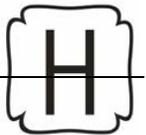


INSTALLATION OPERATION AND SERVICE MANUAL

IMPORTANT PLEASE READ:

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WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death

- Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance,
 - Do not touch any electrical switch; do not use any phone in your building,
 - Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions,
 - If you cannot reach your gas supplier, call the fire department.
- Qualified installer, service agency or the gas supplier must perform installation and service.

To the installer: After installation, these instructions must be given to the end user or left on or near the heater. To the End User: This booklet contains important information about this heater. Retain for future reference.

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INTRODUCTION

Auto Heet proudly introduces its Thermax commercial water heaters / hydronic boilers. These gas-burning appliances are thoughtfully designed for easy operation and maintenance. We are confident that you will come to appreciate the benefits of our product.

1. GENERAL INSTRUCTIONS

The installation of this heater must conform to the requirements of the authority having jurisdiction or, in the absence of such requirements, to the Installation Codes. All electrical wiring must be done in accordance with the requirements of the authority having jurisdiction or, in the absence of such requirements, with the National Electrical Code AS 3000.

Flue installations must be in accordance with AG 601.

The qualified installer shall instruct the end user in the safe and correct operation of this appliance and shall ensure that the heater is in safe working order prior to leaving the job site.

WARRANTY:

Factory warranty shall apply only when the boiler is installed in accordance with local plumbing and building codes, ordinances and regulations, the printed instructions provided with it and good industry practices.

Excessive water hardness causing a lime build-up in the copper coils or tubes is not a fault of the boiler and is not covered by warranty. Consult the factory for recommendations for use in hard water areas.

Using or storing corrosive chemicals in the vicinity of this boiler can rapidly attack the copper tubes and coils and voids warranty.

The primary heat exchanger of this boiler is intended to operate under non-condensing conditions. Inlet temperatures must be maintained at 43°C or higher. Warranty is void if the primary heat exchanger is allowed to operate in condensing mode.

Damage caused by freezing or dry firing voids warranty. This boiler is not to be used for temporary heating of buildings under construction.

2. BOILER LOCATION

Install this boiler in a clean, dry location with adequate air supply.

The boiler must not be installed on carpeting and should be located close to a floor drain in an area where leakage from the boiler or connections will not result in damage to the adjacent area or to lower floors in the structure.

If necessary a suitable drain pan should be installed under the boiler.

If the boiler is installed above the level of the building's radiation system, a low water cutoff device must be installed in the boiler outlet at the time of installation. Some local codes require the installation of a low water cutoff on all systems.

Locate the boiler so as to provide adequate clearance for inspection and service all around the unit. It is recommended that 600mm be provided for the top and sides and 1200mm for the front.

This boiler is suitable for alcove installation with minimum clearances to combustibles as follows:

TOP:	300mm
SIDES:	300mm
REAR:	300mm
FLUE:	150mm

For boiler's dimensions see Figure 1 and table 1

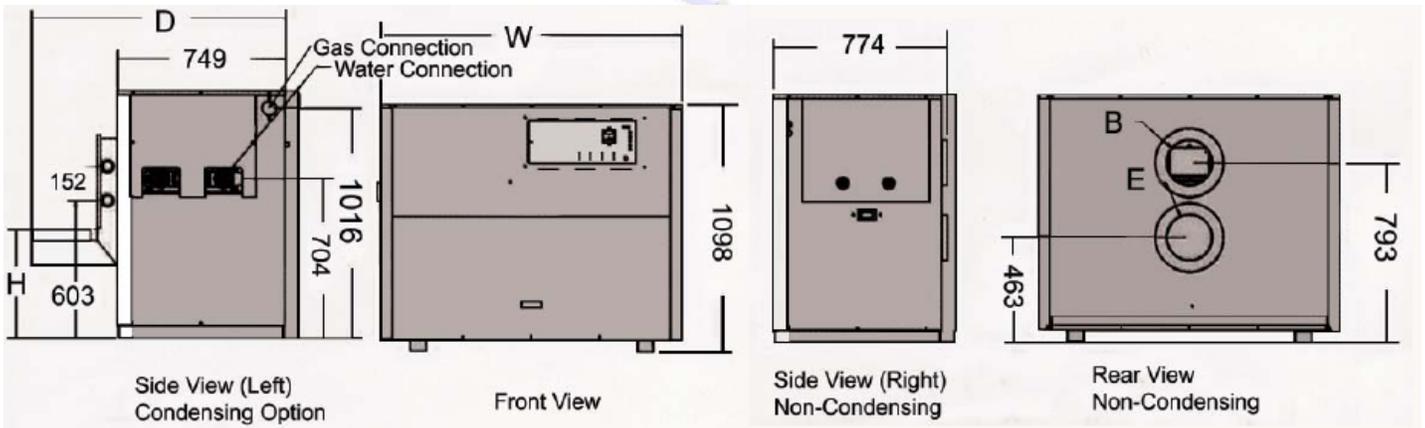


Figure 1

DIMENSIONS						'B' DIA. (mm) VENTING			'E' DIA Optional
Model	W (mm)	D (mm)	H (mm)	Water Conn. BSP (mm)	Gas Conn. (mm)	OUTDOOR	SIDEWALL OR CONDENSING	STANDARD	AIR INLET (mm)
TM 800	1162	1130	476	65	25	200	200	250	200
TM 1000	1339	1130	476	65	32	200	200	250	200
TM 1200	1574	1181	590	65	32	200	250	300	(2x) 200 *
TM 1400	1809	1181	590	65	32	250	250	300	(2x) 200 *
TM 1600	2051	1181	590	65	40	300	300	350	(2x) 250 *
TM 1800	2279	1181	590	65	40	300	300	350	(2x) 250 *
TM 2000	2514	1181	590	65	40	300	300	350	(2x) 250 *

Table 1

3. PROVIDE AIR FOR COMBUSTION AND VENTILATION

Provisions for combustion and ventilation air must be in accordance with:

- AG 601 - Section 5
- Applicable provisions of the local building codes.

The operation of exhaust fans, compressors, air handling units etc. can rob air from the room, creating a negative pressure condition leading to reversal of the natural draft action of the venting system. Under these circumstances an engineered air supply is necessary.

If the heater is to be installed near a corrosive or potentially corrosive air supply, the heater must be isolated from it and outside air should be supplied as per code.

Potentially corrosive atmospheres will result from exposure to permanent wave solution, chlorinated waxes and cleaners, chlorine, water softening chemicals, carbon tetrachloride, halogen based refrigerants, Freon cleaning solvents, hydrochloric acid, cements and glues, masonry washing materials, antistatic fabric softeners, dry cleaning solvents, degreasing liquids, printing inks, paint removers, etc.

4. ELECTRICAL WIRING

All electrical wiring to the boiler must be electrically bonded to ground in accordance with the requirements of the authority having jurisdiction or, in the absence of such requirements, with the National Electrical Code, AS/NZ 3000 Wiring Rules.

Provide disconnecting means of sufficient rating within sight of the boiler. These heaters require a 240V 50hz supply. A 15-amp circuit breaker is usually sufficient.

Electrical connections must be made so that the circulator will operate before the boiler may start. At no time may the control system allow the burner to fire without water flowing in the system.

Use sealed tight conduit suitable for outdoor use for outdoor installations.

Use terminal strip provided inside control panel for low water cut-off and remote controller Refer to wiring diagram provided with boiler.