

# Takagi, #1 in Quality.

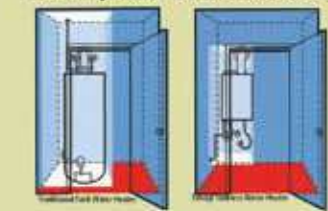
## Takagi has it all:



Endless Hot Water™

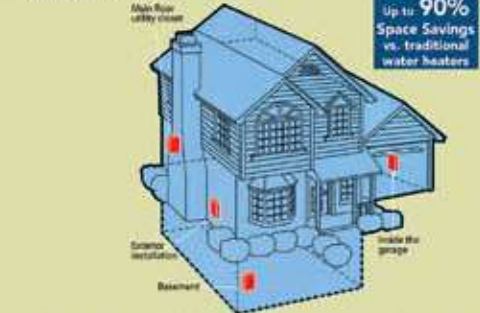
### Space Savings

Takagi vs. Tank water heater  
With no tank to steal valuable floor space, Takagi's wall-hung design frees up your basement, garage or utility room for additional storage and versatility.



### Flexibility of Location

Within the home  
Lightweight and easy to install, the placement of a Takagi water heater is open to almost any possibility... in closets, under stairs, even outdoors.



Takagi tankless can be used for many different applications.



Domestic Hot Water



Radiant Heating



Snow Melt

### Disaster Support:



Takagi and Brookstone Emergency Services provided Hot showers for the fire fighters and evacuees.

### Katrina Disaster Support:



Takagi was there providing 100 showers for rescue services.



Most reliable and widely recognized.

### Takagi is Green:

Takagi is committed to protecting public health and the environment. In addition to developing a quality line of Tankless products that are energy efficient, our products are "GREEN-Friendly."

- Takagi Tankless Products Are Energy Efficient: 82-95%
- Takagi Tankless Units use less energy: 20 to 50% energy savings.
- Takagi Meets the Low NOx Standards by SCAQMD.
- Takagi Products Produce Less Waste.

Environmentally Friendly Products.

Takagi is an official ENERGY STAR PARTNER of the Residential Water Heater Program!



### Match the unit to your need

Number of showers each Takagi unit can handle, depending on ground water temperature.

	Warmer Climates 70° F Incoming Groundwater Temperature	Cooler Climates 40° F Incoming Groundwater Temperature
T-K Jr.	2 Showers	1 Shower
T-K3-SP	3 Showers	2 Showers
T-K3-OS	3 Showers	2 Showers
T-K3	3 Showers	2 Showers
T-H1	4 Showers	3 Showers
T-K3-Pro	3 Showers	2 Showers
T-M32	4 Showers	3 Showers
T-M50	6 Showers	4 Showers

Assuming the outgoing temperature is 105°F - Assuming a standard showerhead of 2.5 GPM

### Quality products and innovation

Takagi was the first tankless-only water heater company to enter the North American market. We exclusively manufacture our own state-of-the-art circuit boards, guaranteeing the highest quality control of the system.

- Gas-and-air mixture is constantly regulated for optimal efficiency. Water temperature flowing in and out is monitored continuously, maintaining a constant output temperature. Exhaust from the unit is closely monitored, and a built-in safety system automatically shuts down the unit in the event of any irregularity and provides instant failure code information.

### The smarter answer for any application

- Safer, smarter and easier to place in a home, Takagi tankless water heaters are the perfect solution for a broad range of hot-water applications. Properly sized for the job at hand, a Takagi will supply a steady flow at the designed temperature for as long as it's needed, wherever it's needed. Residential, commercial, institutional or industrial, Takagi tankless water heaters are the right choice for any number of applications.



### Takagi in your Neighborhood

(as of September 2008)

**Headquarters**  
5 Whatney  
Irvine, California 92618 USA  
Toll Free: 888.882.5244  
Tel: 949.770.7171  
Fax: 949.770.3171

**Canada Office**  
3480 Laird Rd., Unit 1,  
Mississauga, Ontario L5L5Y4  
Toll free: 877.877.4953  
Tel: 905.593.9682  
Fax: 905.828.7384

### Branch Offices:

**North East**  
Pennsauken, NJ  
Tel: 856.488.5777

**North Central**  
Naperville, IL  
Tel: 630.778.0985

**South Central**  
Houston, TX  
Tel: 281.463.3654

**Northern California**  
Pleasanton, CA  
Tel: 925.416.7810

**North Los Angeles**  
Sherman Oaks, CA  
Tel: 818.788.1198

**North West**  
Coupeville, WA  
Tel: 206.914.6022

**Hawaii**  
Honolulu, HI  
Tel: 808.343.4261

**South East**  
Clearwater, FL  
Tel: 727.540.0002

### Flow Rate Guide Temperature Rise vs Gallons Per Minute

Temp rise	T-K Jr	T-K3-SP / T-K3-OS	T-K3	T-H1	T-K3-Pro	T-M32	T-M50
35	5.8	7	7	8.5	7	9	14.5
40	5.7	7	7	8.5	7	9	14.5
45	5.1	6.9	7	8.1	7	8.5	13.5
50	4.6	6.2	6.5	7.3	6.5	7.7	12.1
55	4.2	5.7	5.9	6.7	5.9	7	11
60	3.8	5.4	5.4	6.1	5.4	6.4	10.1
65	3.5	4.8	5	5.6	5	5.9	9.3
70	3.3	4.4	4.7	5.2	4.7	5.5	8.7
75	3.1	4.1	4.3	4.9	4.3	5.1	8.1
80	2.9	3.9	4.1	4.6	4.1	4.8	7.6
85	2.7	3.7	3.9	4.3	3.9	4.5	7.1
90	2.6	3.5	3.6	4.3	3.6	4.1	6.7

Flow rate is determined by Temperature Rise. To determine your temperature rise, subtract the incoming water temperature from the set output temperature. All units are factory set to 120°F, but can be changed. Other set temperatures in 1°F.

Eco-Friendly  
Energy Efficient  
Endless Hot Water



# green



The Revolutionary T-K3

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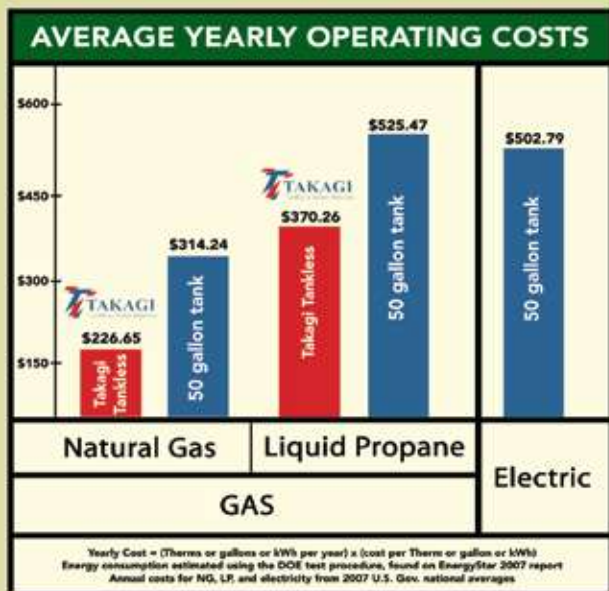


**Nothing is smarter**  
than tankless hot water in your home.

And no tankless water  
heater is smarter  
than a Takagi.

**Technology to meet today's demands**

From bathrooms to kitchens, the latest trends in home design all add up to one thing: A growing demand for hot water throughout the home. With an average soaker tub holding 70 gallons of water, today's homes need more than an old-fashioned 50-gallon tank of hot water to keep up. They need the consistent, never-ending supply of hot water you can get with a tankless hot water heater from Takagi.



Tankless Water Heater Comparison <small>(as of May, 2008)</small>	TAKAGI
First Tankless-only company in North America!	<b>YES!</b>
First to release a "true" commercial-grade model with Dual burners and Heat exchangers.	<b>YES!</b>
First and Only company to receive 4 Energy conservation Awards 3 years in a row (in Japan).	<b>YES!</b>
First company to utilize the revolutionary HRS35 Copper Alloy for increased strength and durability (T-M32, T-M50).	<b>YES!</b>
First to release the most powerful-14.5 GPM for a single unit in the tankless industry.	<b>YES!</b>
First and only company to utilize Air-Fuel Ratio Sensors (AFR), a safety device.	<b>YES!</b>
First to introduce a condensing tankless unit (T-H1).	<b>YES!</b>
First to offer Easy-Link capability up to 4 units without a multi-unit controller - T-K3, T-M32, T-M50.	<b>YES!</b>
First company with computer controlled units.	<b>YES!</b>

**Up to 50% energy savings**

Not only does Takagi provide you with plentiful and endless hot water...it does it in the most energy-efficient way possible. Instead of keeping a whole tank full of hot water while you're not using it, Takagi instantly heats only the water you need. Takagi tankless heater can pay for themselves in energy savings alone.

**The Tankless Process**  
Engineered for rapid delivery and maximum efficiency.

1. The water enters the heater.
2. A water flow sensor detects the water flow.
3. The computer automatically ignites the burner.
4. The water circulates through the heat exchanger (coil).
5. The heat exchanger instantly heats the water at the designated temperature (this takes only 5 seconds).
6. The heater can provide you with endless hot water continuously. No more running out of hot water in the middle of a shower!
7. When the hot water tap is turned off, the unit shuts down automatically.



**Tank vs. Tankless: Why Takagi is the smart choice**

	Tank-Type Gas Water Heater	Takagi Tankless Water Heater
Water Supply Capability with 2 Showers Running Simultaneously	Temperature drops below 100° F after just 8 minutes	<b>Provides an endless supply of 122° F water-never runs out!</b>
Energy Factor	0.55-0.60	<b>0.81-0.94</b>
Continuously Uses Gas to Heat Water	Yes, 24/7/365, regardless of demand	No, only on demand
Pilot Light	Yes	No, electric ignition
Annual Energy Savings	No Savings	Typically saves 30-50%
Life Expectancy	6-10 Years	12-16 Years
Typical Size	17 cubic feet/170 pounds	2 cubic feet/30-90 pounds
Location Occupied	Sits on floor using space	Mounts on wall using no floor space
Scalding Potential	Yes, tanks do not control outlet temperature; at a common 125° F, 3rd degree burns are caused in seconds	No, precisely computer controlled to provide 120° F water continuously
Temperature Setting	Limited	From 99° F to 185° F
Carbon Monoxide Spillage Potential	Possible*	<b>No</b>
Smelly Water/Rusty Water	Possible*	<b>No</b>

\*These problems do not affect all tank-type units.

**Models**

	Features	Venting			Takagi's Easy-link system	Multi Control	Temperature min to max (with optional remote)	GPM (Max) per unit	ENERGY FACTOR NG, LP	NG Max (BTU/h), LP Max (BTU/h)	Dimension (H x W x D)*
		Direct Vent	Indoor	Outdoor							
Residential	T-KJr	*Great for apartments, condos and summer cabins.*	✓	✓	✓		122 to 182 (99 to 182)	5.8	NG 0.81 LP 0.83	NG 140,000 LP 140,000	20 x 14 x 6
	T-K3-SP	*A builder's dream. Adds 1 more shower over the T-KJr at a minimal increase in cost.* • Perfect for 2 - 3 bathrooms.		✓	✓		113 to 167 (99 to 167)	7.0	NG 0.81 LP 0.82	NG 190,000 LP 190,000	20.5 x 13.8 x 8.5
	T-K3-OS	*Best Outdoor model for mid-sized residential. No additional venting required.* • Recess box available			✓		113 to 167 (99 to 167)	7.0	NG 0.81 LP 0.82	NG 190,000 LP 190,000	20.5 x 13.8 x 8.5
	T-K3	*More features than any other in it's class. Offering amazing Versatility.* • LED display • New-updated Freeze protection • Takagi's own Easy link - connect up to 4 units	✓	✓	✓	Up to 4 units	104 to 185 (99 to 185)	7.0 (4 units generate 28 GPM MAX)	NG 0.835 LP 0.856	NG 199,000 LP 199,000	20.5 x 13.8 x 8.5
Condensing	T-H1	*The first of its kind. The original condensing tankless water heater (Max efficiency 95.1 % LP).*• Features Direct Vent capability	✓	✓	✓		122 to 182 (99 to 182)	8.5	NG 0.92 LP 0.94	NG 199,000 LP 190,000	29.5 x 18.9 x 11.8
	T-K3-Pro	*Perfect for light commercial applications.* • HRS Copper • LED display • Takagi's own Easy link - connect up to 4 units <b>Available November 2008</b>	✓	✓	✓	Up to 4 units	104 to 185 (99 to 185)	7.0 (4 units generate 28 GPM MAX)	NG 0.835 LP 0.856	NG 199,000 LP 199,000	20.5 x 13.8 x 8.5
	T-M32 ASME model Available	• Featuring HRS Copper, DV convertible. • Generates 180GPM (Max) when manifolding 20 units • Excellent for various applications (Residential & Commercial) • "Easy-link" up to 4 or use the TM-MC01 for up to 20 units • ASME model Available!	✓	✓	✓	Up to 4 units Up to 20 units	100 to 185 (100 to 185)	9.0 (20 units generate 180 GPM MAX)	NG 0.82 LP 0.84	NG 240,000 LP 240,000	23.6 x 18.5 x 8.9
	T-M50 ASME model Available	*"the Monster" Featuring HRS Copper, DV convertible, redundant heat-exchangers and burners. No one else comes close. • "Best - true commercial model on the market" • Generates most GPM in the tankless industry 14.5 GPM (Max) • "Easy-link" up to 4 or use the TM-MC01 for up to 10 units	✓	✓	✓	Up to 4 units Up to 10 units	100 to 185 (100 to 185)	14.5 (10 units generate 145 GPM MAX)	NG 0.81 LP 0.83	NG 380,000 LP 380,000	25.3 x 24.8 x 11.8

**Accessories Chart**

Model Name	Exhaust Backflow Prevention	Wall Thimble With Hood	Outdoor Vent Cap	Direct Vent Conversion Kit	Wall Vent Terminator Direct Vent	Pipe Cover	Multiple Unit Controller	Temperature Remote Controller	Isolation Valves & a Pressure Relief Valve
T-KJr	TK-BF01	TK-KPWH4	TK-TV04	TK-TV09	TK-TV13			TK-RE02	TK-IV01
T-K3-SP	TK-BF01	TK-KPWH4	TK-TV04			TK-RB01	TK-PC01	TK-RE02	TK-IV01
T-K3-OS						TK-RB02	TK-PC01	TK-RE02	TK-IV01
T-K3	TK-BF01	TK-KPWH4	TK-TV04	TK-TV10	TK-TV13	TK-RB01	TK-PC01		TM-RE30 TK-IV01
T-H1	TK-BF01	TK-KPWH4	TK-TV08	TK-TV07	TK-TV13			TM-RE30	TK-IV01
T-K3-Pro	TK-BF01	TK-KPWH4	TK-TV04	TK-TV10	TK-TV13	TK-RB01	TK-PC01		TM-RE30 TK-IV01
T-M32	TK-BF01	TK-KPWH4		TM-VC32			TM-PC32	TM-MC01	TM-RE30 TM-IV32
T-M50		TM-BF50		TM-VC50			TM-PC50	TM-MC01	TM-RE30 TM-IV50

**Multi-Unit Control**



Manifolding: Takagi will meet heavy-duty commercial or large residential demands with manifolding capabilities up to 20 units, generating up to 192 gallons of hot water per minute.

Available on T-M32 and T-M50

**Easy-Link System**



Takagi recommends T-Vent for all tankless installations. T-Vent is category III stainless steel venting.

