

# HEATING SYSTEMS CATALOG

JANUARY 2021

SYSTEMS

DESIGN

SUPPORT

HYDRONICS

HYDRONIC SYSTEMS | RADIANT HEATING | HEATING SPECIALTIES



**LEGEND®**

Available at: 888-470-2757

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# LEGEND UNIVERSITY

Legend offers comprehensive interactive training for radiant hydronic systems. The two-day session includes a mix of in-class training along with hands-on installation within our Auburn Hills facility.

Topics covered include radiant system design, an overview of manifolds, mechanical room setups, radiant flooring systems, as well as hands-on installation exercises, a PEX tube presentation, and wrapping up with a workshop on how to use LoopCAD to estimate and design projects.



Scan the QR Code to sign up for our course waitlist.  
Classes fill up fast, so don't hesitate!

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# WHAT MAKES US LEGEND.®

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## **Guaranteed Performance**

Every order is processed within 24 hours, or you get 5% off the order. We promise 100% line-item fill rate, or 5% off the backorder; guaranteed 100% line-item accuracy, or 5% off the error; no minimum order sizes; no case pack quantity requirements; and unused materials can be returned without any restockings fees. Not to mention that all our products are backed with the Legendary 5/25 Product Warranty.

## **Legendary Customer Service**

You'll always talk to a human – Legend doesn't utilize automated assistance. We have fully-trained customer service professionals to support you and your business, striving to achieve 100% problem resolution in one call.

## **Expert Engineering**

A fully-staffed technical department and laboratory for product development, quality assurance, and product testing to assure you and your customers have the best quality products.

## **On-Demand Technical Support**

Engineers, Master Plumbers, and Technical Advisers with decades of PVF and hydronics experience are available to provide on-demand to support your business.

## **Comprehensive Training**

Our expert staff also serve as course instructors for distributor and contractor training classes that are scheduled throughout the year.

## **Legendary Guarantee**

Our legendary 5/25 product warranty replaces any valve proven to be defective within five years of installation. We also reimburse the installing contractor \$25.00 to offset labor costs.

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# VERSATILE APPLICATIONS

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Legend designs and provides products for projects ranging from single-family homes to large commercial applications. This including indoor radiant heating and cooling for floor and ceilings, as well as snowmelt and turf warming for outdoor applications.

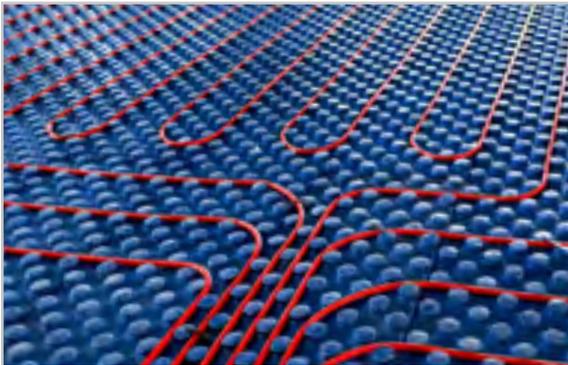
## Snow & Ice Melt



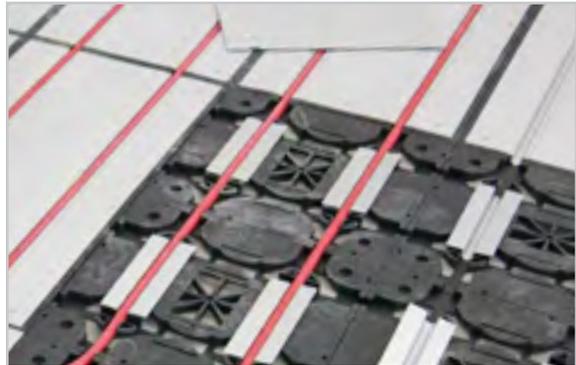
## Turf Warming



## Under Slab (Wet) Floor Systems



## Above Substrate (Dry) Floor Systems



## Hydronic Ceiling Panels



## Duo Heat Transfer Plates



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# YOUR PARTNER FOR SERVICE & SUPPORT

## Expert Engineering

Producing innovative products and building streamlined radiant systems means maximizing service to our customers. Legend's team of mechanical engineers and experienced designers strive to exceed expectations. We craft solutions that work for you.



## Design Expertise

Our team of expert technical advisors is ready to assist you with any project. Backed by over 40 years of combined experience in engineering and hydronic system design, we have the knowledge to provide comprehensive solutions for virtually any project imaginable.

## Technical Support

Legend is committed to your success. In addition to system design, we also provide radiant experts and master plumbers who can assist with design validation, product training, system support, and installation information. For on-call assistance, give us a call at 866.752.2055.



## Training & Education

Not sure how to get started? Legend University is a two-day workshop for reps and contractors that covers all things radiant hydronics. Our hands-on classes will teach you about more than just parts. It includes real-life interactive demos about how to install and use radiant systems, how to estimate and quote jobs, as well as how to design a system using LoopCAD® software.

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# ORDER TERMS & CONDITIONS

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## Terms of Payment – 2% 30 Days, Net 45

A cash discount will be calculated on the total amount of the invoice before additions for transportation. A 1.5% per month service charge will be added to past due balances.

## Order Acceptance

All orders are subject to acceptance by Legend Valve & Fitting, Inc. Possession of our catalog or price list by any person is not necessarily an offer to sell to. All prices are subject to change without notice.

## Legendary Guarantee

5 year / \$25 warranty. For complete details of this legendary warranty please call Legend Customer Service at 1-800-752-2082, or visit us at: [www.legendvalve.com](http://www.legendvalve.com).

## Minimum Orders

Legend has no minimum order requirements.

# ADDITIONAL SERVICES

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## Signature Series

Our Signature Series Ball Valves allow you to custom-brand the handles of the valves your company uses every day. This program is only available for ball valves with vinyl dipped handles.

## Oxygen Cleaning

For most valves and fittings, oxygen cleaning is available. All parts are shipped cleaned, tagged, and bagged. Lead time is five business days. For more information, call Legend Customer Service.

## Online Literature

Visit our website, [www.legendvalve.com](http://www.legendvalve.com) for list-price sheets in both PDF and Excel formats, submittal sheets, instruction manuals, tech bulletins, new product features, and more!



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# SHIPPING & FREIGHT INFORMATION

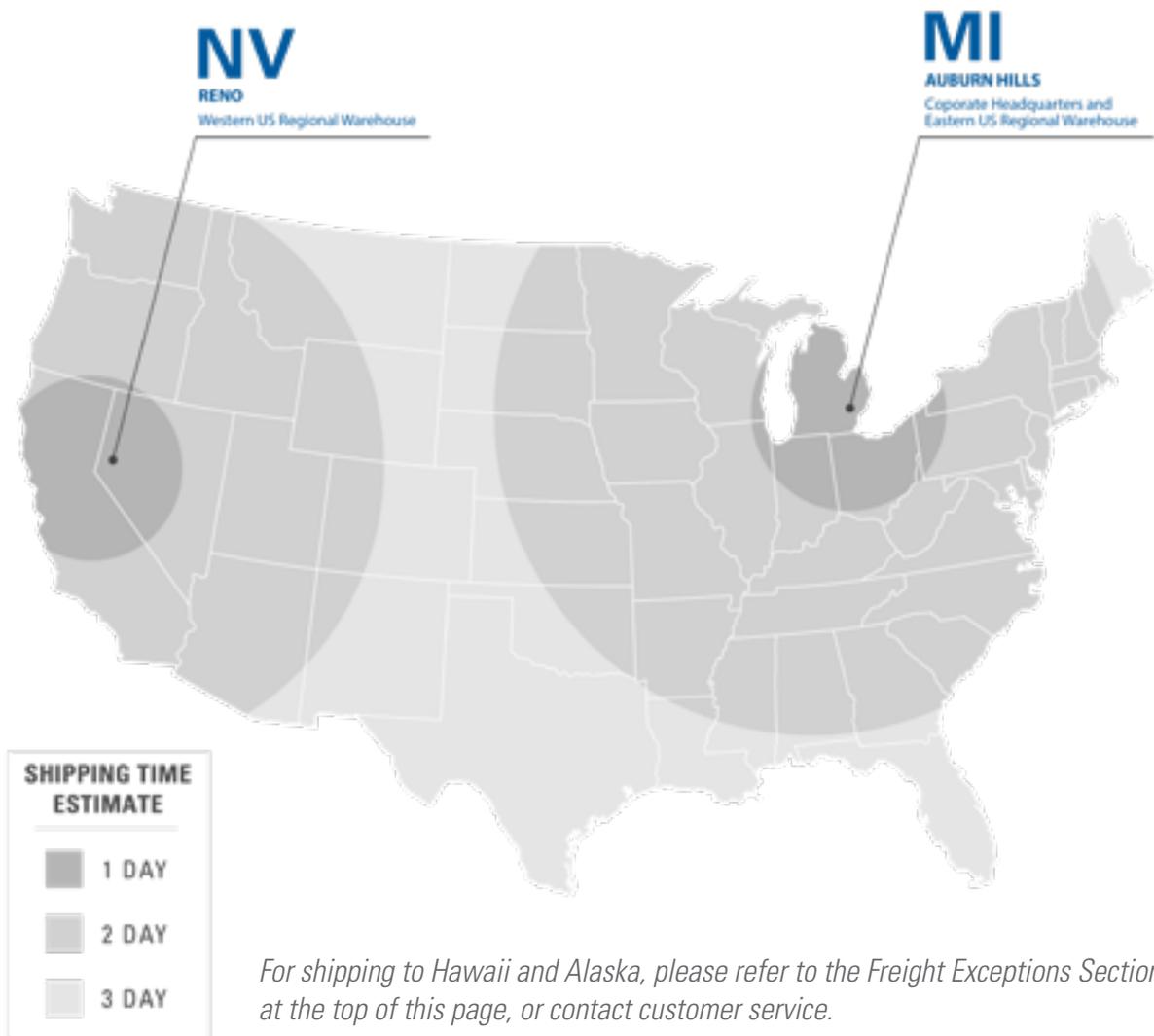
## Freight Policy

Freight charges will be prepaid on order of \$1500 net, or more (see exceptions below) to one destination within the continental United States. Otherwise, freight terms are F.O.B. Auburn Hills, MI or Reno, NV. For shipments to Alaska and Hawaii, please call Legend Customer Service at (800) 752-2082.

## Freight Exceptions

Freight charges will be prepaid on orders to one destination in the Continental United States as follows: orders of \$2,500.00 net or more for Cast & Ductile Iron valves; orders of \$2,500.00 net or more for QuickTherm® and VersaTherm® radiant panels; and orders of \$3,500.00 net or more for HyperPure® PE-RT Tubing 10' and 20' sticks. All Legend products may be combined to reach either the \$2,500.00 or \$3,500.00 net. Otherwise, freight terms are F.O.B. from Auburn Hills, MI or Reno, NV.

## LEGEND DELIVERS TO 99.6% OF THE UNITED STATES POPULATION IN 3 DAYS OR LESS



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# INDUSTRY ORGANIZATIONS & CERTIFICATIONS



**ASSE International** is an ANSI- accredited standards developer and product certification body composed of members representing all disciplines of the plumbing and mechanical industries.



**Underwriters Laboratory** promotes safe, secure and sustainable living and working environments for people by the application of science, hazard-based safety engineering and data acumen.



**International Code Council Evaluation Services** ICC-ES is a nonprofit company that does technical evaluations of building products, components, methods, and materials. The evaluation process includes the issuance of technical reports that directly address code compliance, and are extremely useful to both regulatory agencies and product manufacturers.



**CSA Group** is accredited by the Standards Council of Canada, a crown corporation which promotes efficient and effective standardization in Canada. CSA carries out standards development and certification functions, and is based on internationally recognized criteria and procedures.



**IAPMO Uniform Plumbing Code** is a model code developed by the International Association of Plumbing and Mechanical Officials (IAPMO) to govern the installation and inspection of plumbing systems as a means of promoting the public's health, safety and welfare. This mark signifies items that have been listed by IAPMO and are in compliance with the Uniform Plumbing Code.



**IAPMO Canadian Uniform Plumbing Code** is a model code developed by IAPMO to govern the installation and inspection of plumbing systems as a means of promoting the public's health, safety and welfare. This mark signifies items that have been listed by IAPMO and are in compliance with the Uniform Plumbing Code and the National Plumbing Code of Canada.



**NSF International** is an accredited, independent third-party certification body that tests and certifies products to verify they meet these public health and safety standards.



**Intertek** delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for its customers' operations and supply chains. To deliver that credibility, Intertek maintains extensive global accreditations and recognitions for its testing and certification services.



**FM Approvals** is an international leader in third-party testing and certification services. They test property loss prevention products and services for use in commercial and industrial facilities—to verify they meet rigorous loss prevention standards of quality, technical integrity and performance.



**Water Quality Association** is a not-for-profit association for the residential commercial, and industrial water treatment industry. It represents more than 2,500 member companies around the globe that are comprised of equipment manufacturers, suppliers, dealers and distributors of water quality improvement products and services.



**ASTM International** is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.



**Code 2 Recyclable** indicates that a product is made from high-density polyethylene, a durable thermoplastic polymer resin. Products with this symbol are compliant with Recycling Code 2 standards.



**Legend Valve & Fitting, Inc. No Lead Symbol** indicates products that have been made from alloys or materials that do not contain lead.



**Not For Potable Use** this symbol is used to indicate that the item has not been tested to standards required for use in potable systems.

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# ORDER THE PARTS YOU USE EVERY DAY, ONLINE!

## The World of Legend, at Your Fingertips.

Our powerful e-commerce tools empower your business by putting the entire Legend product lineup right in your pocket. Using either our mobile app or online web portal, you can access and order any Legend products in minutes. The edge doesn't stop there, though, with our mighty tools, you can also:

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- View invoices
- Track orders
- Inquire on past orders
- Check prices & availability
- Upload orders from spreadsheets
- Create custom product lists for ease of ordering and reordering
- Perform product comparisons and access product details

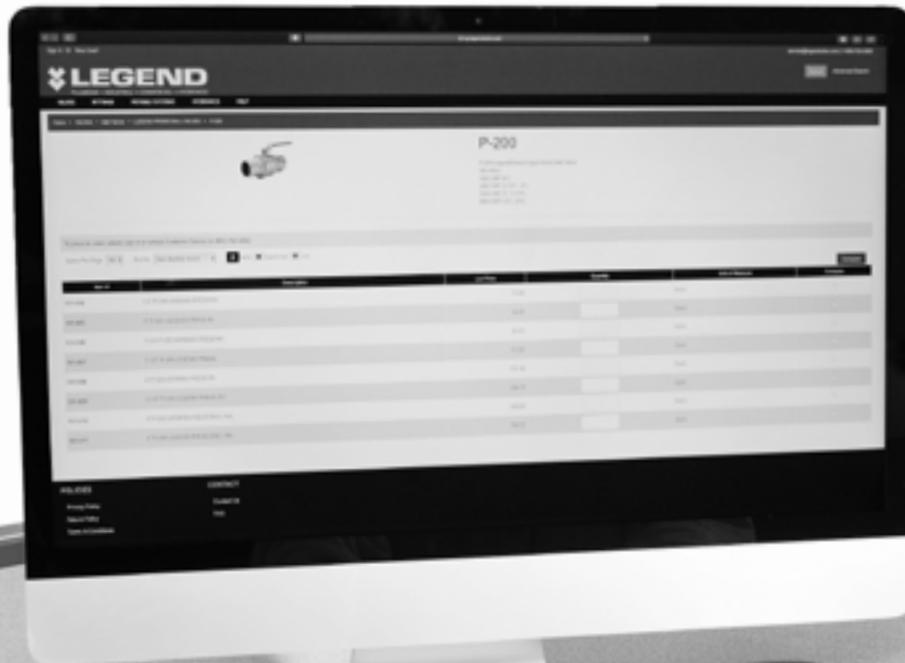
## Ready to Start Growing Your Competitive Edge?

Visit [my.legendvalve.com](http://my.legendvalve.com), or scan the QR codes below to get started on your platform of choice. If you encounter any issues, please call (800) 752-2082 and ask for the IT Department.

### REGISTER ONLINE



### DOWNLOAD APP



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# RADIANT HEATING TUBE

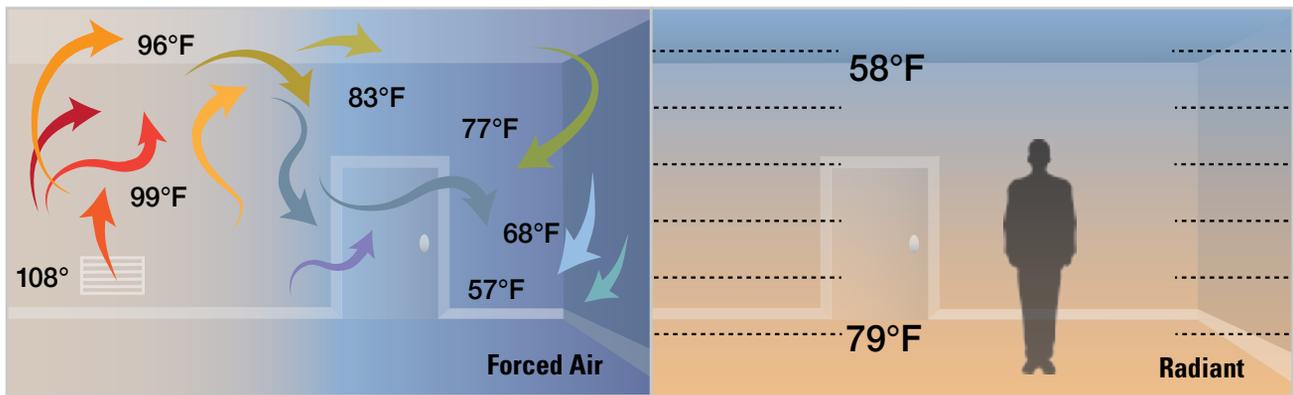
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# Comparing Forced Air and Radiant Systems



When it comes to selecting a system to heat and cool your home, it's crucial to weigh the pros and cons of each to choose the best option. For many, the two most significant factors to compare are comfort and efficiency.

In forced air systems, a furnace or AC unit blows air through a series of ducts and into rooms, typically from a single supply vent. While this promotes air circulation, it will

## LEGEND DESIGNS AND PROVIDES PRODUCTS FOR PROJECTS RANGING FROM SINGLE-FAMILY HOMES TO LARGE COMMERCIAL APPLICATIONS.

eventually lead to uneven temperature distribution as the air moves through the space. The inconsistent mix will ultimately cause uncomfortable hot and cold spots, which are even more apparent in large commercial applications. Additionally, the duct networks provide ample opportunity for heat to be lost before it even gets to where it's supposed to go. This leads to

users placing a greater demand on the system to achieve the desired temperature, thus leading to further system inefficiency.

Radiant hydronic systems work by transporting hot or cold water from a mechanical room or panel through a network of tubes arranged beneath the floor or in the ceiling. Heat is transferred from the tubing into the floor, radiating out in all directions. Unlike forced air, radiant systems optimize comfort, providing more even air temperatures and warmer surfaces no matter the size of the application. When paired with a high-efficiency boiler, radiant hydronic systems create significant savings on heating and cooling costs.

Radiant has many clear advantages when compared to forced air systems. At Legend, we design and deliver high-quality products for projects ranging from single-family homes to large commercial applications. Our offerings include systems for indoor radiant heating and cooling for floors and ceilings. We also provide solutions for outdoor applications like and snowmelt and turf warming.

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## LEGEND Flex®

LegendFlex is manufactured from a proprietary polymer formulation making it extremely strong and flexible. It has been treated with an oxygen barrier to help prevent corrosion in radiant heating systems. Our tube is compatible with all PEX fitting types, including ASTM F1807 and F2159 crimp and cinch fittings, as well as ASTM F1960 cold expansion fittings.

Available at: 888-470-2757

PEXHEAT.COM

# LEGENDFlex®



Highly flexible PEX heating tube with an oxygen barrier.

LegendFlex® is manufactured using a proprietary polymer, which dramatically increases flexibility without sacrificing strength. It is extremely flexible and very difficult to kink. It is backed with a 30-year warranty. Our PEX tubing is also compatible with multiple fitting system types. Its strength, durability, and thermal memory ensure a proper seal with crimp or expansion style connections.

LegendFlex Tubing can be used in residential, commercial, and industrial applications, including radiant heating and cooling, snow & ice melt, geothermal, and turf conditioning.

	Part No.	Size	Tube Weight	Volume	Cs/Ct
<b>LegendFlex® PEX Heating Tube</b>  PEX with EVOH Third party tested and certified; CSA B137.5 ISO 15875 ASTM F876 / F877 ASTM F1807 / F1960 / F 2080 / F2098 DIN 4726 DIN 16892	<b>Tube Coil – Standard Diameter</b>				
	850-125	3/8" x 500'	20 lbs	0.0051 gal/ft	1/1
	850-129	3/8" x 1000'	40 lbs	0.0051 gal/ft	1/1
	850-133	1/2" x 300'	15 lbs	0.0096 gal/ft	1/1
	850-135	1/2" x 500'	25 lbs	0.0096 gal/ft	1/1
	850-139	1/2" x 1000'	50 lbs	0.0096 gal/ft	1/1
	850-140	1/2" x 1200'	60 lbs	0.0096 gal/ft	1/1
	850-144	5/8" x 400'	28 lbs	0.0138 gal/ft	1/1
	850-149	5/8" x 1000'	70 lbs	0.0138 gal/ft	1/1
	850-151	3/4" x 100'	10 lbs	0.0138 gal/ft	1/1
	850-153	3/4" x 300'	30 lbs	0.0138 gal/ft	1/1
	850-155	3/4" x 500'	50 lbs	0.0138 gal/ft	1/1
	850-159	3/4" x 1000'	100 lbs	0.0138 gal/ft	1/1
	850-161	1" x 100'	16 lbs	0.0312 gal/ft	1/1
	850-165	1" x 500'	80 lbs	0.0312 gal/ft	1/1
	<b>Tube Sticks – Standard Diameter</b>				
	850-203	1/2" x 20'	25 lbs	0.0096 gal/ft	Bag of 25
	850-204	3/4" x 20'	50 lbs	0.0138 gal/ft	Bag of 25
850-205	1" x 20'	85 lbs	0.0312 gal/ft	Bag of 25	
<b>Tube Coils – Large Diameter*</b>					
850-172	1-1/4" x 150'	38 lbs	0.0470 gal/ft	1/1	
850-182	1-1/2" x 150'	53 lbs	0.0650 gal/ft	1/1	
850-193	2" x 200'	121 lbs	0.1110 gal/ft	1/1	
<b>Tube Sticks – Large Diameter*</b>					
850-206	1-1/4" x 20'	26 lbs	0.0470 gal/ft	Bag of 5	
850-207	1-1/2" x 20'	36 lbs	0.0650 gal/ft	Bag of 5	
850-208	2" x 20'	61 lbs	0.1110 gal/ft	Bag of 5	

\*These products are estimated to become available during Q1 of 2021. Orders of this product may be placed prior to the stated release time; however, they will be automatically marked as backordered until the items are available. As these items are flagged as upcoming, they are not eligible for a backorder discount.

Available at: **888-470-2757**

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Part No.	Size	Configuration	Cs/Ct
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## SnappRAIL™ Mounting System

The SnappRAIL Tube Mounting System allows you to quickly and easily mount and organize tube installations. Mount the rail, attach the clips to an adapter and install them onto the rail. The clips secure PE-RT, PEX, and Copper tube without damage to the tube and can just as easily be removed. The Tube Clip Holders can be installed separately using a screw or nail (not included).



### SnappRAIL™ Tube Clip Holder

800-352	3/8"	Tube Clip Holder	1
800-353	1/2"	Tube Clip Holder	1
800-351	5/8"	Tube Clip Holder	1
800-354	3/4"	Tube Clip Holder	1
800-355	1"	Tube Clip Holder	1
800-356	1-1/4"	Tube Clip Holder	1

### SnappRAIL™ Clip Holder Rail

800-500	(39.37")	Clip Holder Rail	1
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### SnappRAIL™ Clip Holder Rail Adapter

800-501		Clip Holder Rail Adapter	1
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## Tube Talon Fastener

A plastic talon hook with an included nail secures tubing to wooden surfaces. Ideal for neatly routing and attaching flexible plastic tubing to floor joists and wall studs. For CTS 1/2", 3/4", and 1". Sold in bags of 100.



800-373	1/2"	Tube Talon	100
800-374	3/4"	Tube Talon	100
800-375	1"	Tube Talon	100

## Tube Isolation Clamp

Plastic tube fasteners for isolating flexible plastic tube as it passes through building floor joists and wall studs. They protect tubing from sharp or hard surfaces, ideal for plumbing and hydronic piping. Includes two pre-drilled screw holes, fits CTS 1/2", 3/4", and 1". Sold in bags of 100.



800-513	1/2"	Tube Isolation Clamp	100
800-514	3/4"	Tube Isolation Clamp	100
800-515	1"	Tube Isolation Clamp	100

## Standard Tube Clamp

Plastic tube fasteners for securing flexible plastic tube to solid surfaces, such as floor joists and wall studs. Protects and keeps tubing straight when routing in plumbing and hydronic piping. Includes two pre-drilled screw holes, fits CTS 1/2", 3/4", and 1". Sold in bags of 100.



800-523	1/2"	Standard Tube Clamp	100
800-524	3/4"	Standard Tube Clamp	100
800-525	1"	Standard Tube Clamp	100

Available at: 888-470-2757

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## Snow & Ice Melt

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Stop the rigors of winter snow and ice without having to pick up a shovel or start up your snowblower. Radiant snowmelt systems heat below the concrete, asphalt, and paving stone surfaces to melt away snow and ice buildup. Protect your family, friends, and customers by making the change to a radiant hydronic snowmelt system from Legend.

Available at: [888-470-2757](tel:888-470-2757)

[PEXHEAT.COM](http://PEXHEAT.COM)

P: 800.752.2082 | [legendvalve.com](http://legendvalve.com)  **LEGEND** | 7

## Turf Warming

Keep sports fields in peak condition with turf warming. Using radiant hydronic heating under your field encourages healthy grass root growth and extends both the play and practice seasons. It works by circulating water through a network of tubes to warm the soil, delivering optimal turf temperatures all season long.

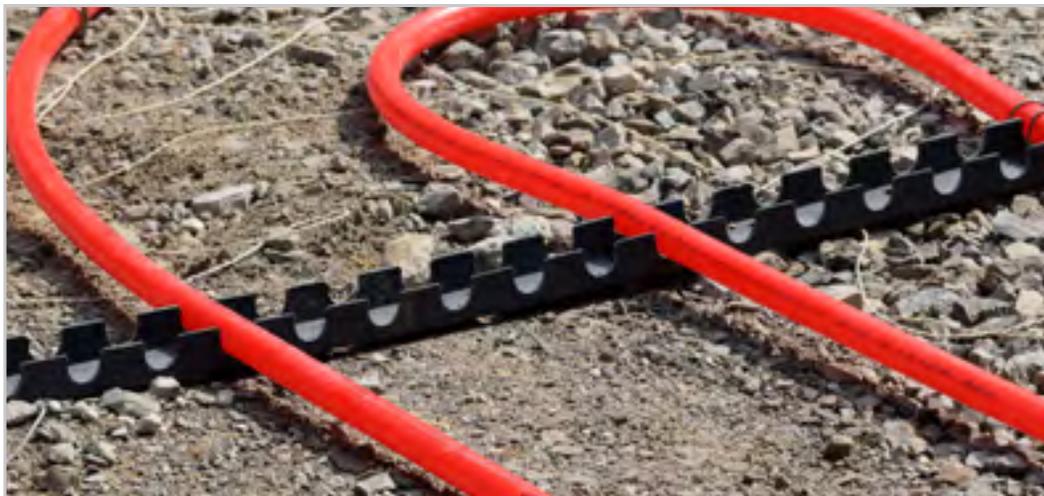
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	Part No.	Size	Configuration	Cs/Ct
<h3>Tube Track / Tube Track Duo</h3> 	<p>These tracks are used to organize and hold tubing to rigid foam, wood, or concrete. Mounting holes are provided for appropriate fasteners. Clips at the end of each piece allow 3-1/4' (39") sections to snap together. Use tube holding pins in rigid foam board installations.</p>			
	<p><b>Tube Track</b> – Compatible with two tube sizes; holding slots spaced every 2 inches.</p>			
	800-323	39" Length	Fits 3/8" and 1/2" tube	1
	<p><b>Tube Track Duo</b> – Compatible with four tube sizes; like-size holding slots alternate every 4 inches.</p>			
	800-324	39" Length	Fits 3/8" or 1/2" and 5/8" or 3/4" tube	1

<h3>Tube Mounting Rail, Plastic</h3> 	<p>These mounting rails are used to organize and hold tubing to rigid foam, wood, concrete, or ground. Mounting holes are provided for appropriate fasteners. 6-1/2' (78") rails have pre-scored "break" lines should shorter lengths be needed. Holding slots are spaced every 2".</p>			
	800-333	78" Length	Fits 1/2" tube	1
	800-334	78" Length	Fits 3/4" tube	1

<h3>Tube Bend Support</h3> 	<p>Durable metal bend support with rail tab that can be secured to studs and joists when routing flexible plastic tubing in plumbing installations for 1/2", 3/4", and 1" sizes.</p>			
	509-013	1/2"	Metal Bend Support	1
	509-014	3/4"	Metal Bend Support	1
	509-023	1/2"	Metal Flange Bend Support	1



Plastic Tube Mounting Rail for 1/2" Tube (800-333).

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# APPLICATION SYSTEMS

1

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# VersaTherm®

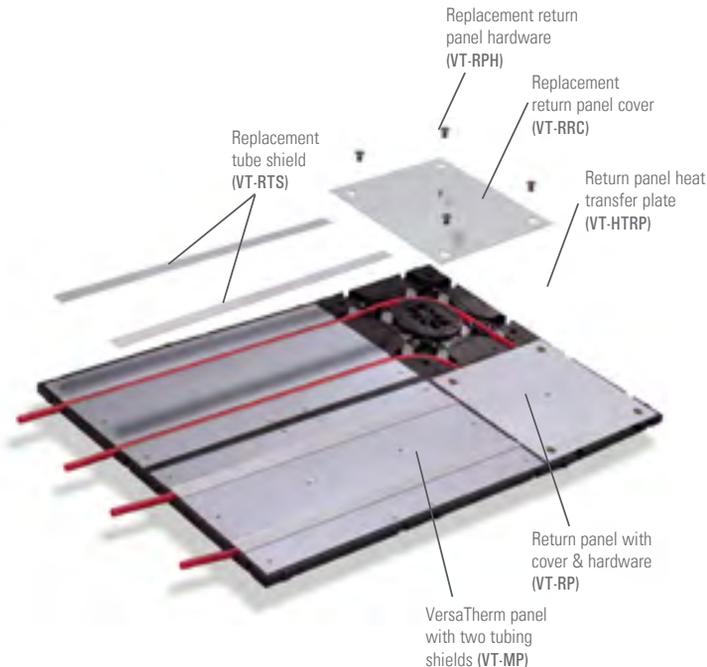
snap-fit floor system

VersaTherm® is a floor system unlike any other for dry radiant systems. The panels snap together in seconds, saving time and labor during installation. VersaTherm makes basement and second-floor retrofits a breeze, as the panels are pre-insulated and naturally water-resistant.

The panels include metal tube shields that protect the installed 3/4" tube from damage. VersaTherm's metal shielding also enables full-surface heat transfer, reducing the chances of temperature stratification, which is a common problem with other dry floor systems.

**Key Features at a Glance:**

- Labor-saving installation method – snaps together
- Pre-insulated panels – great for retrofitting floors and basements
- Water-resistant design
- Full-surface heat transfer
- Compatible with 1/2" tube for longer circuit lengths
- Metal shields protect tube from damage
- Return panels are easily cut to fit



Material worksheet on page 78.

	Part No.	Size	Configuration	Model No.	Cs/Ct
<p><b>Main Panel</b></p> <p>Includes 2 tube shields</p> 	VT-MP	31-1/2" x 15-3/4" x 3/4"	Main Panel	VersaTherm®	10/1
<p><b>Return Panel</b></p> <p>Includes one (1) return panel cover (VT-RRC), two (2) return panel hardware kits (VT-RPH), and one (1) return panel heat transfer plate (VT-HTRP)</p> 	VT-RP	15-3/4" x 15-3/4" x 3/4"	Return Panel	VersaTherm®	20/1
<p><b>Replacement Tube Shield</b></p> <p>Used with main panel to protect tubing from damage.</p> 	VT-RTS	31-1/2" x 1-3/8"	Replacement Tube Shield		3/1

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	Part No.	Size	Configuration	Cs/Ct
<b>Replacement Tube Return Cover</b> 			Used with main panel to protect tubing from damage	
	VT-RRC	15-3/4" x 15-3/4"	Replacement Return Cover	-/1
<b>Replacement Return Panel Hardware</b> 			Used to fasten return panel cover. Includes 4 plastic snap rivets and 1 screw	
	VT-RPH		Return Hardware	-/1
<b>Return Panel Heat Transfer Plate, Pair</b> 			Optional plate increases heat output on return panel	
	VT-HTRP	7-3/4" x 2-7/8"	Transfer Plate	-/2
<b>Emergency Repair Yellow Silicon Tape</b> 	830-820	1" x 12'	Silicon Repair Tape	108
<b>Emergency Repair Adapter</b> 			For repairing 5/16" to 3/4" tube.	
	830-819	5/16" - 3/4"	Repair Adapter	300

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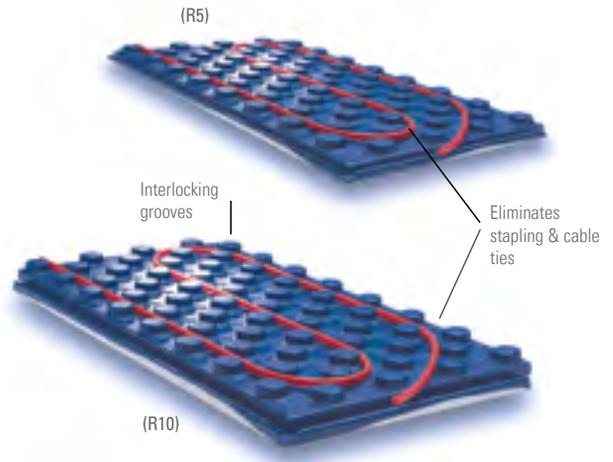
# QuickTherm® poured floor system

QuickTherm® panels are used in a radiant floor or snow and ice melt system where the radiant tubing goes under a concrete slab. The panels hold the radiant tubing in place during installation and to provide thermal insulation under the concrete.

Lay down the QuickTherm panel, walk in the tubing, connect the tube to the manifold, and your job is complete. QuickTherm panels reduce labor costs by making it easy to quickly and correctly install radiant tubing. There is no need to tie, clip, or staple tubing to the substrate.

### Key Features at a Glance:

- One person can quickly put down the panels and install the tubing while walking upright. No bending or crawling is needed.
- Can reduce installation time by up to 75%.
- 2' x 4' panels are more accommodating to uneven gravel base and sub-base surfaces
- Better protects the tube than wire mesh wraps
- Eliminates stapling and cable ties
- Compatible with 1/2", 5/8", and 3/4" tube
- Available in R-5 or R-10

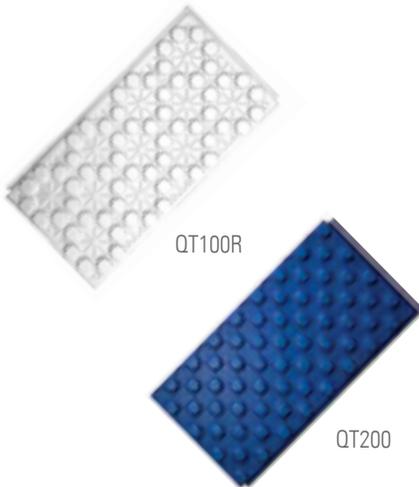


Material worksheet on page 78.

Part No.	Size	Configuration	Cs/Ct
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## QuickTherm® Panels

QuickTherm® panels can be drop-shipped directly to the job site. Call for LTL or truckload discount. Allow up to 3 weeks for delivery.



800-QT100R	1" Thick (R-5), 2' x 4', 6" & 12" Tube Spacing (1/2" & 5/8" Tubing only)	Residential	Special Order
800-QT100	1" Thick (R-5), 2' x 4', 6", 9", 12" Tube Spacing	QuickTherm®	18/1
800-QT200	2" Thick (R-10), 2' x 4' 6", 9", 12" Tube Spacing	QuickTherm®	10/14

## Duo Heat Transfer Plate

Extruded Aluminum Duo Heat Transfer Plates – For use in radiant floor heating via joist space applications (under sub-floor) with both 3/8" or 1/2" PEX tubing. Plates are 3-1/2" x 4' long and pre-drilled for wood screws to attach underneath the sub-floor. PEX tubing is held securely in the tube channel on the underside of the plate.



800-363	3-1/2" x 4' Long	Fits 3/8" & 1/2" Tubing	20/1
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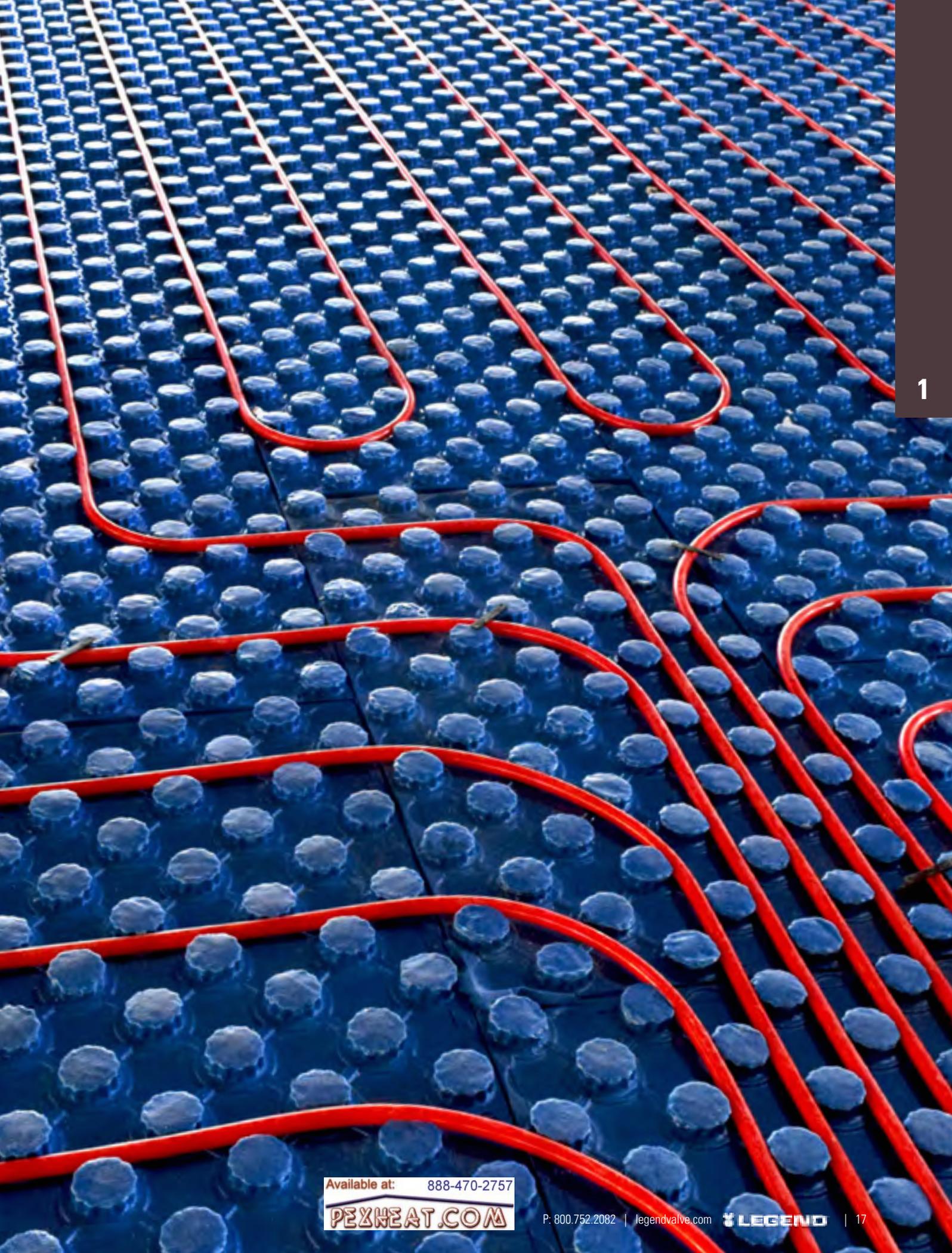
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	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>ST-100 Tube Stapler Tool</b> 	800-340		Tube Installation Stapler Tool	ST-100	-/1
	800-340-34	1-3/8"	Rigid Foam Staple		10/Carton
	800-340-40	1-1/2"	Rigid Foam Staple		12/Carton
	800-340-55	2-1/8"	Rigid Foam Staple		10/Carton
<b>Heavy Duty Tube Holder Pins</b> 	800-345	1-1/2"	Holding Pins for Panels 1" or Thicker		100/Bag
	800-348	2"	Holding Pins for Panels 1-1/2" or Thicker		100/Bag
<b>Large Diameter Tube Holding Pins</b> 	<p>These pins are designed to be manually inserted into QuickTherm® knobs to hold down large diameter tube – typically 3/4" – in areas where additional support may be required. Pins work with all sizes of tube and all QuickTherm models.</p>				
	800-349	One Size	Holding Pins for QT-100 and QT-200		100/Bag
<b>Tube Rattle Bend Support</b> 	<p>Rattle bend supports hold tube in a tight radius 90° curve without the need for fitting elbows or the fear of kinking. Slide the support easily around 1/2" tubing while straight, then make a bend by clicking tabs together.</p>				
	800-503	1/2"	Tube Support		50/1
<b>Tubing Bend Supports</b> 	<p>These supports are used to hold flexible tubing in a 90° bend without a need for fitting elbows, creating a neat and professional finish.</p>				
	800-305	Up to 1/2"	Bend Support		50/1
	800-304	Up to 3/4"	Bend Support		50/1
	509-003	Up to 1/2"	Bend Support with Nail Tab		50/1
	509-004	Up to 3/4"	Bend Support with Nail Tab		50/1
	509-005	Up to 1"	Bend Support with Nail Tab		50/1
<b>Tube Protection Sleeve</b> 	<p>These sleeves are used to protect tubing in a concrete slab at expansion joints. Pre-slit 12" lengths allow for rapid application after tubing has been installed and before the concrete pour.</p>				
	800-313	1/2"	12" Long Tube Sleeve		50/1
	800-314	3/4"	12" Long Tube Sleeve		-/1

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# AMBIANCE™



## Radiant heating and cooling ceiling panels.

Ambiance is a ceiling based radiant panel system that can be used for heating or cooling applications. Ambiance consists of 2x2 or 2x4 steel panels that fit in standard suspended ceiling grid systems. The panels incorporate aluminum heat transfer plates that conduct heat to or from the panel surface. Copper or PEX tube is connected to the heat transfer plates via flexible braided connectors. The panels are then connected in series to a manifold supplying heated or chilled water. An Ambiance system can easily accommodate as many temperature zones and controls as needed.

Ambiance panels can be used in commercial environments for supplying zoned heating and cooling efficiently. In multi-floor buildings, Ambiance can reduce plenum space and result in 5-10% more usable building space. Ambiance panels can be used to provide supplemental heat in small spaces where design constraints do not allow for sufficient heat. Entryways, foyers, bathrooms, and windowed areas are common applications where supplemental heat is needed to provide comfort.

## Key Features at a Glance:

- Compatible with standard 2x2 and 2x4 ceiling grid systems
- Works for heating and cooling applications
- Great for new construction or existing ceiling retrofits
- Ideal in large, multi-level buildings or small residential spaces
- Excellent supplemental heat for basements and entryways

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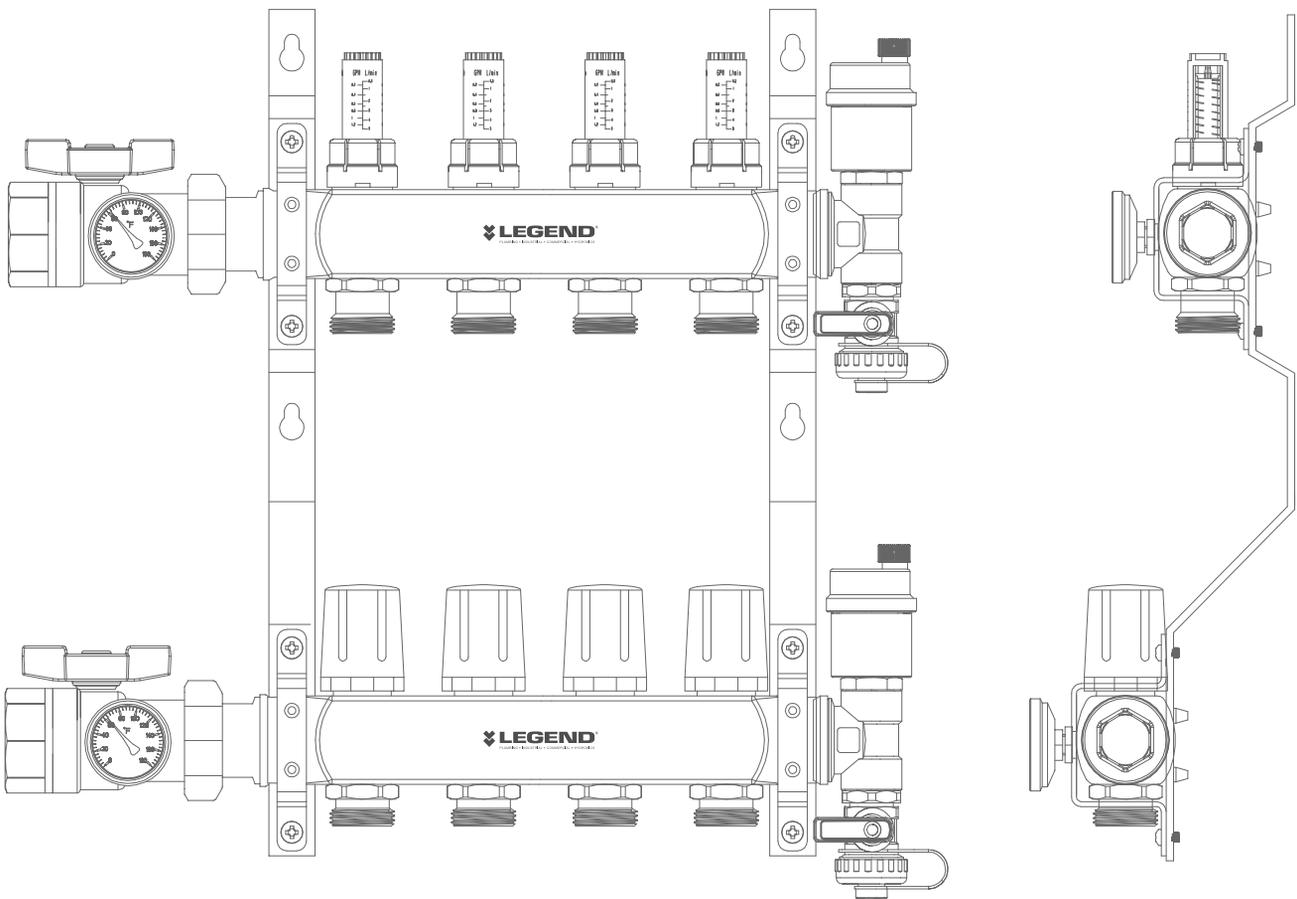
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# MANIFOLDS

Manifolds are the core of every radiant system, and as the connection hub between the floor, ceiling, wall, and mechanical room, it's crucial to make sure you have the right manifold for the job.

With Legend's comprehensive offering of manifolds, we can provide the best solution for any application. From precision control to ergonomic design, the Legend manifold array maximizes efficiency for both the installer and system operation.

We have the broadest manifold selection in the industry and the knowledge to help you find the best choice for your project.



Line drawing of an M-8330P Stainless Steel Pro Manifold with 4 ports (8330P-10-4).

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# M-8330™ Stainless Steel Manifold Series



Hydroforming process used to construct headers assures superior seal of supply and return isolation valves.

Premium quality, right out of the box.

The M-8330 Stainless Steel Manifold Series is specifically designed with quality in mind. Every feature has been thoughtfully considered and rigorously tested. This manifold is designed for use in hydronic heating and cooling systems.

The premium quality stainless steel supply header has built-in flow meters to optimize design efficiencies. The return headers have easy to actuate circuit isolation valves, and all assembled parts have superior EPDM O-rings and seals. Each manifold is partially pre-assembled for immediate mounting at the job site.

**Key Features at a Glance:**

- Premium quality and design, perfect for the radiant professional
- Versatile and easily adaptable to a variety of mounting configurations
- Built-in visual flow gauges for quick circuit performance verification
- Easily adjustable flow meters with lockshields
- Manufactured from premium 304 stainless steel
- EPDM O-rings and seals
- Optional 4-wire actuators

2

Part No.	Size	Configuration	Qty.
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## M-8330P Stainless Steel Pro Manifold

M-8330P Stainless Steel Manifold Pro – Features an automatic air vent, fill & purge adapter, and supply & return isolation valves with thermometers. 1” Supply and return headers.



8330P-10-2	2 Port	1” Stainless Steel Pro Kit	1
8330P-10-3	3 Port	1” Stainless Steel Pro Kit	1
8330P-10-4	4 Port	1” Stainless Steel Pro Kit	1
8330P-10-5	5 Port	1” Stainless Steel Pro Kit	1
8330P-10-6	6 Port	1” Stainless Steel Pro Kit	1
8330P-10-7	7 Port	1” Stainless Steel Pro Kit	1
8330P-10-8	8 Port	1” Stainless Steel Pro Kit	1
8330P-10-9	9 Port	1” Stainless Steel Pro Kit	1
8330P-10-10	10 Port	1” Stainless Steel Pro Kit	1
8330P-10-11	11 Port	1” Stainless Steel Pro Kit	1
8330P-10-12	12 Port	1” Stainless Steel Pro Kit	1

Available at: 888-470-2757



Part No.	Size	Configuration	Qty.
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**M-8330AP**  
**Stainless Steel Angle Pro**  
**Manifold**



M-8330AP Stainless Steel Manifold Angle Pro – Features an automatic air vent, fill & purge adapter, and angle supply & return isolation valves with thermometers for tight installations. 1” Supply and return headers.

8330AP-10-2	2 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-3	3 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-4	4 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-5	5 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-6	6 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-7	7 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-8	8 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-9	9 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-10	10 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-11	11 Port	1” Stainless Steel Angle Pro Kit	1
8330AP-10-12	12 Port	1” Stainless Steel Angle Pro Kit	1

**M-8330**  
**Stainless Steel Basic Manifold**



M-8330 Basic Stainless Steel Manifold – Features supply & return isolation valves with thermometers. 1” Supply and return headers.

8330-10-2	2 Port	1” Stainless Steel Basic Kit	1
8330-10-3	3 Port	1” Stainless Steel Basic Kit	1
8330-10-4	4 Port	1” Stainless Steel Basic Kit	1
8330-10-5	5 Port	1” Stainless Steel Basic Kit	1
8330-10-6	6 Port	1” Stainless Steel Basic Kit	1
8330-10-7	7 Port	1” Stainless Steel Basic Kit	1
8330-10-8	8 Port	1” Stainless Steel Basic Kit	1
8330-10-9	9 Port	1” Stainless Steel Basic Kit	1
8330-10-10	10 Port	1” Stainless Steel Basic Kit	1
8330-10-11	11 Port	1” Stainless Steel Basic Kit	1
8330-10-12	12 Port	1” Stainless Steel Basic Kit	1

## DESIGN EXPERTISE

The Legend Technical Team offers over 40 years of combined experience in hydronic system design and application. Our in-house team can provides timely support for almost every type of project.

Available at: 888-470-2757

**PEXHEAT.COM**

# M-8300E™ Stainless Steel Economy Manifolds



**High Quality and Economical.**

The M-8300E Economy Stainless Steel Manifold has been designed for quick installation while saving the installer time and material costs when compared to field-built copper headers. The 1" supply and return header are constructed from heavy-walled 304 stainless steel.

The stainless steel economy manifold is simple and easy to use, shipped partially pre-assembled for immediate installation. The M-8300E series manifolds are packaged with mounting brackets, two (2) MNPT header adapters, and two (2) header plugs. Compatible manifold accessories can be installed to suit the specific job and design requirements.

Part No.	Size	Configuration	Qty.
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## M-8300E Stainless Steel Economy Manifold

### M-8300E Economy Stainless Steel Manifolds



8300E-10-2	2 Port	1" Stainless Steel Economy Kit	1
8300E-10-3	3 Port	1" Stainless Steel Economy Kit	1
8300E-10-4	4 Port	1" Stainless Steel Economy Kit	1
8300E-10-5	5 Port	1" Stainless Steel Economy Kit	1
8300E-10-6	6 Port	1" Stainless Steel Economy Kit	1
8300E-10-7	7 Port	1" Stainless Steel Economy Kit	1
8300E-10-8	8 Port	1" Stainless Steel Economy Kit	1
8300E-10-9	9 Port	1" Stainless Steel Economy Kit	1
8300E-10-10	10 Port	1" Stainless Steel Economy Kit	1
8300E-10-11	11 Port	1" Stainless Steel Economy Kit	1
8300E-10-12	12 Port	1" Stainless Steel Economy Kit	1

## M-8300EV Stainless Steel Economy Manifold with Circuit Isolation Valves

M-8300EV Economy Stainless Steel Manifold with Circuit Isolation Valves for supply headers. Circuit isolation valves are packaged separately for quick assembly on the job site.



8300EV-10-2	2 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-3	3 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-4	4 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-5	5 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-6	6 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-7	7 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-8	8 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-9	9 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-10	10 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-11	11 Port	1" Stainless Steel Economy Kit with Isolation Valves	1
8300EV-10-12	12 Port	1" Stainless Steel Economy Kit with Isolation Valves	1

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	Part No.	Size	Configuration	Qty.
<b>Isolation Valve With Thermometer</b>				
Isolation Valve with Thermometer – Compatible with all Legend stainless steel manifolds.				
	833-855	1"	Isolation Valve & Thermometer, Pair	10/1
	833-855B	1"	Isolation Valve & Thermometer - Blue Handle	10/1
	833-855R	1"	Isolation Valve & Thermometer - Red Handle	10/1
<b>Angle Isolation Valve With Thermometer</b>				
Angle Isolation Valve with Thermometer – Compatible with all Legend stainless steel manifolds.				
ISO 9002	833-825	1"	Isolation Valve & Thermometer, Pair	10/1
	833-825B	1"	Isolation Valve & Thermometer - Blue Handle	10/1
	833-825R	1"	Isolation Valve & Thermometer - Red Handle	10/1
	<b>Purge Adapter</b>			
Air Vent, Water Purge Adapter – Compatible with all stainless steel manifolds. Includes automatic air vent and fill & purge valve, converts M-8330 to M8330P.				
	833-805	1"	Chrome Plated Brass Air & Water Purge Adapter	10/1
	<b>Circuit Actuator</b>			
4-Wire Circuit Actuator – 24 Volt actuator with 36" leads. Compatible with all Legend stainless steel manifolds.				
	830-201		4-Wire Circuit Actuator with End Switch	100/1
	830-201S		Replacement Actuator Adapter	1/1
<b>Manifold Union</b>				
Manifold Union – Connects any two stainless steel manifolds to increase circuit capacity. Compatible with all Legend stainless steel manifolds.				
	833-815	1"	Stainless, Pair	50/1

Available at: 888-470-2757



Part No.	Size	Configuration	Qty.
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### Manifold Port Cap



**Manifold Port Cap** – Used to close and seal unused ports on any stainless steel manifolds. Includes EPDM O-ring. Compatible with Legend stainless steel manifolds.

833-141	1"	Manifold Port Cap	100/1
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### Tube Connector



3/4" Connector

**Tube Connector** – Used on all Legend stainless steel manifolds. Not for use with PEX-AL-PEX tube.

830-140	5/16"	Tube to Manifold Connector, Pair	160/40
830-142	3/8"	Tube to Manifold Connector, Pair	160/40
830-143	1/2"	Tube to Manifold Connector, Pair	160/40
830-144	5/8"	Tube to Manifold Connector, Pair	160/40
830-145	3/4"	Tube to Manifold Connector, Pair	80/20

### Composite Tube Connector



3/4" Connector

**Composite Tube Connector** – Used on all Legend stainless steel manifolds. For use with PEX and PEX-AL-PEX tube.

830-142C	3/8"	Composite Tubing to Manifold Connector, Pair	160/40
830-143C	1/2"	Composite Tubing to Manifold Connector, Pair	160/40
830-144C	5/8"	Composite Tubing to Manifold Connector, Pair	160/40
830-145C	3/4"	Composite Tubing to Manifold Connector, Pair	80/20

### Cold Expansion Tube Connector

ASTM F1960



**Cold Expansion (F1960) Tube Connector** – For stainless steel manifolds. The installer must verify with the tube manufacturer that the tubing is compatible with expansion type fitting systems. For all Legend stainless steel manifolds.

830-143P	1/2"	PEX (F1960) to Manifold Connector, Pair	160/40
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*Note: Does not include PEX cold expansion rings.*

### Mounting Bracket



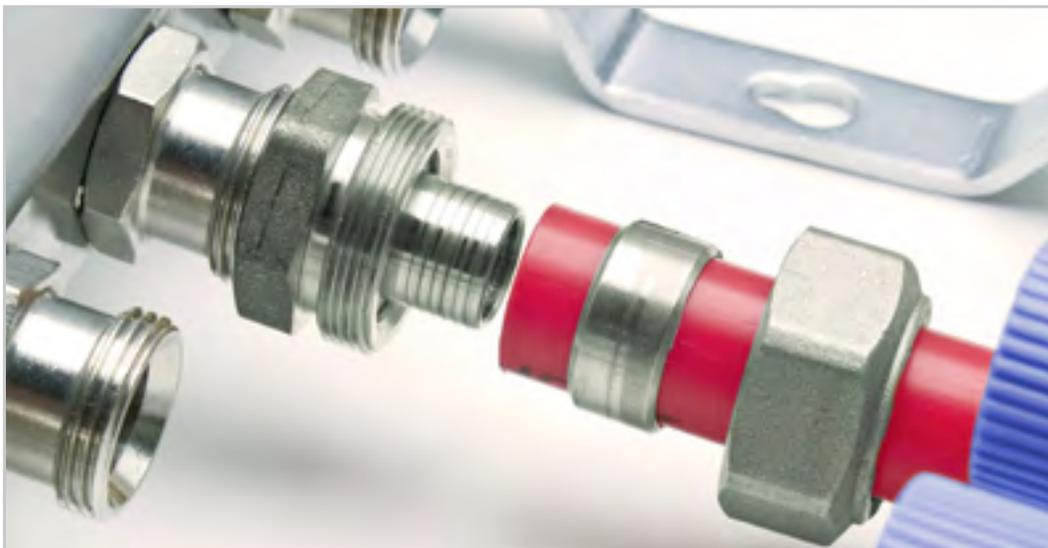
**Mounting Brackets** – For all Legend stainless steel manifolds, with insulation pads. Made from heavy gauge steel for sturdy mounting and durability.

833-861		Mounting Bracket and Collar, Pair	25/1
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	Part No.	Size	Configuration	Qty.
<b>End Plug With Gasket</b>	End Plug with Gasket – Used to close and seal ends on all Legend stainless steel manifolds.			
	833-845	1"	Manifold End Plug	50/50
<b>Flow Meter</b>	Replacement Flow Meter – For M-8330 stainless steel manifolds. Threads into top of supply header.			
	833-862		Flow Meter Assembly	50/5



## INSTALLING A TUBE CONNECTOR

1. Ensure that the tubing is cut squarely using a proper tube cutter.
2. Install the o-ring in the 3/4" end adapter. Attach the 3/4" adapter to the selected manifold port (the hex end of the bushing closest to the header) ensuring that the o-ring is seated properly into the manifold port. Thread the adaptor onto the port by hand until it stops, and then no more than 1/2 turn with a wrench.
3. Slide the hex nut (with the threads towards the manifold) onto the tubing.
4. Slide the split ring washer onto the tubing.
5. Insert the barbed end adapter into the tubing until flush with the end of the tubing.
6. Place the hex nut onto the end adapter.
7. Insert the barbed end adapter into the tubing until flush with the end of the tubing.
8. Once the hex nut is hand tight, use a 1-1/2" (38 mm) wrench and turn it no more than 1/2 turn. Do not over tighten, as this may destroy the integral o-ring.

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**PEXHEAT.COM**

# M-8200™ Precision Manifolds



Fully loaded with features that high performance systems require.

Flow metering and balancing are built-in, with unlimited flexibility in positioning the manifold in any direction. The unique integrated adapter combines isolation, temperature, air vent, and fill & purge valves into one compact unit. Only Legend places the air vent in-line with the water flow, removing more air than typical end mount installations. Many components are compatible with our M-8000, M-8100, and M-8220 manifolds – making the Legend manifold series the most versatile system on the market.

**Key Features at a Glance:**

- Optional compact integrated adapter removes air from the system
- Includes 2 GPM flow meters
- Balancing valves with memory stop
- Optional 4-wire actuators
- Manifold union available for easy circuit expansion



*In-line air vent removes more air than standard end mounts.*

2

Part No.	Size	Configuration	Qty.
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## M-8200P Precision Pro Manifold

M-8200P Precision Pro Manifold – Includes an integrated adapter with a garden hose threaded fill & purge valve, automatic air vent, thermometer, isolation valve, and sensor port: all-in-one unit.



8200P-10-2	2 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-3	3 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-4	4 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-5	5 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-6	6 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-7	7 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-8	8 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-9	9 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-10	10 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-11	11 Port	1" Brass Bar Precision Pro Kit	1
8200P-10-12	12 Port	1" Brass Bar Precision Pro Kit	1
8200P-14-4	4 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-5	5 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-6	6 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-7	7 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-8	8 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-9	9 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-10	10 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-11	11 Port	1-1/4" Brass Bar Precision Pro Kit	1
8200P-14-12	12 Port	1-1/4" Brass Bar Precision Pro Kit	1

Available at: 888-470-2757

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## M-8200T Precision Thermometer Manifold



**M-8200T Precision Manifold with Thermometer** – Includes isolation valves with thermometers for supply and return temperature measurement. Ships partially assembled for quick installation.

Part No.	Size	Configuration	Qty.
8200T-10-2	2 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-3	3 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-4	4 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-5	5 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-6	6 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-7	7 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-8	8 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-9	9 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-10	10 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-11	11 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-10-12	12 Port	1" Brass Bar Precision Thermometer Kit	1
8200T-14-4	4 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-5	5 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-6	6 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-7	7 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-8	8 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-9	9 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-10	10 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-11	11 Port	1-1/4" Brass Bar Precision Thermometer Kit	1
8200T-14-12	12 Port	1-1/4" Brass Bar Precision Thermometer Kit	1

## M-8200 Precision Basic Manifold



**M-8200 Precision Basic Manifold** – Ships partially assembled and ready to install.

8200-10-2	2 Port	1" Brass Bar Precision Basic Kit	1
8200-10-3	3 Port	1" Brass Bar Precision Basic Kit	1
8200-10-4	4 Port	1" Brass Bar Precision Basic Kit	1
8200-10-5	5 Port	1" Brass Bar Precision Basic Kit	1
8200-10-6	6 Port	1" Brass Bar Precision Basic Kit	1
8200-10-7	7 Port	1" Brass Bar Precision Basic Kit	1
8200-10-8	8 Port	1" Brass Bar Precision Basic Kit	1
8200-10-9	9 Port	1" Brass Bar Precision Basic Kit	1
8200-10-10	10 Port	1" Brass Bar Precision Basic Kit	1
8200-10-11	11 Port	1" Brass Bar Precision Basic Kit	1
8200-10-12	12 Port	1" Brass Bar Precision Basic Kit	1

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	Part No.	Size	Configuration	Qty.
<b>M-8200</b> <b>Continued</b> 	8200-14-4	4 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-5	5 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-6	6 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-7	7 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-8	8 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-9	9 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-10	10 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-11	11 Port	1-1/4" Brass Bar Precision Basic Kit	1
	8200-14-12	12 Port	1-1/4" Brass Bar Precision Basic Kit	1

Precision Manifold Accessories

**Integrated Adapter Valve**

**Integrated Adapter Valves** – Includes a garden hose threaded fill & purge valve, automatic air vent, thermometer, isolation valve, and sensor port: all in one unit. For M-8000, M-8100, and M-8200.



800-857	1"	Integrated Manifold Adapter Valve, Pair	1
800-858	1-1/4"	Integrated Manifold Adapter Valve, Pair	1
800-853	Replacement Thermometer		1

**Precision Adapter**

**Precision Adapters** – Includes a garden hose thread fill & purge, air vent, and thermometer with a thermowell. For M-8000, M-8100, and M-8200.



800-805	1"	Manifold Precision Adapter, Pair	1
800-806	1-1/4"	Manifold Precision Adapter, Pair	1
800-803	Replacement Thermometer with Thermowell		1

**Air Vent**

**Automatic Air Vent** – Replacement air vent for precision adapter and integrated adapter valve.



800-332	Automatic Air Vent		1
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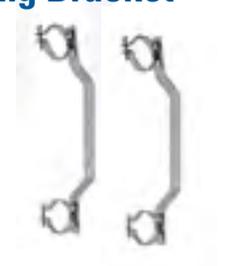


	Part No.	Size	Configuration	Qty.
<h2>Fill &amp; Purge Valve</h2> 	<p><b>Replacement Fill &amp; Purge Valve</b> – Replacement fill &amp; purge valve for the precision adapter and integrated adapter valve. Quarter-turn ball valve with tethered cap, garden hose thread (GHT) connection, and EPDM gasket/O-ring seals.</p>			
	800-802		Replacement Fill & Purge Valve	1
<h2>Isolation Valves</h2> 	<p><b>Isolation Valves</b> – For M-8000, M-8100, and M-8200 manifolds. Also used as loop isolation valve on M-8220 High Capacity™ and GeoGreen™ series manifolds.</p>			
	800-855	1"	Manifold Isolation Valve, Pair	1
	800-855B	1"	Manifold Isolation Valve - Blue Handle	1
	800-855R	1"	Manifold Isolation Valve - Red Handle	1
	800-856	1-1/4"	Manifold Isolation Valve, Pair	1
	800-856B	1-1/4"	Manifold Isolation Valve - Blue Handle	1
	800-856R	1-1/4"	Manifold Isolation Valve - Red Handle	1
<h2>Isolation Valve with Thermometer, Pair</h2> 	<p><b>Isolation Valves with Thermometer</b> – For M-8000, M-8100 and M-8200 manifolds. Converts the M-8200 to the M-8200T.</p>			
	800-855T	1"	Manifold Isolation Valve with Thermometer, Pair	1
	800-856T	1-1/4"	Manifold Isolation Valve with Thermometer, Pair	1
	<p><i>Also used as loop isolation valve on M-8220 High Capacity™ and GeoGreen™ series manifolds.</i></p>			
<h2>LegendPress® Isolation Valve, Pair</h2> 	<p><b>LegendPress® Isolation Valves</b> – For M-8000, M-8100 and M-8200 manifolds. Press style isolation valves feature two EPDM O-rings and deep sockets to ensure a perfect seal with every press.</p>			
	800-865	1"	LegendPress® Manifold Isolation Valve, Pair	1
	800-866	1-1/4"	LegendPress® Manifold Isolation Valve, Pair	1

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	Part No.	Size	Configuration	Qty.
<h3>Angle Isolation Valve</h3> 	<p><b>Angle Isolation Valves</b> – Used for low profile installations when supply &amp; return piping feeds from the ceiling or floor. Includes an offset adapter to align vertical piping properly. For M-8000, M-8100, and M-8200 manifolds.</p>			
	800-825	1"	Manifold Angle Isolation Valve, Pair	1
<h3>Mounting Bracket</h3> 	<p><b>Mounting Brackets</b> – For M-8000 and M-8200 Manifolds.</p>			
	800-861		M-8000 Manifold Mounting Bracket & Collar, Pair	1
	800-860		M-8200 Manifold Mounting Bracket & Collar, Pair	1
<h3>Circuit Actuator</h3> 	<p><b>4-Wire Circuit Actuator</b> – 24 volt AC actuator with 36" leads. Includes end switch that closes when valve is fully open. For M-8000, M-8100 and M-8200 series manifolds.</p>			
	800-200		4-Wire Circuit Actuator with End Switch	1
	810-201		EP Manifold Actuator Adapter	1
<h3>Manifold Union</h3> 	<p><b>Manifold Union</b> – Connects any two M-8200 series manifolds to increase circuit capacity.</p>			
	800-815	1"	Brass, Pair	1
	800-816	1-1/4"	Brass, Pair	1
<h3>End Plug with Gasket</h3> 	<p><b>Brass Manifold End Plug</b> – With EPDM O-ring. Used on all M-8000 and M-8200 series manifolds to close and seal manifold end.</p>			
	800-845	1"	Manifold End Plug	1
	800-846	1-1/4"	Manifold End Plug	1
<h3>Port Cap</h3> 	<p><b>Manifold Port Cap</b> – Used to close and seal unused ports on M-8000, M-8100 and M-8200 manifolds. Includes EPDM O-ring.</p>			
	800-141		Manifold Port Cap	1

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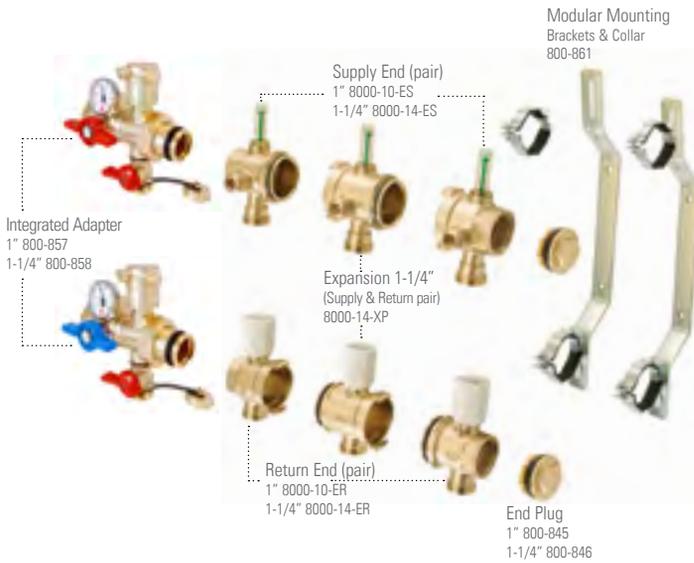
	Part No.	Size	Configuration	Qty.
<h3>PEX Tube Connector</h3>  <p>3/4" Connector</p>	PEX Tube Connectors – For M-8000 and M-8200 series manifolds. Not for use with PEX-AL-PEX tube.			
	800-140	5/16"	PEX (F1807) to Manifold Connector, Pair	1
	800-142	3/8"	PEX (F1807) to Manifold Connector, Pair	1
	800-143	1/2"	PEX (F1807) to Manifold Connector, Pair	1
	800-144	5/8"	PEX (F1807) to Manifold Connector, Pair	1
	800-145	3/4"	PEX (F1807) to Manifold Connector, Pair	1

<h3>Composite Tube Connector</h3>  <p>3/4" Connector</p>	Composite Tube Connectors – For all M-8000 and M-8200 series manifolds. For use with PEX-AL-PEX tube.			
	800-143C	1/2"	Composite Tube to Manifold Connector, Pair	1
	800-144C	5/8"	Composite Tube to Manifold Connector, Pair	1
	800-145C	3/4"	Composite Tube to Manifold Connector, Pair	1

<h3>Cold Expansion PEX Tube Connector</h3> 	Cold Expansion PEX Tube Connectors – For all M-8000 and M-8200 series manifolds. The installer must verify with tube manufacturer that the tubing is compatible with cold expansion type fitting systems.			
	800-143P	1/2"	Expansion PEX (F1960) to Manifold Connector, Pair	1
	800-144P	5/8"	Expansion PEX (F1960) to Manifold Connector, Pair	1
	800-145P	3/4"	Expansion PEX (F1960) to Manifold Connector, Pair	1

*Does not include PEX (F1960) cold expansion rings.*

# M-8000™ Modular Manifolds



Balancing valves with memory stop. Optional angle isolation valves for tight installations. Can be mounted in any orientation. Available in 1" and 1-1/4" configurations

### Carry less inventory without sacrificing variety.

The M-8000 Modular™ manifold series guarantees you'll always have the manifold you need when you need it. Its precision-designed components can be easily combined to craft a solution for any project. EPDM O-rings and CNC machining ensure a perfect seal; guaranteed. Our modular system allows you to carry less inventory without sacrificing versatility to ensure you have exactly what you need to get the job done, especially as requirements change while on the job.

Any configuration of the M-8000 can be built in minutes, simply select your components and put them together. You can make any manifold ranging from 2 to 14 ports with 1" or 1-1/4" headers; you can even add fill and purge valves. Many components are also compatible with our M-8100, M-8200, and M-8220 manifolds, making the Legend manifold family the most flexible manifold system on the market.

### Key Features at a Glance:

- Precision CNC machining guarantees a perfect seal
- Flexible circuit orientation - service loops above and below manifold
- Easy to assemble - twist & turn
- 2 GPM flow meters

2

Part No.	Size	Configuration	Qty.
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## M-8000S Press Manifold Kit



M-8000S Modular Press – Includes all required pieces to create basic 2-port 1" modular manifold with LegendPress® isolation valve.

8000S-10-2	1"	M-8000S Modular Press Kit	
8000-10-ES	1"	Supply End, Pair	1
8000-10-ER	1"	Return End, Pair	1
800-845	1"	Manifold End Plug	2
800-865	1"	LegendPress® Manifold Isolation Valve, Pair	1
800-861	1"	M-8000 Mounting Bracket & Collar, Pair	1

## M-8000P Pro Manifold Kit



M-8000P Modular Pro – Includes all required pieces to create basic 2-port 1" modular manifold with integrated adapter valve.

8000P-10-2	1"	M-8000P Modular Pro Kit	
8000-10-ES	1"	Supply End, Pair	1
8000-10-ER	1"	Return End, Pair	1
800-845	1"	Manifold End Plug	2
800-857	1"	Integrated Manifold Adapter Valve, Pair	1
800-861	1"	M-8000 Mounting Bracket & Collar, Pair	1

Note: For all kits order Supply and Return Expansion Pairs as needed. Available at: 888-470-2757

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## M-8000AP Angle Pro Manifold Kit



M-8000AP Modular Angle-Pro – Includes all required pieces to create basic 2-port 1" modular manifold with precision adapter.

Part No.	Size	Configuration	Qty.
8000AP-10-2	1"	M-8000AP Kit	
8000-10-ES	1"	Supply End, Pair	1
8000-10-ER	1"	Return End, Pair	1
800-845	1"	Manifold End Plug	2
800-825	1"	Manifold Angle Isolation Valve, Pair	1
800-805	1"	Precision Adapter	1
800-861		M-8000 Mounting Bracket & Collar, Pair	1

## M-8000P Manifold Kit



M-8000P 1-1/4" Modular Pro – Includes all required pieces to create basic 2-port 1-1/4" modular manifold with thermometer.

8000P-14-2	1-1/4"	M-8000P Kit	
8000-14-ES	1-1/4"	Supply End, Pair	1
8000-14-ER	1-1/4"	Return End, Pair	1
800-846	1-1/4"	Manifold End Plug	2
800-858	1-1/4"	Integrated Adapter	1
800-861		M-8000 Mounting Bracket & Collar, Pair	1

*Note: For all kits order Supply and Return Expansion Pairs as needed.*

## Supply and Return Expansion Pair



Supply and Return Expansion Pair – Order expansion quantities as required for headers with more than 2 circuits.

8000-14-XP		Supply and Return Expansion Pair	1
8000-14-MR	1-1/4"	Modular Return Expansion	1
8000-14-MS	1-1/4"	Modular Supply Expansion	1

### Supply and Return Ends (M-8000 Components)

8000-10-ES	1"	Modular Supply End, Pair	1
8000-14-ES	1-1/4"	Modular Supply End, Pair	1
8000-10-ER	1"	Modular Return End, Pair	1
8000-14-ER	1-1/4"	Modular Return End, Pair	1

*End sections ship in matching right and left pairs. Request both supply & return end pairs when completing a modular manifold.*



Available at: 888-470-2757

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# M-8100™ Engineered Plastic Manifolds



Lightweight, durable, and adaptable.

The M-8100 Engineered Plastic manifold provides many solutions in this superbly designed series. They are manufactured from a high-performance, lightweight polymer that is both durable and strong. It can withstand pressures and temperatures well beyond what is needed for even the most demanding radiant heating or cooling project.

The M-8100 manifold is shipped pre-assembled and mounted on brackets, so it's ready to be installed out of the box. By adding on expansion supply and returns to create a circuit loop, you can adapt the M-8100 to accommodate project changes. The variety of available kits, accessories, and options provide optimal job flexibility.

**Key Features at a Glance:**

- Manufactured from advanced polymers, making it strong, durable, and lightweight
- Built-in loop isolation, balancing, and flow meters (0 to 2 GPM) for easy setup and optimization
- Highly versatile and compatible with M-8000 Manifold Accessories
- Field expandable allowing easy adaptability to project changes
- Ships pre-assembled for easy installation

2

Part No.	Size	Configuration	Qty.
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## M-8100P Engineered Plastic Pro Manifold

M-8100P EP Pro Manifold – Includes an integrated adapter valve with garden hose threads, fill & purge valve, automatic air vent, thermometer, isolation valve, and sensor port all in one unit.



8100P-10-2	2 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-3	3 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-4	4 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-5	5 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-6	6 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-7	7 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-8	8 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-9	9 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-10	10 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-11	11 Port	1" EP Pro Manifold with Integrated Adapter Valve	1
8100P-10-12	12 Port	1" EP Pro Manifold with Integrated Adapter Valve	1

*Using an Expansion Supply and Return Pair, M-8100 Engineered Plastic Manifolds can be added on to, allowing them to accommodate for project changes.*

Available at: 888-470-2757

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Part No.	Size	Configuration	Qty.
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**M-8100A**  
**Engineered Plastic**  
**Angle Manifold**



M-8100A EP Angle – Includes angle isolation valves with offset adapter for vertical piping applications and ships loosely pre-assembled ready to install.

8100A-10-2	2 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-3	3 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-4	4 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-5	5 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-6	6 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-7	7 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-8	8 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-9	9 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-10	10 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-11	11 Port	1" EP Angle Manifold with Angle Isolation Valve	1
8100A-10-12	12 Port	1" EP Angle Manifold with Angle Isolation Valve	1

**M-8100**  
**Engineered Plastic**  
**Basic Manifold**



M-8100 EP Basic Manifold – Includes threaded (FNPT) isolation valves and ships loosely pre-assembled and ready to install.

8100-10-2	2 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-3	3 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-4	4 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-5	5 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-6	6 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-7	7 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-8	8 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-9	9 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-10	10 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-11	11 Port	1" EP Basic Manifold with Isolation Valve	1
8100-10-12	12 Port	1" EP Basic Manifold with Isolation Valve	1

Engineered Plastic Manifold Accessories

**PEX Tube Connectors**

PEX Tube Connectors – For M-8100EP manifold only.



3/4" Connector

810-142EP	3/8"	PEX (F1807) to EP Manifold Connector, Pair	1
810-143EP	1/2"	PEX (F1807) to EP Manifold Connector, Pair	1
810-144EP	5/8"	PEX (F1807) to EP Manifold Connector, Pair	1
810-145EP	3/4"	PEX (F1807) to EP Manifold Connector, Pair	1

Not for use with PEX-AL-PEX tube.

Available at: 888-470-2757



	Part No.	Size	Configuration	Qty.
<p><b>Expansion Supply and Return</b></p> 	8100-10-XP	1"	M-8100 EP Manifold Expansion, Pair	1
<p><b>Manifold Actuator Adapter</b></p> 	810-201	1"	M-8100 EP Manifold Actuator Adapter	-/-
<p><b>Header Isolation Valve Connector</b></p> 	810-105	1"	M-8100 EP Header Isolation Valve Connector, Pair	1
<p><b>Manifold Mounting Bracket &amp; Collar, Pair</b></p> 	810-100		M-8100 EP Manifold Bracket & Collar Pair	1

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	Part No.	Size	Configuration	Qty.
<p><b>End Plug, Pair</b></p> 	810-102	1"	M-8100 EP End Plug Pair	1
<p><b>Large Header C-Clip, Pair</b></p> 	810-103		M-8100 EP Large Header C-Clip	1
<p><b>Tube Connector C-Clip, Pair</b></p> 	810-104		M-8100 EP Tube Connector C-Clip	1
<p><b>EP PTFE Header Connector, Pair</b></p> 	810-106	1"	M-8100 EP PTFE Header Connector Pair	100/10
<p><b>Brass Bushing for M-8100</b></p> 	810-107	1"	M-8100 EP Brass Bushing	100/10

Available at: 888-470-2757

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# M-8220™ High Capacity Manifolds



### High Capacity for Radiant Hydronic Applications with High Flow Rates.

The M-8220 is perfect for radiant hydronic systems that require high flow rates, such as snow & ice melt systems, or projects with large floor areas (warehouses, commercial garages, airplane hangers, manufacturing facilities, etc.). This manifold can also control flow distribution in hydronic systems where each branch supplies one or more zones of radiant panel manifolds, radiator panels, baseboards, fan coil units, etc.

The M-8220 provides full isolation at each header and circuit loop using color-coded handles. The header valves are available with standard pipe thread or press style connections. Depending upon the circuit balancing requirements, FNPT and Press circuit isolation valves are available. Many components are compatible with our M-8000, M-8100, and M-8200 manifolds – making the Legend manifold series one of the most flexible manifold system on the market.

### Key Features at a Glance:

- High flow capacity
- Expandable circuit loops
- Extruded from high-strength OT63 alloy
- Header isolation valves available with threaded or LegendPress® connections
- Includes strong and versatile mounting brackets
- Includes automatic air vent and GHT fill/purge assemblies

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	Part No.	Size	Configuration	Qty.
	<b>M-8220 High Capacity Manifold Base Kit</b> – Base kit includes supply and return headers, 1-1/2" FNPT isolation valves for headers, 1" NPT circuit loop isolation valves for supply and return, mounting brackets, and fill & air purger.			
	8220-15-2	2 Port	1-1/2" Hi-Capacity FNPT Base Kit - 2 Brackets	1
	8220-15-3	3 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-15-4	4 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-15-5	5 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-15-6	6 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-15-7	7 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-15-8	8 Port	1-1/2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-20-2	2 Port	2" Hi-Capacity FNPT Base Kit - 2 Brackets	1
	8220-20-3	3 Port	2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-20-4	4 Port	2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-20-5	5 Port	2" Hi-Capacity FNPT Base Kit - 4 Brackets	1
	8220-20-6	6 Port	2" Hi-Capacity FNPT Base Kit - 4 Brackets	1

Available at: 888-470-2757



## M-8220P High Capacity Manifold Press Kit



M-8220P High Capacity Manifold Press Kit – Base kit includes supply and return headers, 1-1/2" LegendPress® isolation valves for headers, 1" NPT circuit loop isolation valves for supply and return, mounting brackets, and fill & air purger.

Part No.	Size	Configuration	Qty.
8220S-15-2	2 Port	1-1/2" Hi-Capacity Press Base Kit - 2 Brackets	1
8220S-15-3	3 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-15-4	4 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-15-5	5 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-15-6	6 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-15-7	7 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-15-8	8 Port	1-1/2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-20-2	2 Port	2" Hi-Capacity Press Base Kit - 2 Brackets	1
8220S-20-3	3 Port	2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-20-4	4 Port	2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-20-5	5 Port	2" Hi-Capacity Press Base Kit - 4 Brackets	1
8220S-20-6	6 Port	2" Hi-Capacity Press Base Kit - 4 Brackets	1

## M-8220X Manifold Expansion Kit



M-8220X High Capacity Manifold Expansion Kit – Expansion kit includes supply and return headers, 1" NPT circuit loop isolation valves for supply & return, mounting brackets, and 2 manifold unions.

8220-15-2X	2 Port	1-1/2" Hi-Capacity Expansion Kit - 2 Brackets	1
8220-15-3X	3 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-15-4X	4 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-15-5X	5 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-15-6X	6 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-15-7X	7 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-15-8X	8 Port	1-1/2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-20-2X	2 Port	2" Hi-Capacity Expansion Kit - 2 Brackets	1
8220-20-3X	3 Port	2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-20-4X	4 Port	2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-20-5X	5 Port	2" Hi-Capacity Expansion Kit - 4 Brackets	1
8220-20-6X	6 Port	2" Hi-Capacity Expansion Kit - 4 Brackets	1

M-8220 Expansion Kit – Order expansion kits as required to build manifolds with more than 8 ports in 1-1/2" and 6 ports in 2" sizes. Expansion kit includes 2 manifold unions in place of the 2 fill & purge assemblies.



Substitute one or more multiple pairs of loop isolation valves with thermometer, in place of the standard loop isolation valves included with the manifold kits. The supply and return thermometer can provide means to determine delta T and help balance flow rates. Call customer service to make application adjustments (866) 752-2055.

Available at: 888-470-2757

PEXHEAT.COM

# GeoGreen™

GEO THERMAL Manifold System



The ultimate in lightweight durability, labor savings, and installation flexibility for commercial and residential geothermal applications.

This ground-source geothermal manifold is easy to install and maintain. The M-8400 is fully-customizable, offering the ultimate in labor savings and installation flexibility. Its modular assembly cuts down on install time, and the compact design saves space and makes it easy to work with. The unit is lightweight but doesn't sacrifice durability. It is made of chemical and corrosion resistant PPR Type 3 engineered plastic, ensuring it will last a long time.

The most common configurations of the M-8400 are available from stock. However, Legend will custom build a unit to suit any application ranging from 4 to 26 loops for larger industrial and commercial applications. Headers are available in either threaded or LegendPress® configurations.

**Key Features at a Glance:**

- Lightweight
- Labor saving
- Easy to install
- Compact design
- Custom configurations available

M-8400 GeoGreen™ mounted ground vault.

2

Part No.	Size	Configuration	Qty.
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## M-8400 GeoGreen Geothermal Manifold System

GeoGreen M-8400 Geothermal Manifold Base Kit – Durable and lightweight geothermal manifolds with 2-1/2" headers. Contact Legend customer service for additional configurations.



8400-25-4	4 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-5	5 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-6	6 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-7	7 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-8	8 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-9	9 Port	2-1/2" (75mm) GeoGreen Base Kit	1
8400-25-10	10 Port	2-1/2" (75mm) GeoGreen Base Kit	1

**For Horizontal Applications:**

8400-25-8H	8 Port	2-1/2" (75mm) GeoGreen Base Kit	1
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See accessories on pages 44 and 45. Custom GeoGreen manifolds are available in configurations up to 26 ports and up to 3-1/2" sizes for horizontal and vertical applications.

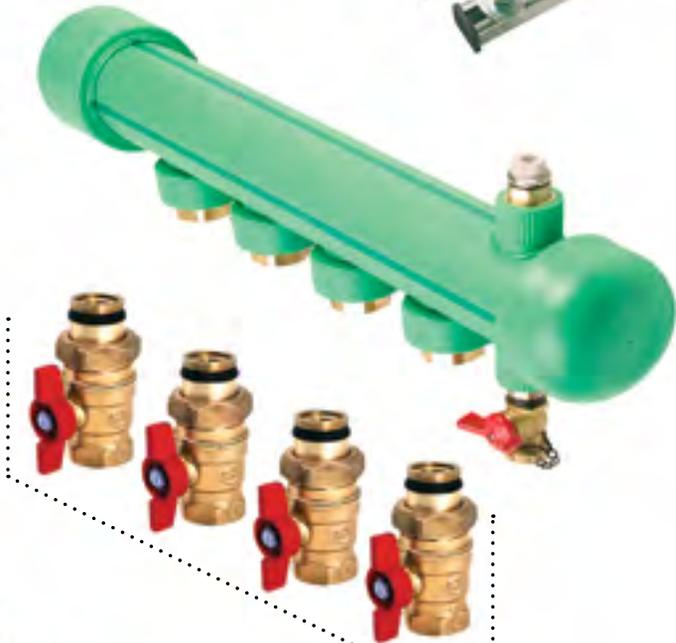
Call Legend customer service at 866-752-2055 for assistance in specifying and ordering the GeoGreen M-8400 Manifold.

Available at: 888-470-2757



GeoGreen™ Manifold Base: Supply & return headers, 2 sets of brackets, and fill valve & air purger

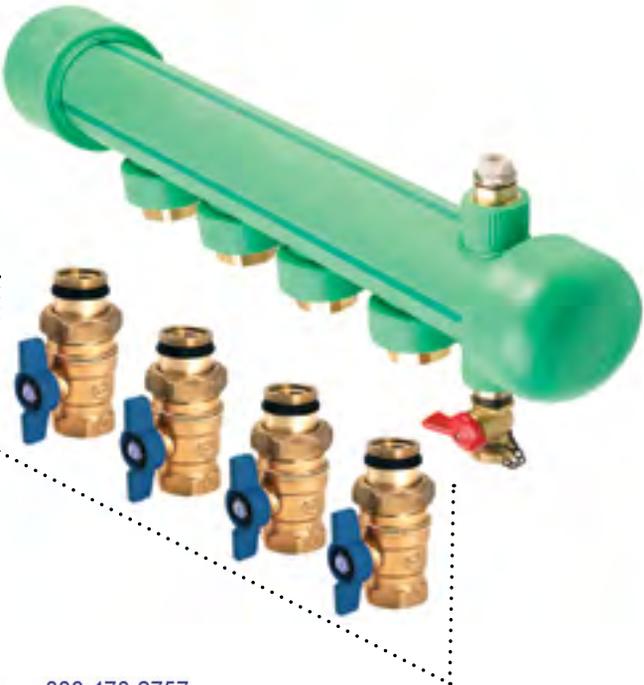
Header Isolation Valves  
(Red & Blue Pair)  
FIP – 1-1/2" 822-857



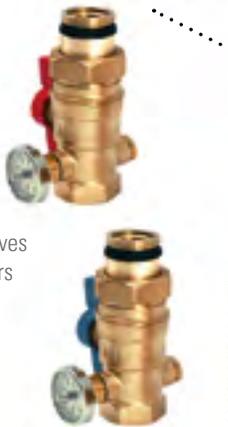
Header Isolation Valves  
(Red & Blue Pair)  
LegendPress®  
1-1/2" 800-867



Loop Isolation Valves  
(Red & Blue Pair)  
1" 800-855



Loop Isolation Valves  
with Thermometers  
(Red & Blue Pair)  
1" 800-855T



Available at: 888-470-2757

	Part No.	Size	Configuration	Qty.
<h3>High Capacity Isolation Valve</h3> 	High Capacity Header Isolation Valves – For M-8220 and GeoGreen™ M-8400 manifolds.			
	822-857	1-1/2"	Manifold Header Isolation Valve, Pair	1
	<i>1-1/2" Manifold isolation valve provided with 2" base kits.</i>			
<h3>LegendPress® Isolation Valve</h3> 	High Capacity Header Isolation Valves with LegendPress® Connection – For M-8220 and M-8400 GeoGreen™ manifolds. LegendPress header isolation valves feature two EPDM o-rings and deep sockets to ensure a perfect seal with every press.			
	800-867	1-1/2"	LegendPress® Manifold Header Isolation Valve, Pair	1
	<i>1-1/2" Manifold isolation valve provided with 2" base kits.</i>			
<h3>Loop Isolation Valve</h3> 	Loop Isolation Valves – For M-8220 and GeoGreen™ M-8400 manifolds.			
	800-855	1"	Loop Isolation Valve, Pair	1
	<i>May be used with 3/4" or 1" high capacity tubing connectors. Also used as header isolation valve on M-8000, M-8100 and M-8200 series manifolds.</i>			
<h3>Loop Isolation Valve with Thermometer</h3> 	Loop Isolation Valves with Thermometer – For M-8220 and GeoGreen™ M-8400 manifolds.			
	800-855T	1"	Loop Isolation Valve with Thermometer, Pair	1
	<i>May be used with 3/4" or 1" high capacity tubing connectors. Also used as header isolation valve on M-8000, M-8100 and M-8200 series manifolds.</i>			
<h3>Manifold Union</h3> 	High Capacity Manifold Union – Connects any two M-8220 series manifolds to increase circuit capacity.			
	822-817	1-1/2"	High Capacity Brass, Pair	1
	822-818	2"	High Capacity Brass, Pair	1

Available at: 888-470-2757



	Part No.	Size	Configuration	Qty.
<h3>Compression Tube Connector</h3> 	High Capacity Compression Tube Connectors – For M-8220 manifolds.			
	800-134	3/4"	High Capacity Compression Connector, Pair	1
	800-135	1"	High Capacity Compression Connector, Pair	1
<i>For use with copper tube.</i>				
<h3>High Capacity PEX Tube Connector</h3> 	High Capacity PEX Tube Connectors – For M-8220 and M-8400 GeoGreen™ M-8400 manifolds.			
	800-233	5/8"	High Capacity PEX Connector, Pair	1
	800-234	3/4"	High Capacity PEX Connector, Pair	1
	800-235	1"	High Capacity PEX Connector, Pair	1
<h3>Mounting Bracket</h3> 	High Capacity Manifold Mounting Brackets – Replacement brackets and collars for M-8220 and GeoGreen™ M-8400 manifolds. Replacement collars for M-8220 with insulation jackets.			
	822-861		High Capacity Manifold Mounting Bracket & Collar, Pair	1
	822-862		Large Collar for 1-1/2" Manifold with Insulation Jacket, Pair	1
	822-863		Large Collar for 2" Manifold with Insulation Jacket, Pair	1
<i>Item 822-861 to be used for M-8200 &amp; M-8400. Order large collars when using insulation jackets item number 822-867 and 822-868.</i>				
<h3>Thermal Insulation Jacket</h3> 	6 Port Insulation Jacket – For M-8220 series manifolds. Easily cut to size for manifolds with fewer loops.			
	822-867	1-1/2"	High Capacity 6-Port Insulation Jacket, 1 header	1
	822-868	2"	High Capacity 6-Port Insulation Jacket, 1 header	1
<i>Order insulation jackets and large collars (822-862 for 1-1/2" manifolds &amp; 822-863 for 2" manifolds) individually for each header.</i>				
<h3>High Capacity Air Vent</h3> 	High Capacity Air Vent – Replacement air vent for fill and purge module M-8220. Vent can be serviced by removing the cap, includes check valve.			
	800-244		High Capacity Air Vent	1

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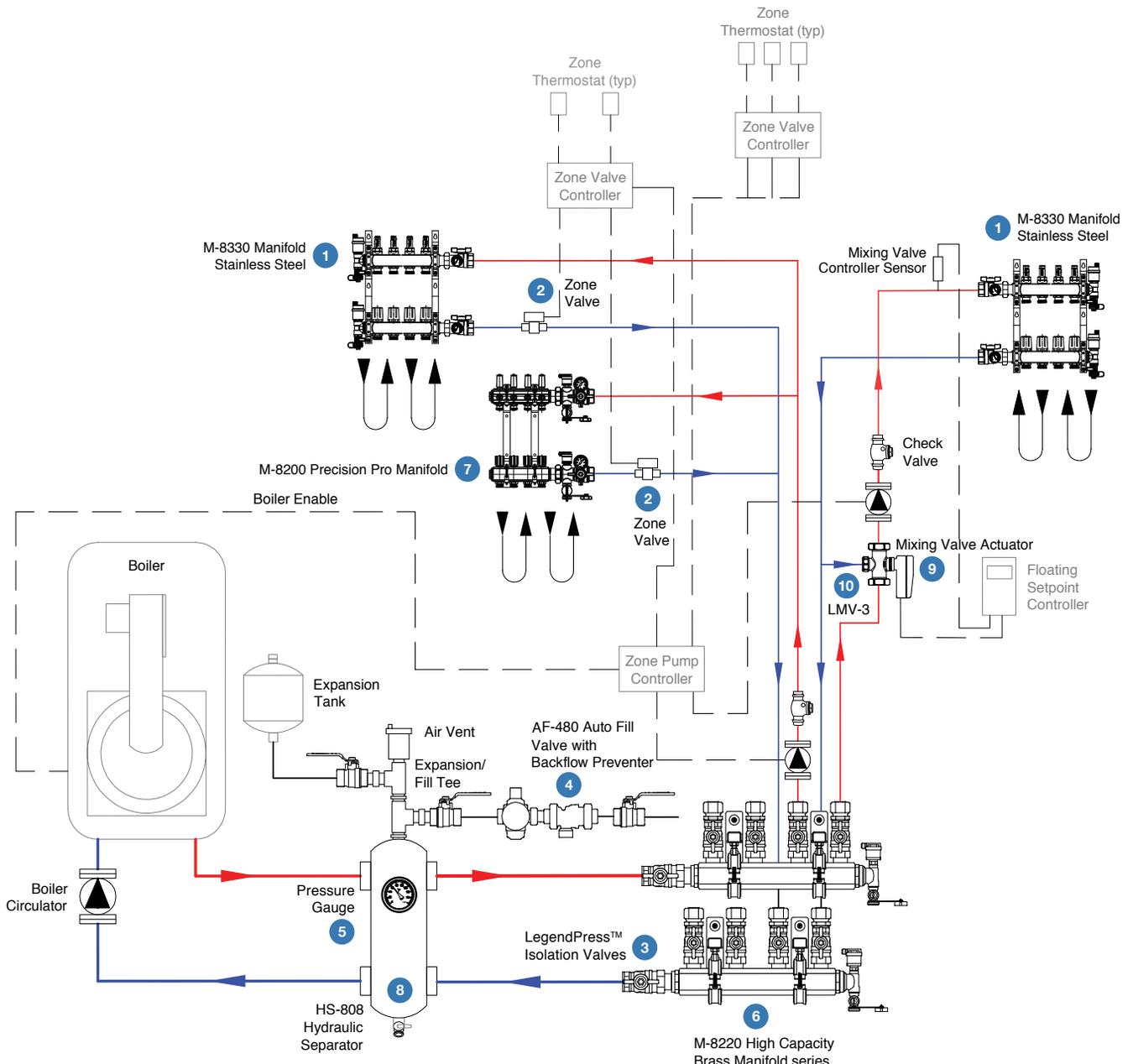
Available at: 888-470-2757  
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An HS-808 with LegendConnect Press Ends (800-835P).

# THE MECHANICAL ROOM

The heart of any radiant hydronic system is the mechanical room. The mechanical room controls the entire radiant system's temperature and water distribution, and using specific control setups can even allow for climate control in individual rooms. Our mechanical room components are designed and engineered with efficiency in mind for system layout, installation, and operation.

Contractors appreciate the labor-saving features our products offer, allowing them to minimize time spent on the job site. System designers benefit from product innovation and multipurpose functionality. For instance, the HS-808 Hydraulic Separator is capable of both hydraulic separation and air & debris removal. This all in one unit simplifies system design and aids in maximizing operational efficiency.



Available at: 888-470-2757

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# LegendConnect®



LegendConnect® is the Ultimate in Flexibility and Compatibility.

The connectors are interchangeable with the BLF-2 Balancing Valve, T-88 Air & Dirt Separator, HS-808 Hydraulic Separator, and LMV-3 Three-way Mixing Valve. Select a body for any of the LegendConnect models, then choose any of the various connection types and sizes to meet the project's requirements. Reduce your inventory, improve service time, and handle all project requirements and installer preferences with one connection system: LegendConnect®.

	Part No.	Tube Size	Configuration	Body	Qty.
<b>LegendConnect® Connectors</b> Select your pipe size and connector type. Note the body type (ie: A, B, C). Choose your product with the matching body type on the next page.	800-874M	3/4"	MNPT	A	Pair (2)
	800-874F	3/4"	FNPT	A	Pair (2)
	800-874S	3/4"	Sweat	A	Pair (2)
	800-874LP	3/4"	LegendPress®	A	Pair (2)
	800-874VC	3/4"	Iso Valve Comp*	A	Pair (2)
	800-874VF	3/4"	Iso Valve FNPT*	A	Pair (2)
	800-875M	1"	MNPT	A	Pair (2)
	800-875S	1"	Sweat	A	Pair (2)
	800-875F	1"	FNPT	B	Pair (2)
	800-875LP	1"	LegendPress®	B	Pair (2)
800-875VC	1"	Iso Valve Comp	B	Pair (2)	
800-875VF	1"	Iso Valve FNPT	B	Pair (2)	
800-876M	1-1/4"	MNPT	B	Pair (2)	
800-876F	1-1/4"	FNPT	B	Pair (2)	
800-876S	1-1/4"	Sweat	B	Pair (2)	
800-876LP	1-1/4"	LegendPress	B	Pair (2)	
800-876VF	1-1/4"	Iso Valve FNPT	B	Pair (2)	
800-877F	1-1/2"	FNPT	C	Pair (2)	
800-877LP	1-1/2"	LegendPress®	C	Pair (2)	
800-877M	1-1/2"	MNPT	C	Pair (2)	
800-877S	1-1/2"	Sweat	C	Pair (2)	
800-878M	2"	MNPT	D	Pair (2)	
800-878F	2"	FNPT	D	Pair (2)	

Available at: 888-470-2757

\*These connectors include two connector nuts that should be used in place of the nuts included with the component bodies. Connectors are sold in pairs of two. The HS-808 Hydraulic Separator requires 2 pairs (4 total) connectors for installation.

# LegendConnect® Component Bodies

	Part No.	Configuration	Body	Qty.
<b>BLF-2</b> <b>Balancing Valve (Body)</b> 	LegendConnect® BLF-2 Balancing Valve (Body Only) – Allows for precise flow control so that energy distribution is efficient and appropriately matched to the load of each zone in the hydronic heating or cooling system.			
	800-775	1" BLF-2 Body with Flow Meter	Body A	1
	800-775NF	1" BLF-2 Body without Flow Meter	Body A	1
<b>T-88</b> <b>Air &amp; Debris Eliminator (Body)</b> 	T-88 High Performance Air and Debris Eliminator (Body Only) – Includes serviceable, automatic air vent with check valve adapter, purge valve and serviceable stainless steel screen. Connectors NOT included. See previous page to order connectors separately.			
	800-875	1" T-88 Body	Body A	1
	800-876	1-1/4" T-88 Body	Body B	1
	800-877	1-1/2" T-88 Body	Body C	1
<b>HS-808</b> <b>Hydraulic Separator (Body)</b> 	HS-808 Hydraulic Separator (Body Only) – Includes serviceable, automatic air vent with check valve adapter, purge valve and insulation jacket. Connectors NOT included. See previous page to order connectors separately. NOTE: Requires 2 pair of connectors (4 total).			
	800-835	1" HS-808 Body	Body A	1
	800-836	1-1/4" HS-808 Body	Body B	1
	800-838	1-1/2" HS-808 Body	Body D	1
<b>LMV-3</b> <b>Three-Way Mixing Valve (Body)</b> 	LMV-3 Three-Way Mixing Valve (Body Only) – Includes plastic cover for mixing actuator mounting threads and 1" compression nut for return port connection. Requires mixing valve actuator for proper system operation. Connectors NOT included. See previous page to order connectors separately.			
	800-766	1" LMV-3 Body	Body B	1

*Components are to be used with the LegendConnect system. All component bodies listed here are sold without connectors. Choose the connector type and size on the previous page to match these bodies. To purchase kits that include the component body and specific connector type and size, see pages 50, 51, 52, and 54.*

Available at: 888-470-2757

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P. 800.752.2082 | legendvalve.com  **LEGEND** | 49

# BLF-2 LegendConnect® Balancing Valve



The BLF-2 ensures precise flow control, ensuring each zone receives precisely the right amount of heating and cooling.

The BLF-2 Balancing Valve allows for precise flow control for efficient and appropriately matched energy distribution for each zone's load in a hydronic system. It's also highly versatile, utilizing the LegendConnect® system to quickly adapt to the most common types of system connections.

Proper flow rate balancing can be the difference between an efficient and comfortable system and one that does not provide sufficient heating or cooling to every room in the building. The BLF-2's flow rate can be set easily using the marked hand wheel and verifying with the attached flow meter. This allows for quick and precise control of the flow with minimal setup. A version of the BLF-2 without the flow meter is also available for traditional two-gauge setups.

Part No.	Size	Connectors	Model	Qty.
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## BLF-2 LegendConnect® Balancing Valve

BLF-2 Balancing Valve – Two (2) connectors are included in all kits listed below.



800-774M	3/4"	MNPT Connector Kit	BLF-2 with Flow Meter	1
800-774F	3/4"	FNPT Connector Kit	BLF-2 with Flow Meter	1
800-774S	3/4"	Sweat Connector Kit	BLF-2 with Flow Meter	1
800-774LP	3/4"	LegendPress® Connector Kit	BLF-2 with Flow Meter	1
800-774VC	3/4"	Iso Valve Comp Connector Kit	BLF-2 with Flow Meter	1
800-774VF	3/4"	Iso Valve FNPT Connector Kit	BLF-2 with Flow Meter	1
800-774M-NF	3/4"	MNPT Connector Kit	BLF-2 without Flow Meter	1
800-774F-NF	3/4"	FNPT Connector Kit	BLF-2 without Flow Meter	1
800-774S-NF	3/4"	Sweat Connector Kit	BLF-2 without Flow Meter	1
800-774LP-NF	3/4"	LegendPress® Connector Kit	BLF-2 without Flow Meter	1
800-774VC-NF	3/4"	Iso Valve Comp Connector Kit	BLF-2 without Flow Meter	1
800-774VF-NF	3/4"	Iso Valve FNPT Connector Kit	BLF-2 without Flow Meter	1
800-775M	1"	MNPT Connector Kit	BLF-2 with Flow Meter	1
800-775S	1"	Sweat Connector Kit	BLF-2 with Flow Meter	1
800-775M-NF	1"	MNPT Connector Kit	BLF-2 without Flow Meter	1
800-775S-NF	1"	Sweat Connector Kit	BLF-2 without Flow Meter	1

Available at: 888-470-2757

**PEXHEAT.COM**

# T-88 High Performance Air and Debris Eliminator



The T-88 is fully serviceable with a two piece bowl which allows for easy cleaning or replacement of the stainless steel screen.



The automatic high capacity air vent attaches to the T-88 through a check valve to allow removal without system pressure loss.

The T-88 provides superior air and dirt elimination to help maximize efficiency and reduce noise in hydronic systems.

The large bowl design combines with the internal stainless steel screen to separate entrained air, micro-bubbles, and debris from the system fluid. The fluid velocity slows as it enters the bowl of the T-88, this does things that benefit the system. Micro-bubbles or entrapped air can separate from the medium, allowing the automatic air vent to expel the unwanted gasses without losing system pressure. Particles of dirt and debris slow and fall to the bottom of the bowl, where they can later be blown out of the system through the purge valve.

The body of the T-88 allows for bi-directional flow: improving adaptability and maximizing the performance of critical functions of a system.

Part No.	Size	Connectors	Model	Qty.
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## T-88 Air & Dirt Removal Kit

T-88 High Performance Air and Debris Eliminator Kits – Maximum performance, serviceability, and flexibility. Includes serviceable, automatic air vent with check valve adapter, purge valve, and serviceable stainless steel screen. Two (2) connectors are included in all kits listed below.

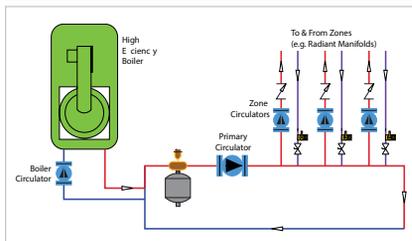
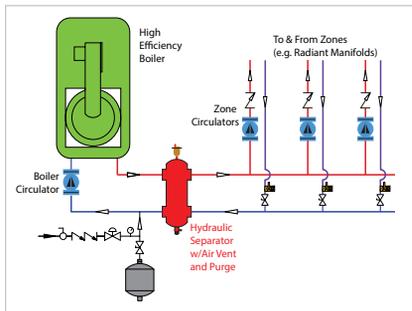


800-884M	3/4"	MNPT Connector Kit	T-88	1
800-884F	3/4"	FNPT Connector Kit	T-88	1
800-884S	3/4"	Sweat Connector Kit	T-88	1
800-884P	3/4"	LegendPress® Connector Kit	T-88	1
800-884VC	3/4"	Iso Valve Comp Connector Kit	T-88	1
800-884VF	3/4"	Iso Valve FNPT Connector Kit	T-88	1
800-885M	1"	MNPT Connector Kit	T-88	1
800-885F	1"	FNPT Connector Kit	T-88	1
800-885S	1"	Sweat Connector Kit	T-88	1
800-885P	1"	LegendPress® Connector Kit	T-88	1
800-885VC	1"	Iso Valve Comp Connector Kit	T-88	1
800-885VF	1"	Iso Valve FNPT Connector Kit	T-88	1
800-886M	1-1/4"	MNPT Connector Kit	T-88	1
800-886F	1-1/4"	FNPT Connector Kit	T-88	1
800-886S	1-1/4"	Sweat Connector Kit	T-88	1
800-886P	1-1/4"	LegendPress® Connector Kit	T-88	1
800-886VF	1-1/4"	Iso Valve FNPT Connector Kit	T-88	1
800-887M	1-1/2"	MNPT Connector Kit	T-88	1
800-887F	1-1/2"	FNPT Connector Kit	T-88	1
800-887S	1-1/2"	Sweat Connector Kit	T-88	1
800-887P	1-1/2"	LegendPress® Connector Kit	T-88	1

Available at: 888-470-2757

**PEXHEAT.COM**

# HS-808 Hydraulic Separator



The HS-808 simplifies system piping for easier installation, design and analysis. In many cases eliminating the need for a primary circulator.



The HS-808 allows for simple, efficient, and economical hydraulic separation in hydronic systems.

Enjoy all the benefits of a primary/secondary system piping all in one unit. Eliminate circuit to circuit (zone distribution) and circuit to heating or cooling source flow (hydraulic) interference and simplify system design and analysis without the complicated and costly close-spaced tees piping. In many cases, using a hydraulic separator eliminates the need for a primary circulator and the installation and its associated operating costs. Additional benefits of the HS-808 include air purging through the built-in automatic high capacity air vent and debris removal using the included purge valve. All sizes of the HS-808 feature union connections for ease customization, installation, and maintenance. An attractive, compact, and form-fitting insulation jacket is provided with each unit.

### Key Features at a Glance:

- High capacity field serviceable automatic air vent has built-in service check valve
- Compatible with all LegendConnect® system fittings
- Union connections for easy cleaning and maintenance
- Garden hose threaded purge valve
- Automatic high-capacity air vent
- Compact insulation jacket

Part No.	Size	Connectors	Model	Qty.
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## HS-808 Hydraulic Separator

HS-808 Hydraulic Separator Kits – Includes serviceable automatic air vent with check valve adapter, purge valve, and insulation jacket. Four (4) connectors are included in all kits listed below.



FNPT MNPT Sweat Press ISO Comp ISO FNPT	800-835M	1"	MNPT Connector Kit	HS-808	1
	800-835F	1"	FNPT Connector Kit	HS-808	1
	800-835S	1"	Sweat Connector Kit	HS-808	1
	800-835P	1"	LegendPress® Connector Kit	HS-808	1
	800-835VC	1"	Iso Valve Comp Connector Kit	HS-808	1
	800-835VF	1"	Iso Valve FNPT Connector Kit	HS-808	1
	800-836M	1-1/4"	MNPT Connector Kit	HS-808	1
	800-836F	1-1/4"	FNPT Connector Kit	HS-808	1
	800-836S	1-1/4"	Sweat Connector Kit	HS-808	1
	800-836P	1-1/4"	LegendPress® Connector Kit	HS-808	1
	800-836VF	1-1/4"	Iso Valve Comp Connector Kit	HS-808	1
	800-837M	1-1/2"	MNPT Connector Kit	HS-808	1
800-837F	1-1/2"	FNPT Connector Kit	HS-808	1	
800-837S	1-1/2"	Sweat Connector Kit	HS-808	1	
800-837P	1-1/2"	LegendPress® Connector Kit	HS-808	1	
800-837U	1-1/2"	Union Connector Kit*	HS-808	1	
800-838M	2"	MNPT Connector Kit	HS-808	1	
800-838F	2"	FNPT Connector Kit	HS-808	1	
800-838U	2"	Union Connector Kit*	HS-808	1	

Available at: 888-470-2757

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\*Not part of the LegendConnect® system.

	Part No.	Configuration	Qty.
<h2>Magnetic Debris Remover</h2>  <p>The image shows a magnetic debris remover, which consists of a long, thin metal rod with a small cylindrical cap at the top and a larger, wider cylindrical housing at the bottom. The rod is shown both inserted into the housing and separated from it.</p>		<p><b>Magnetic Debris Remover</b> – The magnetic debris remover replaces the automatic air vent in the top port of the T-88. To install, simply slide it down through the center of the internal stainless steel screen. During the hydronic system operation, this accessory generates a powerful magnetic field that attracts ferrous debris as it passes through the body of the T-88. This is especially effective in older hydronic systems that contain steel or iron piping, cast iron radiators, and/or cast iron boilers where ferrous oxide corrosion may have built up within the system over time. To clean the debris, remove the accessory from the T-88, slide the magnet from its housing, and clean off any remaining debris adhered to the housing.</p>	
	800-881	Magnetic Debris Remover with Housing for T-88	1
<h2>Expansion Tank / Fill Valve Tee</h2>  <p>The image shows a brass tee connector with three ports. One port is a standard 1/2" MNPT, while the other two are designed for expansion tank or fill valve connections.</p>		<p><b>Expansion Tank / Fill Valve System Connection</b> – Designed to allow easy connection of an expansion tank or automatic fill valve to the hydronic system. The tee provides a convenient 1/2" MNPT piping attachment point into the system. Attach to the top port of either the T-88 Air &amp; Debris Eliminator or the HS-808 Hydraulic Separator. The automatic air vent check valve attaches to the other end of the tee.</p>	
	800-246	Expansion Tank / Fill Valve Tee Connector - 1/2" MNPT	1
<h2>Fill and Purge Valve</h2>  <p>The image shows a brass fill and purge valve with a red handle and a black tethered cap. It has a garden hose thread (GHT) connection and EPDM gasket and o-ring seals.</p>		<p><b>Replacement Fill &amp; Purge Valve</b> – Replacement fill &amp; purge valve for T-88 and HS-808 that features a quarter-turn ball valve with tethered cap, garden hose thread (GHT) connection and EPDM gasket and o-ring seals.</p>	
	800-802	Replacement Fill & Purge Valve	1
<h2>Air Vent</h2>  <p>The image shows a brass high capacity air vent with a red cap and a check valve at the bottom.</p>		<p><b>High Capacity Air Vent</b> – Replacement air vent for T-88 and HS-808. Vent can be serviced by unthreading the cap.</p>	
	800-245	Replacement High Capacity Air Vent with Check Valve	1

# LMV-3 Three-Way Mixing Valve



LMV-3 Three-Way Mixing Valve is designed for use in hydronic heating and cooling systems.

This valve is designed to provide a desired system fluid temperature by mixing fluid at a higher temperature from the heat source (typically a boiler) with mediums at a lower temperature returning from the heating zone. It can also be for cooling applications to mix fluid from the chiller (or other water cooling sources) with warmer fluid returning from the zones to achieve the desired system fluid temperature.

**Key Features at a Glance:**

- Economical method to supply multiple water temperatures to different zones of the same system
- Compatible with most popular mixing controllers
- Capable of both outdoor reset and set-point mixing strategies
- Compatible with all LegendConnect® system fittings

Part No.	Size	Connectors	Model	Qty.
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## LMV-3 Three-Way Mixing Valve

LMV-3 Three-Way Mixing Valve Kit – Requires mixing valve actuator for proper system operations. Two (2) connectors are included with all kits listed below.



800-765F	1"	FNPT Connector Kit	LMV-3	1
800-765P	1"	LegendPress® Connector Kit	LMV-3	1
800-765VC	1"	Iso Valve Comp Connector Kit	LMV-3	1
800-765VF	1"	Iso Valve FNPT Connector Kit	LMV-3	1
800-766M	1-1/4"	MNPT Connector Kit	LMV-3	1
800-766F	1-1/4"	FNPT Connector Kit	LMV-3	1
800-766S	1-1/4"	Sweat Connector Kit	LMV-3	1
800-766P	1-1/4"	LegendPress® Connector Kit	LMV-3	1
800-766VF	1-1/4"	Iso Valve FNPT Connector Kit	LMV-3	1

## Mixing Valve Actuator

Mixing Valve Actuators are compact and reliable, designed for use with the LMV-3 mixing valve. Two control options are available to utilize either the set-point or outdoor reset mixing strategies. It utilizes a knurled brass nut for easy connection to the 3-way valve and colored LED lights to visually indicate the actuator's movement and direction.



24V Floating Actuator – For use with the LMV-3 Mixing Valve. Must be paired with a controller that can provide a 24V output signal (sold separately).

800-761	Mixing Valve Actuator – 24V Floating	1
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Stand-Alone Actuators are designed for use with the LMV-3 Mixing Valve. They contain a built-in proportional-integral (PI) control that uses feedback from the pre-wired temperature probe (included) to control the 3-way mixing valve position for desired output temperature. No need to connect to a separate control box or system.

800-762	Mixing Valve Actuator - Stand Alone	1
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Available at: 888-470-2757



# AF-480 Auto-Fill With Backflow Preventer



The AF-480 reduces the make-up system's feed pressure to the lower operating pressure of the hydronic system.

The backflow preventer allows for safe connections between the two systems by preventing back-siphoning from the hydronic system into the potable water system. Setup is simple, using the built-in pressure gauge – which can be mounted to either side of the assembly – dial in the desired system pressure between 7 and 45 psi. The pressure reducing valve is fully serviceable with a removable filter cartridge for easy cleaning or replacement.

#### Key Features at a Glance:

- Built-in system pressure gauge
- Adjustable from 7 to 45 psi (pre-set at 12 psi)
- Fully serviceable with removable filter cartridge
- ASSE 1012 certified to meet local codes

	Part No.	Configuration	Qty.
<b>AF-480</b> <b>Auto-Fill with Backflow Preventer &amp; Pressure Gauge</b>	800-841	1/2" Auto-Fill with Backflow Preventer & Pressure Gauge - FNPT	1
	800-842	1/2" Auto-Fill with Pressure Gauge Only - FNPT	1
<b>P-459</b> <b>Backflow Preventer with Atmospheric Vent</b> Traditional forged brass Third-party tested and certified; ASSE 1012, CSA B64.3 175 psi @ 210°F	115-112	3/4" Press x Press	P-459 60/1

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# Switching Relays & Zone Controllers



The 6-Zone Switching Relay connects up to six thermostats and operates circulators to provide heating to a zoned hydronic heating system. Zone 1 has optional priority over zones 2 through 6 and can be used to provide heat to an indirect domestic hot water tank.

This controller includes optional exercising to prevent circulator seizure when not in use, and optional post purge operation of the last operating zone to maximize energy savings. The switching relay provides a RoomResponse™ signal to modulating-condensing boilers to optimize comfort while improving boiler efficiency.

**Key Features at a Glance:**

- Fuses protect transformers and pumps
- Compatible with all low voltage thermostats
- Top, bottom, and back conduit knockouts

Part No.	Configuration	Qty.
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## Switching Relay

**Switching Relay** – Connects thermostats and operates a circulator and boiler to provide heating to hydronic heating systems.



301P



304P

800-T301P	1 Zone Switching Relay*	1
800-T304P	4 Zone Switching Relay*	1
800-T306P	6 Zone Switching Relay*	1

3

## Zone Controller

**Zone Controller** – Connects up to four thermostats and operates zone valves to provide heating to zoned hydronic heating systems.



800-T304V	4 Zone Controller*	1
800-T306V	6 Zone Controller*	1

# Thermostats



The Programmable Thermostat is designed for three different modes of operation: single stage heating, two stages of heating with a fan, or one stage of heating and one stage of cooling with a fan. Two auxiliary sensors may be added to measure the floor, outdoor or room temperature.

A Slab Sensor can be used to measure floor temperature to protect the floor from overheating and enhance comfort. The programmable schedule supports either a 7 day or 24 hour schedule with 2 or 4 events per day. A permanent temperature hold button overrides the programmable schedule.

**Key Features at a Glance:**

- 7 Day Programmable Schedule
- Four Hour Battery-free Clock Backup
- Outdoor and Floor Temperature Display
- Permanent Temperature Hold

Part No.	Configuration	Qty.
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## 1-Stage Thermostat

**One-Stage Thermostat** – Accurately controls room temperature in hydronic heating systems using PWM technology. Simple buttons and large type make this easy to read and use.



800-T519-1	1 Stage Thermostat*	1
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## Programmable Thermostat

**Programmable Thermostat** – Designed for single stage heating, two stages of heating with a fan, or one stage of heating and one stage of cooling with a fan. Two auxiliary sensors may be added to measure the floor, outdoor or room temperature.



800-T521	Programmable Thermostat*	1
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## 1-Stage WiFi Thermostat

**One-Stage WiFi Thermostat** – Provides precise temperature control of a one stage heating system. When connected to the Internet, the time is automatically set and the local weather and outdoor temperature are displayed. A mobile app allows for remote control.



800-T561	1 Stage WiFi Thermostat*	1
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## 2-Stage WiFi Thermostat

**Two-Stage WiFi Thermostat** – Provides precise temperature control. The thermostat is designed to support radiant floor heating and optional floor sensors can be installed to enhance comfort and protect floor coverings. A mobile app allows for remote control.



800-T562	2 Stage WiFi Thermostat*	1
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Available at: 888-470-2757

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*\*Special order item. May be subject to different order terms & conditions.*

# Snow & Ice Melt (SIM) Controllers



The Snow Melting Controllers are designed to operate electric or hydronic equipment to melt snow or ice from any surface including driveways, walkways, patios, business entrances, parking ramps, loading docks, and more. The surface temperature for snow melting is controlled automatically to reduce operating energy costs.

An automatic start and stop function when used with Snow & Ice Sensors. Automatic start with a timed stop is available when used with the Aerial Snow Sensor. This SIM Controller can operate a dedicated hydronic boiler or a mixing device. Isolation relays are required to operate line voltage pumps.

**Key Features at a Glance:**

- Automatic Snow / Ice Detection
- Supports Both Inslab & Retrofit Aerial Sensors
- Programmable Schedule

Part No.	Configuration	Qty.
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## Snow Melting Controller

**Snow Melting Controller** – Designed to operate electric or hydronic equipment to melt snow or ice from any surface including driveways, walkways, patios, business entrances, parking ramps, loading docks, and more. Controlled automatically to reduce operating energy costs.



800-T654	Snow Melting Controller*	1
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## Snow & Ice Sensors

**Snow & Ice Sensors** – Automatically detects snow or ice on a driveway or walkway. The Snow & Ice Sensor is an in ground sensor used with snow melting controls to automatically detect snow or ice on a driveway or walkway.



T-090



T-091



T-095

800-T090	Snow & Ice Sensor*	1
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800-T091	Snow & Ice Sensor Socket*	1
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800-T095	Aerial Mounted Snow Sensor*	1
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## Slab Sensors

**Slab Sensors** – Designed to measure temperature in outside snow melting slabs. Features an HDPE sleeve to allow use in conduits, soils, concrete, and direct burial.



800-T072	Slab Sensor; 20 ft*	1
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800-T073	Slab Sensor; 40 ft*	1
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Available at: 888-470-2757  
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*\*Special order item. May be subject to different order terms & conditions.*

# Mixing Controllers



The Floating Actino Mixing Controller is designed to operate a mixing valve using Outdoor Temperature Reset. It can be used in applications ranging from in-floor radiant to commercial baseboard systems for Boiler Return Protection with full reset. This control regulates a single heating water temperature through Mixing Outdoor Reset. It controls the mixing by opening or closing a floating action type mixing valve actuator (3 or 4 way valves), and also provides control of the mix system pump.

**Key Features at a Glance:**

- Quick setup for easy installation and programming of control
- Test sequence to ensure proper component operation
- Advanced settings to fine-tune building requirements
- Powered mixing system pump output

	Part No.	Configuration	Qty.
<p><b>Floating Action Mixing Controller</b></p>	800-T360	Mixing Control 360, Floating*	1
<p><b>Set-Point Mixing Controller</b></p>	800-T150	Set-Point Control 150, 1 Stage*	1
<p><b>Floating Set-Point Mixing Controller</b></p>	800-T153	Set-Point Control 153, Floating*	1

**Floating Action Mixing Control** – An outdoor reset control designed to operate a 24 V (ac) floating action 2, 3, or 4-way valve.

**Set-Point Mixing Controller** – A controller with a digital display and a remote sensor. Pulse width modulation control logic is provided for slow responding systems.

**Floating Set-Point Mixing Controller** – A controller with a floating action output intended to operate an actuating motor for valves or dampers. Used for heating applications to maintain a set supply water or air temperature.

Available at: 888-470-2757



*\*Special order item. May be subject to different order terms & conditions.*

# Heat Exchangers

Legend's HX Series brazed plate heat exchangers are built with acid-resistant stainless steel plates that feature a herringbone ridge pattern. The plates are arranged so that the ridges create complex flow paths and vigorous turbulence, ensuring the media can achieve maximum heat transfer and efficiently exchange heat energy. The HX Series is built with media compatibility in mind, making them an excellent choice for virtually any application.

### HX Heat Exchangers:

These heat exchangers are built with acid-resistant brazed stainless steel plates and use MNPT connections.

### HX-DW Double-Wall Heat Exchangers:

These heat exchangers use double-walled plates for extra-safe separation of the heating system fluid and potable water, which is often required by code. This separation has the added benefit of internal leak detection.



### Media Compatibility:

- Water
- Oil
- Organic Solvents
- Antifreeze Solutions
- Glycol Mixtures
- Alcohols

### Applications:

- Hydronic Heating and Cooling; such as radiant flooring and snow melt.
- Domestic Water Heating
- Industrial Fluid Processing
- Solar and Geothermal

Part No.	Size	Configuration	Model No.	Qty.
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## Heat Exchanger

**HX Series Heat Exchangers** – 5" x 12" brazed plate heat exchanger (BPHE) with MNPT connections and acid-resistant stainless steel plates.



807-001	3/4"	10 Plate; 50M BTU/H	HX-100	1
807-071	1"	10 Plate; 50M BTU/H	HX-100	1
807-002	3/4"	20 Plate; 100M BTU/H	HX-200	1
807-072	1"	20 Plate; 100M BTU/H	HX-200	1
807-003	3/4"	30 Plate; 150M BTU/H	HX-300	1
807-073	1"	30 Plate; 150M BTU/H	HX-300	1

**HX-B Series Compact Heat Exchangers** – 3" x 7-1/2" compact size brazed plate heat exchanger (BPHE) with 3/4" MNPT connections and acid-resistant stainless steel plates.

807-031	3/4"	10 Plate; 40M BTU/H	HX-100B	1
807-032	3/4"	16 Plate; 70M BTU/H	HX-160B	1
807-033	3/4"	20 Plate; 90M BTU/H	HX-200B	1

## Double Wall Heat Exchanger

**HX-DW Series Double Wall Heat Exchangers**



807-004	3/4"	14 Plate	HX-140DW	1
807-005	3/4"	38 Plate	HX-380DW	1

**HX-BDW Series Compact Double Wall Heat Exchangers**

807-034	3/4"	14 Plate	HX-140BDW	1
807-035	3/4"	20 Plate	HX-200BDW	1
807-036	3/4"	24 Plate	HX-240BDW	1

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# Zone Valves



Zone Valves LZV-2 and LZV-3 series motorized valves are used to control flow in chilled or hot water systems and low pressure steam systems up to 15 psi. The valve is driven by a hysteresis synchronous motor with spring return.

#### Key Features at a Glance:

- Suitable for heating/cooling or low pressure steam systems
- Long life synchronous motor
- Stainless steel shaft with EPDM ball and seals
- Can be used on applications with high make up water
- Locking connection between valve body and actuator
- High differential pressure close-off, low noise

Part No.	Size	Configuration	Model No.	Qty.
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## LZV-2 Way Zone Valve

LZV-2 Series Motorized Valve – 2-way zone valve, normally closed, solder connection.



800-703	1/2"	With End Switch, 3.8 CV Factor	LZV-2	1
800-704NE	3/4"	Without End Switch, 5.4 CV Factor	LZV-2	1
800-704	3/4"	With End Switch, 5.4 CV Factor	LZV-2	1
800-705	1"	With End Switch, 8.0 CV Factor	LZV-2	1
800-706	1-1/4"	Without End Switch, 5.4 CV Factor	LZV-2	1
800-709		Replacement 4-Wire Actuator		1

LZV-2 Series Motorized Valve – 2-way zone valve, normally open, solder connection.

800-710NE	3/4"	Without End Switch, 5.4 CV Factor	LZV-2	1
800-710		Normally Open Actuator		1

## LZV-3 Way Zone Valve

LZV-3 Series Motorized Valve – 3-way zone valve, solder connection.



800-713	1/2"	3.8 CV Factor	LZV-3	1
800-714	3/4"	5.4 CV Factor	LZV-3	1
800-715	1"	6.7 CV Factor	LZV-3	1
800-716	1-1/4"	9.8 CV Factor	LZV-3	1
800-719		Replacement 2-Wire Actuator		1

Available at: 888-470-2757

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# Gauges



**Key Features at a Glance:**

- Adjustable reference temperature
- 0-75 psi
- 0-170 feet of head
- 40-200°F range option optimized for hydronic heating and cooling applications
- 60-280°F temperature range standard option

Part No.	Size	Range	Configuration	Qty.
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**T-825  
Rear Mount Gauge**

T-825 Rear Mount Temperature and Pressure Gauge



800-662	1/4"	40-200° F	MNPT	1
800-663	1/2"	40-200° F	MNPT	1
800-673	1/2"	60-280° F	MNPT	1

**T-825  
Bottom Mount Gauge**

T-825 Bottom Mount Temperature and Pressure Gauge



800-664	1/4"	40-200° F	MNPT	1
800-665	1/2"	40-200° F	MNPT	1
800-675	1/2"	60-280° F	MNPT	1

**T-825  
Rear Mount Extended  
Probe Gauge**

T-825 Rear Mount Extended Probe Temperature and Pressure Gauge



800-683	1/2" x 3" Probe	60-280° F	MNPT	1
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**T-825  
Bottom Mount Extended  
Probe Gauge**

T-825 Bottom Mount Extended Probe Temperature and Pressure Gauge



800-684	1/2" x 3" Probe	60-280° F	MNPT	1
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Available at: 888-470-2757



	Part No.	Size	Range	Configuration	Qty.
<b>T-825</b> <b>Temperature and Pressure Gauge</b> <b>Rear Mount Gauge</b> 	T-825 Rear Mount Temperature and Pressure Gauge – 2-1/2" gauge ideal for boiler replacements				
	800-692	1/4"	60–280° F	MNPT	1
	800-693	1/2"	60–280° F	MNPT	1

## T-820 Test Gauges

**T-820**  
**Air Pressure Tester Side Mount**


T-820 Air Pressure Tester, Side Mount – 0-100 psi, built in Schraeder valve.

800-669	3/4"	0-100 psi	FNPT Tester	1
800-668	1"	0-100 psi	MNPT Tester	1

**T-820**  
**Air Pressure Tester Gauge**  
**End Mount**


T-820 Air Pressure Tester – end mount style is great for low profile applications. 1" thread MNPT allows direct connection to manifold, 0-100 psi, built in Schraeder valve.

800-667	1"	0-100 psi	MNPT	1
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**T-820**  
**Water Pressure Tester**


T-820 Water Pressure Tester – garden hose thread connection to allow for easy plumbing system pressure testing, 0-200 psi.

800-660	3/4"	0-100 psi	GHT	1
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**Temperature Gauge**  
**with Thermowell**


Temperature Gauge with Thermowell – 1" probe, 60°F - 280°F. Temperature gauge is easily removable without loss of system pressure.

800-653	2" x 1" Probe		1/2" MNPT	1
800-652	3" x 1" Probe		1/2" MNPT	1
800-655	2" x 1" Probe		3/4" Sweat	1
800-654	3" x 1" Probe		3/4" Sweat	1

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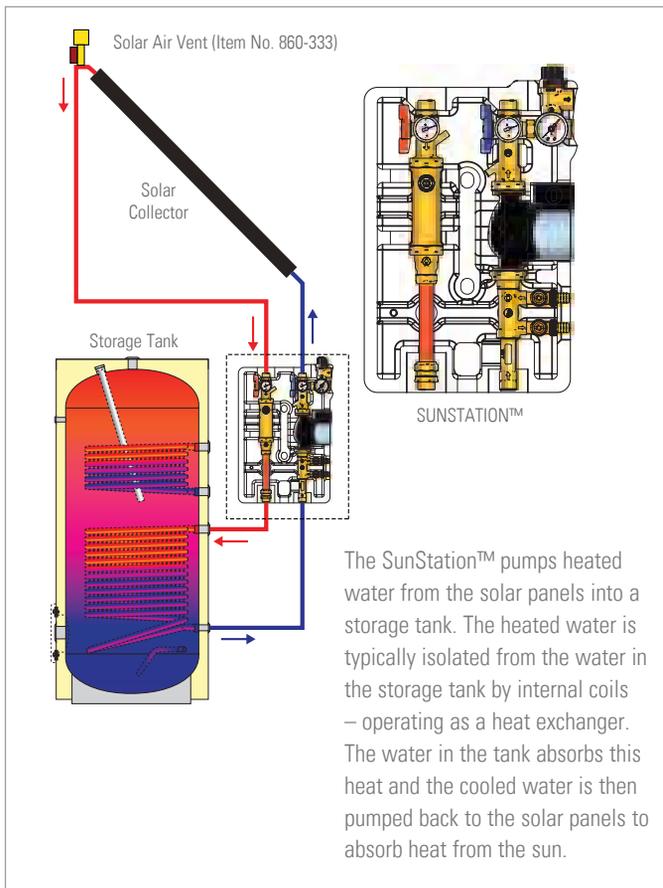
# SUNSTATION™

The SP-20 SunStation™ Pump System is a state of the art solar thermal pumping station.

The heart of any solar thermal heating system is its pump system, and SunStation's compact and lightweight design makes it easy to install and maintain. The insulated shell ensures effective thermal insulation, easy access and an attractive appearance. Proven for many years in European applications, the cost-effective SunStation Pump includes a flow gauge, fill & purge valves, circulator, balancing valve, supply & return isolation valves with built-in checks, manual air vent, supply & return temperature gauges, and a pressure gauge and pressure relief valve with drain ports.

### Key Features at a Glance:

- Isolation valves with integrated thermometers
- 2 piece insulation shell included
- Electronic control unit (sold separately)
- Built-in flow meter
- Fill and purge valves
- Pressure relief with drain port



The SP-20 Unit provides automatic control of the solar pumping station. The unit monitors temperature sensors mounted on the solar panels and in the storage tank. When the solar panel temperature is greater than the storage tank, the pump operates, heating the water in the tank. At night or in cold conditions the pump remains off, preserving the heat accumulated in the tank. The controller also logs operating parameters providing information on the amount of energy saved and collected over time.



	Part No.	Size	Configuration	Qty.
<h2>SunStation™ Compact Solar Pumping Station</h2>  <p>SP-20 Dual Line Solar Pump</p>	Includes flow gauge, fill & purge valves, circulator, balancing valve, supply & return isolation valves with built-in check, manual air vent, supply & return temperature gauges, pressure gauge and pressure relief valve with drain port.			
	860-020		Compact Solar Pumping Station	1
<h2>SP-20 SunStation™ Connection Kit</h2> 	Contains 6 adapters for panel supply & return, tank supply/return, expansion tank, and overpressure blow-off.			
	860-023	1/2"	Comp Connector Kit	1
	860-024	3/4"	Comp Connector Kit	1
	860-025	1"	Comp Connector Kit	1
<h2>SP-20 SunStation™ Electronic Control Unit</h2>  <p>SP-20 Electronic Control Unit</p>	The SP-20 Electronic Control provides automatic control of the SP-20 SunStation™.			
	860-100		Electronic Control Unit	1
<h2>Solar Air Vent and Valve Kit</h2>  <p>Solar Air Vent and Valve Kit</p>	High temperature (356° F) and high capacity air vent for solar applications. Includes isolation ball valve for servicing air vent.			
	860-333		Solar Air Vent and Valve Kit	1

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3

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# MECHPanels™



Designed and manufactured to fit your project specifications.

The Legend Hydronic MechPanels™ are assembled and tested in our factory and shipped direct to the project ready for installation. All Legend Hydronic MechPanels™ are temperature and pressure tested to ensure leak free, quality connections. All wiring and electrical connections & circuits are also 100% tested. Why spend unnecessary time at the jobsite when you can simply hang the MechPanel™ on the wall, make the major connections, commission the project and leave. The Legend Hydronic MechPanels™ will save you time and money.

Service manual include: wiring and piping schematics, equipment specifications, unpacking, installation, and operation instructions. Our MechPanels™ offer a “just right” solution for every project no matter the scale.

#### Key Features at a Glance:

- Zone Distribution – with circulators and/or valves
- Primary Piping - heating/cooling source included
- Residential projects
- Commercial Skids – snow & ice melt systems
- Controls included and pre-wired





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# HEATING SPECIALTY SYSTEMS

Legend offers a comprehensive array of high-quality valves for plumbing, commercial, industrial, and radiant heating applications; all backed by our performance and service guarantees.

<b>Radiator Valves</b> .....	70	<b>Air Vents</b> .....	74
T-431 Steam, Angle.....	70	T-60, T-60A, T-61, T-63, T-65 Steam Air Vents.....	74
T-431YB Steam, Angle .....	70	T-90, T-90A, T-91, T-93, T-95 Economy Steam Air Vents.....	75
T/S-437 Hot Water, Angle.....	70	T-70 Automatic Hot Water Air Vent.....	75
T-435 Radiator Gate .....	71	T-70H High-Capacity Automatic Air Vent .	75
T-435YB Radiator Gate.....	71	T-73 Automatic Air Vent.....	75
T-433 Steam Angle.....	71	T-75 Manually Adjustable Air Vent.....	75
T-433YB Convector Steam Angle .....	71	T-77 Coin Key Air Vent .....	76
T/S-438 Union Elbow.....	71	T-80 Air Purger.....	76
S-439 Balancing Valve.....	72	<b>Carbon Steel Boiler Manifold Headers</b> .....	76
T/S-425 Circulator, 1/4-Turn Straight .....	72	2 Zone Manifold Header.....	76
<b>Specialty Tees</b> .....	72	3 Zone Manifold Header.....	76
T-570NL Mono-Flow Tees .....	72	4 Zone Manifold Header.....	76
T-569 Venturi Tees .....	72	5 Zone Manifold Header.....	77
S-464 Purge & Balancing Valve.....	73	6 Zone Manifold Header.....	77
Replacement Radiator Valve Handle.....	73	<b>VersaTherm® &amp; QuickTherm® Material Worksheet</b> .....	78
<b>Isolation Ball Valves</b> .....	73		
T/S-1002FLG, Flange .....	73		
T/S-2011RFLG, P-2011, Rotating Flange...	73		
T/S-2012RFLG, Rotating Flange & Purge..	74		
<b>Oil Tank Valves</b> .....	74		
T-565, T-566.....	74		

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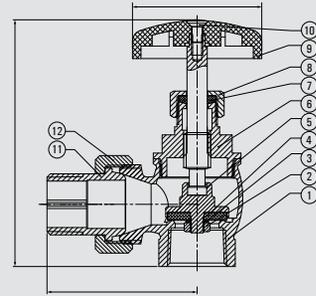


# Radiator Valves



The T-431 Steam Angle Radiator Valve features a sturdy body made from cast bronze. The large screwed bonnet supports the rising stem and EPDM composition disc.

This valve features a phenolic resin hand wheel, which insulates and protects the operator's hand from burns. The male-union spud nipple makes this an ideal connection for steam radiators.



Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>T-431</b> <b>Steam Angle Radiator Valve</b> Cast bronze 15 WSP	110-103	1/2"	FNPT x MNPT	T-431	60/10
	110-104	3/4"	FNPT x MNPT	T-431	48/8
	110-105	1"	FNPT x MNPT	T-431	36/6
	110-106	1-1/4"	FNPT x MNPT	T-431	24/4
	110-107	1-1/2"	FNPT x MNPT	T-431	18/3
	110-108	2"	FNPT x MNPT	T-431	12/2
	<b>T-431YB</b> <b>Steam Angle Radiator Valve</b> Yellow brass 15 WSP	110-143	1/2"	FNPT x MNPT	T-431YB
110-147		3/4"	FNPT x MNPT	T-431YB	48/8
110-148		1"	FNPT x MNPT	T-431YB	36/6
110-149		1-1/4"	FNPT x MNPT	T-431YB	24/4
110-150		1-1/2"	FNPT x MNPT	T-431YB	16/1
110-151		2"	FNPT x MNPT	T-431YB	12/1
<b>T-437 / S-437</b> <b>Hot Water Angle Vave</b> Forged brass 60 psi		110-113	1/2"	FNPT x MNPT	T-437
	110-114	3/4"	FNPT x MNPT	T-437	60/10
	110-115	1"	FNPT x MNPT	T-437*	36/6
	110-116	1-1/4"	FNPT x MNPT	T-437*	24/4
	110-117	1-1/2"	FNPT x MNPT	T-437*	18/3
	110-123	1/2"	Sweat x MNPT	S-437	60/10
	110-124	3/4"	Sweat x MNPT	S-437	60/10
	S-437 T-437				

\* 1", 1-1/4" & 1-1/2" T-437 are steam angle valves drilled for hot water use.

Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>T-435</b> <b>Radiator Gate Valve</b> Cast bronze 200 CWP 125 WSP	110-133	1/2"	FNPT x MNPT	T-435	60/10
	110-134	3/4"	FNPT x MNPT	T-435	48/8
	110-135	1"	FNPT x MNPT	T-435	36/6
	110-136	1-1/4"	FNPT x MNPT	T-435	24/4
	110-137	1-1/2"	FNPT x MNPT	T-435	18/3
	<b>T-435YB</b>		Yellow Brass		
	110-243	1/2"	FNPT x MNPT	T-435YB	60/10
	110-244	3/4"	FNPT x MNPT	T-435YB	48/8
	110-245	1"	FNPT x MNPT	T-435YB	36/6
	110-246	1-1/4"	FNPT x MNPT	T-435YB	24/4
110-247	1-1/2"	FNPT x MNPT	T-435YB	18/3	
	<b>T-433</b>				
	110-145	1"	FNPT	T-433	36/6
<b>Convector Steam Angle Valve</b> Cast bronze 15 WSP	110-146	1-1/4"	FNPT	T-433	24/4
					
<b>T-433YB</b> <b>Convector Steam Angle Valve</b> Yellow brass 15 WSP	<b>Yellow Brass</b>				
	110-125	1"	FNPT	T-433YB	36/6
	110-126	1-1/4"	FNPT	T-433YB	24/4
					
<b>T-438 / S-438</b> <b>Union Elbow</b> Cast bronze 15 WSP 60 psi	110-163	1/2"	FNPT	T-438	150/10
	110-164	3/4"	FNPT	T-438	100/10
	110-168	1"	FNPT	T-438	60/10
	110-169	1-1/4"	FNPT	T-438	48/8
	110-165	1/2"	Sweat	S-438	150/10
	110-166	3/4"	Sweat	S-438	100/10
 					
					

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Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
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**S-439**  
**Balancing Valve**

Forged brass  
400 CWP  
150 WSP



Ball valve with screwdriver slot: 100% shut-off.

110-153	1/2"	Sweat x Sweat	S-439	120/10
110-154	3/4"	Sweat x Sweat	S-439	90/10
110-155	1"	Sweat x Sweat	S-439	60/6

**T-425 / S-425**  
**Straight 1/4-Turn Circulator Valve**

Cast bronze  
400 CWP  
150 WSP



110-213	1/2"	FNPT x MNPT	T-425	12/1
110-214	3/4"	FNPT x MNPT	T-425	48/8
110-217	1/2"	Sweat x MNPT	S-425	72/12
110-218	3/4"	Sweat x MNPT	S-425	48/8

Specialty Tees

**T-570NL**  
**Mono-Flow Tees**

Cast brass



302-203	3/4" x 1/2"	Sweat x Sweat	T-570	150/25
302-203NL	3/4" x 1/2"	Sweat x Sweat	T-570NL	150/25
302-204	1" x 1/2"	Sweat x Sweat	T-570	60/10
302-204NL	1" x 1/2"	Sweat x Sweat	T-570NL	60/10
302-205	1" x 3/4"	Sweat x Sweat	T-570	60/10
302-205NL	1" x 3/4"	Sweat x Sweat	T-570NL	60/10
302-206	1-1/4" x 1/2"	Sweat x Sweat	T-570	40/10
302-206NL	1-1/4" x 1/2"	Sweat x Sweat	T-570NL	40/10
302-207	1-1/4" x 3/4"	Sweat x Sweat	T-570	40/10
302-207NL	1-1/4" x 3/4"	Sweat x Sweat	T-570NL	40/10

**T-569**  
**Venturi Tees**

Cast brass



302-213	3/4" x 1/2"	Sweat x Sweat	T-569	150/25
302-214	1" x 1/2"	Sweat x Sweat	T-569	60/10
302-215	1" x 3/4"	Sweat x Sweat	T-569	60/10
302-216	1-1/4" x 1/2"	Sweat x Sweat	T-569	10/1
302-217	1-1/4" x 3/4"	Sweat x Sweat	T-569	40/10

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Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>S-464</b> <b>Purge &amp; Balancing Valve</b> Cast bronze 80 CWP	110-404	3/4"	Sweat x Sweat	S-464	108/18
	110-405	1"	Sweat x Sweat	S-464	72/12
	110-406	1-1/4"	Sweat x Sweat	S-464	60/10



**Replacement Radiator Valve Handle**

110-170	Replacement Handle*	100/1
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\*Fits all sizes of multi-turn radiator valves.

Isolation Ball Valves

**T-1002FLG / S-1002FLG**  
**Isolation Ball Valve Flanged**

Forged brass  
600 CWP  
Bolt set included



101-074	3/4"	FNPT x Flange	T-1002FLG	36/6
101-075	1"	FNPT x Flange	T-1002FLG	32/4
101-076	1-1/4"	FNPT x Flange	T-1002FLG	24/4
101-094	3/4"	Sweat x Flange	S-1002FLG	36/6
101-095	1"	Sweat x Flange	S-1002FLG	32/4
101-096	1-1/4"	Sweat x Flange	S-1002FLG	24/4

**T-2011RFLG / S-2011RFLG**  
**P-2011**  
**Isolation Ball Valve, Rotating Flange**

Forged brass  
600 CWP  
Bolt set included



101-274	3/4"	FNPT x Flange	T-2011RFLG	24/1
101-275	1"	FNPT x Flange	T-2011RFLG	18/1
101-276	1-1/4"	FNPT x Flange	T-2011RFLG	12/1
101-294	3/4"	Sweat x Flange	S-2011RFLG	24/1
101-295	1"	Sweat x Flange	S-2011RFLG	18/1
101-296	1-1/4"	Sweat x Flange	S-2011RFLG	12/1
<b>LegendPress® Isolation Valve</b>				
101-284	3/4"	Press x Flange	P-2011	24/1
101-285	1"	Press x Flange	P-2011	18/1
101-286	1-1/4"	Press x Flange	P-2011	12/1

Rotating flange for greater installation ease.

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Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>T-2012RFLG / S-2012RFLG</b> <b>Isolation Ball Valve, Rotating Flange &amp; Purge</b> Forged brass 600 CWVP Bolt set included	101-174	3/4"	FNPT x Flange	T-2012RFLG	24/1
	101-175	1"	FNPT x Flange	T-2012RFLG	18/1
	101-176	1-1/4"	FNPT x Flange	T-2012RFLG	12/1
	101-194	3/4"	Sweat x Flange	S-2012RFLG	24/1
	101-195	1"	Sweat x Flange	S-2012RFLG	18/1
	101-196	1-1/4"	Sweat x Flange	S-2012RFLG	12/1



*Rotating flange for greater installation ease. Purge feature saves system downtime.*

**T-565 / T-566**  
**1/4-Turn Oil Tank Valve**



Ball Type	Part No.	Size	Configuration	Model No.	Cs/Ct
	111-205	1/2" x 3/8"	MNPT x MNPT	T-565	72/12
	111-206	1/2" x 3/8"	MNPT x Flare	T-566*	72/12

*\*Includes flare nut.*

Air Vents

**Chrome Plated Steam**  
**Air Vents**  
**T-60 / T-60A / T-61 / T-63 / T-65**

Chrome plated brass  
 ANSI / ASME B1.20.1  
 WSP 10 psi



Angle	Part No.	Size	Configuration	Model No.	Cs/Ct
	110-301	1/8"	MNPT	T-60	72/12
Adjustable	110-305	1/8"	MNPT	T-60A	72/12
Straight	110-302	1/8"	MNPT	T-61	72/12
	110-303	1/4"	MNPT	T-63	72/12
	110-304	3/4" x 1/2"	MNPT x FNPT	T-65	72/12

Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
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**Economy Chrome Plated Steam Air Vents**  
**T-90 / T-90A / T-91 / T-93 / T-95**

Chrome plated brass  
 ANSI / ASME B1.20.1  
 WSP 10 psi



Angle	110-321	1/8"	MNPT	T-90	144/12
Adjustable	110-325	1/8"	MNPT	T-90A	144/12
Straight	110-322	1/8"	MNPT	T-91	144/12
T-93	110-323	1/4"	MNPT	T-93	144/12
T-95	110-324	3/4" x 1/2"	MNPT x FNPT	T-95	144/12

**T-70**  
**Automatic Hot Water Air Vent**

Forged brass  
 200 psi, max temp 200°F



110-331	1/8"	MNPT	T-70	100/10
110-332	1/4"	MNPT	T-70	100/10

**T-70H**  
**High-Capacity Auto Air Vent**

Forged brass  
 100 psi, max temp 248°F



110-333	3/8"	MNPT	T-70H	50/1
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**T-73**  
**Automatic Air Vent**

Forged brass  
 125 psi, max temp 240°F  
 10 WSP



110-350	1/8"	MNPT	T-73	500/50
110-351	1/4"	MNPT	T-73	500/50

**T-75**  
**Manually Adjustable Air Vent**

100 psi, max temp 200°F



110-337	1/8"	MNPT	T-75	1000/50
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Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>T-77</b> <b>Coin Key Air Vent</b> Chrome plated brass 125 PSI, max temp 200°F	110-338	1/8"	MNPT	T-77	1000/100
	Key for T-77 110-340		Key	T-77	2500/500
<b>T-80</b> <b>Air Purger</b> Cast iron 125 PSI, max temp 275°F	110-345	1"	FNPT	T-80	15/1
	110-346	1-1/4"	FNPT	T-80	15/1
	110-347	1-1/2"	FNPT	T-80	6/1
	110-348	2"	FNPT	T-80	1/1



Carbon Steel Boiler Manifold Headers

<b>2-Zone</b> <b>Carbon Steel Boiler</b> <b>Manifold Header</b> Forged carbon steel ANSI / ASME B1.20.1	355-392	1" x 3/4"	2-Zone	Manifold	16/1
	355-402	1-1/4" x 3/4"	2-Zone	Manifold	16/1
	355-412	1-1/4" x 1"	2-Zone	Manifold	16/1
	355-422	1-1/2" x 3/4"	2-Zone	Manifold	16/1
	355-432	1-1/2" x 1"	2-Zone	Manifold	16/1
<b>3-Zone</b> <b>Carbon Steel Boiler</b> <b>Manifold Header</b> Forged carbon steel ANSI / ASME B1.20.1	355-393	1" x 3/4"	3-Zone	Manifold	8/1
	355-403	1-1/4" x 3/4"	3-Zone	Manifold	8/1
	355-413	1-1/4" x 1"	3-Zone	Manifold	12/1
	355-423	1-1/2" x 3/4"	3-Zone	Manifold	8/1
	355-433	1-1/2" x 1"	3-Zone	Manifold	12/1
<b>4-Zone</b> <b>Carbon Steel Boiler</b> <b>Manifold Header</b> Forged carbon steel ANSI / ASME B1.20.1	355-394	1" x 3/4"	4-Zone	Manifold	9/1
	355-404	1-1/4" x 3/4"	4-Zone	Manifold	9/1
	355-414	1-1/4" x 1"	4-Zone	Manifold	9/1
	355-424	1-1/2" x 3/4"	4-Zone	Manifold	9/1
	355-434	1-1/2" x 1"	4-Zone	Manifold	9/1
	355-442	1-1/4" x (3) 3/4" & (1) 1"	4-Zone	Manifold	9/1



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Certifications	Part No.	Size	Configuration	Model No.	Cs/Ct
<b>5-Zone Carbon Steel Boiler Manifold Header</b> Forged carbon steel ANSI / ASME B1.20.1	355-405	1-1/4" x 3/4"	5-Zone	Manifold	5/1
	355-415	1-1/4" x 1"	5-Zone	Manifold	5/1
	355-425	1-1/2" x 3/4"	5-Zone	Manifold	5/1
	355-435	1-1/2" x 1"	5-Zone	Manifold	5/1



<b>6-Zone Carbon Steel Boiler Manifold Header</b> Forged carbon steel ANSI / ASME B1.20.1	355-406	1-1/4" x 3/4"	6-Zone	Manifold	5/1
	355-416	1-1/4" x 1"	6-Zone	Manifold	5/1
	355-426	1-1/2" x 3/4"	6-Zone	Manifold	4/1
	355-436	1-1/2" x 1"	6-Zone	Manifold	4/1



## LEGENDARY 5/25 PRODUCT WARRANTY

Our Legenday 5/25 Product Warranty replaces any valve proven to be defective within five years of installation. We also reimburse the installing contractor \$25.00 to offset labor costs.

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# VersaTherm® & QuickTherm® Materials Worksheet

## Main Panels (VT-MP)

Panel Size = 31-1/2 in. x 15-3/4 in. = (496) 3.44 ft<sup>2</sup> (10 panels per box)



Use to calculate number of panels:

$$\frac{\text{Project square footage}}{\text{Panel Size}} \times 0.233 = \text{Number of main panels needed} \quad (\text{Round Up})$$

**EXAMPLE:** 400 ft<sup>2</sup> x 0.233 = 93.2 or (94) panels.

Use to calculate number of cases:

$$\frac{\text{Number of main panels needed}}{\text{Panels per case}} \div 10 = \text{Number of cases needed} \quad (\text{Round Up})$$

**EXAMPLE:** 94 panels ÷ 10 = 9.4 or (10) cases.

## Return Panels (VT-RP)

Panel Size = 15-3/4 in. x 15-3/4 in. = (248) 1.72 ft<sup>2</sup> (20 panels per box)



Use to calculate number of panels:

$$\frac{\text{Project square footage}}{\text{Panel Size}} \times 0.117 = \text{Number of main panels needed} \quad (\text{Round Up})$$

**EXAMPLE:** 400 ft<sup>2</sup> x 0.117 = 46.8 or (47) panels.

Use to calculate number of cases:

$$\frac{\text{Number of main panels needed}}{\text{Panels per case}} \div 20 = \text{Number of cases needed} \quad (\text{Round Up})$$

**EXAMPLE:** 47 panels ÷ 20 = 2.35 or (3) cases.

Notes: The project square footage includes only the area of the room or project space that is to be covered by tubing. Do not include areas under cabinets or any areas that will not receive tubing.

**PROJECT DESIGN IS HIGHLY RECOMMENDED WITH VERSATHERM.**

## QuickTherm®

QT100 (1") Panel Size = 2' x 4' = 8 ft<sup>2</sup> (18 panels per bundle)

QT200 (2") Panel Size = 2' x 4' = 8 ft<sup>2</sup> (10 panels per bundle)



Use to calculate number of panels:

$$\frac{\text{Project square footage}}{\text{Panel Size}} \div 8 = \text{Number of QT panels needed} \quad (\text{Round Up})$$

**EXAMPLE:** 3,500 ft<sup>2</sup> ÷ 8 = 437.5 or (438) panels.

Use to calculate number of bundles:

$$\frac{\text{Number of QT panels needed}}{\text{Panels per bundle}} \div (18 \text{ or } 10) = \text{Number of bundles needed} \quad (\text{Round Up})$$

**EXAMPLE:** 438 panels ÷ 10 (QT 200) = 43.8 or (44) bundles.



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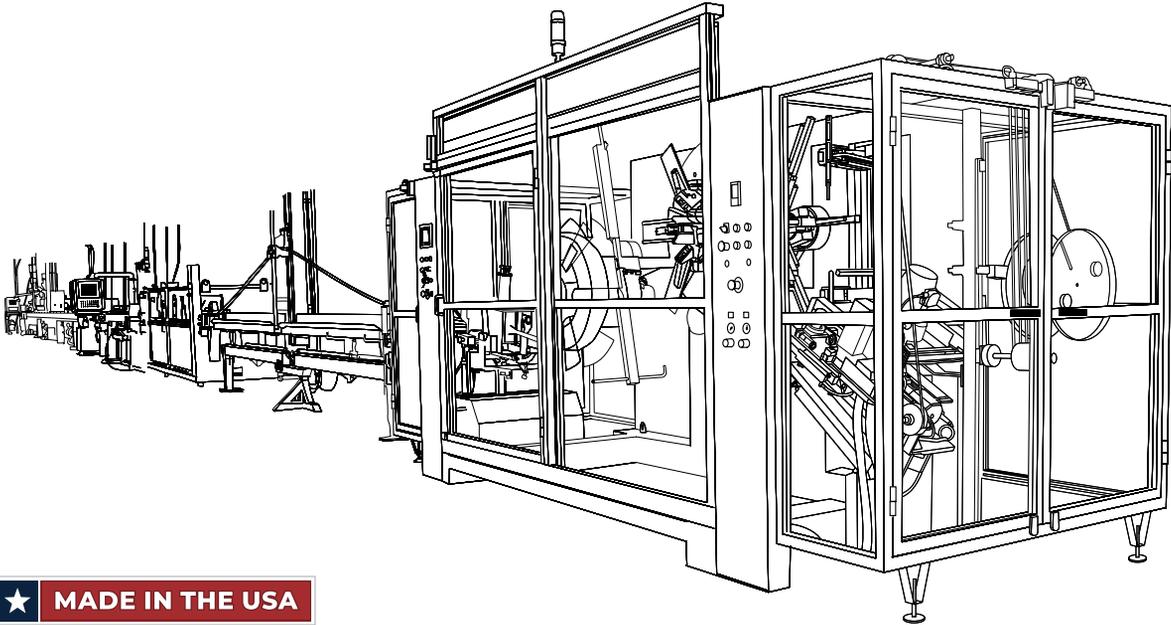


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