

# Thermocoil – Coil Tube Steam Boiler



**Automatic Packaged Recirculating Coil Tube Generators  
for unattended operation in specific jurisdictions.  
Low and High Pressure Steam applications from 75 to 600BHP.**

- Capacity** – 75 BHP (736 kw) to 600 BHP (5,885 kw) output.
- Pressure** – Standard 15 PSIG (1 BAR) to 500 PSIG (34.5 BAR) or higher as specified.
- Fuels** – Natural Gas and Number 2 Oil.
- Efficiency** – Up to 85% efficiency with economizers.
- Codes** – ASME, NATIONAL BOARD or as specified.  
Complies with local code requirements as applicable.
- Environmental** – Compliance with current noise and emissions regulations.

## design and operation improvements

- Redesigned combustion air blower for whisper quiet operation.
- Multi blade damper on inlet to combustion blower provides lower excess air levels and radiation convection losses.
- New natural gas control systems provide greater ease of combustion setup, higher combustion efficiencies and lower NOX levels.
- PLC based flame safeguard control system with optional expanded annunciator.
- PLC based multiple boiler lead lag control system with optional DTAM operator, interface c/w percent modulation feedback allowing for each boiler to be operated at its maximum efficiency range at all times.
- A new 4-20 ma Honeywell Modulating Burner Control provides more precise control and percentage feedback for the PLC based Lead Lag control system.
- Redesigned flue gas economizer available with s/s wrapper sheets.
- Optional pneumatic feedwater control systems.

## standard equipment features

- Fully modulating burner with 8-1 turndown on Natural Gas and number 2 Oil.
- Switch controls and warning devices located in a central control panel at the front of the boiler skid for ease of operation and trouble shooting.
- All coils have individual monitoring sensors.
- Automatic timer controlled bottom blowdown.
- Manual continuous blowdown or optional automatic TDS control available.
- Steam separation drum guarantees 99% plus dry saturated steam.
- Heavy duty gauge glass assembly.
- Rear door access at floor level without disturbing refractory seal.
- All electrical boxes are oil/dust tight.
- All electrical conduit liquid tight.
- Separate high voltage side panel.
- Combustion air blower at floor level for ease of inspection and maintenance.
- Recirculating pump and combustion blower direct drive.
- Most service connections located at common junction point.
- Double walled boiler shell preheats combustion air and cools outer casing, thereby minimizing radiation losses.
- Fuel to steam efficiencies up to 85% with heat recovery.

### Performance Data, Sizes and Dimensions\*

RATED BOILER CAPACITY B.H.P.	EQUIVALENT EVAPORATION PPH FROM & AT 212°F	THERMAL OUTPUT BTU/HR (XCAL/HR) x 1000	FLUE OUTLET CONNECTION INCHES (mm)	APPROXIMATE FUEL CONSUMPTION		DIMENSIONS INCHES (mm)			APPROXIMATE SHIPPING WEIGHT LBS (Kg)
				NATURAL GAS SCFH	#2 FUEL OIL GPH (Lits/H)	L (A)	W (B)	H (C)	
75 A	2,587	2,511 (633)	12 (305)	3,138	20 (91)	110 (2,794)	82 (2,083)	96 (2,438)	6,000 (2,721)
100 A	3,450	3,348 (844)	14 (356)	4,185	25 (114)	106 (2,692)	82 (2,083)	96 (2,438)	6,600 (2,994)
150 A	5,175	5,021 (1,265)	16 (406)	6,276	38 (173)	114 (2,896)	82 (2,083)	100 (2,540)	8,400 (3,810)
200 A	6,900	6,695 (1,687)	18 (457)	8,367	50 (227)	114 (2,896)	82 (2,083)	100 (2,540)	8,200 (3,727)
200 B	6,900	6,695 (1,687)	18 (457)	8,367	50 (227)	123 (3,124)	92 (2,337)	116 (2,946)	11,000 (4,990)
250 B	8,625	8,369 (2,109)	20 (508)	9,990	63 (286)	123 (3,124)	92 (2,337)	116 (2,946)	13,300 (6,033)
300 B	10,350	10,043 (2,531)	24 (610)	12,553	63 (227)	123 (3,124)	92 (2,337)	116 (2,946)	13,300 (6,033)
350 B	12,075	11,717 (2,953)	24 (610)	14,646	75 (341)	131 (3,327)	92 (2,337)	116 (2,946)	14,200 (6,441)
400 B	13,800	13,391 (3,374)	24 (610)	16,739	100 (455)	139 (3,530)	92 (2,337)	116 (2,946)	16,900 (7,666)
450 B	15,525	15,065 (3,795)	24 (610)	18,881	112 (455)	139 (3,530)	92 (2,337)	116 (2,946)	17,300 (7,846)
400 C	13,800	13,391 (3,374)	24 (610)	16,739	100 (455)	158 (4,013)	116 (2,946)	124 (3,150)	28,000 (12,954)
500 C	17,250	16,738 (4,218)	26 (660)	20,922	125 (568)	168 (4,267)	116 (2,946)	124 (3,150)	32,000 (14,515)
600 C	20,700	20,086 (5,062)	28 (711)	25,107	150 (682)	178 (4,521)	116 (2,946)	124 (3,150)	35,800 (16,239)

\*Subject to change without notice. Oil fired available for #2 and diesel oil only.

\*The descriptions and specifications contained in this brochure are approximate and were in effect at the time of printing. Thermogenics policy is one of continuous improvement and update. Changes to specific models may occur at anytime without notice or incurring any obligation.

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