



# MASTERTEMP<sup>®</sup> AND MAX-E-THERM<sup>®</sup>

## HIGH PERFORMANCE ASME<sup>®</sup>-CERTIFIED HEATERS

MasterTemp and Max-E-Therm ASME-certified heaters are the informed choice when performance and more compact size matters. And now, with the addition of smart features and an optional energy-saving Smart Bypass Valve Kit to help you ensure your pool is ready whenever you are.



### STANDARD FEATURES

- Bronze header design allows for easy access to the thermal regulator and bypass valve for service without use of special tools.
- Improved gas-valve design for better gas control and robust operation.
- Fully premixed system with highly efficient air-and-gas mixture allows for faster heat-up times.
- Certified for indoor installation with Direct Air Intake Duct Kit.
- Copper and heavy-duty (HD) cupronickel heat-exchanger models available.



**ADD SMART HEATER BYPASS AND SAVE UP TO 35% PER YEAR IN OPERATIONAL COSTS.\***

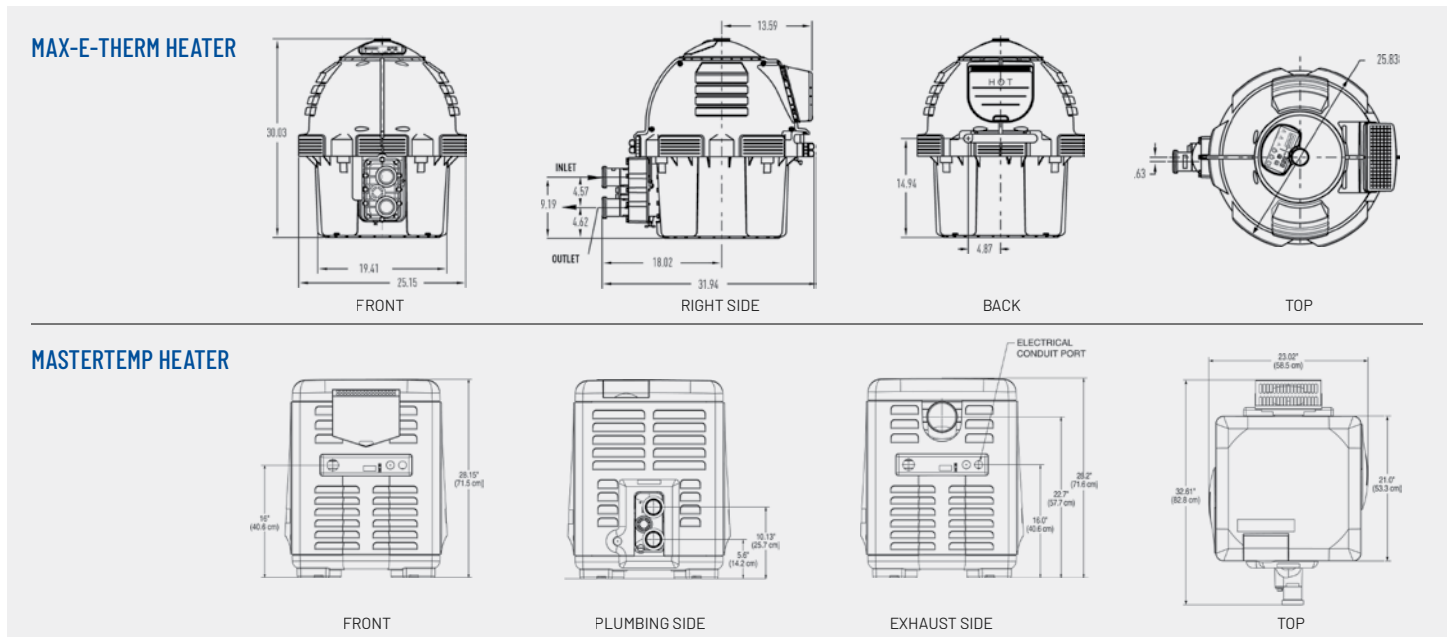
The new local bypass valve control automatically diverts water flow when the heater isn't firing.

- Connect with the Pentair IntelliCenter<sup>®</sup> Control System and control the pool functions from anywhere.
- New, full text digital display combines new functions and a user-friendly menu for easy operation and diagnostics.
- New automation functionality and ignition control module with flame strength sensor ensures your heater performance is optimized for your pool at all times. Plus, you'll automatically receive alerts when heater needs attention.

\*Savings based on lab testing conducted using MasterTemp 400 heater in conjunction with IntelliFlo VSF Pump and Bypass Kit which includes IntelliValve controlled by heater. Test Conditions: Pump flow rate: 50gpm. Pump run time: 3000 hours/yr. Heater run time: 100 hours/yr. Electrical Cost: \$0.21 per kWh. System TDH: Heater and Bypass Kit added to Standardized 'Curve C' System Curve performance data as per California Energy Commission Title 20 Appliance Efficiency Regulations. Test conditions assume pump flow rate of 50gpm and Constant Flow operation utilizing a lower motor RPM when flow is bypassing the heater due to lower system TDH. Actual performance and any subsequent energy consumption/savings are dependent upon various characteristics of the plumbing system, including but not limited to: pipe size, pipe lengths, filter type, fittings, system design, equipment run time/settings, and more.

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### POOL SIZING

°F Temperature Change/24 Hrs.	Heater Size			Heater Size		
	Model 200 ASME Certified	Model 250 ASME Certified	Model 400 ASME Certified	Model 200 ASME Certified	Model 250 ASME Certified	Model 400 ASME Certified
	Pool Capacity in Gallons			Pool Surface Area in Sq. Ft. at 5.5' Depth		
5	97,383	121,729	194,766	2,364	2,955	4,727
10	48,691	60,864	97,383	1,182	1,478	2,364
15	32,461	40,576	64,922	788	985	1,576
20	24,346	30,433	48,691	591	739	1,182
25	19,477	24,346	38,953	473	591	945
30	16,230	20,288	32,461	394	493	788
35	13,912	17,390	27,824	338	423	675
40	12,173	15,216	24,346	295	369	591

### SPA SIZING

Model	Spa Volume (Gallons)								
	200	300	400	500	600	700	800	900	1,000
	Minutes for 30°F Temperature Rise (Heater Input in 1,000 BTU/HR)								
200 ASME Certified	18.0	27.0	35.0	44.0	53.0	62.0	71.0	80.0	89.0
250 ASME Certified	15.8	23.5	30.5	38.5	46.5	54.3	62.0	70.0	77.8
400 ASME Certified	9.0	13.0	18.0	22.0	27.0	31.0	35.0	40.0	44.0

Note: The chart is based on a 30°F (16.6°C) temperature rise, discounting losses and only based on heat required to raise temperature in minutes. Actual results may vary due to a range of factors including, but not limited to: heat loss in the water such as but not limited to environmental weather conditions, wind, humidity and ambient temperature, water flow rate, pool/spa type, construction, materials, configuration such as installed inground or above ground, length of plumbing, elevation, operation of jets or other aeration devices (including surrounding water features) during the heating process, installation details and various operational parameters. For assistance with sizing and selecting a pool heating product, please consult a swimming pool professional.



400 Regency Forest Dr | Cary, NC 27518 | United States | 800.831.7133 | pentair.com

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