

# 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 to 600 BHP output.
- PRESSURE** – Standard 15 PSIG to 500 PSIG 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 ensures quiet operation.
- Redesigned damper blades on combustion blower provide lower excess air levels.
- Redesigned burner increases efficiency.
- PLC based flame safeguard with optional linkage-less control.
- 4-20 ma modulation for feedback to PLC based Lead/Lag Control.
- Completely flexible on burner management systems.
- Solid state coil temperature system with individual temperature readouts and set points.
- Pneumatic or electric feedwater control systems.

## STANDARD EQUIPMENT FEATURES

- Fully modulating burner with 8-1 turndown on Natural Gas and #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)	
75A	2,587	2,511 (633)	12 (305)	3,138	20 (91)	110 (2,794)	82 (2,083)	96 (2,438)	6,000 (2,721)
100A	3,450	3,348 (844)	14 (356)	4,185	25 (114)	106 (2,692)	82 (2,083)	96 (2,438)	6,600 (2,994)
150A	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)
200A	6,900	6,695 (1,687)	18 (457)	8,367	50 (227)	114 (2,896)	86 (2,083)	103 (2,540)	8,200 (3,727)
250B	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)
300B	10,350	10,043 (2,531)	24 (610)	12,553	63 (286)	130 (3,124)	92 (2,337)	116 (2,946)	13,300 (6,033)
350B	12,075	11,717 (2,953)	24 (610)	14,646	75 (341)	130 (3,327)	92 (2,337)	116 (2,946)	14,200 (6,441)
400B	13,800	13,391 (3,374)	24 (610)	16,739	100 (455)	148 (3,530)	92 (2,337)	116 (2,946)	16,900 (7,666)
450B	15,525	15,065 (3,795)	24 (610)	18,881	112 (511)	148 (3,530)	92 (2,337)	116 (2,946)	17,300 (7,846)
400C	13,800	13,391 (3,374)	24 (610)	16,739	100 (455)	156 (4,013)	112 (2,946)	124 (3,150)	28,000 (12,954)
500C	17,250	16,738 (4,218)	26 (660)	20,922	125 (568)	168 (4,267)	112 (2,946)	124 (3,150)	32,000 (14,515)
600C	20,700	20,086 (5,062)	28 (711)	25,107	150 (682)	178 (4,521)	112 (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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