



# Model T-K3-OS



## Description/Application

The T-K3-OS is a fully modulating, gas fired, tankless, on demand water heater. Installed outdoors only, and used in either residential or commercial applications. Supplies hot water to: domestic hot water systems (directly or indirectly using water storage tanks), recirculation systems, hydronic heating systems, radiant floor heating systems, and/or combined domestic & heating applications etc.

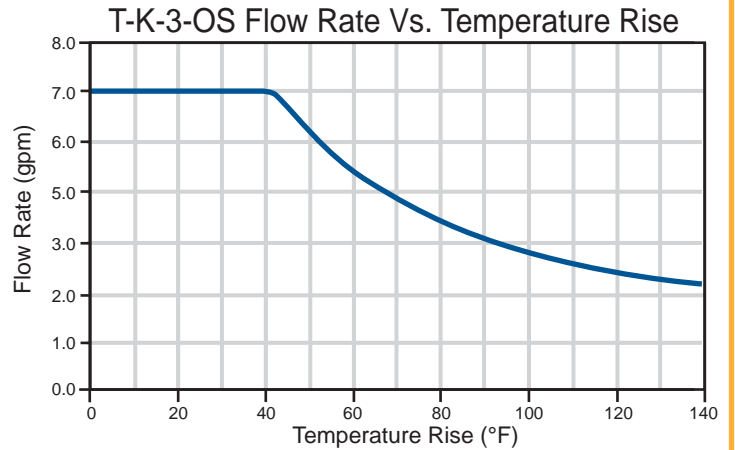
## Fuel: NG or LP

### Safety Features

- Built in Freeze Protection
- Manual Reset Hi Limit (Set at 194°F)
- Overheat Cut Off Fuse
- Inlet, Outlet Thermistors for Constant Temperature Monitoring
- Air Fuel Ratio Rod
- Flame Sensor

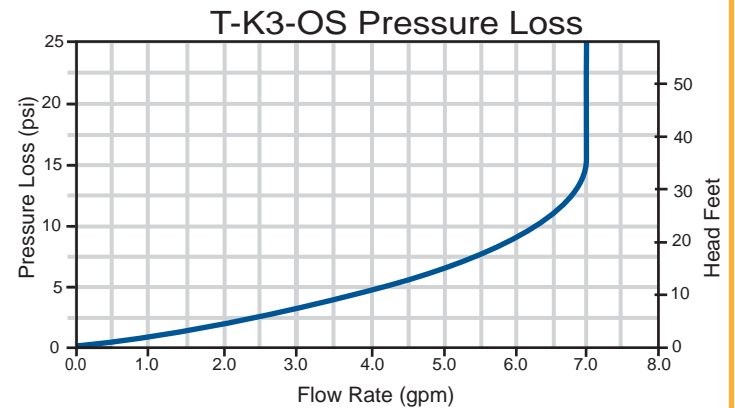
## Venting and Combustion

(Not Applicable For The T-K3-OS)



## Accessories (optional)

- TK - RB02 Recess Box
- TK - PC01 Pipe Cover
- TK - RE02 Temperature Remote Control
  - 150' Max Distance from Heater
  - Non-Polarized 18 Gauge Control Wiring



## Temperature Settings

**Dip Switch:** 113°F 122°F (default) 140°F 167°F

### TM-RE02 Remote Controller

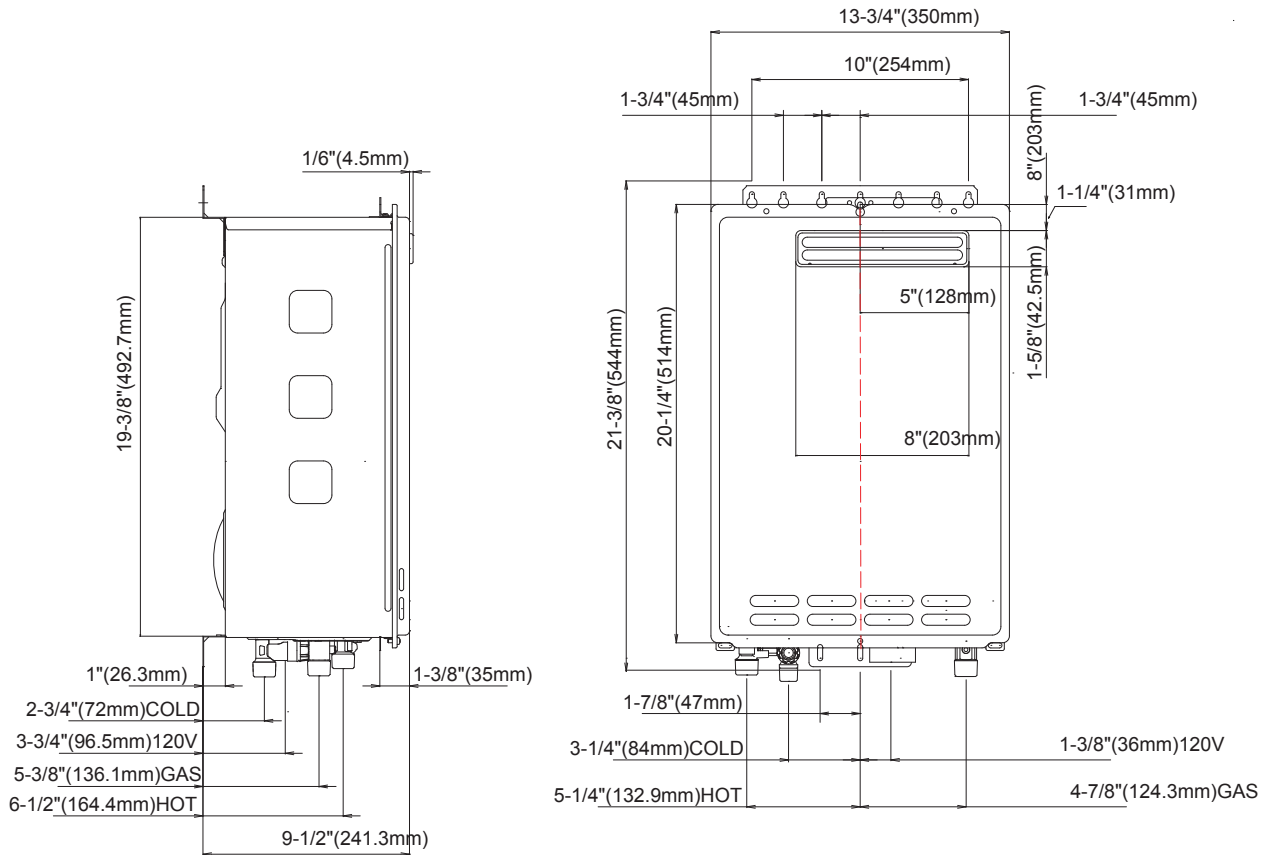
Default Mode: 99°F 100°F 102°F 104°F 106°F 108°F 110°F 111°F 113°F 115°F 117°F  
 122°F 131°F 140°F 158°F 167°F

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Met SCAQMD rule 1146.2 (certified by BR Lab)



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### T-K3-OS:

	HT	W	D	WT	Volt	Amp	Connections
	20.5"	13.8"	8.5"	40 lbs.	120	0.77	3/4" NPT
	Input	Input					
	Max BTU/h	Min BTU/h		Energy Factor	Min Press	Max. Press	
NG	190,000	11,000		0.82	5.0" W.C.	10.5" W.C.	
LP	190,000	11,000		0.82	8.0" W.C.	14.0" W.C.	
	GPM	Water PSI		Coil Cap			
	0.5 - 7.0*	15 - 150 PSI**		≈0.2 Gallons			

Clearances	Top	Bottom	Front	Back	Sides
Outdoor	36"	12"	24"	1"	2"

\* Category III Required \*\*Current numbers based on factory testing, 0.4 GPM Required for Continuous Fire After initial Ignition.

\*\* Pressure Only Relief Valve Requires (Min. 200,000 BTUs. 150 PSI). Min 40 PSI or above recommended for maximum flow.

Takagi USA reserves the right to change or discontinue the design, drawing and/or specification of its products without notice at anytime.

### Specification

Water heater(s) shall be Model T-K3-OS as manufactured by Takagi Industrial Company, Inc. The Flash water heater(s) 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(s) shall be controlled by onboard solid state printed circuit board monitoring incoming and outgoing temperatures with factory installed thermistors, sensing and controlling flow rate to set point temperature with control both air and gas mixture inputs to maintain thermal combustion efficiency. Unit also consists of inline fusing, spark ignition and sensor system, aluminized stainless steel burners, air-fuel ration rod, Hi limit switch, modulating and proportional gas valves, freeze protection sensor and heating block and overhead cut-off fuses.

The water heater(s) shall be CSA listed, exceeds the energy efficiency requirements of ASHRAE 90.1b-1992 and listed by SCAQMD rule 1146.2 Low NOx.