

Composite PEX-AL-PEX Tubing

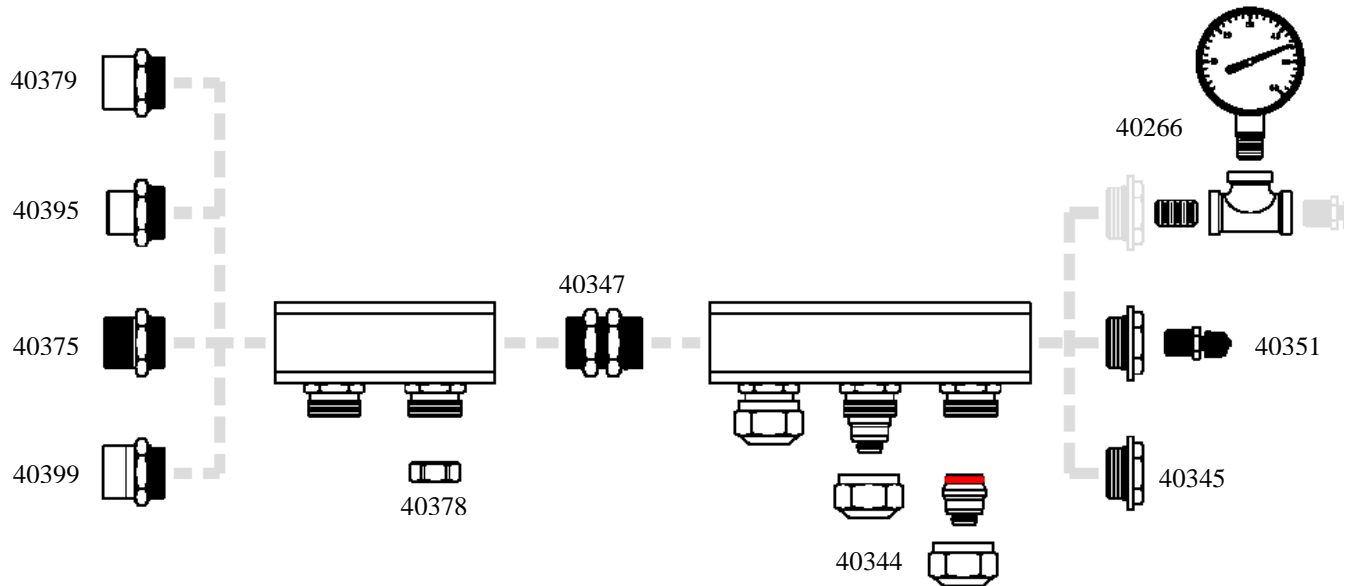
Part No.	Description	List Price Per Foot
40190F	½" Composite Tubing x 200'	.62
40190	½" Composite Tubing x 250'	.62
40190A	½" Composite Tubing x 300'	.62
40190B	½" Composite Tubing x 1000'	.62
40192	1" Composite Tubing x 100'	1.74
40192C	1" Composite Tubing x 150'	1.74
40192B	1" Composite Tubing x 200'	1.74
40192A	1" Composite Tubing x 300'	1.74
40192D	1" Composite Tubing x 500'	1.74

Our warehouse is located in Brooten, Minnesota.

BRASS MANIFOLDS

1/2" Outlet – 1" Trunk

Supply Manifold



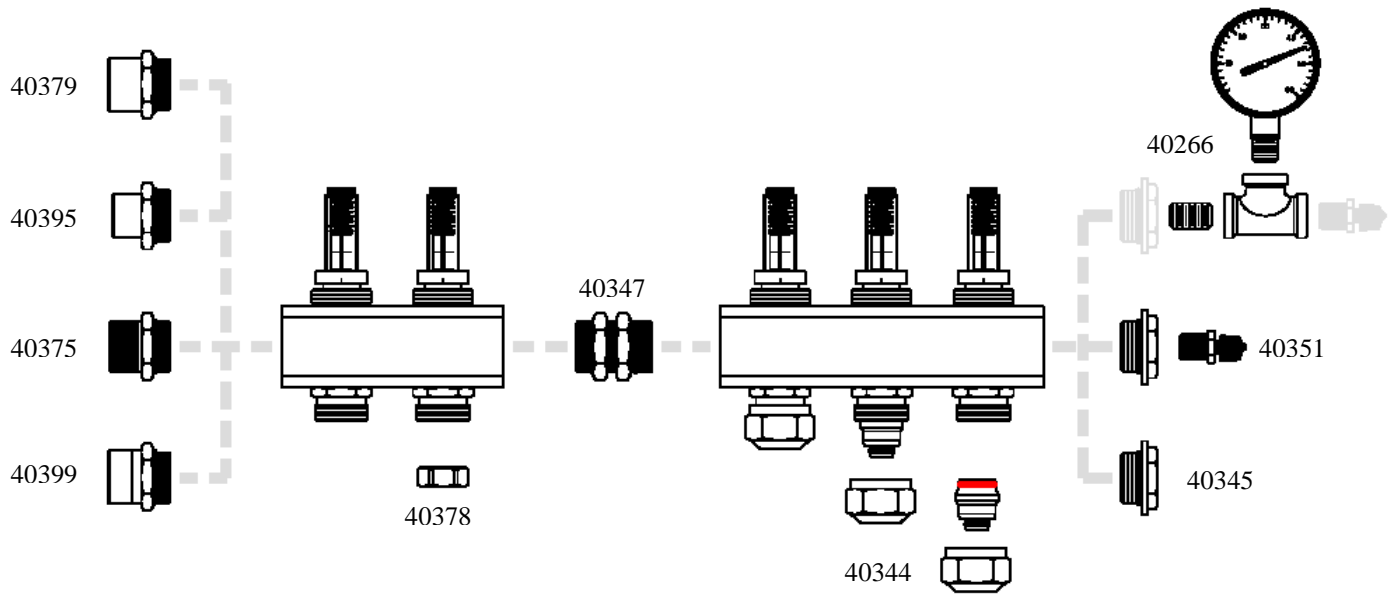
- 40338 2 Outlet Supply Manifold
- 40339 3 Outlet Supply Manifold
- 40340 4 Outlet Supply Manifold
- 40474 5 Outlet Supply Manifold
- 40473 6 Outlet Supply Manifold
- 40379 Manifold to 1" Copper Adapter
- 40395 Manifold to 3/4" Copper Adapter
- 40375 Manifold to 1" Threaded Adapter (Male)

- 40399 Manifold to 1" Threaded Adapter (Female)
- 40344 1/2" Manifold Adapter
- 40345 1" Brass Plug
- 40347 Manifold Connector
- 40378 Cap
- 40351 Air Pressure Assembly
- 40266 Pressure Gauge Assembly
- 40347 Manifold Connector

BRASS MANIFOLDS

1/2" Outlet – 1" Trunk

Supply Manifold with Flow Indicators



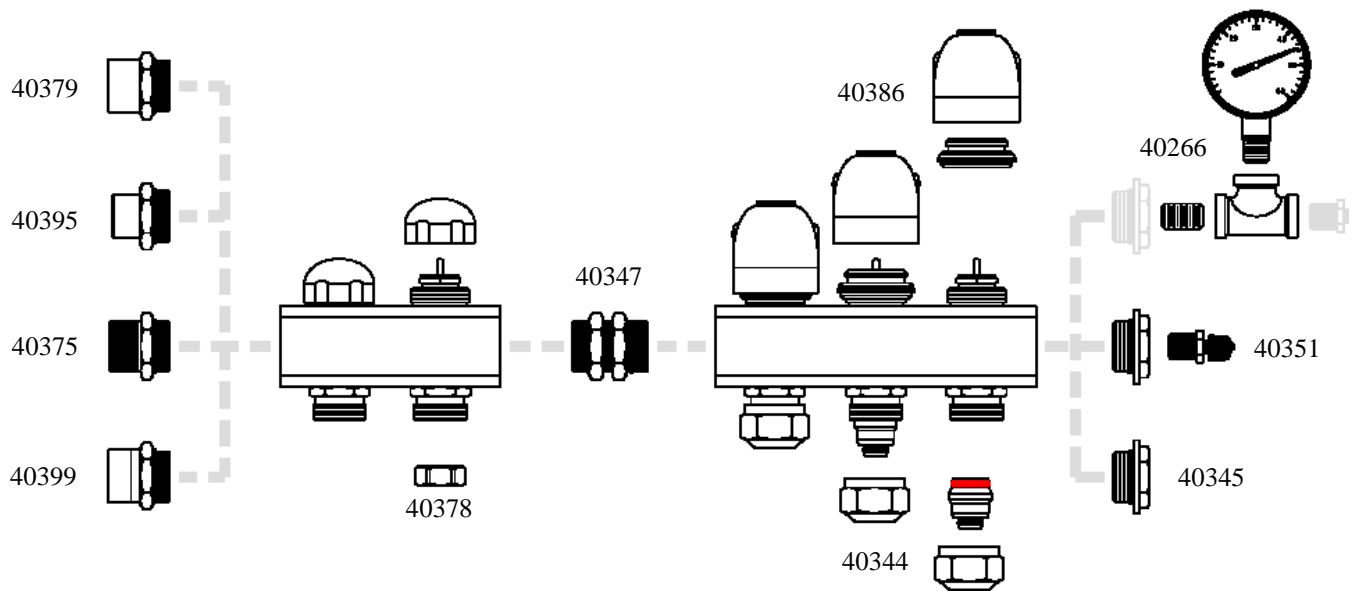
- 40387 2 Outlet Manifold w/ Flow Ind.
- 40388 3 Outlet Manifold w/ Flow Ind.
- 40389 4 Outlet Manifold w/ Flow Ind.
- 40471 5 Outlet Manifold w/ Flow Ind.
- 40472 6 Outlet Manifold w/ Flow Ind.
- 40379 Manifold to 1" Copper Adapter
- 40395 Manifold to 3/4" Copper Adapter
- 40375 Manifold to 1" Threaded Adapter (Male)

- 40399 Manifold to 1" Threaded Adapter (Female)
- 40344 1/2" Manifold Adapter
- 40345 1" Brass Plug
- 40347 Manifold Connector
- 40378 Cap
- 40351 Air Pressure Assembly
- 40266 Pressure gauge Assembly

BRASS MANIFOLDS

1/2" Outlet – 1" Trunk

Return Manifold with Balancing Valves

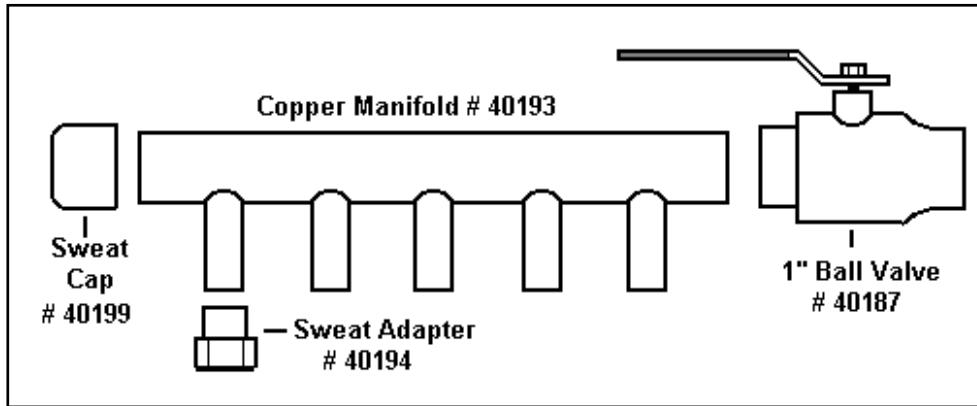
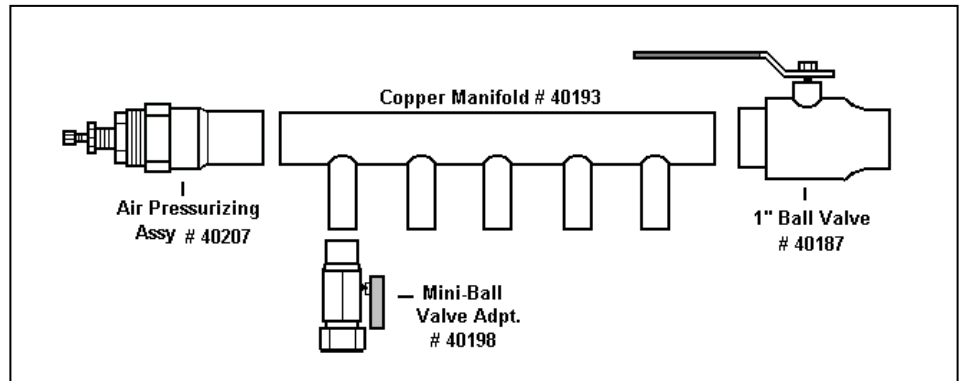
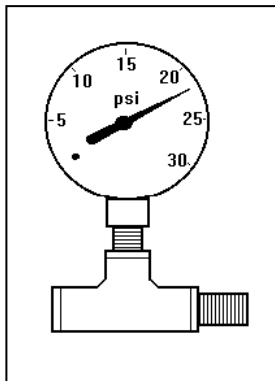


- 40341 2 Outlet Return Manifold
- 40342 3 Outlet Return Manifold
- 40343 4 Outlet Return Manifold
- 40475 5 Outlet Return Manifold
- 40470 6 Outlet Return Manifold
- 40379 Manifold to 1" Copper Adapter
- 40395 Manifold to 3/4" Copper Adapter
- 40375 Manifold to 1" Threaded Adapter (Male)
- 40399 Manifold to 1" Threaded Adapter (Female)

- 40386 4 Wire Actuator
- 40344 1/2" Manifold Adapter
- 40345 1" Brass Plug
- 40347 Manifold Connector
- 40378 Cap
- 40351 Air Pressure Assembly
- 40266 Pressure gauge Assembly

UNASSEMBLED COPPER MANIFOLDS

1/2" Sweat Outlet – 1" Male Sweat Trunk

Supply Manifold**Return Manifold**

40193	Manifold (order per outlet up to 12)
40194	1/2" Tubing to Copper Adapter
40198	1/2" Tubing to Copper Mini Ball Valve Adapter
40199	1" Copper Sweat Cap
40187	1" Full Port Ball Valve
40207	1" Air Pressurizing Assembly
40266	Pressure Gauge with Fittings - optional

Also Available:**1/2" Outlet – 1 1/4" Male Sweat Trunk**

40294	Manifold (per outlet up to 24)
40313	1 1/4" Sweat Cap
40316	1 1/4" Full Port Ball Valve
40317	1 1/4" Air Pressurizing Assembly

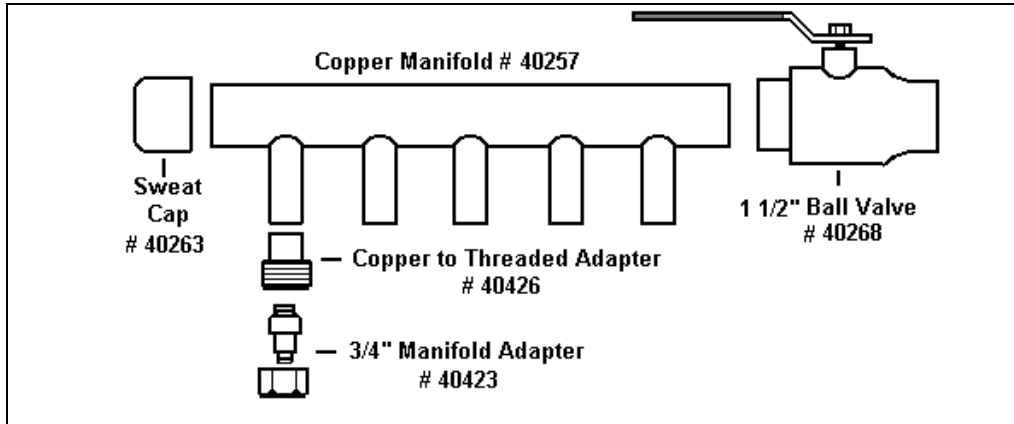
1/2" Outlet – 1 1/2" Male Sweat Trunk

40295	Manifold (per outlet up to 24)
40263	1 1/2" Sweat Cap
40268	1 1/2" Full Port Ball Valve
40265	1 1/2" Air Pressurizing Assembly

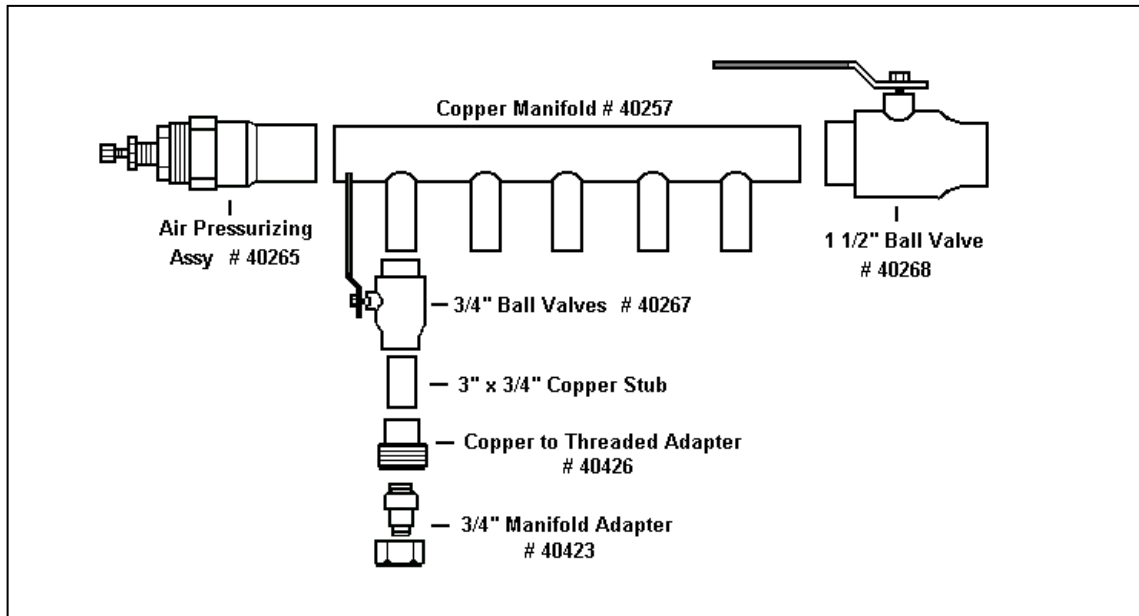
UNASSEMBLED COPPER MANIFOLDS

$\frac{3}{4}$ " Sweat Outlet – 1 $\frac{1}{2}$ " Male Sweat Trunk

Supply Manifold


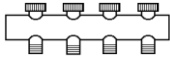
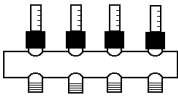



Return Manifold



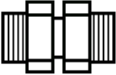




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|-------|---|
| 40257 | Manifold (order per outlet up to 24) |
| 40426 | $\frac{3}{4}$ " Copper to Euro Threaded Adapter |
| 40423 | $\frac{3}{4}$ " Manifold Adapter |
| 40263 | 1 $\frac{1}{2}$ " Copper Sweat Cap |
| 40268 | 1 $\frac{1}{2}$ " Full Port Ball Valve |
| 40265 | 1 $\frac{1}{2}$ " Air Pressurizing Assembly |






BRASS MANIFOLDS AND COMPONENTS

Part No.	Description	Retail Price	
Brass Threaded Manifolds-Supply			
All with 1/2" Outlet x 1" Trunk			
	40338	2 Outlet Supply, Manifold	35.00
	40339	3 Outlet Supply, Manifold	48.00
	40340	4 Outlet Supply, Manifold	64.00
	40474	5 Outlet Supply, Manifold	79.00
	40473	6 Outlet Supply, Manifold	89.00
Brass Threaded Manifolds-Return			
All with 1/2" Outlet x 1" Trunk, with balancing valves.			
	40341	2 Outlet Return	53.00
	40342	3 Outlet Return	79.50
	40343	4 Outlet Return	99.00
	40475	5 Outlet Return	122.00
	40470	6 Outlet Return	139.00
Brass Threaded Manifolds-Return			
All with 1/2" Outlet x 1" Trunk with Adjustable Flow Indicators			
	40387	2 Outlet Manifold with Indicators	75.00
	40388	3 Outlet Manifold with Indicators	110.00
	40389	4 Outlet Manifold with Indicators	145.00
	40471	5 Outlet Manifold with Indicators	179.00
	40472	6 Outlet Manifold with Indicators	210.00
Actuators			
	40386	4 - Wire Manifold Actuator with End-Switch	60.00
		For use with brass return manifolds No. 40341, 40342 and 40343. Can be used to control individual loops on one manifold.	

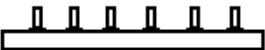
BRASS MANIFOLD COMPONENTS

	Part No.	Description	Retail Price
	40344	1/2" Manifold Adapter	7.00
	40451	5/8" Manifold Adapter	9.00
	40423	3/4" Manifold Adapter	11.00
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	40345	1" Brass Manifold Plug	6.00
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	40347	Manifold connector	13.00
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	40351	Air Pressurizing Assembly	10.00
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	40346	Mounting Bracket, Set*	20.00
<p>*Use to mount brass manifolds</p>			

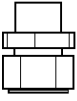
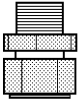
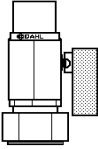

BRASS MANIFOLD COMPONENTS

	Part No.	Description	Retail Price
	40375	1" Brass Manifold to Threaded Adapter (Male)	15.00
	40399	1" Brass Manifold to Threaded Adapter (Female)	18.00
	40379	1" Brass Manifold to 1" Copper Adapter	16.00
	40395	1" Brass Manifold to 3/4" Copper Adapter	15.00
	40378	1/2" Brass Manifold Take-off Cap (use on outlets)	5.00
	40383	1/2" Copper to Threaded Adapter	5.50
	40426	3/4" Copper to Threaded Adapter	7.00
		Use to connect 1/2" or 5/8" tubing to copper manifold.	
	40384	1/2" or 5/8" Brass Coupler	4.00
	40424	3/4" Brass Coupler	6.00
		Use with 2 manifold adapters to connect tubing together.	

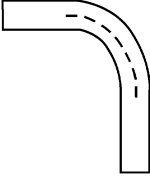

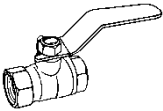
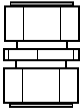
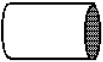
COPPER SWEAT MANIFOLDS

Part No.	Description	Retail Price
	Copper Sweat Manifolds: 40193 1/2" Outlets x 1" Trunk Order per outlet – up to 12	7.00 / outlet


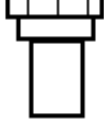


COPPER MANIFOLD COMPONENTS

Part No.	Description	Retail Price
	40194 1/2" Tubing to Copper Adapter	5.25
	40454 5/8" Tubing to Copper Adapter	7.00
	40255 3/4" Tubing to Copper Adapter	12.00
	40203 1" Tubing to Copper Adapter	17.95
<p>These Compression fittings will sweat to copper manifold or copper tubing.</p>		
	40197 1/2" Tubing to Male Threaded Adapter	7.50
	40237 1" Tubing to Male Threaded Adapter	14.50
	40243 1" Tubing to Female Threaded Adapter	14.50
	40198 1/2" Mini Ball Valve to Copper Adapter	23.50
<p>An Adapter with a brass valve button. These valves allow flexibility to reduce water flow in a loop, and will sweat to the copper manifold. With a working pressure up to 250 psi, these high quality valves have 1/4 turn washer less, self-lubricating Teflon seats and hi-temp Vitron O-rings.</p>		
	40227 1/2" Replacement O-Ring	.25
	40231 1" Replacement O-Ring	.65

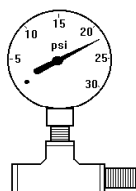
FITTINGS AND COMPONENTS

Part No.	Description	Retail Price
	40195 1/2" Protective Sleeve	2.25
	40262 3/4" Protective Sleeve	4.15
	40205 5/8" Protective Sleeve	2.80
These sleeves protect the tubing where it comes up through the cement.		
	40357 1/2" Copper Sweat Cap	1.50
	40276 3/4" Copper Sweat Cap	1.50
	40199 1" Copper Sweat Cap	2.00
These caps sweat onto ends of copper manifold.		
	40267 3/4" Sweat-Full Port Ball Valve	15.50
	40187 1" Sweat-Full Port Ball Valve	18.00
	40316 1 1/4" Sweat-Full Port Ball Valve	25.95
	40268 1 1/2" Sweat-Full Port Ball Valve	38.75
	40348 1" Threaded-Full Port Ball Valve	21.00
Part Numbers 40267, 40187, 40316 & 40268 for use with copper manifolds. Part Number 40348 for use with brass manifolds.		
	40196 1/2" Tubing Coupler	7.00
	40258 3/4" Tubing Coupler	10.75
	40202 1" Tubing Coupler	22.75
	40242 1" Tubing Tee	25.25
These fittings will attach tubing ends together. They are not recommended for use in concrete.		
	40358 Heat Shrink Repair Sleeve - 1/2" Coupler	7.00
	40359 Heat Shrink Repair Sleeve - 3/4-1" Coupler	7.75
Use when making a repair that will be put in concrete.		

MANIFOLD PRESSURE ASSEMBLY COMPONENTS

Part No.	Description	Retail Price
	40207 1" Air Pressurizing Assembly - consists of:	
	40204 1" Female Sweat Adapter	7.50
	40377 1" x 1/4" Brass Bushing	3.95
	40206 1/4" Sniffer Valve	<u>3.50</u>
	Total	14.95
	40317 1 1/4" Air Pressurizing Assembly - consists of:	
	40318 1 1/4" Female Sweat Adapter	9.25
	40319 1 1/4" x 1/4" Bushing	4.40
	40206 1/4" Sniffer Valve	<u>3.50</u>
	Total	17.15
	40265 1 1/2" Air Pressurizing Assembly - consists of:	
	40314 1 1/2" Female Sweat Adapter	12.55
	40315 1 1/2" x 1/4" Bushing	4.95
	40206 1/4" Sniffer Valve	<u>3.50</u>
	Total	21.00
	40351 1" Air Pressurizing Assembly – consists of: (for brass manifolds)	
	40361 Manifold End Cap drill & taped	6.50
	40206 1/4" Sniffer Valve	<u>3.50</u>
	Total	10.00

These assemblies attach to the manifold and are used to pressurize the system with air before and during concrete pouring.


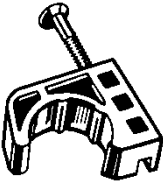
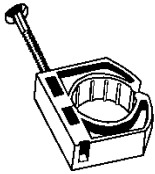
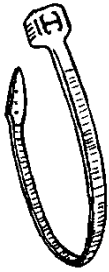
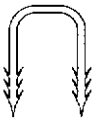


40266	Pressure Gauge Assembly – consists of:	
	40245 Pressure Gauge	10.25
	40246 1/4" Tee	3.00
	40247 1/4" x Close Nipple	<u>1.25</u>
	Total	14.50




This gauge will attach to any size air pressurizing assembly.

NOTE: Order by assembly number. The list of parts will be sent and billed individually.



TUBING FASTENERS

Part No.	Description	Retail Price
	40210 ½" Screw Clip	.40
	40374 Automatic Screw Clip Installation Tool	295.00
<p style="text-align: center;">These clips screw into insulation board to secure tubing. Order in bags of 25.</p>		
	40211 ½" J-Clamp with Nail	11.00 per 100
	<p style="text-align: center;">These clamps secure tubing when attaching above a sub floor. Order in bags of 100.</p>	
	40218 ½" Strap Hangers	14.50 per 100
	<p style="text-align: center;">These hangers are used to secure tubing for under sub floor installations. Order in bags of 100.</p>	
	40222 Plastic Ties	5.00 per 100
	<p style="text-align: center;">These ties will secure tubing to re-rod or mesh. They do not need a tool to install. Will work with ½" or ¾" tubing. Order in bags of 100.</p>	
	40484 1½" Plastic Staple, 500 per box	120.00/box
	<p style="text-align: center;">These staples are taped in strips to be used with stapler.</p>	

TOOLS

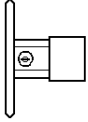


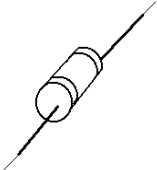
Part No.	Description	Retail Price
	40208 Beveling Tool Can be used with any size tubing.	9.00
	40213 Tubing Cutter Can be used with any size tubing.	17.00
	30162 Rector Seal No.5, ½ pint Rector Seal No. 5 is a soft setting, slow drying thread sealant. Non-toxic in accordance with NSF standard 61.	8.00

CIRCULATING PUMPS

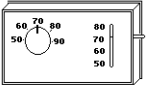
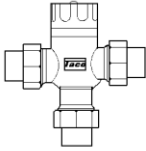
Part No.	Description	Retail Price
	30154 15-58FC Grundfos "Super Brute" Circulating Pump	134.00
	30156 26-96 Grundfos Circulating Pump High Velocity	365.00
	40380 26-99 Grundfos Circulating Pump High Velocity	375.00
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	40209 007 Taco Zone Circulating Pump	185.00
	40302* 011 Taco Zone Circulating Pump High Velocity	362.00
	30133* 009 Taco Circulating Pump	309.00
<p>These Zone Pumps have a built in voltage relay. They can be wired directly to a low voltage thermostat.</p>		

* Please allow 2 – 3 weeks for delivery

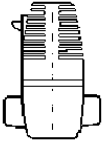
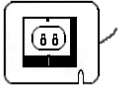
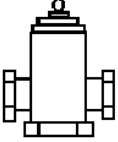
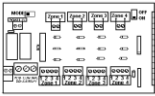

CIRCULATING PUMP COMPONENTS

	Part No.	Description	Retail Price
	40273	1" Taco Isolation Pump Flanges (Use with Grundfos or Taco pumps.)	47.50
	30106	1 1/4" Taco Isolation Pump Flanges	47.50
	30157	1 1/4" Grundfos Isolation Pump Flanges	59.00
	40281	Gaskets for Taco Isolation Pump Flanges	13.50
	40402	Gaskets for Grundfos Isolation Flanges	13.50
	40403	Grundfos Pump O-ring Gaskets	9.60
	30120	Taco Pump O-ring Gaskets	10.00
	30121	007 Replacement Taco Pump Cartridge (for 007 pump-part no. 30104 & 007 zone circulator-part no. 40209)	80.00
	40320	007 Pump Capacitor	38.50
	40321	011 Pump Capacitor	49.00



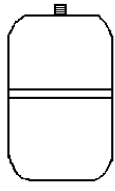
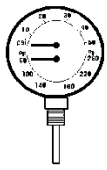

HEATING SYSTEM COMPONENTS

Part No.	Description	Retail Price
	40121 Wall Thermostat	36.75
	40171 1" 3-Way Mixing Valve 40108 3/4" 3-Way Mixing Valve	149.00 127.00
<p>Mixing Valve has a temperature range of 85°-150°F and is used to regulate temperature for hydronic radiant floor heating. Provides constant water temperature by controlling hot and cold supply. This fail safe valve protects the tubing if the boiler would malfunction and overheat.</p>		

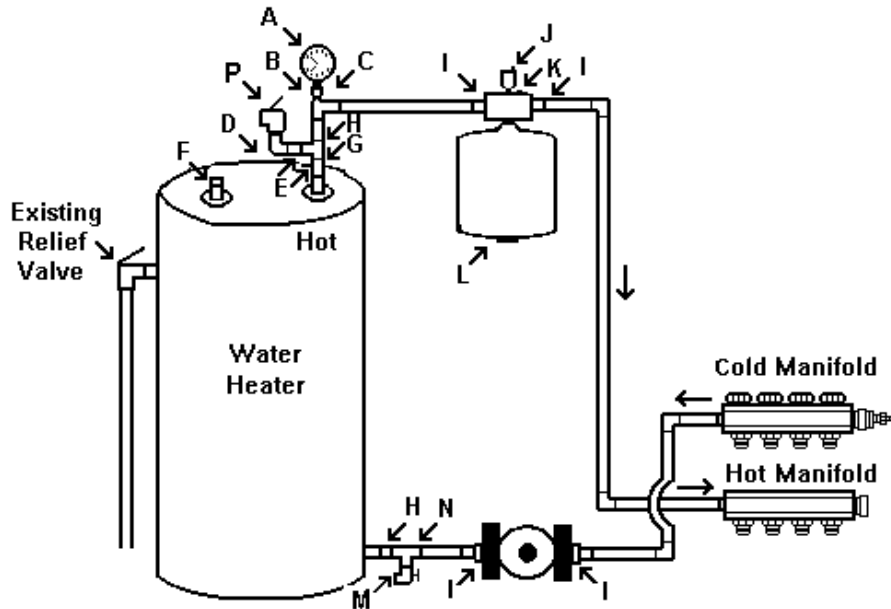
HEATING SYSTEM COMPONENTS

Part No.	Description	Retail Price
	40120 Zone Valve, 1/2" Sweat Fittings	124.00
	40124 Zone Valve, 3/4" Sweat Fittings	127.00
	40125 Zone Valve, 1" Sweat Fittings	139.00
	40149 3-Way Zone Valve, 3/4" Sweat Fittings	179.00
	40165 3-Way Zone Valve, 1" Sweat Fittings	275.00
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	40232 Control Transformer 40VA	29.00
	This is used with zone valves. It will handle up to three zone valves.	
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	40233 1" NPT Flow Check	45.00
	These units prevent flow through the zone circulator when it's not running.	
	40122 3/4" Check Valves	21.00
	40123 1" Check Valves	30.50
	<hr/>	
	40370 3 Zone Control Valve	125.00
	40371 4 Zone Control Valve, With Priority	150.00
	40372 6 Zone Control Valve, With Priority	180.00
	These units are fuse protected, and include built-in priority switching and external indicator lights.	
<hr/>		
	40400 2 Zone Circulator Controller, With Priority	175.00
	40404 3 Zone Circulator Controller, With Priority	215.00
	40405 4 Zone Circulator Controller, With Priority	295.00
	40406 6 Zone Circulator Controller, With Priority	330.00
	<hr/>	

HEATING SYSTEM COMPONENTS

Part No.	Description	Retail Price
	30111 Auto Air Vent	14.00
	Automatically vents air from system.	
	40274 1" Air Scoop 30110 1 1/4" Air Scoop	25.00 25.00
	This cast iron scoop is designed to separate air from water.	
	40396 Expansion Tank #15 30108 Expansion Tank #30 30109 Large Expansion Tank #60 30147 Extra Large Expansion Tank #90	62.00 72.00 111.00 199.00
	This tank will control the thermal expansion of hot water and is compatible with Glycol in system. Use large tank for systems with more than 100 gallons of total fluid.	
	30101 Pressure & Temperature Gauge (vertical) 30146 Pressure & Temperature Gauge (horizontal)	50.00 50.00
	40373 Boiler Anti-Freeze 5 Gallon Container	125.00

Hot Water Heater Hook-Up Package



Part No.	Description	Retail Price
A.	30101 Pressure & Temperature Gauge	
B.	40226 1/2" Female Street Adapter	
C.	40225 3/4" x 1/2" x 3/4" Sweat Tee	
D.	40393 3/4" Elbow	
E.	40394 3/4" x 2 1/2" Nipple (2 ea.)	
F.	40282 Threaded Cap	
G.	40392 Threaded Tee	
H.	40279 Male Sweat Adapter (2 ea.)	
I.	40277 Sweat to Threaded Adapter (4 ea.)	
J.	30111 Auto Air Vent	
K.	40274 Air Scoop	
L.	30108 Expansion Tank #30	
M.	40244 Boiler Drain	
N.	40278 Sweat to Threaded Tee	
P.	30100 Pressure Relief Valve	
Total		\$247.00

Order Package No. HWH30

Electric Boilers with Full Modulation & Outdoor Reset



Part No.	Description	Retail Price
All Models 240 Volt		
B-3TMB	3 KW 10,236 BTU, 12.5 amps, 21 lbs.	950.00
B-6TMB	6 KW 20,472 BTU, 25.0 amps, 23 lbs.	980.00
B-9TMB	9 KW 30,708 BTU, 37.5 amps, 25 lbs.	1,000.00
B-11TMB	11 KW 37,532 BTU, 45.8 amps, 27 lbs.	1,090.00
40462	Installation Package	364.15
<u>Also Use:</u>		
	30154 – Brute Pump	134.00
	40273 – 1" Isolation Pump Flange Set	47.50

NOTE: Electric boilers include: all elements controlled with solid state relays, full modulation, outdoor reset control, pressure relief valve, T/P gauge, pump relay, 1 1/4" connections, stainless steel tank, and load management contacts.

Fossil Fuel Electric Boilers with Full Modulation & Outdoor Reset

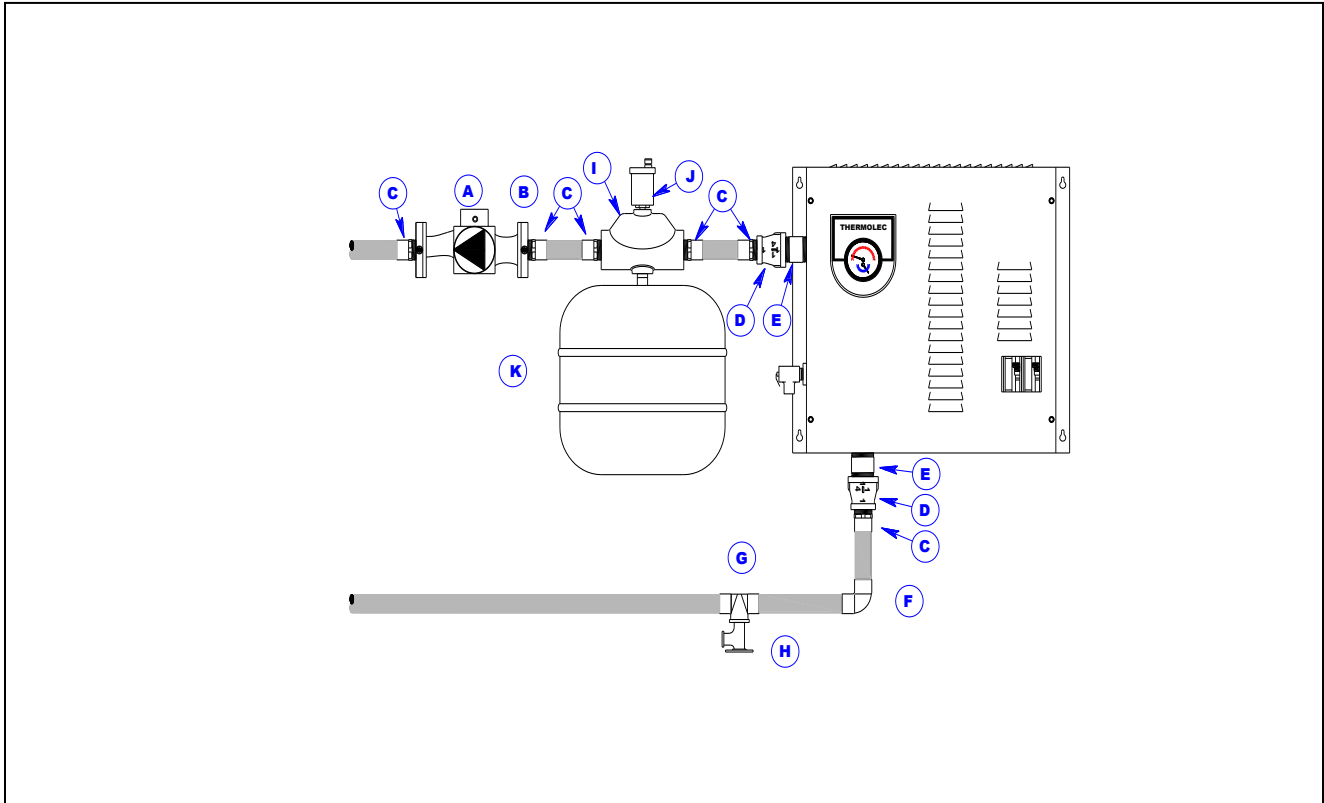
(For both stand alone electric boiler applications and electric dual fuel installations that require a fossil fuel back-up boiler.)



Part No.	Description	Retail Price
All models 240 Volt		
B-5U FFB	5 KW 17,060 BTU, 20.83 amps, 37 lbs	1,081.00
B-6U FFB	5.75 KW 19,619 BTU, 23.96 amps, 38 lbs	1,081.00
B-8U FFB	8 KW 27,296 BTU, 33.33 amps, 39 lbs	1,173.00
B-9U FFB	9 KW 30,708 BTU, 37.5 amps, 39 lbs	1,195.00
B-10U FFB	10 KW 34,120 BTU, 41.67 amps, 39 lbs	1,195.00
B-12U FFB	11.5 KW 39,238 BTU, 47.92 amps, 40 lbs	1,534.00
B-15U FFB	15 KW 51,180 BTU, 62.5 amps, 44 lbs	1,797.00
B-18U FFB	18 KW 61,416 BTU, 75.0 amps, 47 lbs	1,854.00
B-20U FFB	20 KW 68,240 BTU, 83.37 amps, 47 lbs	1,913.00
B-23U FFB	23 KW 78,476 BTU, 95.83 amps, 49 lbs	2,205.00
B-27U FFB	27 KW 92,124 BTU, 112.5 amps, 73 lbs	2,433.00
B-30U FFB	30 KW 102,360 BTU, 125.0 amps, 73 lbs	2,576.00
B-35U FFB	35 KW 119,420 BTU, 145.83 amps, 74 lbs	2,662.00
B-40U FFB	40 KW 136,480 BTU, 166.67 amps, 74 lbs	2,685.00

NOTE: Fossil Fuel Electric boilers feature a Dual Fuel Control Switch and include all elements controlled with solid state relays, full modulation, outdoor reset control, pressure relief valve, T/P gauge, pump relay, load management contacts, stainless steel tank, and 1 1/4" pipe connections.

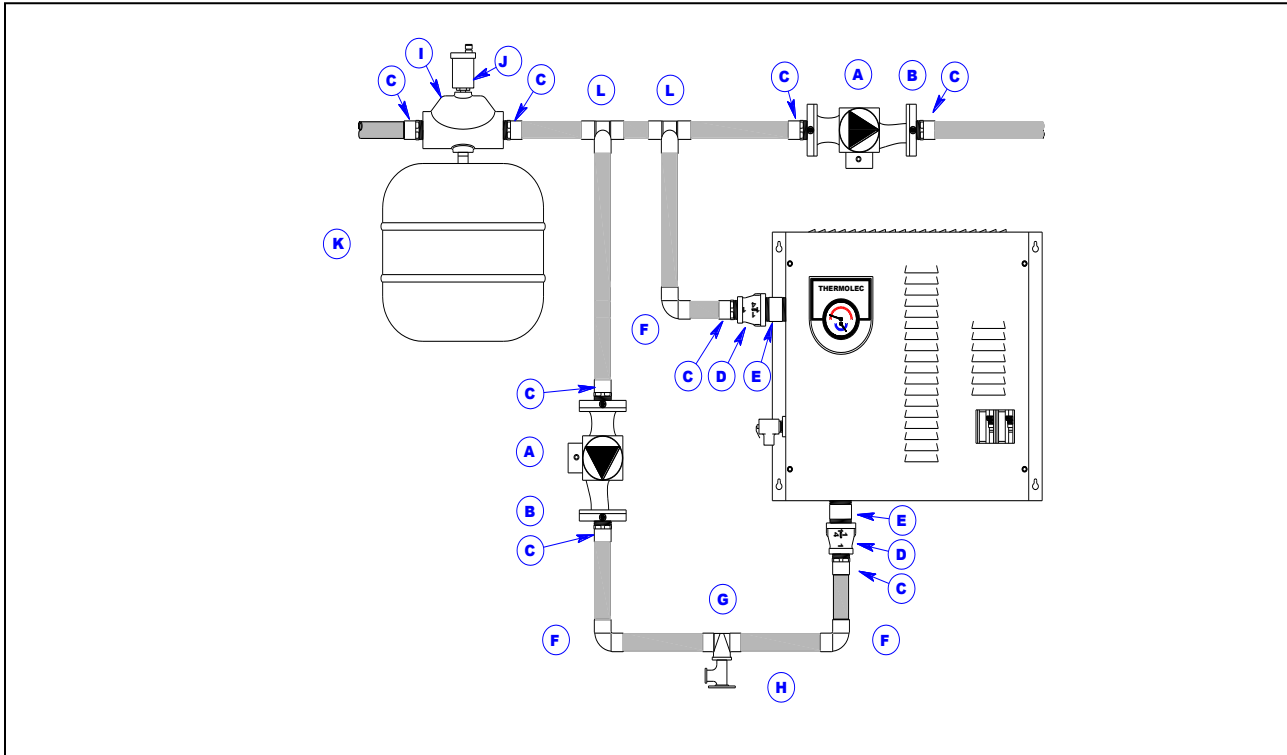
◆ Please allow 2 – 3 weeks for delivery



Thermolec Boiler Kit - Standard Kit part no. 40462

Number	Qty	Part No.	Description
A	1	30154	GF 15-58 Pump
B	1	40273	Pump Isolation Flanges, GF, 1"
C	6	40201	Copper Adapter, 1" Swt x 1" M NPT
D	2	40457	Reducing Bell, 1 1/4" F NPT x 1" F NPT
E	2	40458	Pipe Nipple, 1-1/4" M NPT x 3"
F	1	40459	Copper Elbow, 1" Swt
G	1	40460	Tee, 1" Swt x 1" Swt x 3/4" F NPT
H	1	40244	Boiler Drain Valve
I	1	40274	Air Scoop
J	1	30111	Auto Air Vent
K	1	40396	Expansion Tank, ET-15

Total \$ 364.15



Thermolec Boiler Kit - Primary Secondary Kit part no. 40463

Note: Requires Standard Kit

Number	Qty	Part No.	Description
A	2	30154	GF 15-58 Pump
B	2	40273	Pump Isolation Flanges, GF, 1"
C	8	40201	Adapter, Copper, 1" Swt x 1" M NPT
D	2	40457	Reducing Bell, 1-1/4" F NPT x 1" F NPT
E	2	40458	Pipe Nipple, 1-1/4" M NPT x 3"
F	3	40459	Copper Elbow, 1" Swt
G	1	40460	Tee, 1" Swt x 1" Swt x 3/4" F NPT
H	1	40244	Boiler Drain Valve
I	1	40274	Air Scoop
J	1	30111	Auto Air Vent
K	1	40396	Expansion Tank, ET-15
L	2	40461	Tee, 1" Swt

Total \$ 582.65

Swimming Pool & Brazed Plate Heat Exchangers (See Literature Section 4)

Swimming Pool Heat Exchangers



Part No.	Description	Retail Price
WMPH-95	95 MBH Pool Heat Exchanger	500.00
WMPH-135	135 MBH Pool Heat Exchanger	800.00
WMPH-200	200 MBH Pool Heat Exchanger	1000.00
WMPH-260 ♦	260 MBH Pool Heat Exchanger	1200.00
WMPH-400 ♦	400 MBH Pool Heat Exchanger	1700.00

♦ Please allow 2 – 3 weeks for delivery

Brazed Plate Heat Exchangers

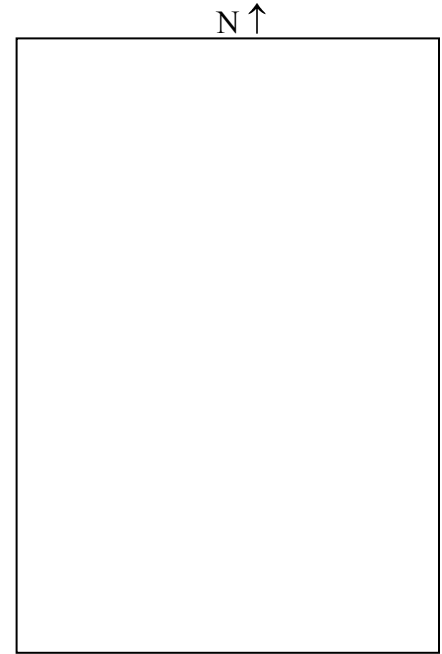


Part No.	Description	Retail Price
WMBP1-14E	WMBP1-14E Brazed Plate Heat Exchanger	260.00
WMBP1-20E ♦	WMBP1-20E Brazed Plate Heat Exchanger	327.00
WMBP1-30E ♦	WMBP1-30E Brazed Plate Heat Exchanger	405.00
WMBP3-14 ♦	WMBP3-14 Brazed Plate Heat Exchanger	610.00
WMBP3-20 ♦	WMBP3-20 Brazed Plate Heat Exchanger	700.00
WMBP3-40 ♦	WMBP3-40 Brazed Plate Heat Exchanger	1000.00
WMBP4-10 ♦	WMBP4-10 Brazed Plate Heat Exchanger	615.00
WMBP4-14 ♦	WMBP4-14 Brazed Plate Heat Exchanger	825.00
WMBP4-24 ♦	WMBP4-24 Brazed Plate Heat Exchanger	1025.00
WMBP4-30 ♦	WMBP4-30 Brazed Plate Heat Exchanger	1200.00
WMBP4-50 ♦	WMBP4-50 Brazed Plate Heat Exchanger	1700.00
WMBP7-20 ♦	WMBP7-20 Brazed Plate Heat Exchanger	2800.00
WMBP7-24 ♦	WMBP7-24 Brazed Plate Heat Exchanger	3000.00
WMBP7-30 ♦	WMBP7-30 Brazed Plate Heat Exchanger	3200.00
WMBP7-40 ♦	WMBP7-40 Brazed Plate Heat Exchanger	3975.00
WMBP7-50 ♦	WMBP7-50 Brazed Plate Heat Exchanger	4275.00
WMBP7-60 ♦	WMBP7-60 Brazed Plate Heat Exchanger	4895.00

♦ Please allow 2 – 3 weeks for delivery

Design Information Worksheet Send this sheet in with your drawing

- 1. Dealer's name _____
- 2. Customer's name _____
- 3. Building Location _____
- 4. Desired Indoor Temperature _____
- 5. Building dimensions:
Length _____ Width _____ Height _____
- 6. Insulation R-value of:
Walls _____ Doors _____
Ceiling _____ Underslab _____



Windows, doors, desired zones & manifold locations

- 7. Ceiling Pitch (if not flat) _____
- 8. Windows Qty Length Width
 _____ _____ _____
 _____ _____ _____

___ Single Glazed ___ Double Glazed ___ Triple Glazed ___ Thermopane

- 9. Door sizes Qty Length Width
 _____ _____ _____
 _____ _____ _____

___ 3/4" Solid Core ___ 1" Solid Core ___ Solid w/ Storm ___ Insulated Core

- 10. Number of Zones _____

Please indicate doors, windows, desired zones & manifold locations on drawing above.

- 11. Type of fasteners:
___ Ties ___ Screw Clips ___ Staples
- 12. Return quote by _____ Mail _____ Fax# (____)_____

Pouring Lightweight Concrete

The pouring of lightweight concrete must be a part of the early planning stages. The finalized floor plans showing the exact position of walls, fixtures, etc. are necessary. As soon as the plywood floor deck of the building is in place, use the following steps to prepare for and pour the lightweight concrete.

- Step 1: Mark the location of all interior and exterior walls on the floor deck.
- Step 2: Cover the deck with a transparent 6-mil polyethylene moisture barrier, or spray with a suitable sealer/bond breaker. This will limit water penetration into the plywood and prevent bonding between the plywood and concrete.
- Step 3: Fasten 2 x 4 or 2 x 6 bottom plates to the floor at all locations where walls or partitions will be placed.
- Step 4: Block off for any plumbing stacks, ventilation ducts, etc. that will not be routed through partitions. Use 2 x framing lumber for blocks. These blocks can later be lifted or sawed out as necessary for the passage of mechanical systems.
- Step 5: Place the tubing on the floor, routed to the manifold location.
- Step 6: Pressure test.
- Step 7: Coat the edges of all wall plates and blocks with suitable bond-breaker material.
- Step 8: The floor is now ready for concrete. The 2 x wall plates serve as a guide for the 1.5" thick slab.
- Step 9: Float or trowel the concrete as required for the finishing floor material.
- Step 10: Framing, on the now flat floor deck, with a second plate and wall system can be started the following day.