

# Thermocoil – ST Series Steam Generator



**Automatic Packages Once-Through Coil Tube Generators  
for unattended operation in specific jurisdictions.**

**Low and High Pressure Steam applications from 40 to 200 BHP.**

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|-----------------------------|---|
| <b><u>CAPACITY</u></b>      | – 40 BHP to 200 BHP output.   |
| <b><u>PRESSURE</u></b>      | – Standard 15 PSIG to 2700 PSIG.  |
| <b><u>FUELS</u></b>         | – Natural gas and Number 2 oil.   |
| <b><u>EFFICIENCY</u></b>    | – Up to 85% efficiency with economizers.  |
| <b><u>CODES</u></b>         | – ASME, NATIONAL BOARD or as specified.<br>Complies with local code requirements as applicable. |
| <b><u>ENVIRONMENTAL</u></b> | – Compliance with current noise and emissions regulations.                                      |

MANUFACTURED IN CANADA BY:  
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## DESIGN AND OPERATION IMPROVEMENTS

- 4-20 ma fuel/water system. No servo required.
- Redesigned combustion air blower ensures quiet operation.
- Redesigned burner increases efficiency.
- PLC based flame safeguard with optional linkageless control.
- 4-20 ma modulation for feedback to PLC based Lead/Lag Control.
- Complete flexibility on burner management systems.
- Solid state coil temperature system with individual temperature readouts and set points.
- Pneumatic by-pass control systems.

## STANDARD EQUIPMENT FEATURES

- Quick steaming 0-150 psi in less than 5 minutes.
- 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.
- Coils have monitoring sensors.
- Automatic timer controlled bottom blowdown.
- Large face gauges.
- Steam separator guarantees 99% plus dry saturated steam.
- Dry contacts for remote alarms.
- High pressure quick disconnect hoses for ease of maintenance.
- All electrical boxes are oil/dust tight.
- All electrical conduit liquid tight.
- Separate high voltage side panel.
- Heavy duty reciprocating triplex pump with dampening device.
- Most service connections located at common junction point.
- Quiet compact design less than one quarter size of conventional boilers.
- 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)	
40	1,380	1,339 (337)	10 (254)	1,675	12.0 (54)	84 (2,133)	48 (1,219)	80 (2,032)	4,000 (1,818)
65	2,243	2,176 (548)	10 (254)	2,680	19.0 (86.5)	84 (2,133)	48 (1,219)	80 (2,032)	4,000 (1,818)
100	3,450	3,348 (844)	13 (330)	4,185	30.0 (136.5)	87 (2,210)	60 (1,524)	82 (2,083)	5,300 (2,409)
150	5,175	5,021 (1,266)	15 (381)	6,276	45.0 (205)	96 (2,438)	60 (1,524)	109 (2,769)	7,200 (3,292)
200	6,900	6,695 (1,688)	18 (457)	8,367	50.0 (227)	96 (2,438)	63 (1,600)	106 (2,692)	7,700 (3,500)

\*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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