



January 2006. Irvine, CA

T-H1:	HT	W	D	WT	Volt	Amp	Flue	Intake	(Hot/Cold/Gas) Connections
	29.5	18.9	11.8	90 lbs.	120	0.75	4" O.D.*	3" O.D. (Opt.)	3/4" NPT
	Input		Input						
	Max BTU	Min BTU	Eff%	Energy Factor	AFUE	Min Press.	Max Press.		
NG	199,000	15,000	91%	.92	85.2	5.0" wc	10.5" wc		
LP	190,000	18,000	95.1%	.94	85.2	11.0" wc	14.0" wc		
	GPM	DOE GPH	TDH - Ft.****	TDH - PSI****	Water PSI	Coil Cap.			
	8.5 - 0.75**	276	70.5 - 1.16	30.5 - 0.5	150 - 15 PSI***	≈0.6 Gallons			
Clearances	Top	Bottom		Front	Back	Sides			
Indoor	12"	12"		24"	1"	2"			
Outdoor	36"	12"		24"	1"	2"			

* Category III Required ** Current numbers based on factory testing, 0.6 GPM Required for Continuous Fire After Initial Ignition

*** Pressure Only Relief Valve Required (Min 200,000 BTUs, 150 PSI)

**** Refer to Pressure Loss Chart for Temps Above 140°F

Warranty 7 yrs Heat Exchanger, 2 yrs Parts Only (as of January 2006)

Specification

Flash water heater(s) shall be Model TH1 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 50' (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 50' (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 which 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, vent pressure switch, Hi limit switch, modulating and proportional gas valves, freeze protection sensor and heating blocks 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.