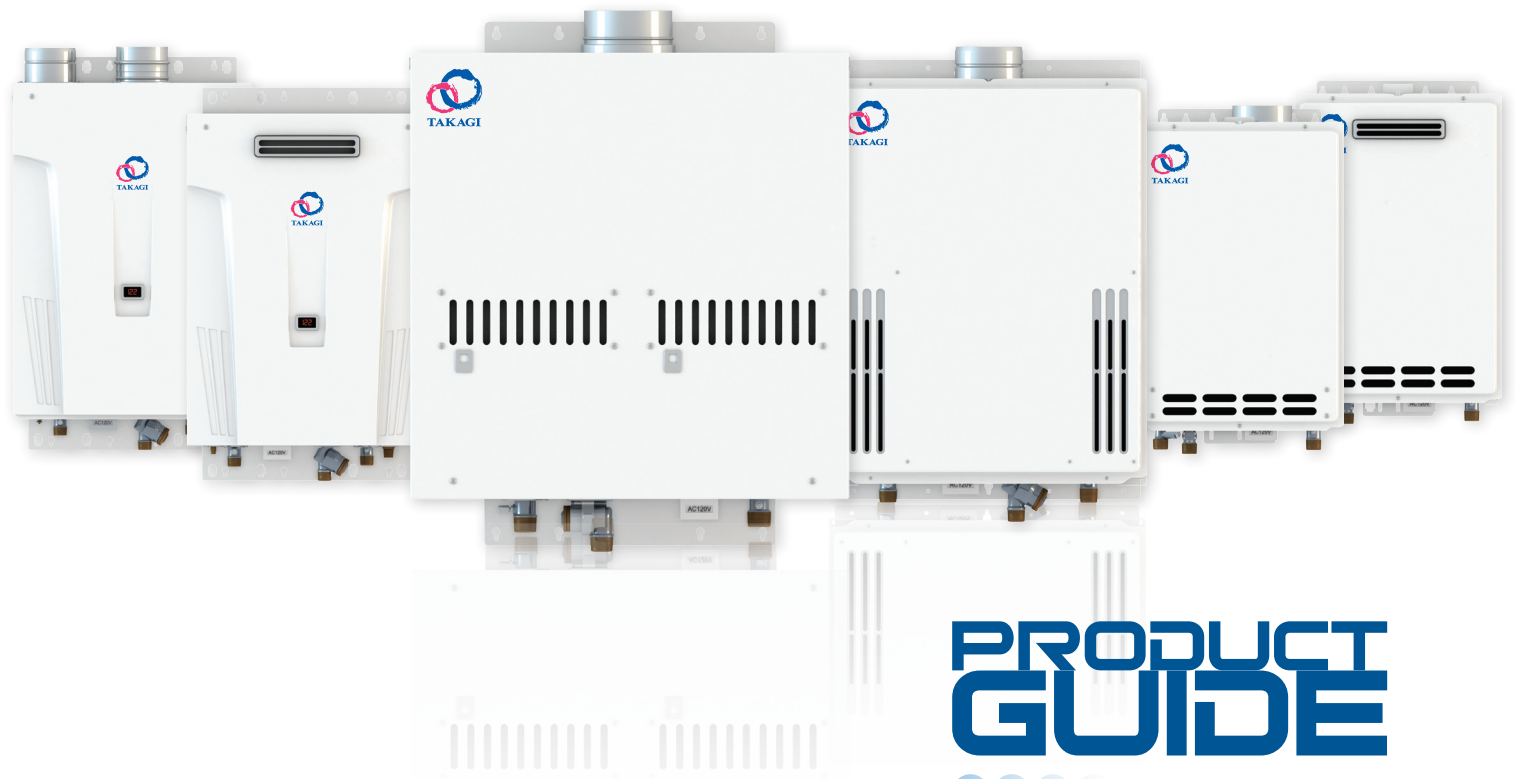
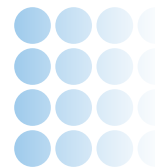




Quality.  
Service.  
Reliability.



# PRODUCT GUIDE



T-KJR2  
T-K4  
T-H2S  
T-H2  
T-D2  
T-M32  
T-M50



Eco-Friendly  
Energy Efficient  
Endless Hot Water.

# TANKLESS BENEFITS

## 1 DO YOU EVER RUN OUT OF HOT WATER?

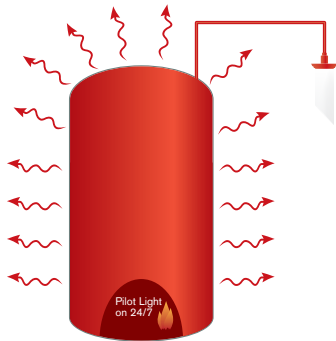


Limited Hot Water



Endless Hot Water

## 2 HOW HIGH IS YOUR MONTHLY GAS BILL?



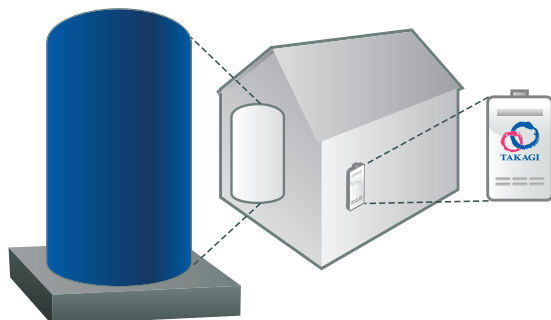
Heat radiation 24/7

OVER 82% EFFICIENT



On Demand | No Pilot Light

## 3 DO YOU NEED MORE SPACE?



Too big and bulky  
Takes up large floor space

Wall mount/compact  
Installs almost anywhere

\*Takagi tankless water heaters provide endless hot water when sized appropriately for your homes needs.

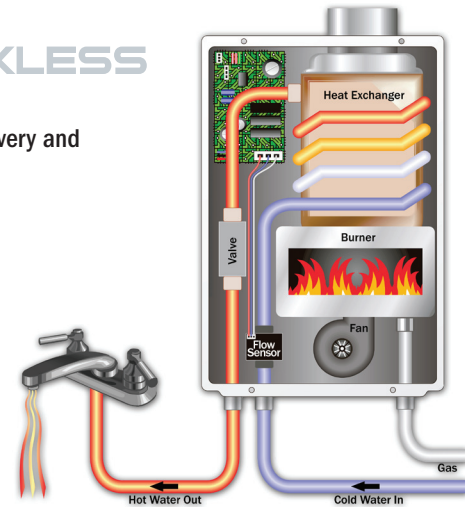
Copyright© Takagi® 2011

## NOTHING IS SMARTER THAN TANKLESS HOT WATER IN YOUR HOME

### THE TANKLESS PROCESS

Engineered for rapid delivery and maximum efficiency.

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



## 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.

### Up to 50% energy savings

Not only does Takagi provide you with plentiful 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 heaters can pay for themselves in energy savings alone.

## 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: 20-50% energy savings**

**Takagi meets the low NOx standards by SCAQMD**

**Takagi products produce less waste**



# #1 IN QUALITY | TAKAGI HAS IT ALL

## CASE STUDIES

### **W & W Plumbing** Arlington, TX



Dave and Buster's installs six heavy commercial T-M50's to meet their high demand for consistent hot water.

**Challenge:** Retail establishment Dave and Buster's, known for their games, food and corporate events, needed a reliable tankless company that specializes in commercial tankless heaters. Dave and Buster's experienced high demand for their hot water supply and wanted a water heating system that offered redundancy for continuous, uninterrupted service.

**Solution:** Dave and Buster's selected the world famous Takagi brand and W & W Plumbing as their professional contractor of choice. The installer and engineer utilized six of Takagi's heavy, commercial T-M50 ASME models to fulfill the demand for this job. The T-M50's, the most durable and powerful tankless models in the industry, offer a "dual-combustion" system, a thicker heat exchanger drum, added safety features and much more.

**Results:** With the energy efficient, durable and highly powerful T-M50's, equipped with "true" Commercial grade components and a Multi-Unit System, Dave and Buster's water heating requirements were completely met, and Dave and Buster's is another satisfied customer.

### **Assisted Living** Charles City, IA



Comp Systems in Charles City, Iowa, installs eight T-M50's to produce enough hot water to meet the demands of the residents' needs.

**Challenge:** Comp Systems provides support and services to more than 300 individuals with special needs. Its Charles City, Iowa, facility did not have enough hot water to provide therapeutic baths for its 40-plus residents at its supported community living facility. Its current domestic water system was supported by 2 100-gallon 199K BTU commercial tank water heaters. Longevity of the tanks was approximately 6-8 years, and they were only able to provide enough water for minimal daily operations and the possibility of 3 scheduled therapeutic baths a day.

**Solution:** Replace existing tank water heaters with 8 Takagi T-M50 Natural Gas Tankless Water Heaters to provide endless hot water for their daily operations, therapeutic bathing, meet their residents' hot water needs, and increase the longevity of their hot water system.

**Results:** The 8 T-M50s allows Comp Systems to continue daily operations and provide sufficient hot water for their residents' daily bathing requirements and always have hot water available for therapeutic baths. The 8 T-M50s will increase the system's longevity two-fold and provide endless hot water well into the future.

### **Camp Shelby** Hattiesburg, MS



U.S. Military Post, Camp Shelby, installs hundreds of tankless units to supply hot water in an effort to go green.

**Challenge:** U.S. Military Post, Camp Shelby, is the largest state-owned and operated field training center in the United States. It needed an abundant supply of hot water to meet its substantial and growing demand. It wanted to satisfy that demand while reducing energy consumption and protecting our natural resources.

**Solution:** Takagi installed more than one hundred tankless units throughout Camp Shelby's facilities.

**Results:** Using Takagi's energy efficient tankless water heaters, Camp Shelby was able to significantly reduced its energy consumption levels and subsequently received an Energy Efficiency/Energy Management award on August 10, 2007, from the United States Army for its significant achievement in energy conservation.

## MATCH THE UNIT TO YOUR NEEDS

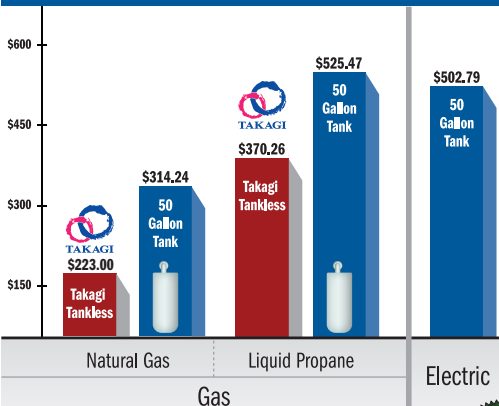
Number of showers each Takagi unit can handle, depending on ground water temperature.

Warmer Climates 70°F Incoming Groundwater Temperature		Cooler Climates 40°F Incoming Groundwater Temperature	
Capacity – Number of Shower Heads			
T-KJr2-OS	2 Showers	1 Shower	
T-KJr2-IN	3 Showers	1 Shower	
T-K4-IN	3 Showers	2 Showers	
T-K4-OS	3 Showers	2 Showers	
T-H2S-DV/OS	3 Showers	2 Showers	
T-H2-DV/OS	4 Showers	3 Showers	
T-D2-IN	4 Showers	2 Showers	
T-D2-OS	4 Showers	2 Showers	
T-M32	4 Showers	3 Showers	
T-M50	6 Showers	4 Showers	

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

## SAVE MONEY

### AVERAGE YEARLY OPERATING COSTS



Yearly Cost = (Therms or gallons or kWh per year) x (cost per Therm or gallon or kWh)  
Energy consumption estimated using the DOE test procedure, found on ENERGY STAR 2007 report.  
Annual costs for NG, LP, and electricity from 2007 U.S. Gov. national averages



## FLOWRATE GUIDE

### Temperature Rise vs Gallons per Minute

Temp Rise	T-KJr2 IN	T-KJr2 OS	T-K4 IN	T-K4 OS	T-H2S DV/OS	T-H2 DV/OS	T-D2 IN	T-D2 OS	T-M32	T-M50
30	6.6	6.6	8.0	8.0	8.0	9.0	10.0	10.0	9.0	14.5
35	6.6	6.6	8.0	8.0	8.0	9.0	9.3	9.3	9.0	14.5
40	5.7	5.7	7.8	7.8	8.0	9.0	8.1	8.1	9.0	14.5
45	5.1	5.1	6.9	6.9	7.3	8.1	7.2	7.2	8.5	13.5
50	4.6	4.6	6.2	6.2	6.5	7.3	6.5	6.5	7.7	12.1
55	4.2	4.2	5.7	5.7	6.0	6.7	5.9	5.9	7.0	11.0
60	3.8	3.8	5.2	5.2	5.5	6.1	5.4	5.4	6.4	10.1
65	3.5	3.5	4.8	4.8	5.0	5.6	5.0	5.0	5.9	9.3
70	3.3	3.3	4.4	4.4	4.7	5.2	4.7	4.7	5.5	8.7
75	3.1	3.1	4.1	4.1	4.4	4.9	4.3	4.3	5.1	8.1
80	2.9	2.9	3.9	3.9	4.1	4.6	4.1	4.1	4.8	7.6
85	2.7	2.7	3.7	3.7	4.0	4.3	3.8	3.8	4.5	7.1

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 or 122°F but can be changed. Flow rates are based on default set temperatures.

# WANT OPTIONS? TAKAGI DELIVERS

## Multi-Unit Control



Available on T-M32 and T-M50

**Manifolding:** Takagi will meet heavy-duty commercial or large residential demands with manifolding capabilities up to 20 units, generating up to 180 gallons of hot water per minute.

## Easy-Link System

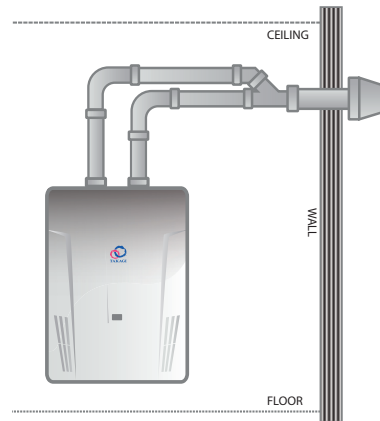


**Easy-link Connection:** Link up to four units without a controller unit



## T-H2S-DV / T-H2-DV

### 3" Concentric PVC Termination



- PVC (3" or 4")
- Only one wall penetration
- Clean installation
























## ACCESSORIES CHART













Model Name	Exhaust Backflow Prevention	Vertical Drain Tee	Wall Thimble with Hood	Outdoor Vent Cap	Direct Vent Conversion Kit
T-KJr2-IN	TK-BF01	TK-KPDRV4	TK-KPWH4-1-2		TK-TV:
T-KJr2-OS		TK-KPDRV4			TK-TV:
T-K4-IN	TK-BF01				TK-TV:
T-K4-OS					TK-TV:
T-H2-DV / T-H2S-DV	TK-BF01		TK-KPWH4-1-2		
T-H2-OS / T-H2S-OS					
T-D2-IN	TK-BF01	TK-KPDRV4	TK-KPWH4-1-2		TK-TV:
T-D2-OS					TK-TV:
T-M32	TK-BF01	TK-KPDRV4	TK-KPWH4-1-2	TM-VC32	TM-DV
T-M50	TM-BF50			TM-VC50	TM-DV



# MODELS

	DV Direct Vent	IN Inside	OS Outside		Connection: Gas/Water Power	Venting Intake Exhaust (Cat. III Stainless)	Easy-Link (EL) Multi-Unit (MU)	Temperature (with remote)	GPM (Max) Per Unit	Energy Factor NG, LP	NG Max (BTU/h), LP Max (BTU/h)	Dimension/ Weight
Residential	 <b>T-KJr2</b> ENERGY STAR PARTNER T-KJr2-IN model is convertible with TK-TV10 conversion kit.	 <b>T-K4</b> ENERGY STAR PARTNER T-K4-IN model is convertible with TK-TV10 conversion kit.	 <b>T-KJr2</b> ENERGY STAR PARTNER T-KJr2-IN model is convertible with TK-TV10 conversion kit.	Great for apartments, condos and summer cabins.	3/4" Gas/ Water 120 VAC	IN Model: Intake 3" (50' Max) Exhaust 4" (50' Max) OS Model NA	N/A	113 to 140 (99 to 167)	6.6	Energy Factor NG: 0.82 LP: 0.83	NG: 140,000 LP: 140,000	H= 20.5" W= 13.8" D= 6.7" 33 lbs
	 <b>T-K4</b> ENERGY STAR PARTNER T-K4-IN model is convertible with TK-TV10 conversion kit.	 <b>T-K4</b> ENERGY STAR PARTNER T-K4-IN model is convertible with TK-TV10 conversion kit.	 <b>T-K4</b> ENERGY STAR PARTNER T-K4-IN model is convertible with TK-TV10 conversion kit.	Adds 1 more shower over the T-KJr2 at minimal increase in cost.	3/4" Gas/ Water 120 VAC	IN Model: Intake 3" (50' Max) Exhaust 4" (50' Max) OS Model NA	N/A	113 to 140 (99 to 167)	8.0	Energy Factor NG: 0.82 LP: 0.82	NG: 190,000 LP: 190,000	H= 20.5" W= 13.8" D= 8.5" 38 lbs
Condensing	 <b>T-H2S-OS</b> ENERGY STAR PARTNER PVC Exhaust Adapter TH-PA01 Included DV Model Only	 <b>T-H2S-DV</b> ENERGY STAR PARTNER PVC Exhaust Adapter TH-PA01 Included DV Model Only	 <b>T-H2S-OS</b> ENERGY STAR PARTNER PVC Exhaust Adapter TH-PA01 Included DV Model Only	High efficiency condensing tankless. 3" PVC venting. 0" clearance to combustible.	3/4" Gas/ Water 120 VAC	Intake & Exhaust 3", 25' Max, 2 elbow Max OR 4", 50' Max, 5 elbow Max (PVC venting capable) OS= no venting required	N/A	100 to 185 (100 to 185)	8.0	Energy Factor NG: 0.91 LP: 0.91	NG: 180,000 LP: 180,000	H= 25.6" W= 18.5" D= 12.4" DV=73 lbs OS=70 lbs
	 <b>T-H2-OS</b> ENERGY STAR PARTNER NSF PVC Exhaust Adapter TH-PA01 Included DV Model Only	 <b>T-H2-DV</b> ENERGY STAR PARTNER NSF PVC Exhaust Adapter TH-PA01 Included DV Model Only	 <b>T-H2-OS</b> ENERGY STAR PARTNER NSF PVC Exhaust Adapter TH-PA01 Included DV Model Only	High efficiency condensing tankless. 3" PVC venting. 0" clearance to combustible.	3/4" Gas/ Water 120 VAC	Intake & Exhaust 3", 25' Max, 2 elbow Max OR 4", 50' Max, 5 elbow Max (PVC venting capable) OS= no venting required	(EL) 4 units (MU) N/A	100 to 185 (100 to 185)	9.0 (4 units generate 36 GPM Max)	Energy Factor NG: 0.91 LP: 0.91	NG: 199,000 LP: 199,000	H= 25.6" W= 18.5" D= 12.4" DV=73 lbs OS=70 lbs
Commercial	 <b>T-D2</b> ENERGY STAR PARTNER NSF T-D2 model is convertible with TK-TV10 conversion kit.	 <b>T-D2</b> ENERGY STAR PARTNER NSF T-D2 model is convertible with TK-TV10 conversion kit.	 <b>T-D2</b> ENERGY STAR PARTNER NSF T-D2 model is convertible with TK-TV10 conversion kit.	Well suited for light commercial applications. HRS Copper.	3/4" Gas/ Water 120 VAC	IN Model: Intake 3" (50' Max) Exhaust 4" (50' Max) OS Model NA	(EL) 4 units (MU) N/A	104 to 185 (99 to 185)	10.0 (4 units generate 40 GPM Max)	Energy Factor NG: 0.82 LP: 0.82	NG: 199,000 LP: 199,000	H= 20.5" W= 13.8" D= 8.5" 39 lbs
	 <b>T-M32</b> ASME model available NSF	 <b>T-M32</b> ASME model available NSF	 <b>T-M32</b> ASME model available NSF	Generates 180 Gpm (Max) when manifolding 20 units. HRS Copper. LED display	3/4" Gas/Water 120 VAC	Intake 4" (50' Max) Exhaust 4" (50' Max)	(EL) 4 units (MU) 20 units	100 to 185 (100 to 185)	9.0 (20 units generate 180 GPM Max)	Thermal Efficiency NG: 82.2% LP: 83.9%	NG: 240,000 LP: 240,000	H= 23.6" W= 18.5" D= 8.9" 59 lbs
	 <b>T-M50</b> ASME model available NSF	 <b>T-M50</b> ASME model available NSF	 <b>T-M50</b> ASME model available NSF	Generates Most GPM in tankless industry. 14.5Gpm (Max). HRS Copper. LED display	1" Gas/Water 120 VAC	Intake 5" (50' Max) Exhaust 5" (50' Max)	(EL) 4 units (MU) 10 units	100 to 185 (100 to 185)	14.5 (10 units generate 145 GPM Max)	Thermal Efficiency NG: 80.2% LP: 82.4%	NG: 380,000 LP: 380,000	H= 25.3" W= 24.8" D= 11.8" 102 lbs

						 Lead free model available			 INTAKE ONLY
Direct Vent Conversion Kit	Wall Vent Terminator Direct Vent	Recess Box	Pipe Cover	Multiple Unit Controller	Temperature Remote Controller	Isolation Valves & a Pressure Relief Valve	Neutralizer	3" Concentric PVC Termination	PVC Intake Adaptor
TK-TV10	TK-KPCT43-1-2-3		TK-PCJr2		TK-RE02	TK-IV01			
TK-TV10	TK-KPCT43-1-2-3	TK-RB02	TK-PCJr2		TK-RE02	TK-IV01			
		TK-RB02	TK-PC01		TK-RE02	TK-IV01			
			TK-PC02		TM-RE30	TK-IV01	TH-NT01	TH-CVPVC33	TH-PA02
			TK-PC02		TM-RE30	TK-IV01	TH-NT01		
TK-TV10	TK-KPCT43-1-2-3	TK-RB02	TK-PC01		TM-RE30	TK-IV01			
M-DV32			TK-PC32	TM-MC01	TM-RE30	TM-IV32			
M-DV50			TM-PC50	TM-MC01	TM-RE30	TM-IV50			



**Simple Leak-Proof Gasketed Connections** – No Sealant Required.

**High Quality** – Category III Stainless Steel.

**Versatile** – Vertical and Horizontal Terminations.

**Convenient** – Vent Kits Available.

**UL Listed**

**All Connections have Heat Resistant Rubber Gaskets**

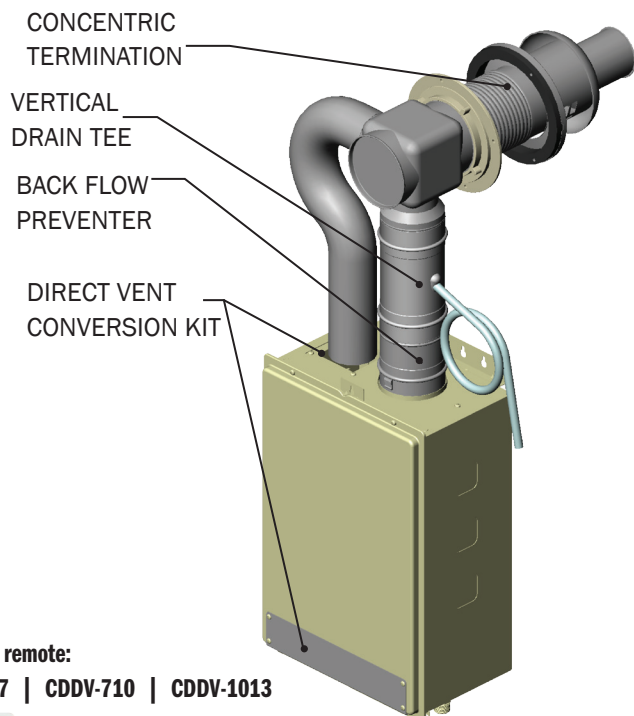
Part Number	Description	
WALL THIMBLE		
TK-KPW4-1	Wall Thimble-1	
TK-KPW4-2	Wall Thimble-2	
TK-KPWL4-1	Wall Thimble with Louver-1	
TK-KPWL4-2	Wall Thimble with Louver-2	
TK-KPWH4-1	Wall Thimble with Hood-1	
TK-KPWH4-2	Wall Thimble with Hood-2	
SUPPORT		
TK-KPSS24	Support Strap (2-inch)	
TK-KPSS44	Support Strap (4-inch)	
TK-KPSS84	Support Strap (8-inch)	
TK-KPSS124	Support Strap (12-inch)	
TK-KPCP4	Support Clamp	
STRAIGHT		
TK-KPS64	6" Straight Vent Pipe	
TK-KPS124	12" Straight Vent Pipe	
TK-KPS244	24" Straight Vent Pipe	
TK-KPS364	36" Straight Vent Pipe	
TK-KPS484	48" Straight Vent Pipe	
ADJUSTABLE		
TK-KPA084	8" Adjustable Vent Pipe	
TK-KPA114	11" Adjustable Vent Pipe	
TK-KPA174	17" Adjustable Vent Pipe	
TK-KPA464	46" Adjustable Vent Pipe	
ELBOW		
TK-KPE454	45 Degree Elbow	

Part Number	Description	
TK-KPE904	90 Degree Elbow	
ADAPTOR		
TK-KPAA4	Female-Female Adaptor	
TKk-VA01	Male-Female Adaptor	
BACKFLOW PREVENTION		
TK-BF01	4" Freeze Protection Vent Pipe	
TM-BF50	5" Freeze Protection Vent Pipe	
FIRESTOP		
TK-KPFS4	Vertical Firestop	
TERMINATION		
TK-KPLT4	Vent Termination Horizontal Louver	
TK-KPHT4	Vent Termination Horizontal Hood	
TERMINATION: RAIN CAP		
TK-KPRT4	Rain Cap	
CONDENSATION DRAIN		
TK-KPDR4	Drain Tee (Horizontal)	
TK-KPDRV4	Drain Tee (Vertical)	
ROOF FLASHING		
TK-KPFR4	Flat Roof Flashing	

# TANKLESS ACCESSORIES

Part Number	Description	
TK-KPAR4	Angled Roof Flashing	
<b>ROOF PIECES</b>		
TK-KPRJ4	Roof Jack	
TK-KPSP4	Storm Collar Pipe	
<b>STORM COLLAR</b>		
TK-KPSC4	Storm Collar	

## WALL VENT STAINLESS



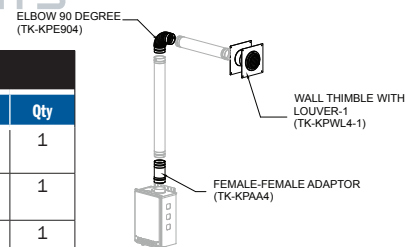
**Kit with remote:**  
CDDV-47 | CDDV-710 | CDDV-1013



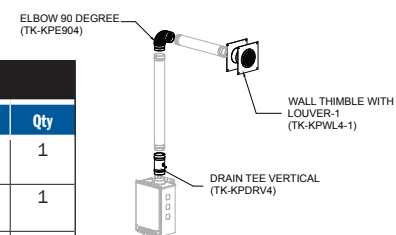
**Kit without remote:**  
DDV-47 | DDV-710 | DDV-1013

## T-VENT KITS

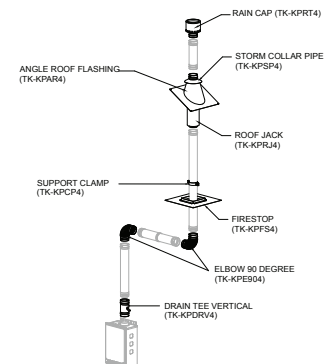
H1		
Part #	Description	Qty
TK-KPAA4	Female-Female Adaptor	1
TK-KPE904	Elbow 90 Degree	1
TK-KPWL4-1	Wall Thimble with Louver-1	1



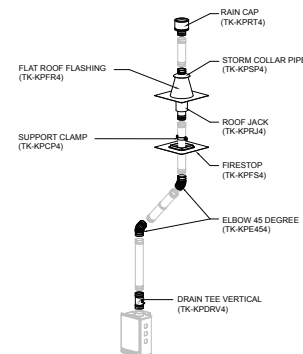
H2		
Part #	Description	Qty
TK-KPDRV4	Drain Tee Vertical	1
TK-KPE904	Elbow 90 Degree	1
TK-KPWL4-1	Wall Thimble with Louver-1	1



V1		
Part #	Description	Qty
TK-KPDRV4	Drain Tee Vertical	1
TK-KPE904	Elbow 90 Degree	2
TK-KPFS4	Firestop	1
TK-PCP4	Support Clamp	1
TK-KPRJ4	Roof Jack	1
TK-KPAR4	Angle Roof Flashing	1
TK-KPSP4	Storm Collar Pipe	1
TK-KPRT4	Rain Cap	1



V2		
Part #	Description	Qty
TK-KPDRV4	Drain Tee Vertical	1
TK-KPE454	Elbow 45 Degree	2
TK-KPFS4	Firestop	1
TK-PCP4	Support Clamp	1
TK-KPRJ4	Roof Jack	1
TK-KPFR4	Flat Roof Flashing	1
TK-KPSP4	Storm Collar Pipe	1
TK-KPRT4	Rain Cap	1





**ENDLESS  
HOT WATER**



Takagi tankless water heaters can provide you with endless hot water.\* No more running out of hot water.

## TAKAGI IN YOUR NEIGHBORHOOD



### BRANCH OFFICES

#### Southern California

500 Wald  
Irvine, CA 92618  
Tel: 949.770.7171  
Fax: 949.770.3171

#### Northern California

Pleasanton, CA  
Tel: 925.416.7810

#### North Central

Tel: 847.204.6124

#### South Central

Houston, TX  
Tel: 281.463.3654

#### North East

Pennsauken, NJ  
Tel: 856.488.5777

#### South East

Palm Harbor, FL  
Tel: 727.215.8052

#### Canada

3480 Laird Rd, Suite 1  
Mississauga, ON L5L 5Y4  
Tel: 905.593.9682  
Fax: 905.828.7384  
Toll Free: 877.877.4953



**GOING GREEN WITH  
TAKAGI WILL SAVE  
YOU SOME GREEN!**



Takagi tankless water heaters are greater than 82% efficient. Who knew being environmentally friendly could put cash in your pocket!



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

\*Takagi tankless water heaters provide endless hot water when sized appropriately for your homes needs.

TBGBR00210