



AIR HANDLERS WITH
TUBULAR HEATERS

SOUTHAMPTON INDUSTRIAL

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INDUSTRIAL

INDIRECT GAS FIRED TUBULAR HEATERS



Southampton Industrial's HTM series of air handlers are equipped with 80%+ efficiency indirect fired tubular heaters. Standard heat exchanger construction is 409 stainless steel backed up by a 10 year pro-rated warranty.

As with all Southampton Industrial equipment, the HTM series is fully customizable from the programmable controls to fan selection and beyond. Highly specific materials and design features can be requested to meet or exceed specifications for applications such as food processing, clean rooms and water treatment plants.

HEATER CONTROLS

- Direct ignition controls systems w/LED flash fault indicator
- Includes draft inducer, ignition control, gas valve, spark igniter, flame sensor, air proving switch, flame rollout switches and high limit safety
- Features lockout with auto reset (30-sec. pre-purge) three ignition trials (60-sec. purge between trials), 60-sec. post purge at end of each operating cycle, and auto reset one hour after lockout
- SSV – Single-stage operation with single-stage valve and draft inducer
- TSD – Two-stage gas valve with two-speed draft inducer operation (high fire 100%, low fire 55%)
- MGV – Full electronic modulation from 20% to 100%. Controls include modulating controller/amplifier with junction box, modulating gas valve
- MGC – Full electric modulation from 20% to 100%. Constant efficiency throughout the modulation range
- SPL – Split manifold with 10 to 1 modulation

HEATER FEATURES

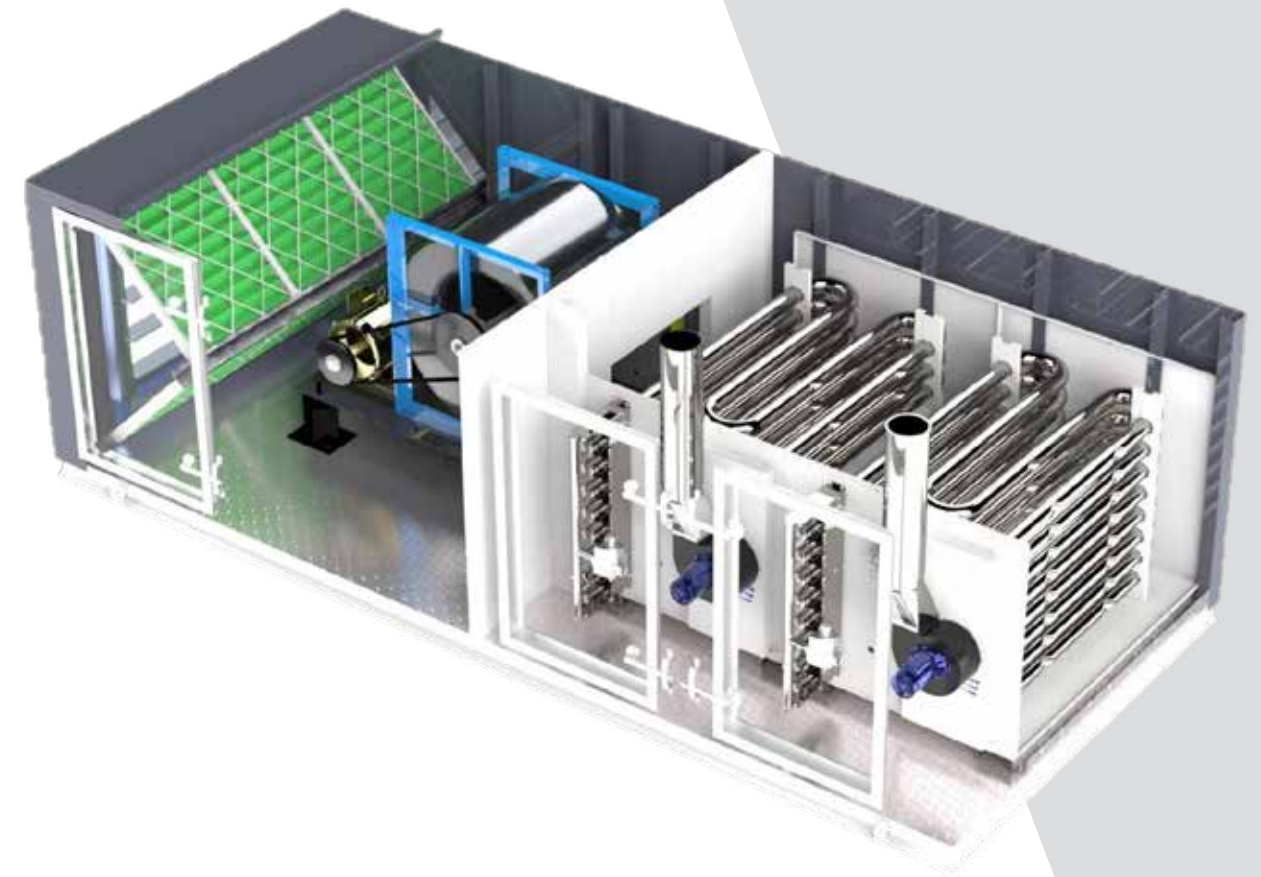
- 80%+ efficiency
- Up to 120°F temperature rise
- Input capacities from 150,000 to 1,500,000 btuh
- Two & four-pass configurations
- Turndown ratios up to 30:1
- 409 stainless steel construction

HEATER OPTIONS

- High gas pressure regulator
- High/low gas pressure switches
- FM or IRI gas trains
- Propane applications
- 304 stainless steel construction

AIR HANDLER OPTIONS

- Indoor or outdoor construction
- Return air or 100% makeup air configuration
- Mixing box and relief air options
- Horizontal or vertical arrangement
- 16 or 18 gauge construction
- 1 to 4 inch casing thicknesses
- Solid liners and wash down provisions
- Welded structural steel base
- Galvannealed, galvanized or stainless steel casing
- Fan options include airfoil, plenum, forward curved and fan array
- Chilled water or DX cooling
- Insulated/low leakage dampers
- Energy recovery options up to 95% effectiveness using EnergyCore™
- Programmable controllers from all major manufacturers
- Remote or unit mounted controls
- Variable airflow options
- Advanced filtration options (chemical, HEPA, UV)
- ODP, TEFC, IEEE 841 and EC motors
- Southampton automation systems can be combined with HTM series air handlers to provide complete HVAC equipment/automation systems
- Factory integration testing of combined HVAC and automation systems provides trouble free operation at job sites
- Additional custom options and configurations available



MODEL	PERFORMANCE DATA						
	MIN. AIR FLOW (CFM)	MAX AIR FLOW (CFM)	MIN. TEMP RISE (°F)	MAX TEMP RISE (°F)	INPUT (MBH)	OUTPUT (MBH)	TURNDOWN
HTM 150	1,010	2,222	50	110	150	120	10:1
HTM 200	1,347	2,963	50	110	200	160	5:1
HTM 300	2,020	4,444	50	110	300	240	5:1
HTM 400	2,694	5,926	50	110	400	320	5:1
HTM 500	3,367	7,407	50	110	500	400	5:1
HTM 600	4,040	8,889	50	110	600	480	10:1
HTM 700	4,714	10,370	50	110	700	560	10:1
HTM 800	5,387	11,852	50	110	800	640	10:1
HTM 900	6,061	13,333	50	110	900	720	10:1
HTM 1000	6,734	14,815	50	110	1000	800	10:1
HTM 1100	7,407	16,296	50	110	1100	880	15:1
HTM 1200	8,081	17,778	50	110	1200	960	15:1
HTM 1300	8,754	19,259	50	110	1300	1040	15:1
HTM 1400	9,428	20,741	50	110	1400	1120	15:1
HTM 1500	10,101	22,222	50	110	1500	1200	15:1

NOTE: See catalog for additional performance data and configurations for both high and low airflow models.