

Job or Customer :									
Location :									
Engineer :									
Complies with Spec	Notes :	Notes :							
Contractor :									
Tamas Rep :									
Submitted By :		Date :							
Approved By :		Date :							
P.O. Number :		Date :							

Description

The Tamas Zone Manifold System provides a thermostatic mixing valve (optional), System pump and a manifold for the distribution of mixed water for each of the zones.

Nominal Panel Output

Qty	Model #	Mixing Device	Manifold	Qty	Model #	Mixing Device	Manifold
	T-LO-ZM-2L	3/4" TMV	2 Zones		T-LO-ZM-7L	1" TMV	7 Zones
	T-LO-ZM-3L	3/4" TMV	3 Zones		T-LO-ZM-8L	1" TMV	8 Zones
	T-LO-ZM-4L	3/4" TMV	4 Zones		T-LO-ZM-9L	1" TMV	9 Zones
	T-LO-ZM-5L	1" TMV	5 Zones		T-LO-ZM-10L	1" TMV	10 Zones
	T-LO-ZM-6L	1" TMV	6 Zones		T-LO-ZM-11L	1" TMV	11 Zones

Technical Data

- CSA C22.2 No. 14-95
- UL 598A
- ETL No. 3032227

Material: Backpan Lockable Enclosure Piping	Galvanized Steel Galvanized Steel Stainless Steel
Mixing Device	Thermostatic Mixing Valve
Max Ambient Temperature	120°F (49°C)
Max Ambient Temperature Max Water Temperature	120°F (49°C) 200°F (93°C)





*Panels over 5 Zones will require a 47" x 30" Enclosure

	Part List										
1	Galvanized Back Plate	5	Air Eliminator								
2	Galvanized Mild Steel Cover (Paintable)	6	System Pump UPS 15-58								
3	Tamas Control Box	7	Engineered Composite Heating Manifold								
4	Temperature Gauge	8	Thermostatic Mixing Valve								

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UPS 15-58 3 Speed Pump





230° F Max fluid temp (closed system)

- 150° F Max fluid temp (open system)
- 36°F Min fluid temp
- 10 Bar Max system pressure

Approvals

ETL NSF Std 61 Annex G



46 ±1

52 ±2



34 +:

97 ±2

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Description

The Engineered Composite Heating Manifold Assemblies feature isolation valves and balancing valves with flow meters, and come fully assembled, ready for installation in hydronic radiant heating and cooling systems. The manifolds are available in 2 through 11 Zones, the body ends feature R32 unions and the loop outlets have R20 male threads. Use only propylene glycol in radiant systems with EP Heating Manifolds; never use ethylene glycol.

Technical Data

Manifold, Connecting Piece, Elbow, End Part:	PA66-GF30					
Bracket, Locking Screw:	PA66-GF15			-		
Valve Insert (all plastic parts), Hand Wheels:	POM				明朝	7
Adjusting Screen:	ABS					
Glass Flow Meter	PA12					
Metal Inserts:	Brass C38500					
Axel:	Stainless Steel				US gam	
Max. Test Pressure (24 h, ≤ 86°F) tested with water:	145 psi (10 bar)					TIME
Max. Test Pressure (24 h, ≤ 70°F) tested with air:	100 psi (7 bar)					
Max. Water Flow per Manifold:	0.97 l/s 15.4 gpm			ALL P	AUP .	
Cv Value Inlet/Outlet Valves:	1.4			THE.		1
Spring:	Stainless Steel					
O-ring:	EPDM					
Flat Gasket:	IT-C					
Adaptable Actuators:	EP Heating Manifold Thermal Actuator, fo Manifold Actuator A	l, two-wire Actuato our-wire (A301052 daptor (A2671300)	r (A3030522); 2) with EP Heating)			
Maximum Operating Temperature and Pressu	6 bar at 60° Ire: 87 psi at 14	°C 0°F	5 bar at 70°C 72 psi at 158°F			
	4 bar at 80° 58 psi at 17	°C 6°F	3 bar at 90°C 44 psi at 194°F			

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Thermostatic mixing valve (ASSE-1017 listed*)

- Anti-scald function.
- Snap-on cover for protection and to prevent unauthorized adjustment or tampering.
- Cover label for recording settings including recorded outlet temperature and date installed.
- Available temperature ranges:
 - 70°F 110°F (20°C 45°C)*
 - 95°F 140°F (35°C 60°C)*
- Available connections:

- Threaded body (FPT).

- Union solder.
- Union solder w/ 1 check valve.
- Union CPVC.

- Compression (¾" only).

- 85°F - 120°F (29°C - 49°C)*

- 85°F – 160°F (30°C - 70°C)*(¾" only)

- Union solder c/w 2 check valves.

- Maximum working pressure:150 psi (10 bar)**.
- Maximum system differential pressure between hot and cold: 44 psi (3 bar).
- Maximum system differential pressure: 72 psi (5 bar).
- Maximum hot water inlet temperature: 194°F (90°C).
- Minimum required flow***: 0.5 US gpm.

The thermostatic mixing valve will provide a mixed water temperature according to the table below. The outlet temperatures stated are approximate, based on given hot water supply temperature and a cold water supply of 50°F (10°C). For other cold water temperatures correct the outlet temperature by 1°F for every 10°F (or 1°C for every 10°C) deviation from 50°F (10°C), up or down.

Hot Water			70°F –	- 110ºF			85°F – 120°F				95°F – 140°F							
Temperature	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
120°F	67	74	81	87	94	109	80	90	97	102	107	115	95	106	115	124	131	136
140°F	68	75	82	90	97	113	81	91	99	104	109	117	97	108	117	126	133	140
160°F	69	76	84	92	100	118	82	93	100	106	112	118	99	109	118	127	135	145
180°F	70	77	86	95	102	122	82	95	102	108	114	120	100	111	120	129	136	149



- * Only ranges 85-120°F and 95-140°F are listed to ASSE-1017 standard
- **Max. working pressure for CPVC: 80 psi (5.5 bar)
- ***For Correct temperature control

