



MASTERTEMP® POOL AND SPA HEATER INSTALLATION AND USER'S GUIDE

⚠ WARNING

FOR YOUR SAFETY - READ BEFORE OPERATING

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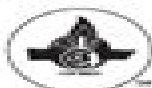
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120/240 VAC NATURAL GAS/LP GAS

Models	Natural	Propane
175K BTU/HR	460792	460793
200K BTU/HR (ASME)	461000	461001
200K BTU/HR	460730	460731
200K BTU/HR (HD ASME)	461032	—
250K BTU/HR	460732	460733
250K BTU/HR (HD)	460806	—
250K BTU/HR (ASME)	460771	460772
250K BTU/HR (HD ASME)	461020	—
300K BTU/HR	460734	460735
400K BTU/HR	460736	460737
400K BTU/HR (HD)	460805	—
400K BTU/HR (ASME)	460775	460776
400K BTU/HR (HD ASME)	461021	—



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Reference



⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or death. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

FOR YOUR SAFETY

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 neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

DO NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this or other appliances.

Pentair Water Pool and Spa, Inc.

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Pentair Heater Manual

California Energy Commission

A red circular graphic with a gradient, appearing as a stylized sun or a lens flare, positioned to the right of the California Energy Commission text.

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Thermal Convexity Analysis of a Solar Water Heating System Moulay Abdelghani-Idrissi, Lamiae

Vernieres-Hassimi, Soufiane Abdelghani-Idrissi, 2025-12-16 This book delivers a comprehensive study of thermal convexity analysis a key methodology for understanding and optimizing solar water heating systems It bridges pressing global energy challenges solar thermal technologies and advanced heat transfer principles The book opens with the global energy context highlighting the rising importance of solar power in achieving sustainable energy goals A detailed review of solar thermal systems follows covering high temperature applications parabolic concentrators tower plants cylindrical parabolic collectors and low temperature uses including pool heating space heating and domestic hot water production The core focus regards the thermal convexity principle providing a new powerful theoretical framework for analyzing and enhancing heat transfer in fluids tubular exchangers and solar receivers This principle is applied to the modeling and simulation of solar water heating systems integrating solar radiation system dynamics and consumption effects Thermal Convexity Analysis of a Solar Water Heating System combines simulation and experimental validation with fixed and tracking collectors demonstrating practical performance improvements Supported by an appendix on conduction convection and radiation this book is an essential reference for researchers engineers and students pushing the frontiers of renewable energy and thermal sciences

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