



A1180313



A2610100



A2610100



A2610200



A2620015

Wirsbo Radiant Heating System

Code#	Description	Model#
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WIRSBO hePEX® Barrier Tube

Cross Linked Polyethylene Heat Transfer tubing with EVOH Oxygen Diffusion Barrier

413-0150	5/16" Nominal hePEX: 250 ft Coil	A1180313
413-0152	5/16" Nominal hePEX: 1000 ft Coil	A1220313
413-0170	3/8" Nominal hePEX: 400 ft Coil	A1210375
413-0175	3/8" Nominal hePEX: 1000 ft Coil	A1220375
413-0180	1/2" Nominal hePEX: 300 ft Coil	A1250500
413-0220	1/2" Nominal hePEX: 1000 ft Coil	A1220500
413-0245	5/8" Nominal hePEX: 300 ft Coil	A1250625
413-0246	5/8" Nominal hePEX: 1000 ft Coil	A1220625
413-0250	3/4" Nominal hePEX: 300 ft Coil	A1250750
413-0260	1" Nominal hePEX: 300 ft Coil	A1251000

TruFlow™ Manifold System

TruFlow™ Radiant Manifolds are extruded brass, completely assembled and mounted on a durable bracket with a basic end cap on the supply and an end cap with vent and drain on the return. The inlet side of the manifold is equipped with R32 unions to fit any manifold adapter. The supply manifold body features calibrated balancing valves and the return manifold comes with on/off valve for Wirsbo Actuator or MVA to be used.

413-0342	2 Loop	A2610200
413-0343	3 Loop	A2610300
413-0344	4 Loop	A2610400
413-0345	5 Loop	A2610500
413-0346	6 Loop	A2610600
413-0347	7 Loop	A2610700
413-0448	8 Loop	A2610800

TruFlow™ Manifold Extension Kit without Manifold

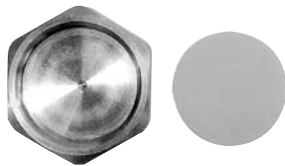
413-0356	Classic Manifold Extension Kit, 2 loops	A2610100
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TruFLOW™ Electric Flow / Temperature Meter

413-0351	Nipple 0.15 - 1.3 gpm	A2620015
413-0352	Nipple 0.37 - 2.00 gpm	A2620027



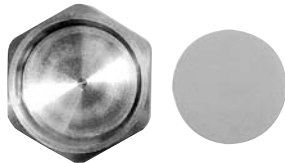
A2803250



A2080032



A2123210



A2080020



A4143210



Q4143210

Code#	Description	Model#
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End Cap with Vent

413-0390	1-1/4" Service End Cap with Drain Valve, Manual Vent and Gasket	A2803250
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Basic End Cap

Basic End Cap caps the end of the TruFLOW Jr. Modular Manifolds. Required gaskets and o-rings are included.

413-0400	1-1/4" Basic End Cap with Gasket	A2080032
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Basic End Cap Gasket with Gasket

413-0430	End Cap Gasket, R32	A2400032
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Threaded Brass Manifold Adapter and Bushing

413-0420	Manifold Bushing use to transition 1-1/4" manifold union nut to 1" NPT female thread.	A2123210
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End Cap Gasket with Gasket

Brass Manifold Loop End Cap closes off unused QS20 loop connections.

413-0900	3/4" Loop Outlet End Cap with Gasket	A2080020
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Brass Manifold Combination Adapter/Fitting Adapter

413-0902	R32 x 3/4" CU Adapter 1 CU Ftg ADA	A4143210
413-0904	R32 x 1" CU Adapter 1-1/4" CU Ftg ADA	A4133210

ProPEX Manifold Adapter

413-0906	R32x3/4" Propex Manifold Adapt Straight	Q4143210
413-0830	R32x3/4" Propex Manifold Adapt Ell	Q4153275
413-0840	R32x1" Propex Manifold Adapt Ell	Q4153210



A4020375



A4322020



A4322050



A4332050



A4342075



A4382075

Code#	Description	Model#
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QS20 FITTINGS

QS-style Compression Fitting Assembly

Fitting Assembly with o-ring connects Uponor PEX tubing products to Uponor brass manifolds and R20 Fittings.

413-1175	5/16" PEX to Manifold Fitting R20 Thread	A4020313
413-0908	3/8" PEX to Manifold Fitting R20 Thread	A4020375
413-0910	1/2" PEX to Manifold Fitting R20 Thread	A4020500
413-0920	5/8" PEX to Manifold Fitting R20 Thread	A4020625
413-0922	3/4" PEX to Manifold Fitting R20 Thread	A4020750
413-0921	O-Ring 10PK 1/2 & 5/8 R20 Thread ftgs	A4021116
413-0956	1/2" Propex Fitting Assembly	Q4020500
413-0558	5/8" Propex Fitting Assembly	Q4020625

QS-style Coupling Nipple

413-0930	R20 x R20 Coupling Nipple	A4322020
413-0932	R25 x R25 Coupling Nipple QS20 (3/4" tubing only)	A4322525

QS-style Conversion Nipple

413-0960	R20 x 1/2" NPT Conversion NIPL	A4322050
413-0965	R20 x 3/4" NPT Conversion NIPL	A4322075

QS-style Copper Adapter

413-0940	R20 x 1/2" CU Adapter	A4332050
413-0952	R25 x 3/4" CU Adaptor QS20 (for 3/4" tubing only)	A4332575

QS-style Copper Fitting Adapter

413-0970	R20 x 3/4" CU Ftg Adaptor QS20	A4342075
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QS-style Baseboard Elbow

413-0971	R20 x 3/4" CU Baseboard Ell	A4382075
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Controls



A3030003



A3030101



A3010522



A3020522



A3050050



A3041501



A3040501

Control Module

Control Module with LED Indication for each zone.

413-1120	3-Zone Control Module	A3030003
413-1122	4-Zone Control Module	A3030004

Digital Heat Only Thermostat

413-1090	Digital Heat Only Thermostat 2-Wire 24 Vac.	A3030101
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Motorized Valve Acuator (MVA)

The Motorized Valve Acuator (24VAC) features quick-opening motorized valve head that mounts directly on TruFLOW Valved Manifolds.

413-1162	4-Wire Motorized Valve Acuator (MVA)	A3010522
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4-Wire Telestat Motorized Valve Head

24 Vac. Mounts directly on 1-1/4" valved manifolds. Dedicated end switch completes circuit for circulator or heat plant relay.

413-1128	4-Wire Telestat Motorized Valve Head	A3020522
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Transformer

413-1170	Transformer (50VA)	A3050050
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SetPoint Controller

(Air & Slab, with floor sensor, non-programmable) Model is a one-stage, non-programmable setpoint controller designed to sense air, floor or both temperatures with the ability to select one or the other as primary sensing point (floor sensor included).

413-1176	SetPoint Controller, Model 501s	A3041501
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One-stage, non programmable designed to sense air temp only.

413-1174	SetPoint Controller, Model 501	A3040501
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E6061000



A5080500



A5075002



E6122000



A5110500



A5500500



A7031000



A5700500

Accessories - Tools and Fasteners

Code#	Description	Model#
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Wirsbo Tube Uncoiler

Can be used with up to 1" PEX tubing. Simplifies installation and reduces labor.

413-2502	Wirsbo Tube Uncoiler	E6061000
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Joist Trak™ Heat Transfer Plate

Extruded Aluminum heat transfer plates for use with Aquapex or hePEX plus in floor, walls or ceilings.

413-0480	Joist Trak™ Heat Transfer Plate 1/2"	A5080500
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Double Groove Plate

Double groove aluminum heat emission plate.

413-0490	1/2" Double Groove Plate	A5075002
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Pressure Test Kit

Pressure Test Kit for 1-1/4" manifolds. Kits contain R32 x 3/4" brass adapter, R32 solid brass plug, 3/4" brass nipple and pressure gauge assembly. Schraeder valve included.

413-0975	Pressure Test Kit for 1-1/4" manifolds	E6122000
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Metal Bend Support

Provides rigid 90° Bend for pex tubing.

413-0515	1/2" Bend Support Galv. Steel	A5110500
413-0520	5/8" Bend Support Galv. Steel	A5110625

PVC Bend Support

Provides rigid 90° bend for pex tubing

413-0525	1/2" Bend Support PVC	A5500500
413-0527	5/8" Bend Support PVC	A5500625
413-0530	3/4" Plastic Bend for 3/4" pex tubing	A5500750

6" Fixing Wire

Use to secure pex tubing to wire mesh or rebar

413-0540	Fixing Wire 6" (1000 pkg)	A7031000
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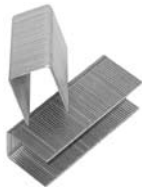
PEX Rail

PEX Rail (plastic) secures 1/2" Wirsbo PEX tubing products to concrete floors and wood subfloors. 6-1/2 ft. long.

413-2620	PEX Rail 6-1/2 ft. long.	A5700500
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E6021620



A7011250



E6025075



A7015075



A7015075



A7015075

Accessories - Tools and Fasteners

Code#	Description	Model#
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Pneumatic Stapler Kit - Rental Unit

For attaching 1/2" and 5/8" Pex tubing to wooden subfloors.

413-2598	Pneumatic Stapler Kit, Rental Unit,	E6021638
413-2601	Stapler Kit, Rental Charge at \$35.00 per day.	

Metal Staples

Metal staples are 1-1/4" long with 1" crown.

Note: Uponor does not recommend this use of staples for joist heating applications.

413-2603	1-1/4 Metal Staples (Clip of 75 staples)	A7011250
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Manual Stapler

Manual Stapler used with foam staple (A7015075) to attach 1/2" and 5/8" PEX to rigid insulation.

413-2595	Manual Stapler	E6025075
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Manual Stapler - Rental Unit

Manual Stapler rental

413-2592	Manual Stapler Rental	
413-2593	Rental Charge at \$15.00 per day.	

Foam Staple

Tubing Staples for manual stapler. Plastic staple used to secure 1/2" and 5/8" PEX to rigid insulation. Suitable for use 1" or 2" high density insulation.

413-2608	2-1/2" Foam Staple (300 pack)	A7015075
413-2610	1-1/2" Foam Staple (300 pack)	A7015050

Tube Cutter

Tube Cutter (plastic) for up to 1" PEX (3/4" MLC Tubing).

413-2529	Tube Cutter	E6081128
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Quik Trak Sealant

Quik Trak Sealant is 100% silicone. Use to adhere 5/16" Wirsbo hePEX plus tubing in the Quik Trak groove.

413-2680	Quik Trak Sealant	E6050010
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A8020000



A9012010



A9013030



A9012002



A9013051

Mixing Controls

Code#	Description	Model#
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Climate Control - Multifunction

The Multifunction Climate Control hydronic controller is designed to simplify installations. This control incorporates all mechanical functions required in radiant floor heating, boiler staging and control, domestic hot water (DHW), snow melt, zone pumping and supply water temperature mixing. Input connections use a simple push-style connector and outputs use Cat5 cables and connector to control the output devices. Use the simple five-button display to set up and activate the functionality required for the individual installation. A data stick is included for the setup configuration to be saved.

413-0010	Climate Control - Multifunction Hydronic Control	A8020000
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Boiler Relay, On-Off

The Multifunction Climate Control unit controls and stages up to four boilers. Use the Boiler Relay to mount on or near the boiler. Connect to the Multifunction Climate Control unit using a standard Cat5 cable with RJ45 ends.

413-0015	Boiler Relay, On-Off	A9012010
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Pump Relay

The Multifunction Climate Control unit controls any pump or circulator up to 3A for primary, domestic, snow melt, secondary or zone pump operation. Mount the pump relay on or near the pump. Connect to the Multifunction Climate Control unit using a standard Cat5 cable with RJ45 ends.

413-0020	Pump Relay	A9013030
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Sensors

The Multifunction Climate Control unit provides a variety of sensors to provide temperature information. The Dual Sensor reads tubing temperatures for secondary (mixed) or primary loops. The outdoor sensor connects the Multifunction Climate Control with 18-2 AWG thermostat wire to a dedicated terminal. Domestic Hot Water (DHW) Sensor and Dual Sensor connects using standard Cat5 cables with RJ45 ends to the appropriate device.

413-0025	Domestic Hot Water (DHW) Sensor, 10k	A9012002
413-0027	Dual Sensor, Supply & Return, 10k	A9013001
413-0029	Outdoor Sensor, 10k	A9011001

Snow-melt Sensor

The Multifunction Climate Control unit supports snow melt operation for up to two zones through the use of the Uponor Snow-melt Sensor, which wires to the main control panel using a Cat5 cable and RJ45 ends for simple and easy connections.

Note: Use the Automatic Snow and Ice Sensor for full automatic operation. The Snow-melt Sensor connects to the Multifunction Climate Control unit using a standard Cat5 cable with RJ45 ends.

413-0045	Snow-melt Sensor (Includes 10k Sensor & well)	A9013051
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CAT5 Patch Cables

The following cables are available to complete and simplify the Multifunction Climate Control System installation.

413-0035	1' CAT-5 Patch Cable	A9030001
413-0037	3' CAT-5 Patch Cable	A9030003
413-0039	7' CAT-5 Patch Cable	A9030007



Sparco AQUAMIX Anti-Scald Proportional

Code#	Description	Model#
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AM100

Thermostatic Mixing and Diverting Valve

Application

- Domestic hot water systems; (from tankless heater or storage tank) showers, sinks, baths, washing machines, solar systems and heat pump systems.
- Commercial installations: nursery schools, schools shower installations, washing facilities, photo industry, process industry and wherever accuracy and energy savings are required.

Features:

- Constant water temperature under any operating condition.
- Constant temperature in systems with recirculation.
- Proportional valve (simultaneous control of hot and cold water).
- Energy savings through lower supply temperatures.
- Control of hot water up to shut off.
- Anti-scald protection.
- Nickel plated brass/bronze construction (inside and outside), viton O rings.
- Straight thru design (hot and cold at same level)
- Designed for easy maintenance and element replacement.

Standard Applications

413-4100	1/2" IPS	AM100
413-4105	3/4" IPS	AM101
413-4110	1" IPS	AM102

For radiant heating (high limit stop) use model "R"

413-4115	1" CC	AM102RUS
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Product Information

Product Number	GPM*	Temp. Range
AM100	.5-8	110°-145° F
AM101	.5-10	110°-145° F
AM102	.5-12	110°-145° F
AM100CUS	.5-8	90°-120° F
AM101CUS	.5-10	90°-120° F
AM102RUS	.5-12	90°-160° F

* At a Pressure Drop of 22 psi (50 feet)



MX128

Large Flow Proportional Mixing or Diverting Valve.

Teflon wear surfaces to prevent calcium buildup. Valve controls hot and cold supply based on valve setting. Dual purpose mixing or diverting, install in any position, heat trapping not required. Bronze/stainless construction. Union/tailpiece connections included. Tapped flange connections 2-1/2" and 3".

413-4125	1-1/4" NPT	MX128
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Product Information

Product Number	Min-Max GPM	Flow Cv	Temp. Range
MX128	2.5-50	9.3	110°-150° F



SPIROTHERM

SPIROVENT® Air Elimination Products

Spirovent® Junior

Brass Air Eliminators
(Horizontal Design)
FT = Female Threads
TM = FT with 1/2" Tank Mount

Mfg#	Size	Code#
VJR075FT	3/4"	413-5005
VJR100TM	1"	413-5010
VJR125TM	1-1/4"	413-5015
VJR150TM	1-1/2"	413-5020

The Spirovent's unique construction allows for the removal of entrained air and microbubbles. When used in conjunction with the heat source Spirovent is able to remove what were dissolved gases from the water or antifreeze, conditioning it to a highly absorptive state.

Technical Specifications - Spirovent Junior

	VJR075FT	VJR100TM	VJR125TM	VJR150TM
Pipe Size	3/4"	1"	1-1/4"	1-1/2"
Thread NPT Female	3/4"	1"	1-1/4"	1-1/2"
D - Inch	2.6	2.6	2.6	2.6
H1 - Inch	6.0	7.0	7.8	9.1
h1 - Inch	0.8	1.4	1.5	1.6
L - Inch	3.4	3.5	3.5	3.5
e - Plug	-	1/2"	1/2"	1/2"
Volume Gal.	0.05	0.06	0.07	0.09
Wt Thrd Lbs	3.1	3.4	3.8	4.4
Cv Rating	14	22	40	55
Recom Flo GPM	6	10	15	30

All Spirovents are designed for a maximum working pressure of 150psig and temperature of 270° F.

Brass body construction.

