



- Up to 97% Thermal Efficiency
- Five Sizes - 399 MBH to 800 MBH
- Full modulation with 5:1 turndown and adaptable firing rate output
- Low waterside pressure drop stainless steel water tube heat exchanger
- Low-NOx meets South Coast Rule 1146.2 requirements
- Multiple vent options

PHANTOM-X™

"C" Series

**STAINLESS STEEL,
CONDENSING, GAS-FIRED
HOT WATER BOILER**

SMART BOILER FEATURES

Domestic hot water priority.

Outdoor reset plus warm weather shutdown and off-season pump exercising.

Multiple boiler lead/lag - up to 8 boilers.

LCD touchscreen user interface with intuitive text-based menus and diagnostic troubleshooting.

Compatible with optional Sage Zone Control Circulator or Zone Panel, which help prevent excessive boiler cycling by matching the boiler firing rate to actual zone load, saving money and energy.



**Quality
Value
&
Service**

PHANTOM-X™ "C" Series

PHANTOM-X: "C" Model Technical Information

Phantom-X Commercial Ratings & Specifications (sea level to 2000 feet)												
SPACE HEATING RATINGS						AHRI CERTIFIED						
MODEL	MAX. INPUT (MBH)	MIN. INPUT (MBH)	GROSS OUTPUT (MBH)	NET AHRI WATER RATING (MBH)	THERMAL EFFICIENCY	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	WATER CONTENT (GAL.)	GAS CONNECTION	SUPPLY & RETURN CONNECTION	APPROX. SHIPPING WEIGHT (LBS.)
PHNTM399C	399	80	375	326	94.1%	43-1/2	16-7/8	31-3/16	3.4	3/4" NPT	1-1/2" NPT	316
PHNTM500C	500	100	485	422	97.0%	35-1/16	16-7/8	46-1/2	4.3	3/4" NPT	2" NPT	368
PHNTM600C	625	125	594	517	95.0%	35-1/16	16-7/8	49-1/2	5.4	1" NPT	2" NPT	458
PHNTM700C	725	145	689	599	95.0%	35-1/16	16-7/8	49-1/2	5.4	1" NPT	2" NPT	458
PHNTM800C	800	160	760	661	95.0%	35-1/16	16-7/8	53-5/16	6.2	1" NPT	2" NPT	500

NOTES:

1. For elevations above 2,000 ft. consult manual for boiler de-rates and approved LP and NG applications and altitudes for installation.
2. The Net AHRI Water Ratings are based on a piping and pickup allowance of 1.15.
3. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.
4. See Installation Manual for a list of approved Vent Systems and Sizes, Vent Length Limitations, Vent and Combustion Air Connector Diameters and other Installation Requirements.

Flow Range Requirement Through Boiler

BOILER MODEL	$\Delta T = 35^{\circ}\text{F}$		$\Delta T = 30^{\circ}\text{F}$		$\Delta T = 25^{\circ}\text{F}$		$\Delta T = 20^{\circ}\text{F}$	
	MINIMUM REQUIRED FLOW (GPM)	BOILER HEAD LOSS (FT.)	REQUIRED FLOW (GPM)	BOILER HEAD LOSS (FT.)	REQUIRED FLOW (GPM)	BOILER HEAD LOSS (FT.)	MAXIMUM REQUIRED FLOW (GPM)	BOILER HEAD LOSS (FT.)
PHNTM399C	21.5	6.1	25.1	7.9	30.2	10.8	37.7	15.9
PHNTM500C	27.7	5.2	32.3	6.8	38.8	9.3	48.5	13.6
PHNTM600C	33.9	4.7	39.6	6.1	47.5	8.4	59.4	12.4
PHNTM700C	39.4	6.0	45.9	7.9	55.1	10.9	68.9	16.1
PHNTM800C	43.4	5.9	50.7	7.8	60.8	10.8	76.0	16.1

All models include a one-year parts warranty and a nine-year limited heat exchanger warranty. Visit VelocityBoilerWorks.com or see your warranty for complete details.



The Mega-Stor II® indirect water heater utilizes the energy created by your boiler to produce abundant hot water for your home. Mega-Stor II® water heaters come in a variety of sizes from 30 to 119 gallons to meet a multitude of residential and commercial needs.

ADDITIONAL FEATURES/BENEFITS

- Boiler, system and domestic hot water pump outputs
- Slide-out control panel drawer
- Field convertible to LP gas
- 4-20mA and modbus inputs

Specifications are subject to change without notice.



VelocityBoilerWorks.com | Philadelphia PA

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