



# Hot Water Generators for Solid Fuels

*CMT Series*

## CMT/F Series

Hot Water Generators with  
FUOCOMATIC Fuel Feed  
System for Solid Biomass Fuels

- 22 Standard Generator Packages
- Hot Water at 95°C (203°F)
- Proprietary Emission Control Equipment
- Silent Operation
- Fully Automated Operation
- Proprietary Automated Fuel Handling
- Thermostatically Controlled
- Modular Design
- Ease of Access for Inspections & Maintenance
- Proven Robust Designs
- Highest Quality Construction

### Options

- Automatic Ash Removal
- PLC & Remote Monitoring
- 100% Capacity Co-Fire Backup
- Material Handling Equipment



The Uniconfort hot water generators offered by Alternative Energy Solutions provide a consistent flow of hot water at 95°C (203°F) or 0.7 barg (10 psi) saturated steam for many industrial heating applications. Our hot water generators are well suited for any heating application to reduce your energy costs.



Alternative Energy  
Solutions

Providing Solutions For A Better Tomorrow

Alternative Energy Solutions is a licensee  
of Uniconfort Technology & Equipment.



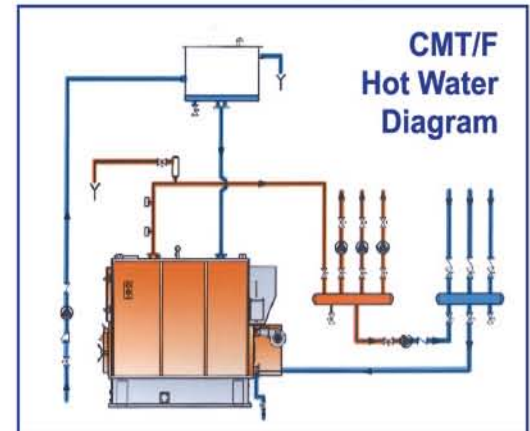
# Hot Water Generators for Solid Fuels - CMT/F Series

The proprietary FUOCOMATIC Automatic Fuel Feeding System is comprised of a container for surge fuel feeding and an internal feeding device complete with a reduction gear, variable speed motor for fuel flow and control.

The separate metal base section that houses the FUOCOMATIC Auger Burner (Fuel Feed) System is covered with a refractory rammed lining for high temperatures and extended operation. The clear combustion space allows for an efficient transfer of heat to the water.

Each model may be supplied with a support plate for the installation of oil or gas burners to provide full capacity of the generator should solid biomass fuel become unavailable.

Due to the low grate temperature of the combustion system (600°C/1110°F) and the combination of the staged combustion, the fuel and ash remain below fusion temperatures; thus minimizing clinkering common with high ash fuels. The ash extraction system can be fully automated and connected to an ash collection box.



## CMT/F Series Key Features

- Heat exchanger is made of high quality steel & designed for maximum heat transfer yield.
- Plenums at each end are designed to allow for easy & quick cleaning.
- Large pipe sizes have been selected to ensure an efficient transfer of heat from fuel to the process water.
- Varnished to protect against corrosion.
- Handles most fuels up to 50% relative humidity.

All product information is subject to change without notice.

Model	Output			Dimensions			
	kcal/h	kW	MMbtu/h	L (m - ft)	W (m - ft)	H (m - ft)	Wt (kg)
CMT/F8	80,000	92.8	0.31	3.80 (12.46)	0.90 (2.95)	2.10 (6.89)	2,160
CMT/F10	100,000	116	0.39	3.80 (12.46)	0.90 (2.95)	2.10 (6.89)	2,160
CMT/F15	150,000	174	0.59	4.12 (13.51)	1.00 (2.95)	2.34 (7.68)	3,080
CMT/F20	200,000	232	0.79	4.12 (13.51)	1.00 (2.95)	2.34 (7.68)	3,080
CMT/F25	250,000	290	0.99	4.53 (14.86)	1.10 (3.28)	2.54 (8.33)	4,130
CMT/F30	300,000	348	1.18	4.53 (14.86)	1.10 (3.28)	2.54 (8.33)	4,130
CMT/F35	350,000	406	1.38	4.70 (15.42)	1.21 (3.97)	2.69 (8.82)	4,380
CMT/F40	400,000	464	1.58	4.70 (15.42)	1.21 (3.97)	2.69 (8.82)	4,380
CMT/F45	450,000	522	1.78	4.95 (16.24)	1.40 (4.59)	2.80 (9.18)	5,360
CMT/F50	500,000	580	1.97	4.95 (16.24)	1.40 (4.59)	2.80 (9.18)	5,360
CMT/F60	600,000	696	2.37	5.40 (17.71)	1.55 (5.08)	2.90 (9.51)	7,700
CMT/F70	700,000	812	2.77	5.40 (17.71)	1.55 (5.08)	2.90 (9.51)	7,700
CMT/F80	800,000	928	3.16	5.60 (18.37)	1.95 (6.40)	2.90 (9.51)	9,640
CMT/F100	1,000,000	1,160	3.95	5.60 (18.37)	1.95 (6.40)	2.90 (9.51)	9,640
CMT/F120	1,200,000	1,392	4.75	6.05 (19.84)	2.13 (6.99)	2.90 (9.51)	12,570
CMT/F140	1,400,000	1,624	5.54	6.05 (19.84)	2.13 (6.99)	2.90 (9.51)	12,570
CMT/F160	1,600,000	1,856	6.31	6.55 (21.48)	2.13 (6.99)	3.13 (10.27)	14,280
CMT/F200	2,000,000	2,320	7.91	6.75 (22.14)	2.13 (6.99)	3.13 (10.27)	14,800
CMT/F250	2,500,000	2,900	9.89	7.15 (23.45)	2.13 (6.99)	3.13 (10.27)	16,500
CMT/F300	3,000,000	3,480	11.87	7.70 (25.26)	2.13 (6.99)	3.13 (10.27)	18,960
CMT/F350	3,500,000	4,070	13.85	8.00 (26.24)	2.25 (73.38)	3.25 (10.66)	21,608
CMT/F400	4,000,000	4,650	15.83	8.50 (27.88)	2.25 (73.38)	3.25 (10.66)	22,958

**Over 2,500  
Units Installed!**

Combustion Chamber Refractory Lining  
Chrome Cast Iron Furnace



Access Doors for Inspection & Maintenance



Retractable Burner Assembly

