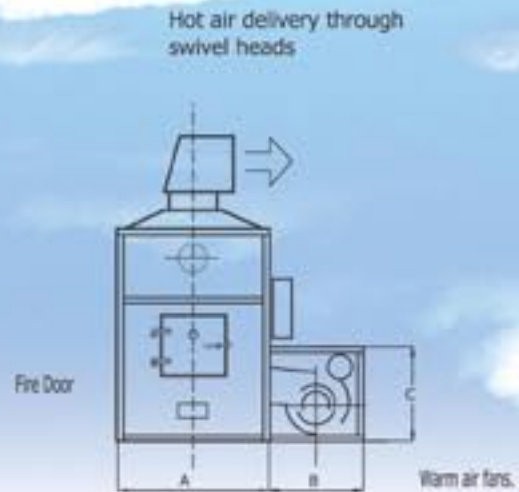
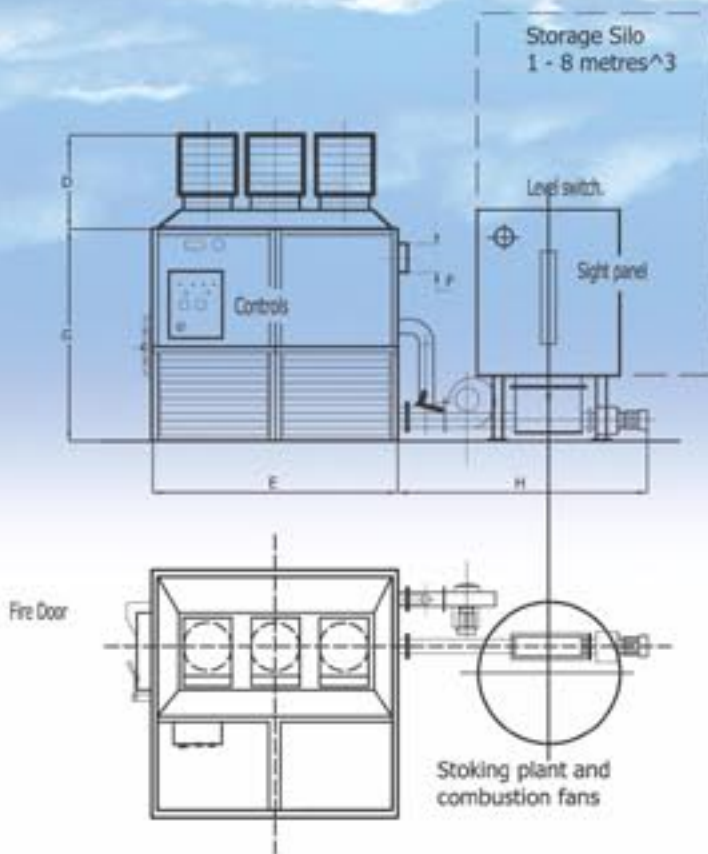
The large fire chamber is lined with high temperature refractory material and this allows the combustion to take place without the danger of exposing the steel heat exchanger directly to the radiant heat of the fire. The fire grate is made up from high grade carbon steel segments which are fully replaceable.

Surrounding the combustion chamber is a Stainless Steel Heat Exchanger with a number of tubes aligned to cross the air flow which is produced by single, double or triple fan units mounted to the side of the heater and which provide the hot air for factory heating purposes.

The flue connection may be connected to an induced draught fan and grit arrestor to comply with the Clean Air Act or other local authority regulations. A single skin stainless steel chimney is usually supplied as required.



A small hand fired air heater - details on request



This data sheet shows the standard format for the layout of the FMT/F range of wood fired air heaters. Other arrangements, with remote silo's and feed systems can be produced as required.

Contact us for additional information about this and our other range of steam and hot water boilers. We can handle all types of waste from very dry MDF dust through to extremely wet timber products.

Model No	Kj/Cal/hr.	Kw/hr	Air Volume	Fuel Cons. kg/hr	A	B	C	D	E	Flue Ø	G	H
FMT/F5	50,000	58	4,000	17	700	700	750	580	1000	200	1500	2500
FMT/F6	60,000	70	4,800	20	700	700	750	580	1000	200	1500	2500
FMT/F7	70,000	81	5,600	23	700	700	750	580	1000	200	1500	2500
FMT/F8	80,000	93	6,500	27	900	800	800	610	1250	200	1600	2500
FMT/F10	100,000	116	8,000	33	900	800	800	610	1250	200	1600	2500
FMT/F12	120,000	140	9,600	40	900	800	800	610	1250	200	1600	2600
FMT/F15	150,000	174	12,000	50	1000	750	750	730	1500	250	1700	2600
FMT/F17	170,000	197	14,000	57	1000	750	750	730	1500	250	1700	2600
FMT/F20	200,000	232	16,000	67	1050	800	800	730	1800	250	1800	2600
FMT/F22	220,000	256	18,000	73	1050	800	800	750	1800	250	1800	2600
FMT/F25	250,000	290	20,000	83	1100	800	800	770	2000	300	1900	2600
FMT/F27	270,000	314	22,000	90	1100	800	800	770	2000	300	1900	2600
FMT/F30	300,000	349	24,000	100	1200	1000	1000	770	2200	300	2100	2700
FMT/F35	350,000	407	28,000	117	1200	1000	1000	770	2200	300	2100	2700
FMT/F40	400,000	465	32,000	133	1400	1000	1000	800	2300	350	2300	2700
FMT/F45	450,000	523	36,000	150	1400	1000	1000	800	2300	350	2300	2700
FMT/F50	500,000	581	40,000	167	1600	1000	1000	970	2600	400	2450	2700

Dimensions shown are approximate and we reserve the right to change these at anytime.

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