

**CITY OF NEW YORK
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner

**MEA 169-04-E Vol. II
Report of Material and Equipment Acceptance Division**

Manufacturer- Takagi Industrial Company, Ltd. 201 Shinden, Nishi-Kawhiwabara, Fuji-Shi, Shizuoka-ken, Japan.

Trade Name-Flash.

Product- Instantaneous gas fired water heaters with isolated heating using separate loops.

Pertinent Code Section(s)- 27-800, RS 14-2 (ANSI Z223.1).

Prescribed Test(s)- RS 14-6(ANSI Z21.10-3).

Laboratory- CSA International Laboratories.

Test Report- Report No. 188960-1373808 dated November 6, 2002, and 188960-1153091 dated October 22, 2002.

Description- Instantaneous water heaters with no tank, are equipped with controls so electrical power or fuel gas input is only supplied when hot water is drawn. The heater is used in combination domestic hot water and space heating application. A heat exchanger will be used to keep the water source isolated by way of separate loops. The overhaul functionality of heater does not change with the use of heat exchanger. Unit comprises direct spark igniter, flame sensor, ignition module, limiting device, manual valve, proportional and solenoid dual gas valve, combustion air blower, and limit control. Unit with model number and input heating rating is listed below:

Model No.	Input Heating Rating BTUH
T-K1S	15,000 – 190,000
T-KJR	19,500 – 140,000
T-KD 20 (Direct Venting)	20,000 – 185,000

CLEARANCES/INSTALLATION

For Installation from non and combustible surfaces

Model T-K1S and T-KJR	OUTDOOR	INDOOR
A – From Top of Water Heater	36 inches*	12 inches
B – From Front of Unit	24 inches	4 inches
C – From Single Wall Flue of Vent Connector in any Direction	6 inches	6 inches
D – From Back of Unit (with support bracket)	0 inches	0 inches
EL – From Left Side of Unit	2 inches	6 inches
ER – From Right Side of Unit	2 inches	2 inches

Model TK-D20 (Direct Venting)	OUTDOOR	INDOOR
A – From Top of Water Heater	36 inches	12 inches
B – From Front of Unit	24 inches	4 inches
C – From Single Wall Flue of Vent Connector in any Direction	6 inches	6 inches
D – From Back of Unit (with support bracket)	1 inch	1 inch
EL – From Left Side of Unit	12 inches	6 inches
ER – From Right Side of Unit	6 inches	2 inches
F – Non-combustible	3 inch base	3 inch base

Recommendation – That the above described instantaneous fire fired, hot water heater as per clearances to combustible construction specified above, be accepted under the following conditions:

- 1. Automatic temperature and pressure relief valve, properly sized for heater and MEA accepted, shall be furnished for heater installation.**
- 2. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.**
- 3. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Bureau of Electrical Control before installation.**

Final Acceptance June/30/05

Examined By S Derksham