



Conforms to the following:

ASSE 1017
California Lead Free Plumbing Law
CSA B 125.3 (NSF/ANSI 61 Section 8)







The ETV Platinum Plus can operate in one of the following modes:

- ETV (Temperature Control)
- TMC (Alarm Condition Safeguard)
- ETV Combo (Temperature Control with Alarm Condition Safeguard)

Designed for critical temperature applications

- Accurately maintains set point from 0.5 gpm domestic draw to full flow
- Domestic Hot Water Temperature Control
- Heating & Cooling or Industrial Applications

Stainless Steel Valve Bodies

- · Conforms to Lead Free Requirements
- Rugged Body Design
- Minimizes Scale Build up
- External Mounted Actuator

Safeguard against high temperature conditions

- Optional Safety Valve Output
- Dual Alarm Outputs

Remote Communication Options

- Internet (Heat-Timer RINET)
- BACnet (IP or MSTP)
- ModBus



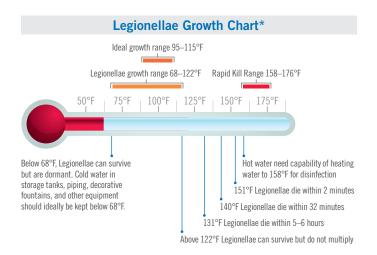
Why ETV Platinum Plus is Important

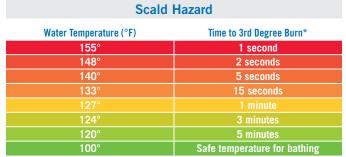
Legionella—Selection and controlling proper water temperature in domestic water storage and delivery systems is important in preventing illness from water-borne bacteria such as Legionella.

Scald Hazard—Scald hazards can be created in domestic water distribution systems when not properly controlled or monitored.

Fluctuations—Is the rapid and uncomfortable change in water temperature experienced at the faucet or shower by the end-user, which can lead to a fall or serious injury due to the thermal shock.

The ETV Platinum PLUS allows the domestic water system to be stored at higher temperatures to prevent the growth of Legionella, while being able to control and deliver a consistent tempered water out to the building.





*As per www.asse-plumbing.org and www.osha.gov



ETV Platinum Plus – Advantage

Digital Temperature Control

 Accurately maintains set point from 0.5 gpm domestic draw to full flow per ASSE 1017

Quick Startup

 Single set point input, no multiple valve settings or balancing required

Multiple Valve Sizes

- 7 Valve Sizes allow proper size selection for desired flow rates
- Multiple valves setup option for larger systems

Maintenance Free

- The stainless valve body design reduces scale build up
- The external mounting of the actuator provides easy access
- There are no gaskets to maintain or replace as there are no motor to water contact concerns

Control Settings & Menu Field Accessible

No laptop or dedicated software required

Flexibility of Installation

HOT and COLD valve connections are interchangeable

Single Control—Multiple Valves

 A single control module can control multiple valves in high flow applications

7 Day Scheduling with 4 Daily Setbacks

- Capability to lower outlet set point during low usage periods
- Weekly schedule with 4 daily setbacks for maximum energy efficiency

Remote Communication Options

- Internet (Heat-Timer RINET)
- BACnet (IP or MSTP)
- ModBus



ETV Platinum Plus – Applications

- Hospitals and Nursing Facilities
- Hotels and Resorts
- Correctional Prison Facilities
- Military Installation Barracks

- School Educational Buildings—Dorms
- Multi Family Buildings
- Office Buildings
- Industrial Processes



ETV Platinum Plus – Actuator

External Mounting to Valve Body

- Eliminates the potential of motor to water contact
- Eliminates the need for gasket maintenance or replacement

Self-Calibrating

Prevents motor damage due to over-torque conditions

Reverse Direction Capability

 Allows the HOT and COLD inlets of the valve to be interchangeable





ETV Platinum Plus – Remote Communication Options

Internet Access

- Internet access through Heat-Timer's Internet Communication Management System (ICMS)
- Receive system critical alarms as an email or text message
- No license fees or special software required

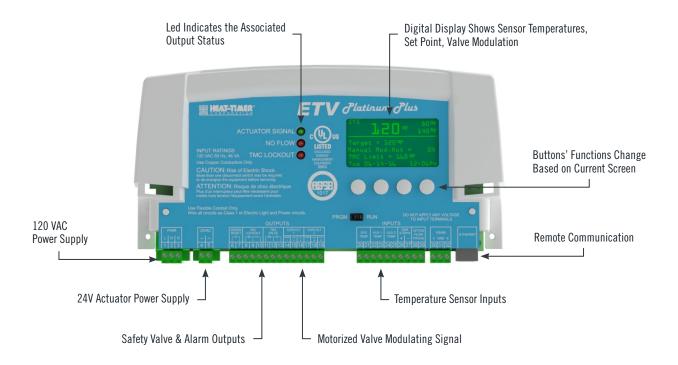
Building Automation Systems (BAS)

- Supports BACnet and ModBus protocols
- Read and write access to control setting and temperature readings



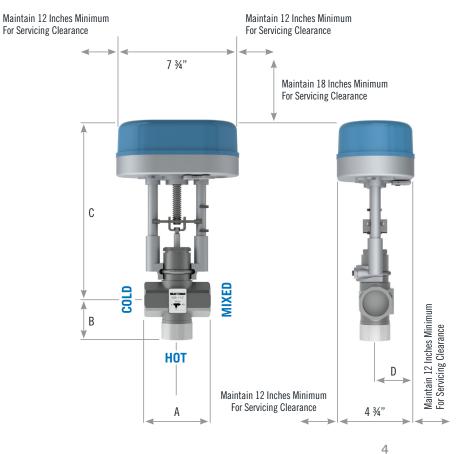


ETV Platinum Plus – Layout





ETV Platinum Plus – Dimensional



| ETV Assembly | Dimension | | | | | |
|-----------------|-----------|--------|---------|--------|--|--|
| | A | В | C | D | | |
| 1/2" | 3 1/8" | 2" | 10 ½" | 2 ¾" | | |
| 3/4" | 3 1/8" | 2" | 10 %" | 2 ¾" | | |
| 1" | 4" | 2 1/8" | 10 ¾" | 2 ¾" | | |
| 1 1/4" | 4" | 2 ½" | 11" | 2 ¾" | | |
| 1 ½" | 13 1/5" | 2 1/5" | 11 ¾16" | 2 3/8" | | |
| 2" | 5 ½" | 3 ¾" | 11 %" | 2 3/8" | | |
| 2 ½" | 6 5/16" | 4" | 2 3/4" | 2 3/8" | | |

| ETV Assambly | Valve Connections—NPSC | | | | | |
|--------------|------------------------|------|-------|--|--|--|
| ETV Assembly | HOT | COLD | MIXED | | | |
| 1/2" | 1/2" | 1/2" | 1/2" | | | |
| 3/4" | 3/4" | 3/4" | 3/4" | | | |
| 1" | 1" | 1" | 1" | | | |
| 1 ¼" | 1 ¼" | 1 ¼" | 1 ¼" | | | |
| 1 ½" | 1 ½" | 1 ½" | 1 ½" | | | |
| 2" | 2" | 2" | 2" | | | |
| 2 ½" | 2 ½" | 2 ½" | 2 ½" | | | |

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ETV Platinum Plus – Specifications

ETV Platinum PLUS Control Module

| Voltage Input: | 120 VAC 60 Hz |
|----------------------------|--|
| Maximum Input Rating: | 48 VA max |
| Display: | |
| Display/Temperature Units: | °F and °C |
| Modes of Operation: | ETV, TMC, ETV+TMC Combo |
| ETV Set Point: | 40°F / 4°C to 200°F / 93°C |
| Alarm Set Point: | 40°F / 4°C to 200°F / 93°C |
| Modulation Output Signal: | 0-10V, 2-10V, 0-5V, 1-5V, 4-20mA |
| LED Indicators: | 3 (Actuator Signal, No Flow, Alarm Status) |
| Inputs: Sensor | s (Hot, Cold, Mixed), Flow Prove, EMS 4–20mA |
| Dimensions: | 11"W x 9"H x 3 ¾"D |
| Weight: | 2.5 lbs. |

ETV Platinum PLUS Actuator

| Voltage Input: | 24 VAC 60 Hz |
|--------------------|---------------|
| Power Consumption: | 18 VA maximum |
| Input Signal: | 0-10 V |
| Weight: | 2.6 lbs. |

ETV Platinum PLUS Valve Body

| Body & Trim: | 304 Stainless |
|--------------------------------|---------------|
| Maximum Operating Temperature: | 300°F / 149°C |
| Maximum Working Pressure: | 225 psi |
| Stem Material: | 640 Stainless |



ETV Platinum Plus – Sizing

ETV Platinum PLUS Stainless Steel Valve

| Pressure | Valve Size | | | | | | |
|----------|--------------------|------|----|------|------|-----|------|
| Drop psi | 1/2" | 3⁄4" | 1" | 1 ¼" | 1 ½" | 2" | 2 ½" |
| Cv | 5 | 7 | 12 | 18 | 29 | 46 | 73 |
| 3 | 8 | 12 | 20 | 32 | 50 | 80 | 126 |
| 4 | 9 | 15 | 23 | 37 | 58 | 93 | 145 |
| 5 | 10 | 16 | 26 | 41 | 64 | 103 | 162 |
| 6 | 12 | 18 | 28 | 45 | 71 | 113 | 178 |
| 7 | 13 | 20 | 31 | 50 | 78 | 125 | 192 |
| 8 | 14 | 21 | 33 | 53 | 83 | 132 | 205 |
| 9 | 15 | 22 | 35 | 56 | 88 | 140 | 218 |
| 10 | 16 | 23 | 36 | 58 | 91 | 145 | 230 |
| 11 | 17 | 24 | 38 | 62 | 97 | 154 | 241 |
| 12 | 18 | 25 | 40 | 64 | 100 | 160 | 252 |
| | Gallons Per Minute | | | | | | |

ETV Platinum PLUS Safety Valve

| Pressure | Description | | | | | | |
|----------|-----------------|------|-----|------|------|-----|--|
| Drop | 1/2" | 3⁄4" | 1" | 1 ¼" | 1 ½" | 2" | |
| Cv/1 psi | 15 | 35 | 60 | 90 | 125 | 240 | |
| 2 psi | 21 | 50 | 85 | 127 | 177 | 339 | |
| 3 psi | 26 | 61 | 104 | 156 | 217 | 416 | |
| 4 psi | 30 | 70 | 120 | 180 | 250 | 480 | |
| 5 psi | 34 | 78 | 134 | 201 | 280 | 537 | |
| | Flow Rate – GPM | | | | | | |

Sizing Recommendation: Heat Timer recommends sizing the stainless valve with a design flow as close as possible to a 5 psi pressure drop. When selecting a Safety Valve it is recommended to use no greater than a 3 psi pressure drop.



ETV Platinum Plus – Part Numbers

| Valve | Part Numbers | | | | | | | |
|-------|----------------------|--|-----------|------------------------------------|------------------------------------|-----------------------------------|--|--|
| Size | Complete Assembly | Valve/Actuator TMC Motorized Transformer Valve | | Complete Assembly BACnet Option | Complete Assembly ModBus Option | Complete Assembly RINET Option | | |
| 1/2" | 915670-00 | 915640-00 | 920540-00 | 915670-BAC | 915670-BUS | 915670-RINET | | |
| 3/4" | 915671-00 | 915641-00 | 920541-00 | 915671-BAC | 915671-BUS | 915671-RINET | | |
| 1" | 915672-00 | 915642-00 | 920542-00 | 915672-BAC | 915672-BUS | 915672-RINET | | |
| 1 ¼" | 915673-00 | 915643-00 | 920543-00 | 915673-BAC | 915673-BUS | 915673-RINET | | |
| 1 ½" | 915674-00 | 915644-00 | 920544-00 | 915674-BAC | 915674-BUS | 915674-RINET | | |
| 2" | 915675-00 | 915645-00 | 920545-00 | 915675-BAC | 915675-BUS | 915675-RINET | | |
| 2 ½" | 915676-00 | 915646-00 | 920546-00 | 915676-BAC | 915676-BUS | 915676-RINET | | |

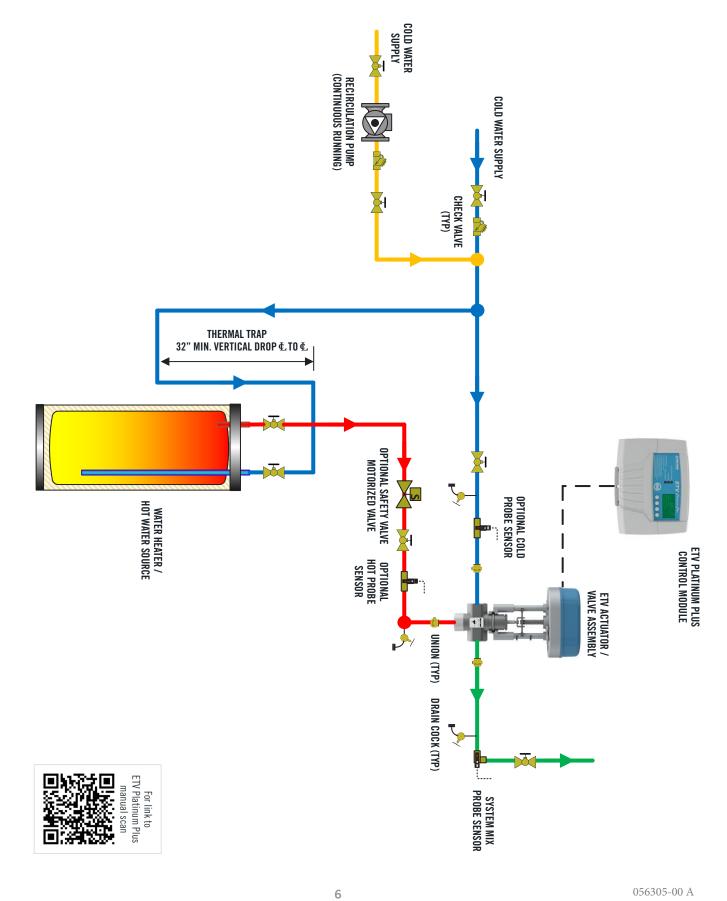
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Complete Assembly includes sensors, stainless valve, actuator and control module.

Valve/Actuator for multiple valve applications.

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