



Model T-KJr.



TRUESDAIL
LABORATORIES, INC.

NSF-61 Standard+ SCAQMD 1146.2**

Description / Application:

Fully modulating, gas fired, tankless, on demand water heater with sealed combustion (optional) and power-vented flue. Can be installed either indoors or outdoors, 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
- Flue Backdraft Pressure Switch
- GFI Power Supply Connection
- Flame Sensor

Venting and Combustion

- 4" Category III Stainless Steel
- Vertical or Horizontal Installation
- 35' Max Length, 3 elbows max (90° elbows = 5' equivalent length)
- Power Vent
- Electronic Ignition
- 3" Combustion Air Intake (with optional kit)
- 53 dB Noise Level at Max Output

Accessories:

- TK - TV03 Vent Damper
- TK - TV01 Wall Ventilation Terminator (indoor)
- TK - TV13 Wall Ventilation Terminator (Direct Vent)
- TK - TV04 Outdoor Vent Cap
- TK - TV09 Direct Vent Conversion Kit (optional)
- TK - RE02 Temperature Remote Control (optional)

Remote Controller

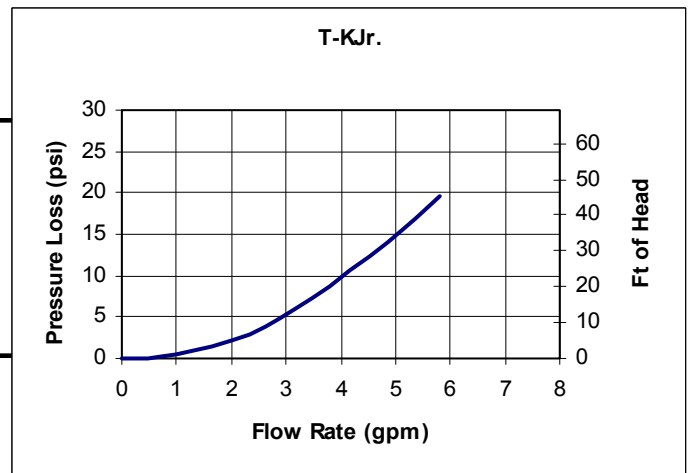
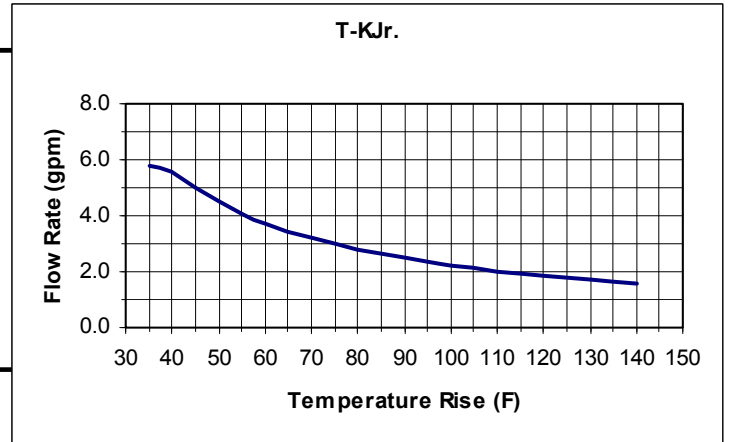
- 150' Max Distance From Heater
- Non Polarized 18 Gauge Control Wiring

Temp Settings

Dip Switch:	113°F	122°F (default)	140°F	182°F				
TK-RE02 Remote:	99°F	100°F	102°F	104°F	106°F	108°F	109°F	111°F
	113°F	115°F	117°F	122°F	131°F	140°F	158°F	167°F

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+Complied w/NSF-61 standard (certified by TL Lab)
 ++Met SCAQMD rule 1146.2 (certified by BR Lab)

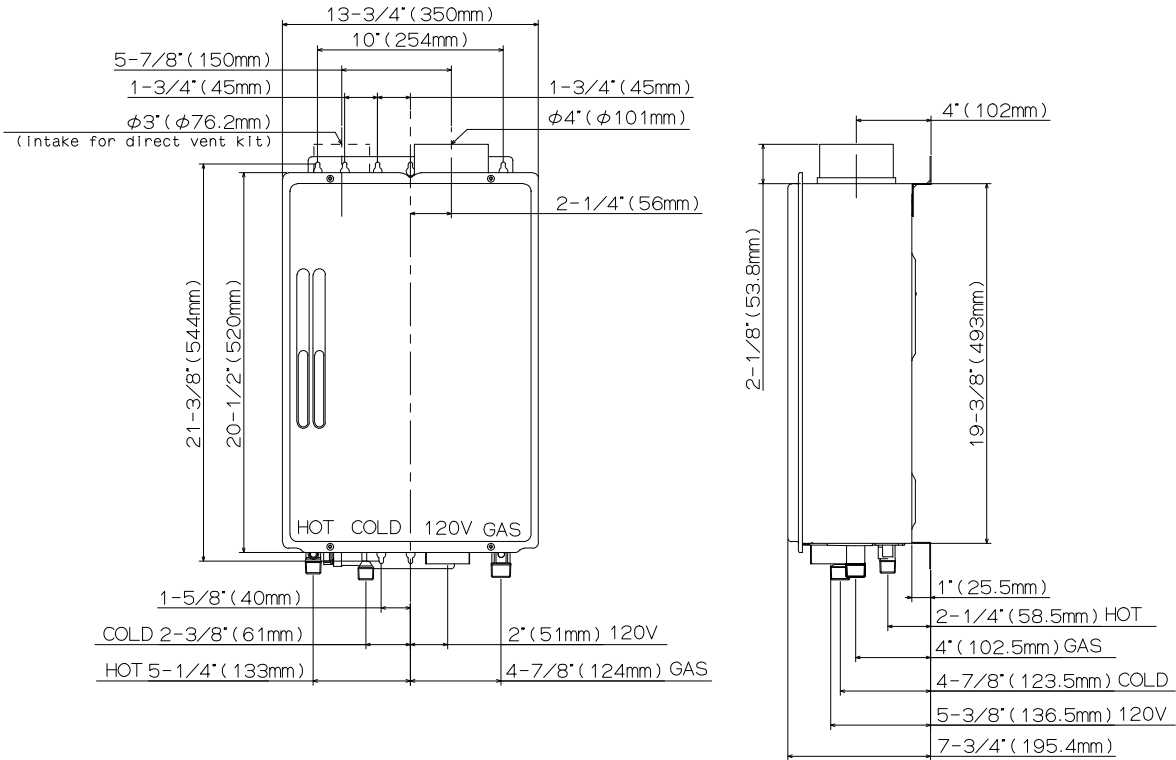




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T-KJr :	HT	W	D	WT	Volt	Amp	Flue	Intake	(Hot/Cold/Gas) Connections
	20"	14"	6"	32 lbs.	120	0.51	4" O.D.*	3.0" O.D. (Opt.)	3/4" NPT
	Input Max BTU	Input Min BTU	Energy Factor	Min Press	Max. Press				
NG	140,000	19,500	0.81	5.5" W.C.	10.5" W.C.				
LP	140,000	17,500	0.83	9.5" W.C.	14" W.C.				
	GPM	Water PSI	Coil Cap.						
	0.75 - 5.8**	15 - 150 PSI***	≈0.2Gallons						
Clearances	Top	Bottom	Front	Back	Sides				
Indoor	12"	6"	24"	1"	2"				
Outdoor	36"	12"	24"	1"	6"				

* Category III Required ** Current numbers based on factory testing, 0.6 GPM Required for Continuous Fire After Initial Ignition
 *** Pressure Only Relief Valve Requires (Min. 200,000 BTUs. 150 PSI).Min. 50 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

Flash water heater(s) shall be Model T-KJr. 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 shall be vented with 4" stainless steel Category III vent pipe a distance not to exceed 35' (equivalent) feet terminating vertically or horizontally as prescribed. Intake air with optional direct vent kit may be of such material as PVC not to exceed a total of 35' (equivalent). 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 ground fault interrupter, inline fusing, spark ignition and sensor system, aluminized stainless steel burners, Hi limit switch, modulating and proportional gas valves, freeze protection sensor and heating block and overheat 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.