

## **High Capacity ASME Commercial Marine Electric Tankless Water Heater**

The Hubbell Tankless MTXA water heater can provide flow rates up to 40 GPM with a temperature range of 32-194°F

Available up to 162 kW in three phase voltage

Instantaneous design reduces stand-by heat loss and significantly lowers operating costs compared to traditional storage systems

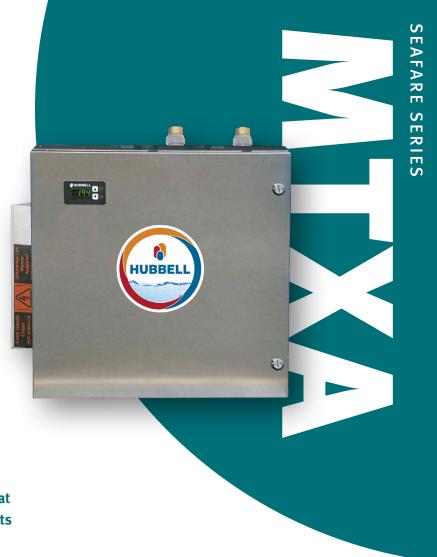
**Constructed with high-grade materials** to ensure long operating life

#### **Digital temperature controls**

- Factory packaged heater provides trouble-free installation and operation
- Solid state switching that fully modulate between o-100%
- Wide selection of sizes to meet the needs of even the most demanding application

#### **Applications**

On board barges, cruise ships, ferries, fishing vessels, houseboats, work boats, tankers, and much more.



#### Tankless water heater for commercial marine use

The Seafare MTXA is a highly reliable and easy to maintain electric tankless water heater, designed and built specifically for commercial marine applications. The MTXA has a high quality ASME stamped pressure vessel and is made to ABS standards with optional ABS Certification. The unit provides outstanding efficiency, and occupies minimum space.

#### Over 100 years of water heating expertise

Hubbell water heaters are the right choice for your commercial and industrial applications. We have water heating solutions for most energy sources with storage capacities from 1–10,000 gallons — all designed, engineered, and manufactured for reliability and longevity coupled with unparalleled support and service.













### **Technical Features**

#### **Temperature Controller**

A sophisticated electronic temperature controller with LED digital display provides the user interface. The temperature controller processes all flow and temperature data and calculates the precise amount of power needed to meet demand.

Temperature Co	Temperature Controller Capabilities				
Power Limiting:	Allows the operator to reduce the power consumption by any percentage to provide installation and operational flexibility and savings.				
Diagnostics:	Display inlet and outlet temperatures, flow rate and error codes to assist in troubleshooting.				
Cost Calculator:	Determine the exact cost of operating the heater. Input your cost per kW·Hr and the controller displays total kW·HRs consumed, total cost of operation, and total hot water usage (shown in gallons or liters).				
Temperature Control:	Set the digital display to the desired water temperature in °F or °C. Fully adjustable in 1° increments from 32–194°F (0–90°C). A user adjustable +/- 3° calibration feature provides additional control for superior accuracy.				

#### **Full Heater Modulation**

Each heating element is switched on/off using a fast acting solid state TRIAC with zero cross over firing control. This switching scheme provides full modulation of each heating element, ensuring that the precise amount of heat is added to meet demand.

#### **Proper Power Integrity**

All Hubbell tankless water heaters, including all 3 phase models, are engineered to operate as a balanced load and operate at 0.999 Power Factor. All Hubbell 3 phase models are designed for 3 wire (3 live, 1 ground) and 4 wire power systems and draw equal current across all conductors to maintain the power integrity of the users electrical system. Hubbell does not recommend the use of heaters that operate as an unbalanced load. All load switching in Hubbell tankless models is performed as zero cross over, eliminating phase angle firing interference and associated EMI issues.

#### **Full Resource Staging**

The Hubbell tankless control scheme ensures that usage is equalized across all heating circuits. To achieve this, once the controller has calculated the precise amount of kW required, all circuits are energized in a staggered fashion such that each circuit is proportionally and independently energized and then time staggered between circuits. This Full Resource Staging Scheme reduces EMI output, increases component longevity, and provides highly accurate and consistent hot water temperatures. For three phase models, all circuits are fully modulated and synchronized to operate as a balanced load.

#### **BACnet Module**

The Hubbell BACnet interface unit implements BACnet MS/TP protocol. The device comes from the factory ready to be operated. The unit can be reconfigured easily with a USB cable and the BACnet Network Utility program which you can download from <a href="https://docs.org/bacnet">hubbellheaters.com/bacnet</a>. The BACnet includes features such as set temperature, power limiting, power setting, temperature in and out, flow rate, flowmeter error and leak detections. Note that internet protocol is not supported.

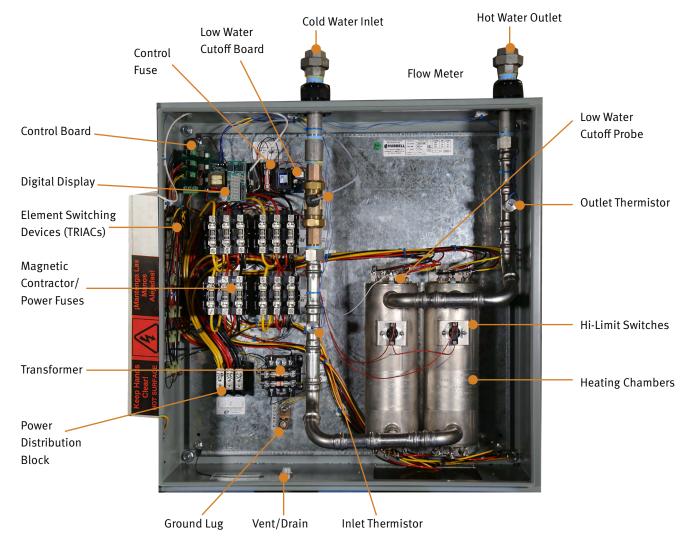
## **Heater Specifications**

Heating Chamber	Stainless Steel
Wattage Range	5 –162 kW
Orientation	Wall Mounted
Voltages	208-600 Volt, 50/60 HZ
Phases	3Ф (balanced)
Power Factor	0.999
Thermal Efficiency	98% +
Inlet / Outlet Size	1" FNPT
Min/Max Flow	0.5 GPM Min, 40 GPM Max
Max Inlet Temp.:	150°F
Thermostat Range	32-194°F / 0-90°C
Hi-Limit	200°F (Fixed temperature)
Design WP	150 psi
Design TP	225 psi
Elements	Incoloy 800
Standby Power	< 3 Watts
Heating Chamber Warranty	5 Year
Electrical Warranty	1 Year
Enclosure	Painted Steel NEMA 4 IP65/IP66 Rating
Approvals	ETL and ASME

All information is subject to change without notice. Consult factory for submittal drawings.



## Inside the Tankless MTXA (2 chamber model shown)

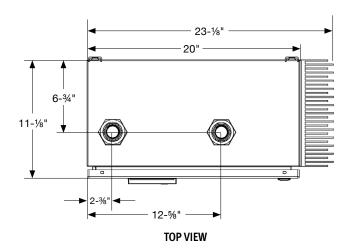


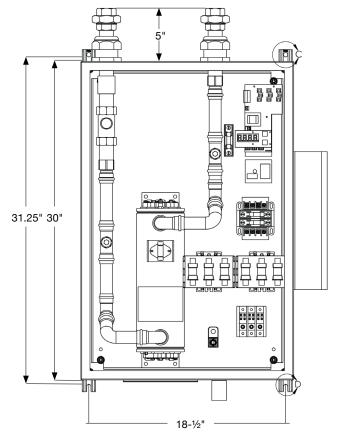




## **Dimensions**

#### 3 & 6 Element





**FRONT VIEW** 

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# **kW** and Amperage **Selection Chart**

#### 3 Element

(Amperage shown in chart below indicates available models)

kW	3 Element 3 Phase Voltages									
	208	240	380	415	440	480	600			
5	14				7					
6					8					
7					9	8				
11	31		17		14					
12	33									
13			20	18	17					
14		34				17				
15			23		20					
16	44	39		22	21					
18	50		27	25	24	22				
20	56		30	28	26					
21		51			28	25	20			
24		58	37	33	32	29	23			
27		65			35	33	26			

#### **6 Element**

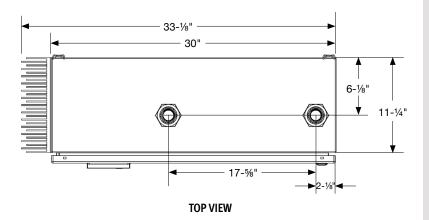
(Amperage shown in chart below indicates available models)

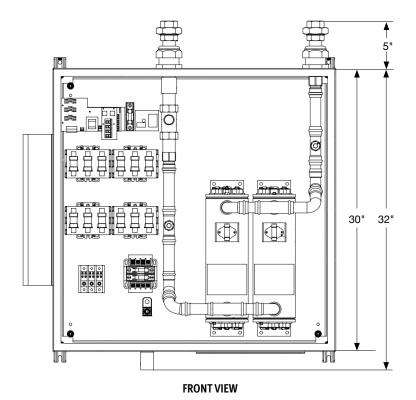
kW	6 Element 3 Phase Voltages									
	208	240	380	415	440	480	600			
25	69									
27			41	38						
30			46							
31	86			43	41					
33		79								
36	100		55	50	47	43				
40			61	56	53					
42		101			55	51	40			
48		116		67	63	58	46			
54					71	65	52			



## **Dimensions**

#### 12 Element Sample dimensions are for a MTXA





# kW and Amperage Selection Chart

#### 12 Element

(Amperage shown in chart below indicates available models)

kW	12 Element 3 Phase Voltages						
	208	240	380	415	440	480	600
40	111						
50	139						
54		130					
60			91				
63	175			88			
66		159					
70					92		
72	200		110	100		87	
81			123	113			
84		202			110	101	81
96			146	134	126	116	92
108			164		142	130	104



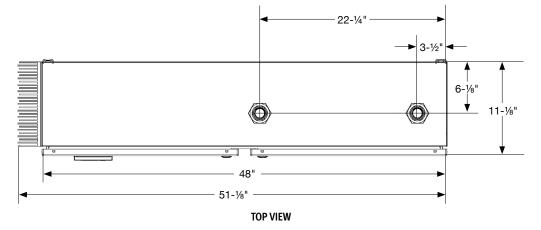
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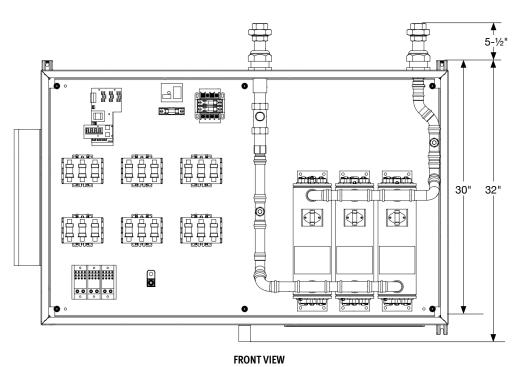


## **Dimensions**

#### 18 Element

Sample dimensions are for a MTXA





# **kW** and Amperage **Selection Chart**

#### 18 Element

(Amperage shown in chart to right indicates available models)

kW	18 Element 3 Phase Voltages								
	208	240	380	415	440	480	600		
75	208								
95	264								
99		238							
121			184	169					
126					166	152	121		
144				201	189	173	139		
162			246		213	195	156		

All information is subject to change without notice. Consult factory for submittal drawings.



## **Heating Capacity**

kW	Maximum Flow Rate GPM at Temperature Rise (°FΔT)											
Rating	5°F ΔΤ	10°F ΔΤ	20°F ΔΤ	30°F ΔΤ	40°F ΔΤ	50°F ΔΤ	60°F ΔΤ	70°F ΔΤ	80°F ΔΤ	100°F ΔΤ	120°F ΔΤ	140°F ΔΤ
5	6.8	3.4	1.7	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.2
6	8.2	4.1	2.0	1.4	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.3
7	9.6	4.8	2.4	1.6	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3
8	10.9	5.5	2.7	1.8	1.4	1.1	0.9	0.8	0.7	0.5	0.5	0.4
9	12.3	6.1	3.1	2.0	1.5	1.2	1.0	0.9	0.8	0.6	0.5	0.4
10	13.6	6.8	3.4	2.3	1.7	1.4	1.1	1.0	0.9	0.7	0.6	0.5
12	16.4	8.2	4.1	2.7	2.0	1.6	1.4	1.2	1.0	0.8	0.7	0.6
14	19.1	9.6	4.8	3.2	2.4	1.9	1.6	1.4	1.2	1.0	0.8	0.7
16	21.8	10.9	5.5	3.6	2.7	2.2	1.8	1.6	1.4	1.1	0.9	0.8
18	24.6	12.3	6.1	4.1	3.1	2.5	2.0	1.8	1.5	1.2	1.0	0.9
20	27.3	13.6	6.8	4.5	3.4	2.7	2.3	1.9	1.7	1.4	1.1	1.0
24	32.8	16.4	8.2	5.5	4.1	3.3	2.7	2.3	2.0	1.6	1.4	1.2
25	34.1	17.1	8.5	5.7	4.3	3.4	2.8	2.4	2.1	1.7	1.4	1.2
27	36.8	18.4	9.2	6.1	4.6	3.7	3.1	2.6	2.3	1.8	1.5	1.3
30		20.5	10.2	6.8	5.1	4.1	3.4	2.9	2.6	2.0	1.7	1.5
31		21.2	10.6	7.1	5.3	4.2	3.5	3.0	2.6	2.1	1.8	1.5
33		22.5	11.3	7.5	5.6	4.5	3.8	3.2	2.8	2.3	1.9	1.6
36		24.6	12.3	8.2	6.1	4.9	4.1	3.5	3.1	2.5	2.0	1.8
40		27.3	13.6	9.1	6.8	5.5	4.5	3.9	3.4	2.7	2.3	1.9
42		28.7	14.3	9.6	7.2	5.7	4.8	4.1	3.6	2.9	2.4	2.0
48		32.8	16.4	10.9	8.2	6.6	5.5	4.7	4.1	3.3	2.7	2.3
50		34.1	17.1	11.4	8.5	6.8	5.7	4.9	4.3	3.4	2.8	2.4
54		36.8	18.4	12.3	9.2	7.4	6.1	5.3	4.6	3.7	3.1	2.6
60			20.5	13.6	10.2	8.2	6.8	5.8	5.1	4.1	3.4	2.9
63			21.5	14.3	10.7	8.6	7.2	6.1	5.4	4.3	3.6	3.1
66			22.5	15.0	11.3	9.0	7.5	6.4	5.6	4.5	3.8	3.2
70			23.9	15.9	11.9	9.6	8.0	6.8	6.0	4.8	4.0	3.4
72			24.6	16.4	12.3	9.8	8.2	7.0	6.1	4.9	4.1	3.5
75			25.6	17.1	12.8	10.2	8.5	7.3	6.4	5.1	4.3	3.7
81			27.6	18.4	13.8	11.1	9.2	7.9	6.9	5.5	4.6	3.9
84			28.7	19.1	14.3	11.5	9.6	8.2	7.2	5.7	4.8	4.1
95			32.4	21.6	16.2	13.0	10.8	9.3	8.1	6.5	5.4	4.6
96			32.8	21.8	16.4	13.1	10.9	9.4	8.2	6.6	5.5	4.7
99			33.8	22.5	16.9	13.5	11.3	9.7	8.4	6.8	5.6	4.8
108			36.8	24.6	18.4	14.7	12.3	10.5	9.2	7.4	6.1	5.3
116			39.6	26.4	19.8	15.8	13.2	11.3	9.9	7.9	6.6	5.7
126				28.7	21.5	17.2	14.3	12.3	10.7	8.6	7.2	6.1
144				32.8	24.6	19.7	16.4	14.0	12.3	9.8	8.2	7.0
162				36.8	27.6	22.1	18.4	15.8	13.8	11.1	9.2	7.9

#### Notes:

Alternate voltages including 277, 380, 415, 440, 575 and 600 volts available. Please consult factory for exact kW availability in these voltages.



## **Tankless MTXA Model Number Designation**

	See pages 4-	6 for available kW	and heating element combinations.	
MODEL	KW RATING	NUMBER OF HEATING ELEMENTS	VOLTAGE / PHASE	OPTIONAL EQUIPMENT
MTXA	5 – 162	3	Balanced 3Ф	Write/type optional equipment code
		6	<b>R</b> = 208/3	in the gray box below in alphabetical
		12	<b>T</b> = 240/3	order. For multiple options separate
		18	<b>T3</b> = 380/3	codes with a dash (–).
			<b>17</b> = 415/3	
			<b>T5</b> = 440/3	
			<b>T4</b> = 480/3	
			<b>T6</b> = 600/3	

MTXA

Example: MTXA024-3T4-C35-V36

A Hubbell Seafare MTXA ASME stamped tankless electric water heater rated for 24kW, with 3 heating elements to be powered at 480 volts, three phase, 60 Hz power with optional BACnet communication module with T1000 digital controller and optional ABS Tier 5 Certification.

## **Optional Equipment** Note: Optional equipment must be called out in the written specifications, use the codes below.

Conti	roller	Elect	rical
C15	Non-Fused Disconnect Switch	E8	Built-In Circuit Breaker with Safety Handle
C16	Fused Disconnect Switch		
C35	BACnet Communication Module with T1000	Gen	eral
C51	Digital Controller Remote Control Display, Allows the Heater to be Installed in a a Remote Location. The 3" X 5" NEMA 4 Display Enclosure can be Located up to 25' from the Heater Integrated PLC Control Package	G <sub>3</sub> G <sub>9</sub> G <sub>16</sub>	Enclosure Heater (Specify Minimum Temperature Expected) Explosion Resistant Construction (Specify Class, Divison, Group, and Temperature Class) NEMA 4X Rating
C63	•		sel
		V36	ABS Tier 5 Certification
	se note: Optional equipment may impact overall dimensions and ht. Please request submittal drawing from factory.	V41	Alternate Threaded Inlet/Outlet Connections Size

#### **Available Accessories**

**Tankless Valve Kit:** Inlet and outlet valve assembly simplifies installation. Includes unions, shut offs, check valve, drain ports and pressure relief valve. For 1", specify part number "TANKLESS VALVE KIT 1""

10-year Warranty: 10-year non pro-rated tank warranty, specify part number "VESSEL WARRANTY"

Accessories Name Part #

Accessories Name Part #

H1053-A-20250915