



Since 1966

ELECTRIC TANKLESS WATER HEATER - POINT OF USE

INSTANT-FLOW®



- LOW ACTIVATION

IDEAL APPLICATION: public lavatories

PRODUCT FEATURES

- Heater plus integrated solenoid valve with automatic shutoff during leak detection.
- Audible alarm with reset during leak detection
- 10VDC Outputs for BMS Systems to Monitor
- Uses a digital microprocessor for temperature control, Ultra quick response times for temperature variations - 120 times per second. Microprocessor use is the most energy efficient means of heating water
- Unlimited hot water
- Ideal for sensor /hands-free faucets with the 104°F (40°C) factory preset setting
- Ultra Low Flow Activation - 0.20 GPM (0.75 LPM)
- Saves water and energy - 99% energy efficient
- Meet all CAL GREEN low flow requirements
- Meets LEED v4 low flow requirements
- Vandal resistant rugged cast aluminum housing
- Space saving compact size: 8-3/16" (H) x 15-1/16" x 2-3/4" (208 (H) x 383 x 70mm)
- Meets applicable building codes including ADA, UL, IAPMO, UPC, CSA.
- Environmentally friendly
- Made in the U.S.A.
- Patent Pending
- Field Adjustable Temperature 104-125°F (40-52°C)

Chronomite Instant-Flow® FLOW SECURE™ - Low Activation models are manufactured to provide reliable point-of-use hot water. There is no pressure and temperature relief valve needed (unless required by code), saving time and money on installation.

Housing is fabricated from rugged cast aluminum alloy.

Element assembly is fabricated from Celcon plastic.

Heating coils are nichrome.

Faucet flow controls are supplied with each unit. 3/8" compression fittings are supplied (standard). Optional 1/2" male NPT water connections available.



Instant-Flow® FLOW SECURE™ - Low Activation

GUIDE SPECIFICATION

Tankless Water Heater shall be a Chronomite Laboratories Model

CMX - L /
AMPS VOLTS

with Amps and Volts

to heat to a preset temperature of

104°F (40°C) 110°F (43°C) 104-125°F (40-52°C)
 120°F (49°C) (Meets ADA)
 Other temperature settings available upon request (specify below)

Unit shall be provided with Celcon waterways, and Nichrome heating coils.

Temperature controlled by microprocessor.

OPTIONS

Pressure & Temp Relief Valve Assembly (TP)
 1/2" Male NPT (NPT08)
 Disconnect Switch, Rotary 40A - Lockable Nema 4X (2095-1)
 Electrical Conduit Metallic ©
 Electrical Conduit Non-Metallic (C-NM)
 IAPMO Certified Mixing Valve Assembly Meeting ASSE 1070 Compliancy (AP-12)

NOTE: Overall Length of CMX + AP-12 = 22-7/16"



Member of
U.S. Green
Building Council



Water
Conserving
Product



Made in
the USA

Complies
with
Standards
for:

LISTED TO:
UL STD 499



CERTIFIED TO:
CAN/CSA STD C22.2 NO. 88



LISTED

214T



Intertek
5001365
CALGreen

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

CHRONOMITE LABORATORIES, INC.

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For the model being selected, please place the corresponding amps and volts values in the Guide Specifications on the first page.

MODEL	AMPS	VOLTS	90°C WIRE	WATTS	ACTIVATION GPM	0.35 GPM	0.50 GPM	1.00 GPM	1.50 GPM	2.00 GPM
CMX-12L/120	12	120	14 AWG	1440	0.20	28	20	---	---	---
CMX-15L/120	15	120	14 AWG	1800	0.20	35	25	---	---	---
CMX-20L/120	20	120	12 AWG	2400	0.20	47	33	---	---	---
CMX-30L/120	30	120	10 AWG	3600	0.20	70	49	25	---	---
CMX-12L/208	12	208	14 AWG	2500	0.20	49	34	---	---	---
CMX-15L/208	15	208	14 AWG	3120	0.20	61	43	21	---	---
CMX-20L/208	20	208	12 AWG	4160	0.20	81	57	28	---	---
CMX-30L/208	30	208	10 AWG	6240	0.20	90+	85	43	28	21
CMX-40L/208	40	208	8 AWG	8320	0.20	90+	90+	57	38	28
CMX-12L/240	12	240	14 AWG	2880	0.20	56	39	20	---	---
CMX-15L/240	15	240	14 AWG	3600	0.20	70	49	25	---	---
CMX-20L/240	20	240	12 AWG	4800	0.20	90+	66	33	22	---
CMX-30L/240	30	240	10 AWG	7200	0.20	90+	90+	49	33	25
CMX-40L/240	40	240	8 AWG	9600	0.20	90+	90+	66	44	33
CMX-12L/277	12	277	14 AWG	3320	0.20	65	45	23	---	---
CMX-15L/277	15	277	14 AWG	4100	0.20	81	57	28	---	---
CMX-20L/277	20	277	12 AWG	5540	0.20	90+	76	38	25	---
CMX-30L/277	30	277	10 AWG	8310	0.20	90+	90+	27	38	28
CMX-40L/277	40	277	8 AWG	11080	0.20	90+	90+	76	50	38

Note 1: Maximum temperature rise may be governed by preset outlet temperature.

Note 2: Local plumbing and electrical codes must be followed for installation of water heater and the accessories.

INSTANT-FLOW® FLOW SECURE™ - LOW ACTIVATION METRIC CHART

MODEL	AMPS	VOLTS	90°C WIRE	WATTS	ACTIVATION LPM	1.30 LPM	2.00 LPM	4.00 LPM	6.00 GPM	8.00 LPM
CMX-12L/120	12	120	14 AWG	1440	0.75	16	10	---	---	---
CMX-15L/120	15	120	14 AWG	1800	0.75	20	13	---	---	---
CMX-20L/120	20	120	12 AWG	2400	0.75	27	17	---	---	---
CMX-30L/120	30	120	10 AWG	3600	0.75	40	26	13	---	---
CMX-12L/208	12	208	14 AWG	2500	0.75	28	18	---	---	---
CMX-15L/208	15	208	14 AWG	3120	0.75	34	22	11	---	---
CMX-20L/208	20	208	12 AWG	4160	0.75	46	30	15	---	---
CMX-30L/208	30	208	10 AWG	6240	0.75	50+	45	22	15	11
CMX-40L/208	40	208	8 AWG	8320	0.75	50+	50+	30	20	15
CMX-12L/240	12	240	14 AWG	2880	0.75	32	21	10	---	---
CMX-15L/240	15	240	14 AWG	3600	0.75	40	26	13	---	---
CMX-20L/240	20	240	12 AWG	4800	0.75	50+	34	17	11	---
CMX-30L/240	30	240	10 AWG	7200	0.75	50+	50+	26	17	13
CMX-40L/240	40	240	8 AWG	9600	0.75	50+	50+	34	23	17
CMX-12L/277	12	277	14 AWG	3320	0.75	37	24	12	---	---
CMX-15L/277	15	277	14 AWG	4150	0.75	46	30	15	---	---
CMX-20L/277	20	277	12 AWG	5540	0.75	50+	40	20	13	---
CMX-30L/277	30	277	10 AWG	8310	0.75	50+	50+	30	20	15
CMX-40L/277	40	277	8 AWG	11080	0.75	50+	50+	40	27	20

Note 1: Maximum temperature rise may be governed by preset outlet temperature.

Note 2: Local plumbing and electrical codes must be followed for installation of water heater and the accessories.

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**SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING**

Company _____

Model Number & Options _____ Quantity _____

Contact _____ Title _____

Signature _____ (Approval for
Manufacturing) _____ Date _____

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LABORATORIES, INC.**
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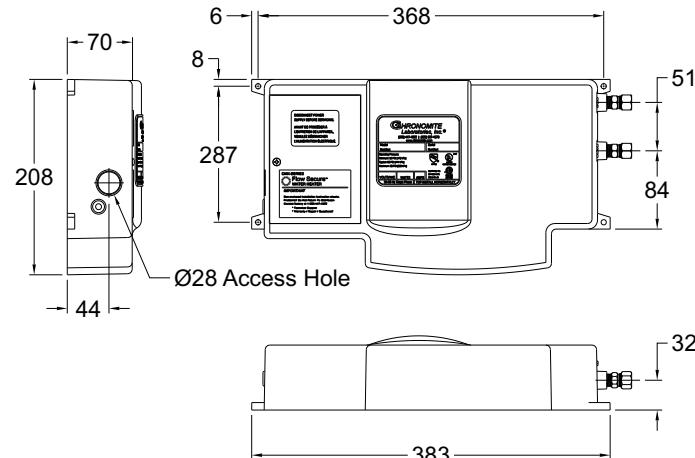
- LOW ACTIVATION

TECHNICAL DIMENSIONS

INSTANT-FLOW® FLOW SECURE™ - LOW ACTIVATION

Dimensions:	208 (H) x 383 x 70mm
Weight:	4.08 Kg
Materials:	Rugged cast aluminum housing Celcon plastic element assembly with nichrome coils
Housing Color:	White
Minimum Operating Flow Rate:	0.75 LPM
Minimum Operating Pressure:	172 kPa
Maximum Operating Pressure:	552 kPa
Maximum Pressure:	1034 kPa
Maximum Water Temperature:	71°C
Maximum Ambient Operating Temperature:	40°C
Listing:	UL, IAPMO, UPC, ADA, ETL

*Limited to preset temperature selected

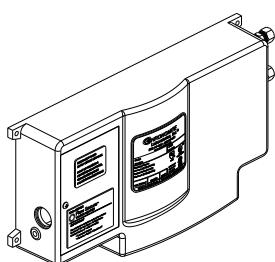
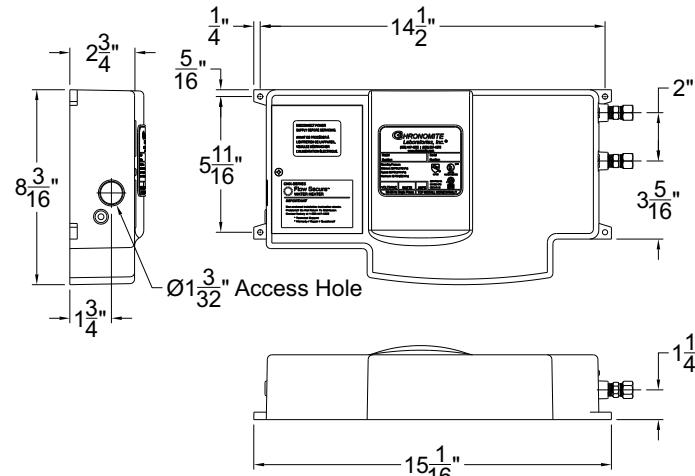


TECHNICAL DIMENSIONS

INSTANT-FLOW® FLOW SECURE™ - LOW ACTIVATION

Dimensions:	8-3/16" (H) x 15-1/16" x 2-3/4"
Weight:	9 lbs.
Materials:	Rugged cast aluminum housing Celcon plastic element assembly with nichrome coils
Housing Color:	White
Minimum Operating Flow Rate:	0.2 GPM
Minimum Operating Pressure:	25 PSI
Maximum Operating Pressure:	80 PSI
Maximum Pressure:	150 PSI
Maximum Water Temperature:	160°F
Maximum Ambient Operating Temperature:	140°F
Listing:	UL, IAPMO, UPC, ADA, ETL

*Limited to preset temperature selected



GENERAL NOTES:

- The microprocessor adjusts the heater's power for variations in flow rates, inlet water temperature and pressure to assure the selected factory preset water temperature.
- 240V models when operated at 220V will have approximately a 15% wattage decrease.
- 120V models when operated 110V will have approximately a 15% wattage decrease.
- Instant-Flow FLOW SECURE™ is ideal for sensor/hands-free faucets with the 104°F (40°C factory preset setting temperature)
- Microprocessor and integrated thermostatic mixing valve limits temperature increase according to the pre-selected temperature.

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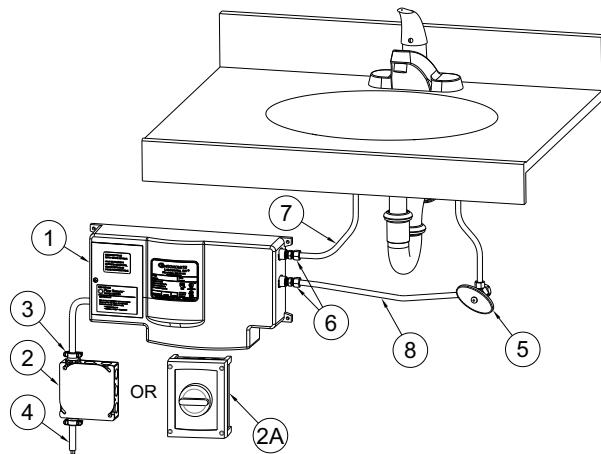


- LOW ACTIVATION

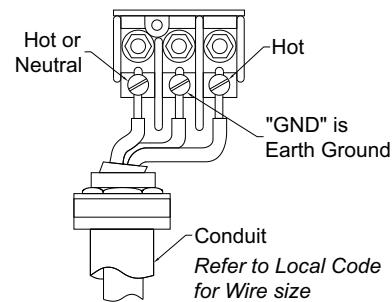
Notes:

1. Heater to be installed below the level of all hot water outlets serviced by the Heater.
2. Diagram shown with standard 3/8" Compression Fitting. Optional 1/2" NPT Male water connections available.

- 1 Instant-Flow® FLOW SECURE™ Heater
- 2 Electrical Junction Supply Box (Optional)
- 2A 2095-1 Disconnect Switch (Optional)
- 3 Electrical Supply Conduit
- 4 Electrical Supply Wire
- 5 Dual Outlet Stop, 3/8" Comp. Outlet Connections
- 6 3/8" Comp. x 1/4" NPT Fittings (supplied)
- 7 3/8" Hot Water Outlet
- 8 3/8" Cold Water Inlet



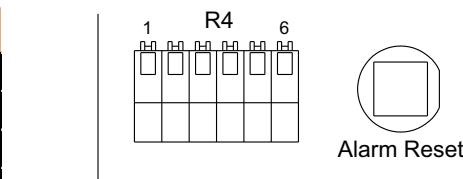
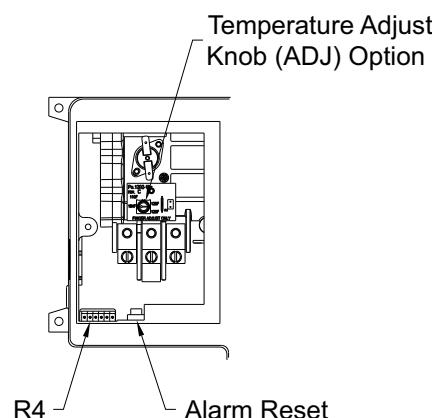
WIRING CONNECTION



ATTENTION:

Unit must be hard wired.

NOTE: Heaters are single phase. All tests are measured at the output of the heater.



R4 TERMINAL BLACK

	Common	1
Temperature output	Conversion Chart of 100F - 140F = 0-10vdc	2
kW Controller	0v=0 and 10vdc = 100% Power	3
Heater On/Off	0v=Off and 10vdc = On	4
Solenoid Water Leak	0v=dry and 10vdc = Wet/Leak	5
Pressure Sensor Switch	0v=open and 10vdc = switch closed (100 PSI)	6

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