





# 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
- Accurately maintains set point within +/-2 °F
- Domestic hot water temperature control
- Heating and 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

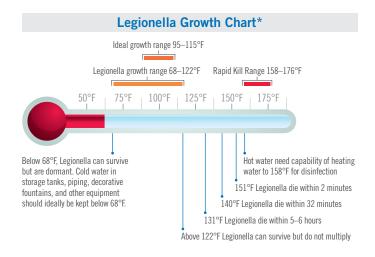
- Internet (Heat-Timer RINET)
- BACnet (IP or MSTP)
- ModBus

**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.



Scald Hazard				
Water Temperature (°F)	Time to 3rd Degree Burn*			
155°	1 second			
148°	2 seconds			
140°	5 seconds			
133°	15 seconds			
127°	1 minute			
124°	3 minutes			
120°	5 minutes			
100°	Safe temperature for bathing			

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

# **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

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### **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

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# **ACTUATOR**

#### **EXTERNAL MOUNTING TO VALVE BODY**

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

#### **SMART CALIBRATION**

- Prevents motor damage due to over-torque conditions
- One motor fits all sizes

### **REVERSE DIRECTION CAPABILITY**

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





### REMOTE COMMUNICATION OPTIONS

### **INTERNET ACCESS**

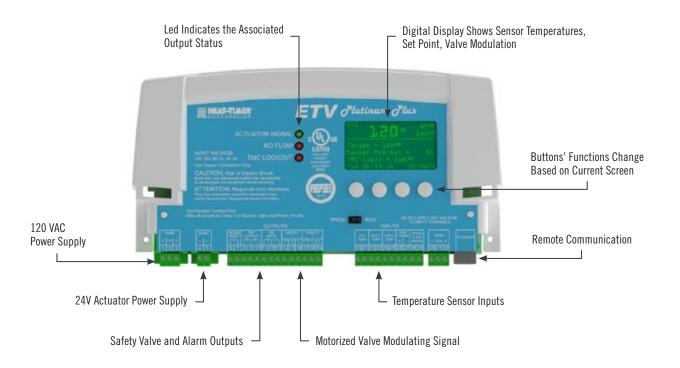
- Internet access through Heat-Timer's Internet Communication Management System (ICMS)
- Receive system critical alarms as an email or text message
- No license fees or special software required

### **BUILDING AUTOMATION SYSTEMS (BAS)**

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

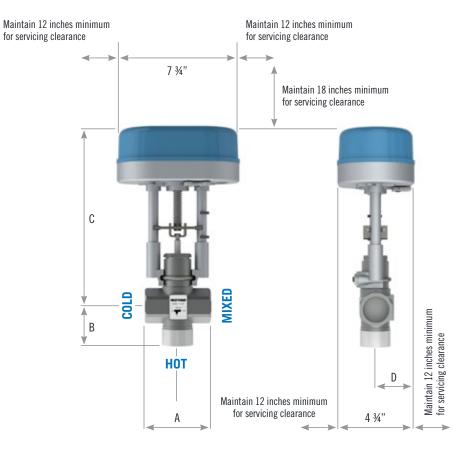
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# **DIMENSIONAL**



ETV	DIMENSION				
ASSEMBLY	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"	4 1/5"	2 1/5"	11 ¾16"	2 %"	
2"	5 ½"	3 ¾"	11 ¾"	2 %"	
2 ½"	6 5/16"	4"	2 ¾"	2 ¾"	

ETV	VALVE CONNECTIONS—NPSC					
ASSEMBLY	НОТ	COLD	MIXED			
1/2"	1/2"	1/2"	1/2"			
3/4"	3/4"	3/4"	3/4"			
1"	1"	1"	1"			
1 1/4"	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"			

#### \_\_\_\_ CONTROL MODULE \_\_\_\_ 120 VAC 60 Hz Voltage Input: \_ Maximum Input Rating: \_\_\_\_\_ 48 VA maximum \_\_\_\_\_ Graphic Display Display: \_ Display/Temperature Units: °F and °C Modes of Operation: \_\_\_\_\_\_ ETV, TMC, ETV+TMC Combo \_\_\_\_ 40°F / 4°C to 200°F / 93°C ETV Set Point: \_ 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 3 (Actuator Signal, No Flow, Alarm Status) LED Indicators: \_\_\_\_\_ Inputs: Sensors (Hot, Cold, Mixed), Flow Prove, EMS 4-20mA Dimensions: \_\_\_\_\_\_ 11"W x 9"H x 3 ¾"D Weight: \_\_\_ 2.5 lbs.

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

VALVE BODY				
Body & Trim:	304 Stainless			
Maximum Operating Temperature:	300°F / 149°C			
Maximum Working Pressure:	225 PSI			
Stem Material:	640 Stainless			



## **SIZING AND PART NUMBERS**

#### STAINLESS STEEL VALVE

PRESSURE	VALVE SIZE						
DROP PSI	1/2"	3/4"	1"	1 1/4"	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
BUILDING	GALLONS PER MINUTE						
RECIRC		5 GPM		10 (	GPM	15 (	<b>SPM</b>

#### **SAFETY VALVE**

VALVE	PART NUMBERS			
SIZE	SAFETY MOTORIZED VALVE No Battery Backup	SAFETY MOTORIZED VALVE With Battery Backup		
1/2"	920540-00	920550-00		
3/4"	920541-00	920551-00		
1"	920542-00	920552-00		
1 1/4"	920543-00	920553-00		
1 ½"	920544-00	920554-00		
2"	920545-00	920555-00		
2 ½"	920546-00	920556-00		
3"	920547-00	920557-00		

**Sizing Recommendation**: Heat Timer recommends sizing the stainless valve with a design flow as close as possible to a 5 PSI pressure drop. Match safety valve size to ETV hot port size.

**Building Recirc:** The minimum building recirc flow rate shown is based on valve size and a flow velocity of 4 ft. per sec.

VALVE	PART NUMBERS				
SIZE COMPLETE VALVE/ACTU	VALVE/ACTUATOR Transformer	COMPLETE ASSEMBLY BACNET OPTION	COMPLETE ASSEMBLY MODBUS OPTION	COMPLETE ASSEMBLY RINET OPTION	
1/2"	915670-00	915640-00	915670-BAC	915670-BUS	915670-RINET
3/4"	915671-00	915641-00	915671-BAC	915671-BUS	915671-RINET
1"	915672-00	915642-00	915672-BAC	915672-BUS	915672-RINET
1 ¼"	915673-00	915643-00	915673-BAC	915673-BUS	915673-RINET
1 ½"	915674-00	915644-00	915674-BAC	915674-BUS	915674-RINET
2"	915675-00	915645-00	915675-BAC	915675-BUS	915675-RINET
2 ½"	915676-00	915646-00	915676-BAC	915676-BUS	915676-RINET

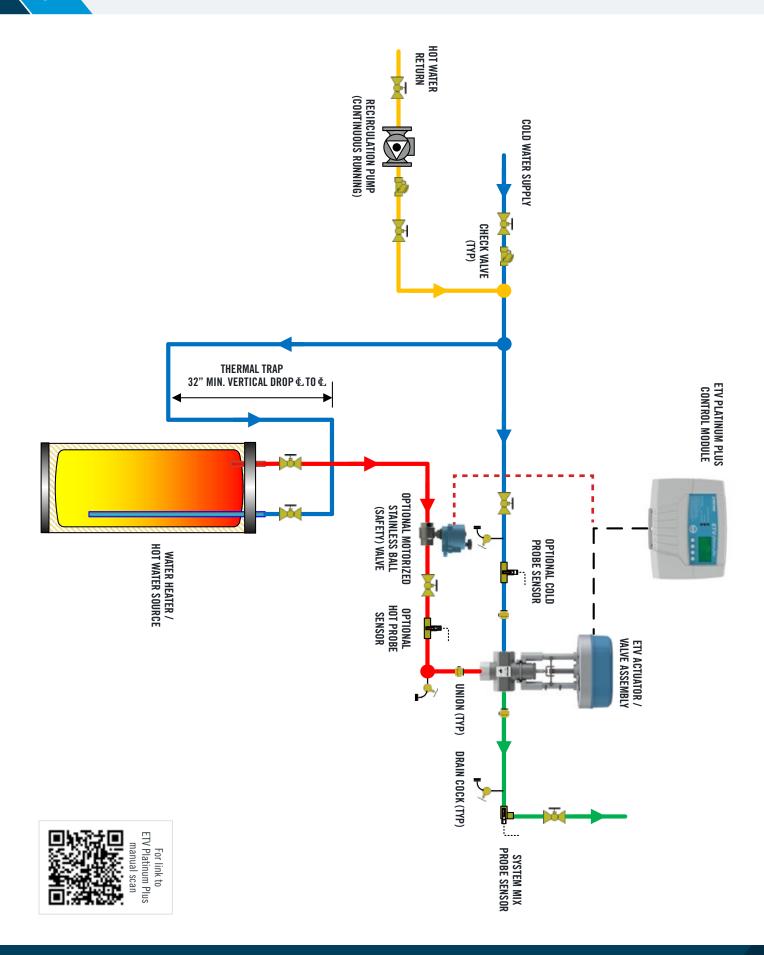
#### **COMPLETE ASSEMBLY**

includes sensor, stainless valve, actuator and control module.

#### **VALVE/ACTUATOR**

for multiple valve applications.

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