

Residential/Commercial Gas Condensing High Efficiency Tankless Water Heaters



FEATURES

ULTRA-LOW NO_x CONDENSING TECHNOLOGY PROVIDES UNPRECEDENTED 0.95 ENERGY FACTOR

DURABLE HEAT EXCHANGER

- Primary Heat Exchanger is constructed of HRS35 Commercial-Grade Copper which is more resilient against erosion
- Secondary Heat Exchanger is made of Type 316L Stainless Steel to protect against corrosion

CONTINUOUS MAXIMUM FLOW RATES UP TO 10.0 GPM

ENERGY STAR® QUALIFIED

AVAILABLE IN NATURAL GAS OR PROPANE (LP)

T-H3-DV & T-H3-OS CAN BE USED IN BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS

ELECTRONIC IGNITION - NO PILOT LIGHT

INDOOR MODEL - INCLUDES A BUILT-IN TEMPERATURE CONTROLLER AND ADVANCED DIAGNOSTICS TO SIMPLIFY TROUBLESHOOTING

OUTDOOR MODEL - INCLUDES A WALL MOUNT TEMPERATURE REMOTE CONTROLLER AND ADVANCED DIAGNOSTICS TO SIMPLIFY TROUBLESHOOTING

FACTORY-INSTALLED POWER CORD INCLUDED FOR INDOOR MODELS

EASY-LINK UP TO 4 UNITS (T-H3 MODELS ONLY)

- With no additional parts or accessories needed

MULTI-LINK UP TO 20 UNITS (T-H3 MODELS ONLY)

COMPLIES WITH LEAD FREE STANDARDS

SAFETY FEATURES:

- Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

INTERNAL FREEZE PROTECTION SYSTEM

POWER DIRECT VENT DESIGN

- Exhaust, 3" PVC Venting up to 70 Feet or 4" PVC Venting up to 100 Feet
- Provides flexible venting with PVC, CPVC, or ABS Pipe for Intake and Exhaust (solid core only). Canadian Installations Require ULCS636 Listed PVC or CPVC Pipe for Venting.
- Category IV Stainless Steel venting can also be used

ACCESSORIES

- Pipe Cover
- Neutralizer Kit
- Isolation Valve Kits
- Concentric Termination

WARRANTY

- 12-year limited warranty on heat exchanger in residential applications
- 5-year limited warranty on heat exchanger in commercial applications
- 5-year limited warranty on all parts



**INDOOR MODELS
T-H3J-DV, T-H3S-DV, T-H3-DV**



**OUTDOOR MODELS
T-H3J-OS, T-H3S-OS, T-H3-OS**



ANSI Z21.10.3
CSA 4.3

T-H3 model only



TANKLESS HIGH EFFICIENCY CONDENSING MODELS

MODEL NUMBER	FUEL TYPE	GAS CONSUMPTION INPUT		INLET GAS PRESSURE		ENERGY FACTOR (EF)	MAX GPM*	HOT/COLD GAS CONN.	DIMENSIONS IN INCHES			UNIT WEIGHT (LBS)
		MIN. BTU/H	MAX. BTU/H	MIN. W.C.	MAX. W.C.				A HEIGHT	B WIDTH	C DEPTH	
INDOOR												
T-H3J-DV-N	Natural	15,000	160,000	5.0	10.5	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3J-DV-P	Propane	13,000	160,000	8.0	14.0	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3S-DV-N	Natural	15,000	180,000	5.0	10.5	0.95	8.0	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3S-DV-P	Propane	13,000	180,000	8.0	14.0	0.95	8.0	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3-DV-N	Natural	15,000	199,000	5.0	10.5	0.95	10.0	3/4" NPT	22-1/2	17-3/4	10-3/4	59
T-H3-DV-P	Propane	13,000	199,000	8.0	14.0	0.95	10.0	3/4" NPT	22-1/2	17-3/4	10-3/4	59
OUTDOOR												
T-H3J-OS-N	Natural	15,000	160,000	5.0	10.5	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3J-OS-P	Propane	13,000	160,000	8.0	14.0	0.95	6.6	3/4" NPT	22-1/2	17-3/4	10-3/4	58
T-H3S-OS-N	Natural	15,000	180,000	5.0	10.5	0.95	8.0	3/4" NPT	22-1/2	17-3/4	10-3/4	58
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T-H3-OS-P	Propane	13,000	199,000	8.0	14.0	0.95	10.0	3/4" NPT	22-1/2	17-3/4	10-3/4	59

All dimensions are in inches.

15-150 psi Water Pressure. 40 psi or above is recommended for maximum flow.

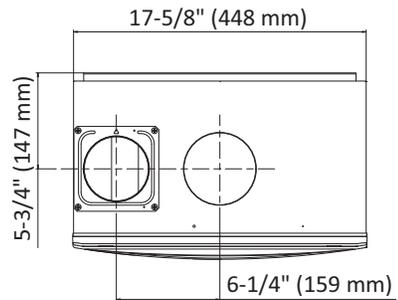
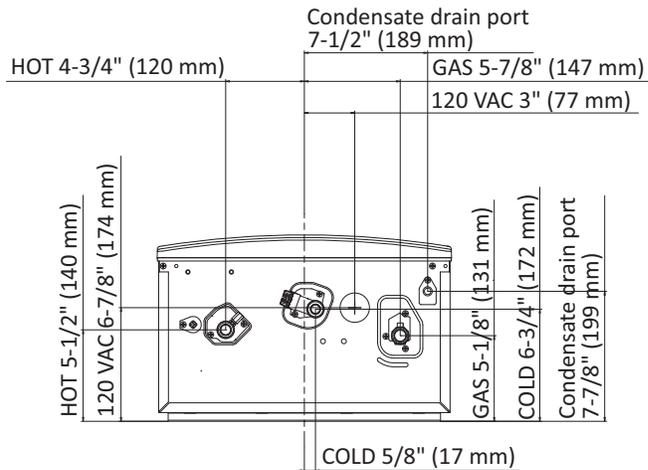
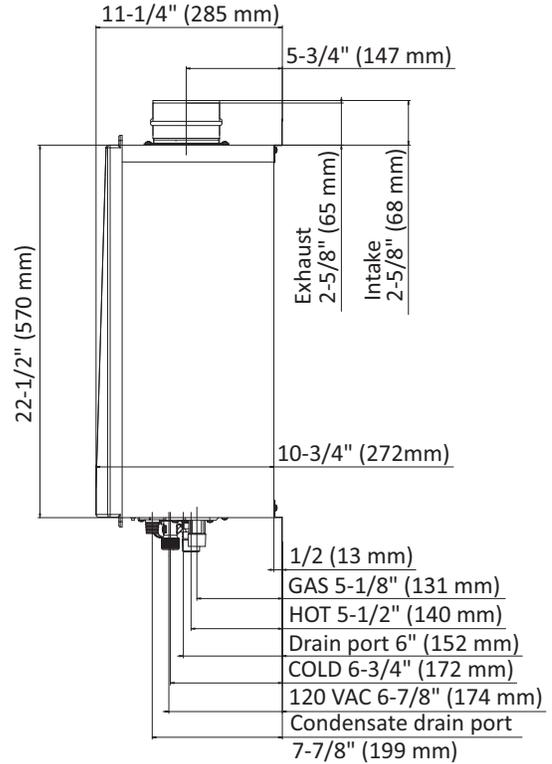
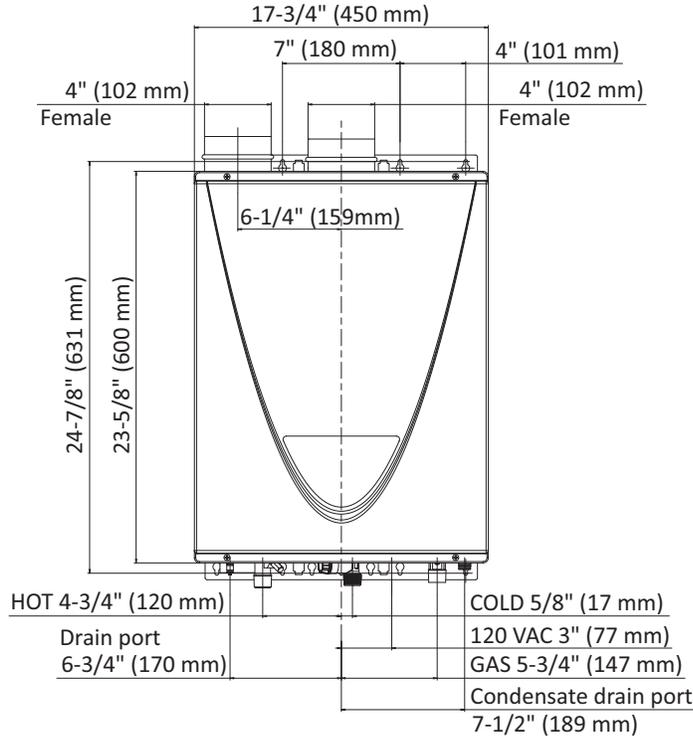
*Current numbers based on factory testing; 0.4 GPM required for continuous fire after initial ignition.

Indoor models are certified from sea level to 10,100 ft. elevations.

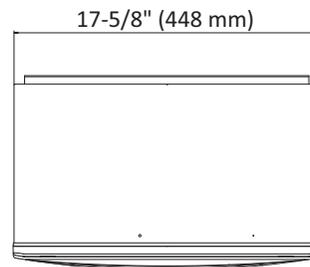
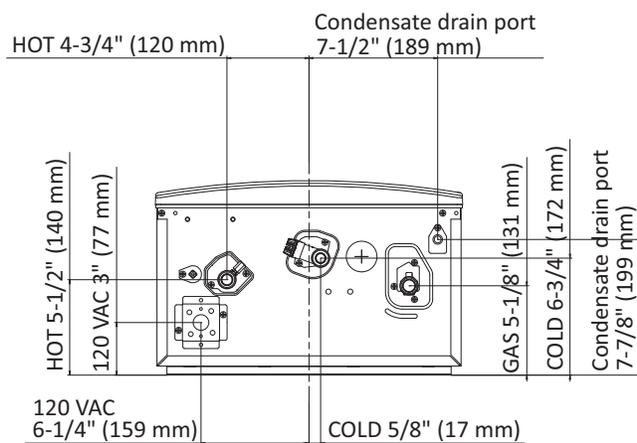
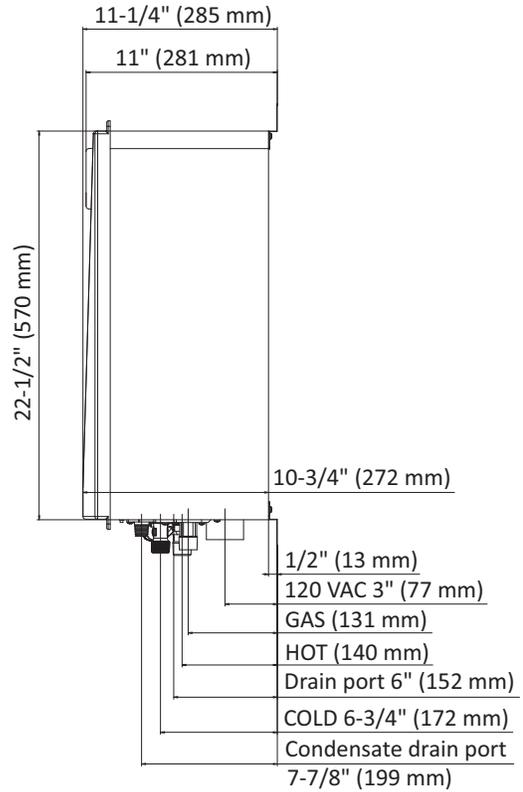
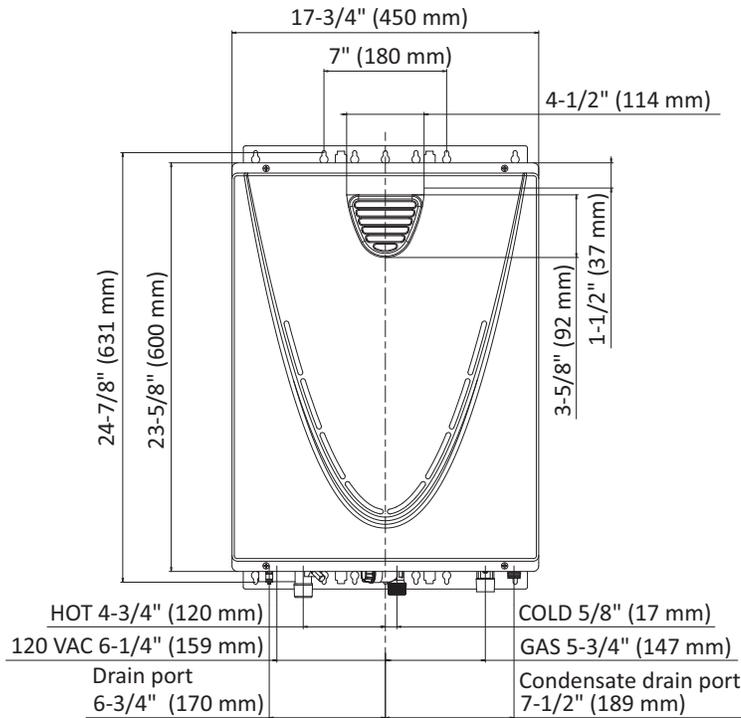
In accordance with ANSI Z21.10.3, CO emission does not exceed 400 PPM for normal input.

The manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligation.

INDOOR MODEL



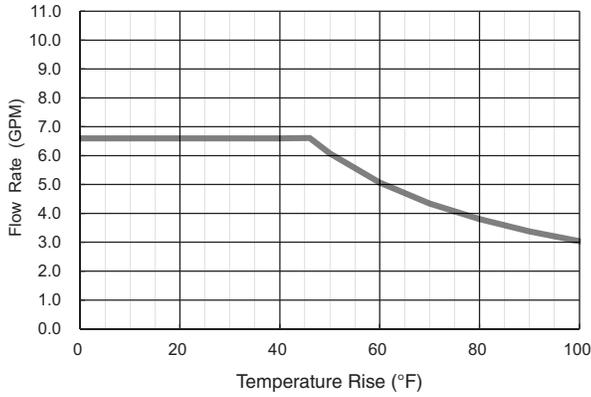
OUTDOOR MODEL



FLOW RATE vs TEMPERATURE RISE

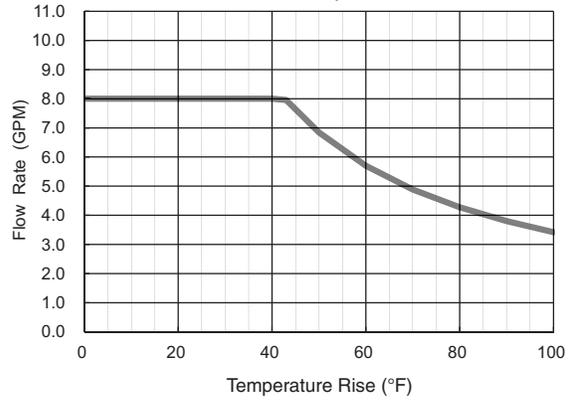
T-H3J-DV/OS

Flow Rate vs. Temperature Rise



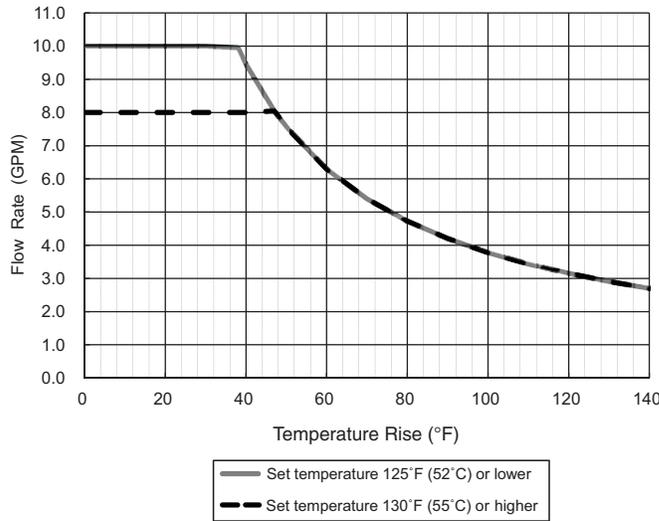
T-H3S-DV/OS

Flow Rate vs. Temperature Rise



T-H3-DV/OS

Flow Rate vs. Temperature Rise



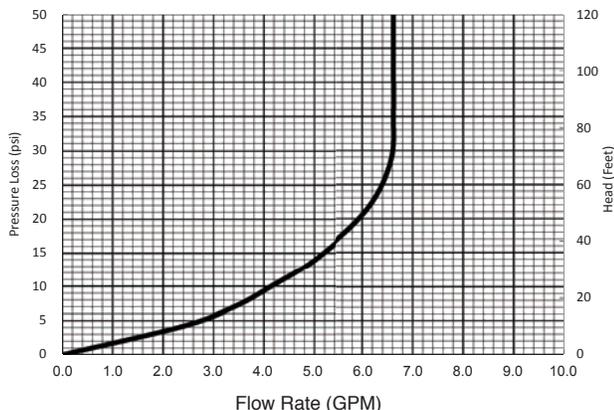
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PRESSURE LOSS

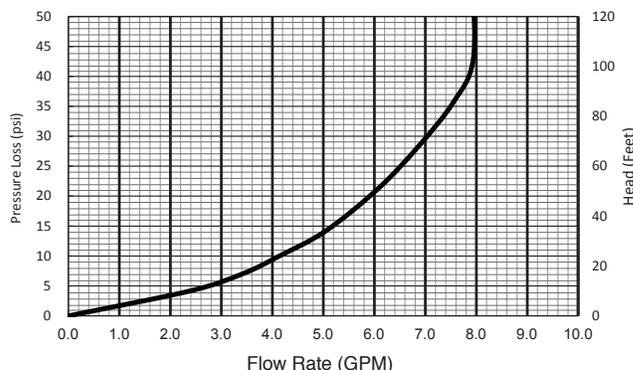
T-H3J-DV/OS

Pressure Loss



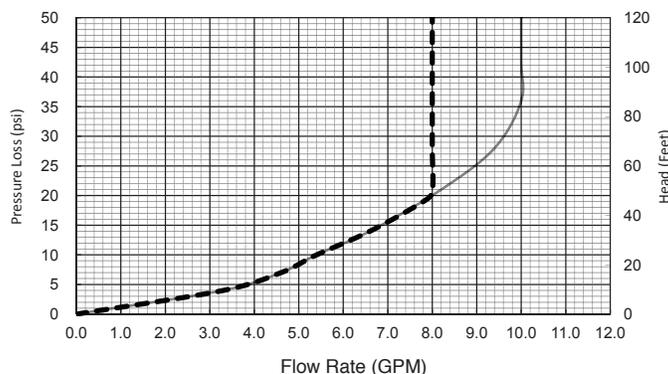
T-H3S-DV/OS

Pressure Loss



T-H3-DV/OS

Pressure Loss



— Set temperature 125°F (52°C) or lower
 - - - Set temperature 130°F (55°C) or higher

Specification

Water heater(s) shall be Model _____ as manufactured by Takagi Water Heaters, shall be a copper coil integral fin and tube construction with quick release brass or bronze waterways. Heater(s) will be factory assembled and tested.

The heater shall be vented with 3" or 4" Schedule 40 PVC, CPVC, or ABS vent pipe, or stainless steel Category IV vent pipe at a distance not to exceed 70' (equivalent) for 3" vent or 100' (equivalent) for 4" vent, terminating vertically or horizontally as prescribed. Intake air pipe may be of such material as ABS, PVC, galvanized B-Vent, corrugated aluminum or stainless steel, or Category IV stainless steel not to exceed 70' (equivalent) for 3" vent or 100' (equivalent) for 4" vent.

The heater(s) shall be controlled by an onboard solid-state printed circuit board monitoring incoming and outgoing temperatures with factory installed thermistors, sensing and controlling flow rate to set point temperature, controlling both air and gas mixture inputs to maintain thermal combustion efficiency. The heater(s) shall also consist of inline fusing, a spark ignition and sensor system, aluminized stainless steel burners, an air-fuel ratio sensor, a hi-limit temperature switch, modulating and proportional gas valves, a freeze protection sensor with ceramic heating blocks, and an overheat cutoff fuse.

The water heater(s) shall be CSA listed, exceed the energy efficiency requirements of ASHRAE 90.1b-1992, and shall comply with SCAQMD Rule 1146.2 Ultra-Low NOx Standards.

TAKAGI TANKLESS WATER HEATERS

500 Wald, Irvine, CA 92618

Toll Free: (888) 882-5244

Fax: (949) 770-3171