A Fire-Tube Design with Maxim Quality and Durability

The MBT is a fire tube type heat recovering unit that can be supplied in various configurations. It is used primarily on large reciprocating engines and those that use heavy fuel.

Size Range: Exhaust connections from 14" through 36" in diameter

Features
- Hot water or steam generation
- Horizontal or vertical configuration
- Certified quality standards, ASME Section VIII (Std.), ASME Section I, U.S. Coast Guard, American Bureau Ships, ASME Sect. IV, and other options available
- Single or two pass arrangements
- Various exhaust connection locations
- Various pressure ratings available
- Critical grade noise attenuation

Construction: All sizes incorporate provisions for the difference in expansion of the tubes and shell. Pressure containing shell and tubesheet shall be constructed of SA-516 gr. 70 carbon steel. Tubes shall be SA-178A carbon steel and strength welded in the tube sheets. The unit shall be provided with properly sized fluid connections and include safety valve(s) per ASME code requirements.

Flow Diagram
Exhaust gas enters the unit and passes through the tubes where heat is transferred to the water. Configurations available for generating steam or hot water (steam unit shown).

Optional internal diverter available on two pass units. Consult Maxim Silencers, Inc. for application specification.
### NOMENCLATURE

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1. Model designation
2. Nominal heat transfer area (sq. ft.)
3. Nominal exhaust inlet/outlet diameter (in.)
4. Two gas side passes
5. Horizontal orientation (H)
   Vertical orientation (V)
6. Water heater (W)
   Steam generator (S)
7. Design pressure 165 psi

**EXAMPLE:**

**MBT-721-14-2-V-W-165D**

A unit for a nominal 721 sq. ft. heating surface - 14” inlet and outlet exhaust connections - two pass unit - vertical orientation - hot water service - 165 psig - with a diverter valve (internal or external).

*Add “D” if diverter valve is required*
NOTES:

- Constructed and stamped for 165 psi service
- Furnished with internal steam separator and level controller
- Tubes strength welded to tubesheets
- Exterior paint - one coat of high temperature black
- Expansion joint designed for wet start-up from ambient
- Special configurations allow cold, dry start-up
- Trunnions and tailing lugs for lifting are standard with units

- Dimensions and locations of level controller and connections may be subject to change (certified drawings will be issued after order)
- Ship loose controls consist of: liquid level controller, low/high level alarms, low water cutoff, gauge glass, pressure gauge, safety valve, modulating feed valve, automatic air vent and bottom and surface blowdown valves
- Vertical or horizontal configurations available
- Optional factory installed insulation is available

*Weights shown above do not include insulation
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- Tubes strength welded to tubesheets
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- Special configurations allow cold, dry start-up
- Trunnions and tailing lugs for lifting are standard with units
- Dimensions and locations of connections may be subject to change (certified drawings will be submitted after order)
- Ship loose controls consist of: safety relief valve, air vent valve
- Vertical or horizontal configurations available
- Optional factory-installed insulation is available
* Weights shown above are without insulation