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HEAT

INNOVATIONS
PRODUCT CATALOG

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Heat Saver Pipe

Heat Saver Pipe is a *seamless* underground hot water piping system for outdoor wood stoves, geothermal systems, solar water systems and many other water transfer applications. **Heat Saver Pipe** is thermal barrier pipe that has both the feed and return PEX lines in the center. Choose from a multiple of types and sizes. **Heat Saver Pipe** is never spliced! The flexible, corrugated pipe and the PEX tubing inside are *seamless* to ensure no ground water seepage. **Heat Saver Pipe** is wrapped four times in 1/4" thick, MicroFoil™ insulation.



HEAT Saver Pipe



NOTE: MicroFoil™ is made with Microfoam that has a melting point of 320° F, and will not be damaged due to accidental stove “boil over.” Also, this is *not* a bubble wrap insulation product that loses its insulation value when wet or when temperatures reach above 200° F.



3HST 3" Heat Shrink Tape

HydronX Pipe

Heat Innovations is proud to represent the HydronX brand of piping.

HydronX is available in pex and pex-al-pex pipe. Heat Innovations is once again offering a high quality product at a reasonable price. Talk to one of the sales staff at Heat Innovations for products specifications and installation practices!



311173	1/2" HydronX pex-al-pex Pipe	500'	coil
311174	1/2" HydronX pex-al-pex Pipe	600'	coil
311176	1/2" HydronX pex-al-pex Pipe	1000'	coil
311181	5/8" HydronX pex-al-pex Pipe	400'	coil
311190	3/4" HydronX pex-al-pex Pipe	500'	coil
311153	1" HydronX pex-al-pex Pipe	500'	coil
311109B	1/2" Pex-B Pipe Blue	600'	coil
311109R	1/2" Pex-B Pipe Red	600'	coil
3111096	1/2" Pex-B Pipe	1000'	coil
311110R	5/8" Pex-B Pipe Red	500'	coil
3111097B	3/4" Pex-B Pipe Blue	500'	coil
3111097R	3/4" Pex-B Pipe Red	500'	coil
3111318R	1" Pex-B Pipe Red	500'	coil
3111319B	1" Pex-B Pipe Blue	500'	coil

HydronX / PEX Tubing Tools



88347

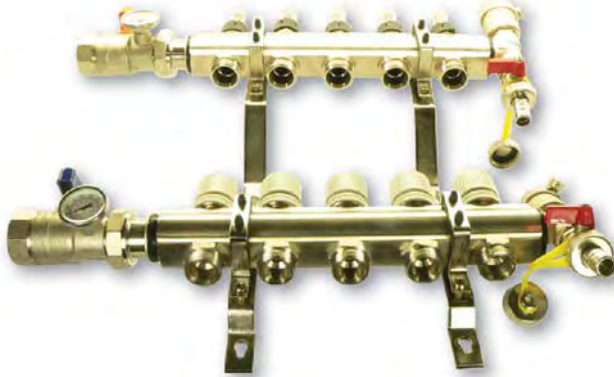
5 in 1 Beveling Tool(1/2,5/8,3/4,1)



388210

Hydronx Pipe Cutter

HydronX Manifolds & Fittings



Manifold Adapters:

3488429 1/2" PEX manifold adapter
 3488437 5/8" PEX manifold adapter
 3488363 1/2" XPA Kitec manifold adapter
 3488364 5/8" XPA Kitec manifold adapter



Manifold Actuators:

3488372 24 volt Actuator w/o end switch
 488373 24 volt Actuator w/ end switch



1" Manifold Sets:

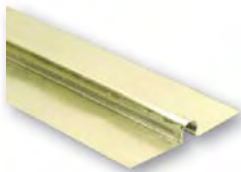
3488510 2 Loop Pre-assembled manifold less adapters
 3488511 3 Loop Pre-assembled manifold less adapters
 3488512 4 Loop Pre-assembled manifold less adapters
 3488513 5 Loop Pre-assembled manifold less adapters
 3488514 6 Loop Pre-assembled manifold less adapters
 3488515 7 Loop Pre-assembled manifold less adapters
 3488516 8 Loop Pre-assembled manifold less adapters
 3488517 9 Loop Pre-assembled manifold less adapters
 3488518 10 Loop Pre-assembled manifold less adapters
 3488519 11 Loop Pre-assembled manifold less adapters
 3488520 12 Loop Pre-assembled manifold less adapters

1-1/4" Manifold Sets:

3488521 11 Loop Pre-assembled manifold less adapters
 3488522 12 Loop Pre-assembled manifold less adapters
 3488523 13 Loop Pre-assembled manifold less adapters
 3488524 14 Loop Pre-assembled manifold less adapters
 3488525 15 Loop Pre-assembled manifold less adapters
 3488526 16 Loop Pre-assembled manifold less adapters

Complete manifold sets are preassembled for you and conveniently packaged under one product code. The set includes supply and return manifolds, balancing valves, ball valves and flow rate indicators.

Hydronic Accessories



Ideal for sub-floor or staple-up in joist applications. The heat transmission plate will permit the use of either less floor heat pipe or have lower supply water temperatures.

88395 1/2" Kitec 5"x24" Heat Transmission Plate Alum.



E0570232 1/2" Q-Talon
 E0570231 3/4" Q-Talon



Protect your floor heat pipe from sharp concrete trowels by using a protector sleeve where the pipe exits the concrete into the manifold.

88206 1" PVC Protector sleeve (for 1/2", 5/8" pipe)



488206 4" Heat shrink for 3/4" and 1" fittings
 488207 4" Heat shrink for 3/8", 1/2", & 5/8" fittings

HydronX Compression Fittings

HydronX Compression Fittings

The HydronX Composite pipe fitting is a brass insert fitting with "o" ring. It consists of an insert, split ring, and back nut.

HydronX Female Adapters:

388085	1/2H x 1/2	FIP Adapter
388066	1/2H x 3/4	FIP Adapter
388086	5/8H x 3/4	FIP Adapter
388124	3/4H x 3/4	FIP Adapter
388087	3/4H x 1	FIP Adapter
388127	1H x 1	FIP Adapter



HydronX Male Adapters:

388080	1/2H x 1/2	MIP Adapter
388121	5/8H x 1/2	MIP Adapter
388081	5/8H x 3/4	MIP Adapter
388122	3/4H x 3/4	MIP Adapter
388082	3/4H x 1	MIP Adapter
388120	1H x 1	MIP Adapter



HydronX Socket Adapters:

388135	1/2H x 1/2	C Skt Adapter
388136	5/8H x 3/4	C Skt Adapter
388148	3/4H x 3/4	C Skt Adapter
388220	3/4H x 1	C Skt Adapter
388245	1H x 1	C Skt Adapter



HydronX Spigot Adapters:

388221	3/4H x 3/4	C Spgt Adapter
388222	1H x 1	C Spgt Adapter
388138	1/2H x Cop	C Spgt Adapter



388067	3/4H x Cop	90 deg Elbow
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388068	3/4H x 3/4MPT	90 deg Elbow
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388209	1/2H x 1/2FPT	Wing Back 90
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HydronX 90's:

388095	1/2 x 90	Hydronx Elbow
388096	5/8 x 90	Hydronx Elbow
388097	3/4 x 90	Hydronx Elbow
388098	1 x 90	Hydronx Elbow



HydronX Tee:

388106	1/2 x 1/2 x 1/2	Hydronx Tee
388107	5/8 x 5/8 x 5/8	Hydronx Tee
388109	3/4 x 3/4 x 1/2	Hydronx Tee
388108	3/4 x 3/4 x 3/4	Hydronx Tee
388114	1	Hydronx Tee
388115	1 x 3/4	Hydronx Tee



HydronX Couplings:

388090	1/2	Hydronx Cplg
388091	5/8	Hydronx Cplg
388092	3/4	Hydronx Cplg
388128	1	Hydronx Cplg
388255	1 x 3/4	Hydronx Red Cplg



HydronX Caps:

388116	1/2	Hydronx Cap
388117	5/8	Hydronx Cap
388118	3/4	Hydronx Cap
388318	1	Hydronx Cap



HydronX Socket Valve:

388141	1/2H x 1/2C	Skt Vlv Hydronx
388143	5/8H x 3/4C	Skt Vlv Hydronx
388142	1/2K x 1/2	FPT Valve
388145	1/2Kx3/8	Comp Strt Valve
388146	1/2K x 3/8	Comp Angle Valve



HydronX Ball Valve:

388133	1/2	Hydronx Ball Valve
388134	5/8	Hydronx Ball Valve
388147	3/4	Hydronx Ball Valve



HydronX Split Ring:

388203	1/2	Split Ring
388204	5/8	Split Ring
388205	3/4	Split Ring
388180	1	Split Ring



HydronX O-Ring:

388200	1/2	O-ring
388201	5/8	O-ring
388202	3/4	O-ring
388199	1	O-ring



HydronX Cap Plug:

0388550	1/2	Hydronx x Cap Plug
0388551	5/8	Hydronx x Cap Plug
0388552	3/4	Hydronx x Cap Plug
0388553	1	Hydronx x Cap Plug

HydronX Pex Fittings

HydronX Pex MPT Adapters:

3188271	1/2H Pex x 1/2	MPT Adapter
3188272	3/4H Pex x 3/4	MPT Adapter
3188274	5/8H Pex x 1	MPT Adapter
3188273	1H Pex x 1	MPT Adapter



HydronX Pex 90° Elbows:

3188240	1/2	Pex 90° Adapter
3188241	5/8	Pex 90° Adapter
3188220	3/4	Pex 90° Adapter
3188230	1	Pex 90° Adapter
3188231	3/4H x 1/2	Pex 90° Adapter



HydronX Pex Tees:

3188221	1/2	Pex Tee
3188226	5/8	Pex Tee
3188227	3/4	Pex Tee
3188229	1	Pex Tee
3188225	3/4 x 1/2	Pex Tee
3188206	3/4 x 1	Pex Tee
3188207	1 x 1/2	Pex Tee
3188228	1 x 3/4	Pex Tee
3188208	1 x 3/4 x 1	Pex Tee



HydronX Pex Couplings:

3188201	1/2	Pex Couplings
3188203	5/8	Pex Couplings
3188209	3/4	Pex Couplings
3188205	1	Pex Couplings
3188202	5/8 x 1/2	Pex Couplings
3188214	3/4 x 1/2	Pex Couplings
3188210	1 x 3/4	Pex Couplings



HydronX Pex FPT:

3188261	1/2 Pex x 1/2	FPT Adapters
3188215	1/2 Pex x 3/4	FPT Adapters
3188262	5/8 Pex x 3/4	FPT Adapters
3188216	3/4 Pex x 3/4	FPT Adapters
3188263	1 Pex x 1	FPT Adapters



Pex MPT Adapters:

3188275	1/2 Pex x 3/4	MPT Adapters
3188276	5/8 Pex x 3/4	MPT Adapters
3188217	3/4 Pex x 1/2	MPT Adapters
3188218	3/4 Pex x 3/4	MPT Adapters
3188219	3/4 Pex x 1	MPT Adapters



HydronX Pex Copper Spigot Adapters:

3188211	1/2 Pex x 1/2	Cop Spgt
3188212	3/4 Pex x 3/4	Cop Spgt
3188213	1 Pex x 1	Cop Spgt



HydronX Pex Copper Spigot Male:

3188235	1/2 Pex x 1/2	C Spgt 90°
3188236	3/4 Pex x 3/4	C Spgt 90°



HydronX Pex Fittings

HydronX Pex Copper Socket Adapters:

3188280	1/2 Pex x 1/2	C Skt Adpt
3188281	3/4 Pex x 3/4	C Skt Adpt
3188326	1 Pex x 1	C Skt Adpt



HydronX Pex Copper 90°:

3188233	1/2 Pex x 3/4	C 90° Skt Female
3188234	3/4 Pex x 3/4	C 90° Skt Female

HydronX Pex Crimp Rings:

3188301	1/2	Pex Crimp Ring
3188304	5/8	Pex Crimp Ring
3188302	3/4	Pex Crimp Ring
3188303	1	Pex Crimp Ring




3188358	1/2 Pex x 1/2"	C Strt Mini Valve
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3188133	1/2	Pex Ball Valve
3188138	3/4	Pex Ball Valve
3188148	1	Pex Ball Valve





HydronX Crimp Fittings


	0388500	1/2	Hydronx Cplg Crimp
	0388501	5/8	Hydronx Cplg Crimp
	0388503	3/4	Hydronx Cplg Crimp
	0388504	1	Hydronx Cplg Crimp
	0388502	5/8 x 1/2	Hydronx Cplg Crimp
	0388505	3/4 x 5/8	Hydronx Cplg Crimp
	0388506	3/4 x 5/8	Hydronx Cplg Crimp
	0388507	1 x 3/4	Hydronx Cplg Crimp


	0388545	1/2	Hydronx x Cap Plug Crimp
	0388546	5/8	Hydronx x Cap Plug Crimp
	0388547	3/4	Hydronx x Cap Plug Crimp
	0388548	1	Hydronx x Cap Plug Crimp


	0388525	1/2H x 1/2	MPT Adapter
	0388595	1/2H x 3/4	MPT Adapter
	0388523	5/8H x 1/2	MPT Adapter
	0388526	5/8H x 3/4	MPT Adapter
	0388596	3/4H x 1/2	MPT Adapter
	0388516	3/4H x 3/4	MPT Adapter
	0388517	3/4H x 1	MPT Adapter
	0388518	1H x 1	MPT Adapter

	0388519	1/2H x 1/2	FPT Adapter
	0388597	1/2H x 3/4	FPT Adapter
	0388527	5/8H x 3/4	FPT Adapter
	0388520	3/4H x 3/4	FPT Adapter
	0388521	3/4H x 1	FPT Adapter
	0388522	1H x 1	FPT Adapter


	0388528	1/2H x 1/2	Cop Soc Adapter
	0388564	1/2H x 3/4	Cop Soc Adapter
	0388599	3/4H x 1/2	Cop Soc Adapter
	0388561	3/4H x 3/4	Cop Soc Adapter
	0388562	3/4H x 1	Cop Soc Adapter
	0388563	1H x 1	Cop Soc Adapter


	0388530	1/2H x 1/2	Cop SPGT Adapter
	0388531	5/8H x 3/4	Cop SPGT Adapter
	0388524	3/4H x 3/4	Cop SPGT Adapter
	0388560	1H x 1	Cop SPGT Adapter


	0388537	1/2H x 1/2	Cop Soc 90° Elbow
	088538	5/8 x 3/4	Cop Soc 90° Elbow
	088539	3/4 x 3/4	Cop Soc 90° Elbow

	0388590	1/2 x 1/2MPT	90° Elbow Adapter
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HydronX Crimp Fittings

	0388543	1/2H x 1/2FPT	Wingback 90° Adapter
	0388544	3/4H x 3/4FPT	Wingback 90° Adapter

	0388535	1/2	Hydronx 90° Elbow
	0388536	5/8	Hydronx 90° Elbow
	0388533	3/4	Hydronx 90° Elbow
	0388534	1	Hydronx 90° Elbow

	0388510	1/2	Hydronx Tee Crimp
	0388511	5/8	Hydronx Tee Crimp
	0388565	3/4	Hydronx Tee Crimp
	0388569	1	Hydronx Tee Crimp
	0388566	3/4x1/2x1/2	Hydronx Tee Crimp
	0388567	3/4x3/4x1/2	Hydronx Tee Crimp
	0388573	3/4x3/4x1	Hydronx Tee Crimp
	0388576	1x1x1/2	Hydronx Tee Crimp
	0388570	1x1x3/4	Hydronx Tee Crimp

3188375 Hydronx Pex Crimp Tool Kit



Manifold Material



Header material available in various sizes and lengths.

Loop Headers:

CC152	2 Loop Header
CC153	3 Loop Header
CC154	4 Loop Header
CC156	6 Loop Header
CC157	7 Loop Header
CC158	8 Loop Header
CC159	9 Loop Header
CC1510	10 Loop Header
CC1511	11 Loop Header
CC1512	12 Loop Header

Cut-to-Size 72" Headers:

88140	1" Main Header x 1/2" Outlet
88152	1" Main Header x 3/4" Outlet
88160	1 1/4" Main Header x 1/2" Outlet
88161	1 1/4" Main Header x 3/4" Outlet
88162	1 1/2" Main Header x 1/2" Outlet
88163	1 1/2" Main Header x 3/4" Outlet
88165	2" Main Header x 3/4" Outlet

Natural Gas and Propane Boilers



Ti100	100,000 BTU/HR	Trinity Condensing Boiler (Heating Only)
Ti150	150,000 BTU/HR	Trinity Condensing Boiler (Heating Only)
Ti200	200,000 BTU/HR	Trinity Condensing Boiler (CRN) (Heating Only)
Ti400	400,000 BTU/HR	Trinity Condensing Boiler (Heating Only)



The Combo Units come complete with a built-in domestic hot water heat exchanger.

Ti150C	150,000 BTU/HR	Trinity Condensing Boiler (Combo Unit)
Ti200C	200,000 BTU/HR	Trinity Condensing Boiler (CRN) (Combo Unit)

The ultra efficient (94% efficient) boiler and water heater by NTI can be easily vented with ABS or CPVC piping thru the wall or roof. The condenser is made with corrosion resistant stainless steel. The Trinity comes complete with the Sentry 2100 controller which operates the boiler, heating pump and auxiliary pump. It provides outdoor reset which automatically adjusts the boiler temperature based on the outdoor temperature to save you money and increase your comfort.

Specifications:

Overall Dimensions:	15"x20.5"x23"
Shipping Weight:	80 lbs
3/4"NPT Supply/Return	

Thermolec Electric Boilers



B6M	6 KW	Thermolec Electric Boiler	240 Volt
B8M	8 KW	Thermolec Electric Boiler	240 Volt
B10M	10 KW	Thermolec Electric Boiler	240 Volt
B15M	15 KW	Thermolec Electric Boiler	240 Volt
B18M	18 KW	Thermolec Electric Boiler	240 Volt
B20M	20 KW	Thermolec Electric Boiler	240 Volt
B23M	23 KW	Thermolec Electric Boiler	240 Volt
B27M	27 KW	Thermolec Electric Boiler	240 Volt

**also available in 208 volt and 600 volt and with dual fuel units*



Specifications:

Overall Dimensions:	18" x 18" x 9.5"
Shipping Weight:	35 lbs
Connection Sizes:	1 1/4" connection

Electric Boilers

The Lion electric boiler by Concept MFG. is the clean, safe, and reliable choice. The differential staging of elements will permit the operation of a minimum number of elements to maintain the desired temperature.



CEB-3	3 Kilowatt	Hydronic Electric Boiler 240 volt	12.5 amps
CEB-5	5 Kilowatt	Hydronic Electric Boiler 240 volt	20.8 amps
CEB-6	6 Kilowatt	Hydronic Electric Boiler 240 volt	25.0 amps
CEB-8	8 Kilowatt	Hydronic Electric Boiler 240 volt	33.3 amps
CEB-9	9 Kilowatt	Hydronic Electric Boiler 240 volt	37.5 amps
CEB-10	10 Kilowatt	Hydronic Electric Boiler 240 volt	41.7 amps
CEB-12	12 Kilowatt	Hydronic Electric Boiler 240 volt	50.0 amps
CEB-15	15 Kilowatt	Hydronic Electric Boiler 240 volt	62.6 amps
CEB-18	18 Kilowatt	Hydronic Electric Boiler 240 volt	75.0 amps
CEB-20	20 Kilowatt	Hydronic Electric Boiler 240 volt	83.3 amps
CEB-23	23 Kilowatt	Hydronic Electric Boiler 240 volt	95.8 amps
CEB-25	25 Kilowatt	Hydronic Electric Boiler 240 volt	104.2 amps
CEB-28	28 Kilowatt	Hydronic Electric Boiler 240 volt	116.7 amps
CEB-208-15	14.4 Kilowatt	Hydronic Electric Boiler 208 volt	40.0 amps
CEB-208-22.5	22.5 Kilowatt	Hydronic Electric Boiler 208 volt	62.5 amps
CEB-208-30	28.8 Kilowatt	Hydronic Electric Boiler 208 volt	80.0 amps
CEB-600-15	14.4 Kilowatt	Hydronic Electric Boiler 600 volt	13.9 amps
CEB-600-30	28.8 Kilowatt	Hydronic Electric Boiler 600 volt	27.7 amps

Specifications:

Overall Dimensions: 25-1/4"H x 12-5/8"D x 8"W
 Shipping weight: 40kgs
 1-1/4 NPT Supply and Return
 2 Year Warranty



Oil Fired Boilers

OB1000 and OB2000
 High Efficiency oil fired boilers
 are up to 86% efficient.

The OB series comes with a 20 year limited warranty. Options include domestic hot water coil and power venting.

Oil Fired Boiler:

OB1000BE	90,000-140,000 BTU/HR	Oil Fired Boiler (Becket burner)
OB1000F3R	102,000 BTU/HR	Oil Fired Boiler (Riello F3 burner)
OB1000F5R	120,000-176,000 BTU/HR	Oil Fired Boiler (Riello F5 burner)
OB2000F10R	213,000-328,000 BTU/HR	Oil Fired Boiler (Riello burner)

Oil Fired Boiler complete with Tjernlund Side Shot venting system:

OB2000*	213,000-328,000 BTU/HR	Oil Fired Boiler (Riello burner) with Tjernlund Wall Vent Kit
OB1000*	102,000-176,000 BTU/HR	Oil Fired Boiler with Tjernlund Wall Vent Kit

Specifications:

Overall Dim.:	20"D x 20"W x 33"H	231/4"D x 231/4"W x 381/2"H
Ship Weight:	370 lbs ship weight	515 lbs ship weight
	1/4" NPT	1 1/4" NPT
	15USG	20USG

The Balanced Flue system utilizes this OB1000 Benjamin boiler and comes complete with an energy efficient vent system. The system allows a simple side wall vent termination. It is called the Balanced Flue because as it draws air from the outside to fuel the burner, exhaust fumes are expelled from the combustion chamber.

Balanced Flue Oil Fired Boiler:

OB1000BF3	91,400-108,900 BTU/HR	Balanced Flue Oil Fired Boiler (Riello burner)
OB1000BF5	121,500-153,600 BTU/HR	Balanced Flue Oil Fired Boiler (Riello burner)

Balanced Flue Vent Kit:

OB1000BF10	10'	Balanced Flue Vent Kit
OB1000BF15	15'	Balanced Flue Vent Kit
OB1000BF20	20'	Balanced Flue Vent Kit



Oil/Wood Combination Hot Water Boiler



CF500A*	101,200-118,300 BTU/HR	Oil/Wood Boiler (Aero burner)
CF500BE*	106,600-118,700 BTU/HR	Oil/Wood Boiler (Beckett burner)
CF500R*	107,000-120,700 BTU/HR	Oil/Wood Boiler (Riello burner)

This boiler comes complete with domestic hot water coil and a large wood fire box (19-1/2"x23-1/4").

Specifications:

- Overall Dimensions: 29-3/4"L x 24-1/4"W x 47"H
- Shipping Weight: 890 lbs
- Water Capacity: 40 Gallons
- 1-1/4" supply and return NPT
- 12"x14" Cast Iron Wood Fire Door
- 2—7" I.D. Smoke Pipe
- 6 Year Limited Warranty

Control Kit:

Transformers (2)	Triple Aquastat
Tridicator	Circulator Pump (2)
Single Aquastat	Pressure Relief Valve
Normally Open Zone Valve	Flame Retention Burner
Damper Motor w/ chain	Hot Water Control
Pressure Reducing Valve	1/2" Drain

Oil/Wood Combination Hot Air Furnace



FS140A	101,200-118,300 BTU/HR	Oil/Wood Hot Air Furnace (Aero burner)
FS140BE	106,600-118,700 BTU/HR	Oil/Wood Hot Air Furnace (Beckett burner)
FS140R	107,000-120,700 BTU/HR	Oil/Wood Hot Air Furnace (Riello burner)

Up to 85.4% efficient on oil, the wood firebox (18"x21"x24") may never get used. The oil and wood use separate chambers. The fuel will switch from wood to oil automatically if heat is not satisfied.

Specifications:

- Overall Dimensions: 53-1/4"L x 26"W x 47-1/4"H
- Shipping Weight: 550 lbs
- Warm Air Plenum: 24"x30"
- Return Air Plenum: 24"x18"
- 12"x14" Cast Iron Wood Fire Door
- 7" I.D. Smoke Pipe
- 6 Year Limited Warranty

Control Kit:

Thermostats (2)	Damper Motor
Fan Limit C/W Bracket	Burner
Switching Relay	Primary Control Kit Pre-Wired

Wood Hot Air Furnace



WK400	Wood Hot Air Furnace Complete with 1300 CFM Blower
WK400A	Wood Hot Air Furnace Add-on Without Blower

This furnace is certified to be installed either by itself (with optional blower) or in conjunction with an existing warm air furnace. Firebox size is 22"x29-1/3" and an optional blower can be mounted on either side of unit.

Specifications:

- Overall Dimensions: 34"L x 28"W x 43"H
- Shipping Weight: 360 lbs
- Warm Air Plenum: 24"x30"
- 7" I.D. Smoke Pipe
- 2"x14" Cast Iron Wood Fire Door
- 6 Year Limited Warranty

Control Kit:

Damper Motor	J-Box / Cover	Transformer
Fan Limit c/w bracket	Thermostat	

Indoor Wood Fired Boilers

DO110	90,000 BTU/HR Wood Fired Boiler
DO180	150,000 BTU/HR Wood Fired Boiler

The "Dutch Oven" concept of completely surrounding the firebox with cooling water prevents damage from overheating and eliminates the need for firebrick. This boiler is made of steel plate for long life.



Specifications:

	DO110	DO180
Overall Dimensions:	29 1/2" L x 24 1/4" W x 32" D	41 1/2" L x 27" W x 36" H
Chimney:	7" I.D. Smoke Pipe	8" I.D. Smoke Pipe
Cast Iron Wood Fire Door:	12" x 14"	12" x 14"
Water Capacity:	31 US Gallons	54 US Gallons
Shipping Weight:	510 lbs	710 lbs
Domestic Hot Water Coil:	Standard	Standard
Round Firebox:	20" Diameter x 23-1/4" Tall	23-1/2" Diameter x 35" Tall

Control Kits:

Transformer (2)	Damper Motor	Triple Aquastat
Normally Open Zone Valve	Pressure Safety Relief Valve	
1/2" Drain Valve	Tridicator	
1-1/4" Supply/Return (Connections)		

Wasser Wood/Coal Fired Boiler



Two models available:

WC100	95,000 BTU/HR	Wood/Coal Fired Boiler
WC200	190,000 BTU/HR	Wood/Coal Fired Boiler

*BTU ratings are approximate

This boiler is designed to be installed in your basement, garage or shop. Shaker grate combustion chamber with secondary air ensures high efficiency combustion of wood and/or coal. The shaker grate also makes maintenance easier and cleaner, as does the removable ash pan with its own door. The large firebox door makes fueling easy.

Features:

- Comes with shaker grates and ash pan
- Optional electric back up
- Optional domestic coil (heat DHW)
- 7 year limited warranty

Grain Aeration

Accurate temperature controlled aeration is now possible using the Desert Air aeration system.

This system utilizes a 36" square radiator that can accommodate 6000 cfm. Each system comes equipped with an automatic plenum temperature sensor control and mixing pump and can be hooked up to any boiler system (wood, coal, oil, natural gas, propane, or electric). Call the qualified sales staff at Heat Innovations on how the Desert Air Grain Drying System can save your farm money and time.



Portable Fan-Coils

Maybe ground thaw is not what you need on your construction site.



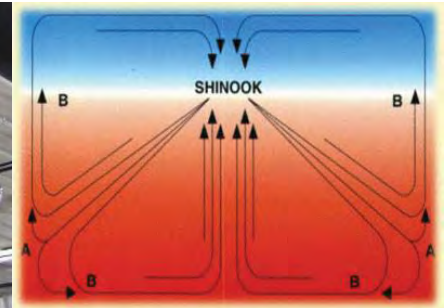
The POLAR GUARD can be used to provide space heating to single level or multi-level buildings. This can be done utilizing the HEATWAVE construction heater. Construction workers can breathe easier because the toxic fumes and fire risks are kept outside. This is done by pumping a propylene glycol heat transfer fluid from the POLAR GUARD through the 200,000 btu/hr coil on the HEATWAVE.

The HEATWAVE comes with a 6000 cfm fan for superior heat distribution and more comfortable heat. Add to that the portability and heating a construction site becomes quick and easy.

High Efficiency Fan Coils

Realize up to 30% energy savings over traditional fan forced heating systems.

The Shinook evenly distributes heat in buildings with 12' or higher ceilings. The Shinook consists of a spiral shaped, aluminum, rib tube element through which hot water is circulated. A specially designed fan is mounted above the heating element. The fan blades gently push a continuous stream of warmed air down and out to the bottom perimeter of the room (A). The under pressure of the fan then causes the air to circulate in both directions from the bottom perimeter (B).



Specifications:

Air Capacity:	Approx. 575,000 cu. Ft/hr
Air Stream:	Adjustable and controllable
Motor:	1/3 HP 120 Volt; 860 RPM (controllable)
Heat Capacity:	18.5 KW 56,000 BTU @ water temperature of 90/70°C
Water Resistance:	1.24 PSI
Connection Size at Water Side:	3/4" MPT
Weight:	57 LBS

Air Make Up Units

Ideal for welding shops and paint booths where air make up is required.



The Comfort Air can be connected with any hot water source including natural gas, propane, oil, electric boilers and wood/coal furnaces. Each unit comes complete with a large 36" x 36" radiator to accommodate up to 6000 CFM's and a circulating pump piped in. Also included is a thermostatically controlled 3 way diverting valve. This facilitates accurate temperature control by measuring incoming air temperature and adjusting the water mix accordingly. All connections are 3/4" copper connections. Custom size air make ups may be ordered.

For ratings on radiator see chart below (36" x 36" - 2 row radiator).

36AMU 36" Air Make Up Heater

Water to Air Heat Exchanger Radiators

PART #	RAD SIZE	ROWS	GALLONS PER MINUTE	CUBIC FEET PER MINUTE	ENTERING WATER TEMP	LEAVING WATER TEMP	AIR PRESSURE DROP	WATER PRESSURE DROP	BTU PER HOUR
89026	12 X 14	2	3	650	140	122.7	0.29	2.89	25,520
	12 X 14	2	3	650	180	153.5	0.29	2.68	38,704
89027	17 X 20	2	6	1200	140	123.7	0.25	3.01	48,160
	17 X 20	2	6	1200	180	154.4	0.25	2.79	74,600
89028	17 X 20	3	6	1200	140	120.5	0.37	0.67	57,602
	17 X 20	3	6	1200	180	149.4	0.37	0.62	89,593
890281	18 X 18	3	6	1200	140	125.2	0.27	2.80	43,660
	18 X 18	3	6	1200	180	156.3	0.27	2.70	69,460
89029	23 X 24	3	6	1850	140	110.9	0.36	2.36	86,175
	23 X 24	3	6	1850	180	134.5	0.36	1.96	133,519
890291	36 X 36	2	6	6000	140	98.2	0.14	6.08	126,308
	36 X 36	2	6	6000	180	113.1	0.14	6.08	200,536

FIGURES ARE BASED ON ENTERING AIR TEMPERATURE OF 70 DEGREES F.

Along with the industry standard sizes, HEAT INNOVATIONS also provides special order coils to meet many different needs. Extra long fin lengths, intermediate tube supports and a wide variety of tube wall and fin thicknesses are available. Casings can be constructed of heavy steel, aluminum, stainless steel or copper. Optional connection materials such as steel, monel, red brass or copper (sweat) are offered along with butt weld or flange type connections. Coil coatings can be baked phenolic, electro-tin, zinc, or hot dipped galvanized. These are just a few of the special order coils that HEAT INNOVATIONS can provide.

Consult your local HEAT INNOVATIONS representative for all your coil needs.



17"x20" 2 Row Radiator
(1/2" FTG Solder Connection)
89027



17"x20" 3 Row Radiator
(1" FTG Solder Connection)
89028



23"x24" 3 Row Radiator
(1" FTG Solder Connection)
89029



36"x36" 2 Row Radiator
(3/4" FTG Solder Connection)
890291

Fan Coils



MXC08	800 CFM Air Handler	120 Volt 3 Speed	67K BTU
MXC12	1200 CFM Air Handler	120 Volt 3 Speed	94K BTU
MXC16	1600 CFM Air Handler	120 Volt 3 Speed	108K BTU
MXC20	2000 CFM Air Handler	120 Volt 3 Speed	124K BTU

Ventilation



LIFEBREATH offers the Clean Air Furnace to those that want a Heat Recovery Ventilator with an integrated hot water coil for space heating.

Heat Recovery Ventilator

Specifications and Performance Quick Reference Guide

MODEL NO.	95 MAX*	155 MAX*	200 MAX*	MAXTOP*	200 ERV*	195 DCS*	300 DCS*
AIRFLOW WG (PA)	CFM (L/S)	CFM (L/S)	CFM (L/S)	CFM (L/S)	CFM (L/S)	CFM (L/S)	CFM (L/S)
.1 (25PA)	89 (42)	169 (80)	232 (109)	196 (93)	195 (92)	203 (96)	265 (125)
.2 (50PA)	78 (37)	161 (76)	223 (105)	188 (89)	185 (87)	191 (90)	260 (125)
.3 (75PA)	64 (30)	150 (71)	215 (102)	178 (84)	175 (83)	182 (86)	250 (118)
.4 (100PA)	36 (17)	130 (61)	195 (92)	165 (78)	160 (76)	167 (79)	235 (111)
.5 (125PA)	N/A	56 (26)	189 (89)	149 (71)	145 (68)	155 (73)	220 (104)
EFFECTIVENESS @ 25 C	80%	83%	79%	83%	N/A	87%	87%
DEFROST TYPE	Recirculate	Recirculate	Recirculate	Recirculate	N/A	Damper	Damper
DIMENSIONS							
H x W x D (IN)	24.5 x 18.5 x 16	19 x 31 x 14.75	19 x 32.5 x 14.75	25.5 x 22.5 x 26.5	19 x 31 x 14.75	19 x 49 x 14.75	19 x 49 x 14.75
H x W x D (MM)	622 x 470 x 406	483 x 775 x 375	483 x 828 x 375	648 x 572 x 673	483 x 775 x 375	483 x 1245 x 375	483 x 1245 x 375
ELECTRICAL	All units are 5 speed 120 VAC/60HZ/1Phase						
	All units have a 5 year warranty on parts, lifetime on the heat exchanger core, except the 200ERV which is 5 years fro both						
Options:	All above units are capable of operating via remote low voltage controls. Check shop drawings and accessories for details						

Nutech reserves the right to make changes without prior notification.

* Not Usually Stocked

Stainless Steel Plate Water-Water Heat Exchangers



B3-027-10	BP5x12-10	Flatplate Heat Exchangers	1" MPT
B3-027-20	BP5x12-20	Flatplate Heat Exchangers	1" MPT
B3-028-30	BP5x12-30	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-40	BP5x12-40	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-50	BP5x12-50	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-60	BP5x12-60	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-70	BP5x12-70	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-80	BP5x12-80	Flatplate Heat Exchangers	1 1/4" MPT
B3-028-90	BP5x12-90	Flatplate Heat Exchangers	1 1/4" MPT

* custom sizing available

Call the Sales and Design staff at HEAT INNOVATIONS for sizing and pricing.

Brazed plate exchangers are the heat transfer method of choice if efficiency and high performance are required. Made of stainless steel these brazed plate exchangers will last a lifetime. Ideal for domestic water heating, back-up boiler, and a multitude of other applications.

Brass and Copper Water-Water Heat Exchangers

- 89025 48" (1-1/2"OD x 3/4"Through Pipe x 1"Inlet) SideArm Water to Water Heat Exchanger
 - 890250 60" (1-1/2"OD x 3/4"Through Pipe x 1"Inlet) SideArm Water to Water Heat Exchanger
 - 89025-2 48" (2"OD x 1"Through Pipe x 3/4"Inlet) SideArm Water to Water Heat Exchanger
- **Pump may be added for more capacity*



Copper finned coil inside a steel casing. Ideal for domestic hot water applications or for heating your floor with your natural gas or electric hot water tank.

The Side Arm is the common choice for heating domestic water. It consists of a copper tube inside a larger copper tube. Affordably priced.



GEF-2 90,000 BTU/HR Universal 90 Water-Water Heat Exchanger

Stainless Steel Pool and Spa Water-Water Heat Exchangers

Spa Heat Exchanger:

- 89023 50,000 BTU Water-Water
- 890230 75,000 BTU Water-Water
- 89024 150,000 BTU Water-Water

Pool Heat Exchanger:

- 890240 300,000 BTU Water-Water
- 890241 400,000 BTU Water-Water



Call us for information on other sizes.

Stainless Steel coil inside a stainless steel case make this the ideal heat exchanger for pools or spas.

Call the Sales and Design staff at HEAT INNOVATIONS for sizing and pricing information.

Baseboard Radiators and Fittings



Nu White Slant/Fin Baseboard:

- E7010003 2' Slant/Fin Baseboard
- E7010008 3' Slant/Fin Baseboard
- E7010027 4' Slant/Fin Baseboard
- E7010029 5' Slant/Fin Baseboard
- E7010030 6' Slant/Fin Baseboard
- E7010031 7' Slant/Fin Baseboard
- E7010032 8' Slant/Fin Baseboard

Nu White Baseboard Accessories:

- E7010033 4" LH End Cap
- E7010043 4" RH End Cap
- E7011300 Inside Corner
- E7011305 2" LH End Cap
- E7011306 2" RH End Cap
- E7011310 Baseboard Splice Plate



WATER FLOW	PRESSURE DROP	HOT WATER RATINGS (BTU/hr.) F = DEGREES IN FAHRENHEIT								
		140	150	160	170	180	190	200	210	215
1 GPM	47	320	380	450	510	580	640	710	770	810
4 GPM	525	640	400	480	540	610	680	750	810	860

Model: Fine/Line 30 Baseboard
Height: 7 7/8" Length: 2-14 feet
Depth: 2 11/16"

The Fine/Line 30 super strong enclosure features a fully adjustable damper and extra heavy support brackets with cutouts for return piping. Double bent aluminum fins won't loosen. Long-lasting self-adjusting plastic expansion cradles eliminate noisy metal to metal contact.



- 89045 1x1x3/4 Copper Sweat Baseboard Tee
- VF075050 3/4x3/4x1/2 Copper Sweat Baseboard Tee
- VF100050 1x1x1/2 Copper Sweat Baseboard Tee
- VF125050 1-1/4x1-1/4x1/2 Copper Sweat Baseboard Tee
- VF125075 1-1/4x1-1/4x3/4 Copper Sweat Baseboard Tee

Taco Venturi Tees are designed to divert water flow from a given zone to the by-pass loop. The flow from the zone is partially diverted through the by-pass and then returned back into the zone. The Venturi Fitting creates a differential pressure that makes some of the flow divert through the by-pass and back to the zone.

Wall-Mount Radiators



389030 Wall-Mount Radiator 680 BTU per section*
 * Section dimensions 6.8" x 3.1" x 3.5"



389033 19" Radiator Wrench
 389034 11" Radiator Wrench



389031 Radiator Accessory Kit

In-Direct Water Heaters

The **AEROSO Series Indirect Water Heaters** are available in 4 storage capacities and are made using high grade ferritic stainless steel. Each tank is equipped with a well mounted aqua stat to control the heating water flow to the coil and comes with a 15 year warranty on the inner vessel.



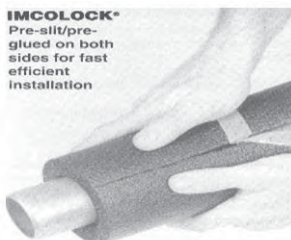
MODEL	VOLUME		COIL					PERFORMANCE						
	USG	LITRES	NPT CONN.	O.D.	CAPACITY		HEATING SURFACE SQ. FT.	BOILER FLOW US GPM	GROSS BOILER OUTPUT BTU/HR	PRESSURE DROP (FT.W.C.)	@ 180 F SUPPLY		@ 200 F SUPPLY	
					USG	LITRES					1ST HR @ 140 F	RECOVERY @ 90 F RISE	1ST HR @ 140 F	RECOVERY @ 90 F RISE
RTV-40	39.6	149	3/4"	1"	1.17	4.43	7.64	11	135,000	5.3	151	111	182	141
RTV-52	51.3	194	3/4"	1"	1.56	5.91	10.01	11	173,000	8.7	192	141	231	180
RTV-75	74.5	282	3/4"	1"	1.56	5.91	10.01	11	190,000	8.7	216	136	253	173
RTV-75D	74.5	282	3/4"	1"	2.34	8.86	15.28	22	265,000	10.6	295	215	355	275
RTV-119	118.9	450	1"	1 3/8"	4.60	17.40	21.31	15	252,000	3.1	298	178	337	217

Notes: Inlet water temperature based on 50° F
 RTV-75D has 2 coils
 RTV-119 Supplied with 3 extra plugged tappings.
 RTV-119 equipped with steel casing.
 1" supply/return piping is recommended on heat source side.



MODEL	DIMENSIONS (IN)							WEIGHT (LBS)		
	HEIGHT	DIAMETER	COLD SUPPLY	BOILER RETURN	BOILER SUPPLY	RETURN	SUPPLY	EMPTY	FULL	SHIPPING
	A	B	C	D	E	F	G			
RTV-40	38	23 3/4	7 1/4	11 1/2	27 1/4	-	-	60	382	83
RTV-52	47 3/4	23 3/4	7 1/4	11 1/2	27 3/4	-	-	69	499	93
RTV-75	65 1/2	23 1/4	7 1/4	11 1/2	28	-	-	90	709	117
RTV-75D	65 1/2	23 3/4	7 1/4	11 1/2	27 1/2	*38	*54	103	717	130
RTV-119	62	31	10 1/4	16 3/4	44 3/8	-	-	270	1257	315

Insulation



IMCOLOCK®
 Pre-slit/pre-glued on both sides for fast efficient installation

High Temperature Insulation:
 89037 24" x 48" x 1"

High Temp Insulation

Imcolock Pipe Insulation:
 819229* 7/8" x 6'
 89032 1-1/8" x 6'

Pipe Insulation
 Pipe Insulation

* Not Usually Stocked

Thermostats

Honeywell



#4774550
110 Volt Vertical White Single Pole Line Voltage Thermostat (T410A1021)

Honeywell provides economy thermostats that give reliable line voltage control of resistive rated electric heating equipment. Snap-action switch makes heating circuit on temperature fall.

Features:

- Economical.
- Easy to install; 6 in. (150 mm) color-coded leads.
- Include long-lasting Micro Switch™ mechanism.
- Rugged, plastic mounting base and one-piece cover with vents.
- Ideally suited to new construction applications.

WR WHITE-RODGERS



751448
24 Volt Vertical White Single Stage Heat Only Thermostat (1E30W311)



1E78-140 Single Stage Heat Only

1E78-151 Single Stage Heat / Cool

Transformers



89050 75VA Transformer

EMT4024 24VA Transformer

Under Slab Insulation



Reflective Insulation

Under Concrete Application (Alum. - 1 side / polyvinyl - other side):

16125A1V	16" x 125'	Single Bubble (R5) Roll	(167 square feet)
48125A1V	48" x 125'	Single Bubble (R5) Roll	(500 square feet)
96125A1V	96" x 125'	Single Bubble (R5) Roll	(1000 square feet)
2WVT	2"	White Vinyl Tape	
TAPE	2"- 3" & 4"	Poly Tape	

Floor Joist, Wall Insulation Application (Aluminum both sides)

16125DBA	16" x 125'	Double Bubble (R10) Roll	(167 square feet)
48125DBA	48" x 125'	Double Bubble (R10) Roll	(500 square feet)

****Bubble foil seconds available, limited quantities in stock**

Thread Sealants and Solders



E9510223

Masters Pro-Dope Pipe Joint Compound with Teflon 250 ml

E9510212

Masters Metallic Pipe Joint Compound 250 ml



TT480

1/2" White Teflon Tape

506070

1/2" Pink Boiler Teflon Tape



E4030016

S39 Liquid Solder Flux 320 ml

E4030015

S39 Liquid Solder Flux 80 ml



SP50

Solder Paste 50 Gram

PG14

14 grams Plumbers Grease

PG2

20 oz Plumbers Grease



P481F 1-1/2 x 5 Yards Sand Paper Roll



50/50 Solder:

5050227	50/50 227gram Solder
5050500	50/50 500gram Solder
5050454	50/50 1lb Bar Solder

Lead Free Solder:

955500	95/5 500gram Lead Free Solder
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T300 Universal Radiator Comb



T100 Radiator Comb with 6 Interchangeable comb attachments



1300AB Acid Brush

Water Treatment Products

The inhibitors in automotive glycol are silicate based for aluminum engines and not the mild steel or stainless steel found in outdoor furnaces. The long term solubility of silicates is poor, which is why they recommend you replace your cars antifreeze every few years. In a hydronic system, the silicates will form a nasty gel. All warranties are void on boilers, furnaces, pumps, and hydronic components if the inappropriate anti-freeze is used.

Corrosion Inhibitors:

89038

1 Gallon Boiler Treatment PH modifier and corrosion inhibitor (available in 45 gallon barrels also)



Anti-Freeze with Inhibitors:

89039

1 Gallon Propylene Pro-Tek Non-Toxic Glycol



Testing Equipment:

PH600

PH Tester w/ case



Testing Equipment:

996055

Anti-Freeze Tester w/ case



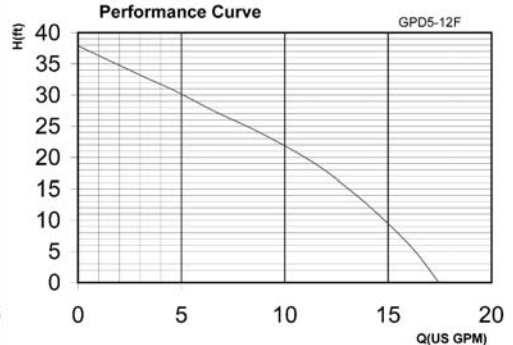
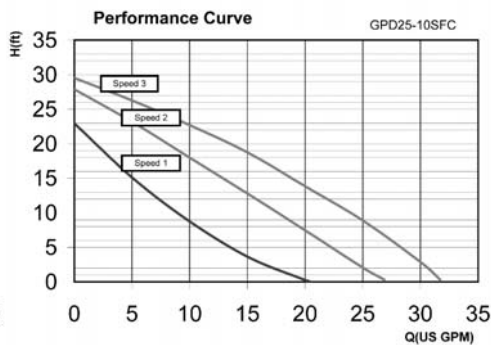
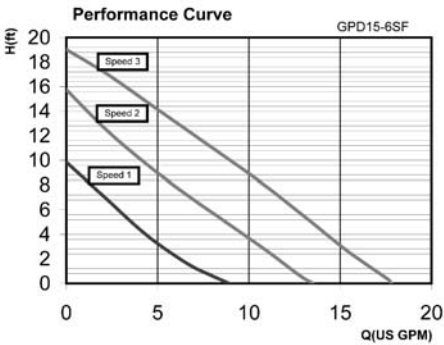
Wasser Pumps



- Features:**
- Multiple Speed Technology
 - Removable Check Valve

Pumps:

GPD-15-6SF	Wasser Cast Pump	115V
GPD-25-10SF	Wasser Cast Pump	115V
GPD-25-12F	Wasser Cast Pump	230V



WASSER		GRUNDFOS	TACO	B & G	ARMSTRONG
GPD 15-6SF	HIGH	UPS15-58FC/FRC	055, 007, 008, 0010-IFC	NRF-22, LR-20WR	ASTRO 30
	MEDIUM	UPS15-58FC/FRC	004, 004-IFC, 0107, 007-IFC, 008, 008-IFC 0010-IFC, 00R-IFC	NRF-9/LW	ASTRO 25
	LOW	UPS15-58FC/FRC	005, 005-IFC, 006, 006-IFC		ASTRO 20
GPD 25-10SF	HIGH	UPS26-99FC	0011, 0013-IFC, 0014	NRF-36 SP-2, NRF-45 SP-2	E7
	MEDIUM	UPS26-99FC	0011, 0011-IFC, 0014, 0014-IFC	SERIES 100, PL-30, PR, NRF-36 SP-1, NRF-45 SP-1	ASTRO 50, H41
	LOW	UPS26-99FC		LR-15BWR	ASTRO 30
GPD 25-12F	SINGLE SPEED	UP26-116F		PL36 (1/6)	ArmFlo E8 (1/6) ArmFlo E9 (1/6)

The VersaFlo UPS Series



Pumps:

59896362	UPS15-58F Cast Pump
52722540	UPS26-99FC Cast Pump
52722513	UPS26-99FC 230V

Features:

- Wet Rotor technology
- Industry standard flange-to-flange dimensions for easy retrofit applications
- Built-in motor protection for long life
- Quiet, maintenance free performance for peace of mind
- Three-speed control for a variety of applications
- Newly designed Grundfos convergent vane impeller provides optimum efficiency and lower operating cost
- Also available in a Dual Model

Isolation Flanges:

591203	3/4" FPT Shut-off Flanges
591204	1" FPT Shut-off Flanges
591205	1-1/4" FPT Shut-off Flanges
591208	3/4" sweat Shut-off Flanges
591209	1" sweat Shut-off Flanges
591210	1-1/4" sweat Shut-off Flanges

Pump Flanges:

00519601	3/4" IP Flanges
00519602	1" IP Flanges
00519603	1-1/4" IP Flanges
00519604	1-1/2" IP Flanges

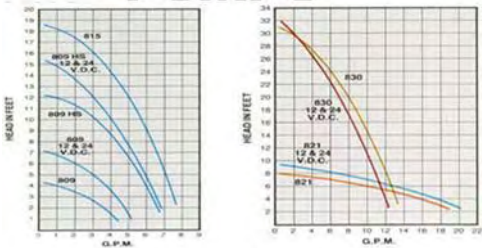
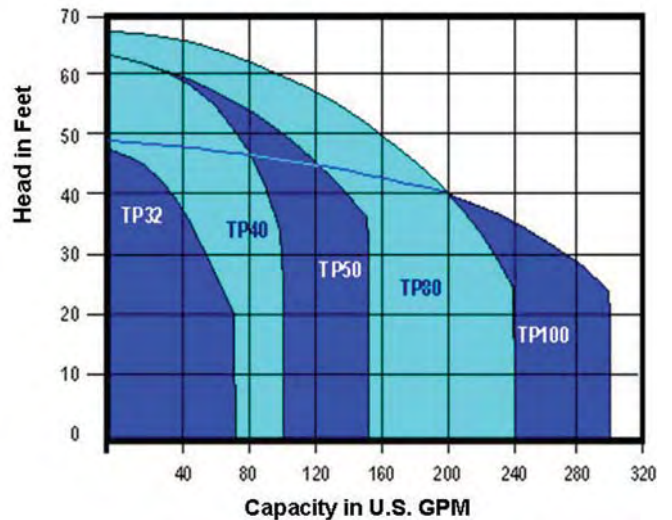
Pump Cartridges:

00599378	UPS15-58FC/FRC Cartridge
00526062	UP26-99

Applications:

- Geothermal Systems
- Temperature Conditioning
- HVAC Hot and Chilled Water
- Cooling Tower Heat Exchangers
- Commercial Hot Water Recirculation
- Commercial Heating and Fan Coil Systems
- Industrial
- Agricultural
- Commercial Solar
- Snow Melting

VersaFlo TP Performance



Performance

March Pumps

Bronze Pumps (No Flange Required):

809BR	1/2" MPT	Bronze March Pump
809HSBR	1/2" MPT	High Speed Bronze March Pump
809HSBR12	1/2" MPT	Bronze 12 Volt March Pump
815BR	1/2" MPT	Bronze March Pump

Cast Pumps (Flanges Required):

821CI	821CI	Cast March Pump
830CI	830CI	Cast March Pump

***Use Taco pump flanges on March cast iron pumps.

March hydronic circulating pumps are available in a variety of different sizes. Models are available in 12 volt, 24 volt, 115 volt, and 230 volt. Service is easy as motors can be removed without draining system. The March system is a seal-less magnetic drive for the ultimate in reliability.

(Must be mounted in dust free environments as they are air-cooled)



Non-Potable Water Expansion Tanks

Watts Industries



MODEL	SIZE (DN)		TANK CONN. VOLUME		VOLUME		ACCEPTANCE DIAMETER		LENGTH		WEIGHT	
	in.	mm.	gals.	liters	gals.	liters	in.	mm.	in.	mm.	lbs.	kgs.
ET-15	1/2	15	2.1	8	1.4	5.3	7 13/16	198	11 13/16	300	5	2.3
ET-30	1/2	15	4.7	17.8	3	11.4	10 5/8	269	15	381	8	3.7
ET-60	1/2	15	6.6	25	4.3	16.3	12 3/16	310	15	381	14	6.3
ET-90	3/4	20	13	49	8	30.4	15	381	21 1/8	536	26.5	12

Tanks:
 89065 ETX-15 Expansion Tank
 89066 ETX-30 Expansion Tank
 89067 ETX-60 Expansion Tank
 890671 ETX-90 Expansion Tank

Series ET non potable water expansion tanks are designed to absorb the increased volume of water created when the hot water boiler is heated and keep the system pressure below the relief setting of the relief valve. Consult Heat Innovations design staff for accurate calculations.

Open Expansion Tanks



For open systems only. This expansion tanks comes in 2 standard stock sizes but custom sizes may be ordered. This steel expansion tank comes with a lid and standard 1" MPT connection at the bottom. Sight tubes and fittings must be ordered separately.

Expansion Tanks:

866010 6"x14"x24"(high) 8.7 Gallon Steel Expansion Tank
 866011 6"x14"x16"(high) 5.8 Gallon Steel Expansion Tank

Fittings and Sight Tubes:

139-6D 3/8" Insert x 1/2" MPT 90° brass elbow (2 required / unit)
 JFT-86 3/8" I.D. Clear Hose (2' req. for #866010 and 1' req. for #866011)

Air Eliminators



89074 1" NPT Air Scoop (431)
 89075 1-1/4" NPT Air Scoop (432)
 89075-1 1-1/2" NPT Air Scoop (433)
 89075-2 2" NPT Air Scoop (434)



88510 1/8" NPT Hy-Vent Auto Vent
 88509 1/8" NPT Manual Vent

2 Way Zone Valve (24 Volt)

EMC Enertech offers a 2 Way Zone Valve that is more affordably priced but not as quiet. Each unit requires three inverted flare connections. Each valve has a 110 volt end switch.



V050E350GA1 EMC 2 Way Zone Valve with end switch
 N05050 1/2 Inverted Flare Fitting
 N05075 3/4 Inverted Flare Fitting
 N05100 1 Inverted Flare Fitting

EMC Enertech offers a 3 Way Zone Valve that is more economically priced however not as quiet. Each valve has a built-in 110 volt end switch. Each unit requires three inverted flare connections..

V050E375GA1 EMC 3 Way Zone Valve w/end switch
 N05050 1/2" Inverted Flare Fitting
 N05075 3/4" Inverted Flare Fitting
 N05100 1" Inverted Flare Fitting

3 Way Zone Valves (24 Volt)



Taco offers the 555 Series 3 Way Zone Valve for bypass applications. This valve dependability and quietness make it top choice by contractors. Non-unionized sweat connections are standard. The power head and internal spring assembly may be ordered separately if service is necessary.



890710	1/2	3 Way Sweat Zone Valve w/Bypass
890720	3/4	3 Way Sweat Zone Valve w/Bypass
89073	1	3 Way Sweat Zone Valve w/Bypass

3 Way Zone Valve Replacement Parts:

555-151RP	Taco 3 Way Power Head
562-007RP	Taco 3 Way Valve and Spring Assembly

2 Way Zone Valves (24 Volt)



The 570 Series Zone Valve offers the same features as the Taco 555 Series (above) with exception to having no bypass. All connections are sweat and this unit should not be used in 40 plus PSI applications.

89069	1/2	2 Way Zone Valve
89070	3/4	2 Way Zone Valve
89071	1	2 Way Zone Valve
89072	1-1/4	2 Way Zone Valve

Taco offers the Geothermal Zone Valves for high pressure applications (domestic PSI). All connections are sweat.

556G	3/4	2 Way Geothermal Zone Valve
557G	1	2 Way Geothermal Zone Valve



2 Way Zone Valve Replacement Parts:

555-173RP	Taco 2 Way	Geothermal Power Head
571-004RP	Taco 2 Way	Valve and Spring Assembly
555-050RP	Taco 2 Way	555 Series Power Head

3 Way Mixing / Diverting Valves



The AM Series Mixing Valve delivers fail-safe security in a high flow, low head loss valve. With an extended mix temperature range of 85 to 150 deg F, it provides the ultimate performance across multiple mixing and diverting applications. All units have sweat union connections.

AM101RUS1	3/4"	Mixing Valve Union	Sweat
AM102RUS1	1"	Mixing Valve Union	Sweat
AM101RUT1	3/4"	Mixing Valve Union	NPT
AM102RUT1	1"	Mixing Valve Union	NPT

For mixing and diverting applications where a remote temperature sensor is required such as sensing air temperature or surface mount to a pipe, we offer the Honeywell Mixing Control. All sizes have sweat connections.

Order valve and thermostatic sensor separately.

Diverting Valve:

89104	V135A1014	1" -3 Way Mixing / Diverting
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Thermostatic Sensor:

89106	T100R1004	Thermostatic Cont w/ 6'8" Remote Sensor (50-122F)
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For larger commercial and industrial projects Heat Innovations offers Belimo mixing and diverting valves. The Belimo valves are available in sizes up to 12" in a variety of different control methods such as spring return, non-spring return, 2 position, and modulating. The benefits of the Belimo system is the characterizing disc. The characterized disc system allows equal percent flow and better CV values. Belimo valves are constructed of forged brass with a non-corroding chrome-plated brass or stainless ball.

Consult the qualified staff at Heat Innovations for proper sizing.

Zone Valve Controls

AZEL TECHNOLOGIES INC.



The i-Link series Zone Valve Controls simplify the field wiring and yet control up to six zone valves in a multi-zone hydronic heating system. The contractor friendly Printed Circuit Board eliminates the problem caused by incorrect wiring and saves hours of installation time. There would be no more “messy” look of conventional zone valve installations.

SZ-V4 4 Zone Valve Controller
 SZ-V6 6 Zone Valve Controller

Zone Pump Controllers

AZEL TECHNOLOGIES INC.



The i-Link series multi-zone circulator switching relays simplify wiring for hydronic heating (radiant floor heating) systems. With leading edge features and superior product design, i-Link makes installation quick and easy.

SP-81 1 Zone Switching Relay (Pump controller)
 SP-82 2 Zone Switching Relay (Pump controller)
 SP-83 3 Zone Switching Relay (Pump controller)
 SP-84 4 Zone Switching Relay (Pump controller)

Fill and Relief Valves

Honeywell



89068 Fast Fill Reducing Valve
Pressure reducing valve for automatic control of hot water boiler make up and other pressure reducing applications

- Adjustable 4-60 psi
- Fast-fill feature
- Built-in check valve
- Stainless steel filter
- Pressure balanced piston design
- Union connection sweat and threaded
- Complete bronze/brass construction

Watts Industries



E3330311 3/4”MPT x 3/4”FPT outlet Residential Boiler Pressure Relief Valve (M335)
 - 30 PSI
 - 510,000 BTU/HR Maximum

Low Water Cut-offs



LNA1203S1 Taco 120 Volt Auto Reset
Low Water Cut-Off
LNA0243S1 Taco 24 Volt Auto Reset
Low Water Cut-Off



999900 OEM 170 Low Water Cut-Off
999912 OEM 650 Low Water Cut-Off with Test Button



MM900 McDonnell & Miller RB120 120 Volt
Low Water Cut-Off



89060 McDonnell & Miller 64A 120 Volt Low
Water Cut-Off



Taco and McDonnell & Miller offer the probe style low water cut-off. Can be used in most applications including commercial, residential, and industrial. (check local codes) All connections are 3/4" NPT.



McDonnell & Miller offers the float style low water cut-off for any hot water and steam application. Can be used in residential, commercial, or industrial situations.



131100
GEMS LS-7 Level Switch
(Homesteader)

Flow Switches



E3330017 FS10-C 1" Flow Switch

For commercial boiler applications a flow switch is required for safety reason. McDonnell & Miller offers the paddle style flow switch. Dual voltage is standard.



Aquastats



89055 L4006A1017 Temperature Controller with well (1/2"NPT)
763314 L6006C1034 Temperature Controller—surface mount

89057 Well (1/2" NPT) Compatible with
L4006A1017 and L6008A1192

L4006E1042 C6000 Honeywell High Limit
89056 Honeywell Triple Aquastat



A19ADC-37C Hot Water Temperature Control High Limit

Single Stage:

ETC111000 120 Volt Electronic Temp Control w/ Remote Capillary
ETC112000 24 Volt Electronic Temp Control w/ Remote Capillary

Dual Stage:

ETC212000 12 Volt ETC Dual Stage Electron Temp Control
ETC212100 24 Volt ETC Dual Stage Electron Temp Control



Honeywell Aquastats are available in a few different configurations — surface mount, direct bulb with well, or remote bulb with well. Maybe be used in 24 Volt, 120 Volt, or 240 Volt scenarios.



Ranco Aquastats come with a standard remote capillary and are digital. Available in 24 Volt and 120 Volt.

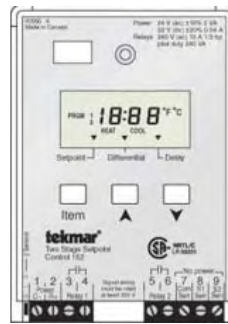
Tekmar Controls

Thermostats



Tekmar thermostats have been designed with state of the art technology and packaged in a compact and attractive enclosures. The Tekmar control systems thermostats are designed to increase the comfort levels in your home. At the same time these thermostats have been designed to be simple to use.

Set Point Controls



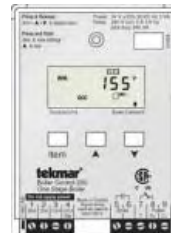
The Mixing Set point Controls are a microprocessor-based control with a floating action output intended to operate an actuating motor for a valve or damper. They can be used for heating applications to maintain a set supply water or air temperature. An optional return sensor can be used to ensure a minimum boiler return temperature. An adjustable throttling range and set point temperature allows this control to be used in a wide variety of applications.

Sensors for Tekmar Thermostats



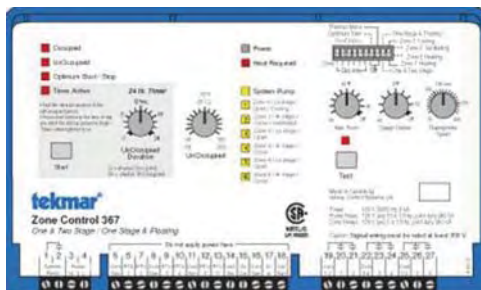
The Tekmar Universal Sensor have a zinc sleeve for fast response and a wide operating range. These sensors can be used in a multitude of applications.

Boiler DHW Controls



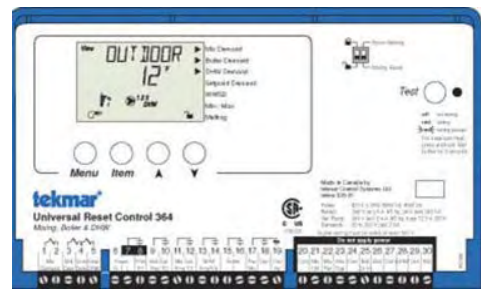
The Boiler controls are a microprocessor based control designed to stage and rotate multiple boiler stages to maximize the comfort and efficiency of a hydronic heating system.

Heating Controls-Integrated



The House Control is a microprocessor-based control that integrates boiler or mixing outdoor reset with DHW control and zone control. Up to 4 zones of either baseboard (hot water) heating or radiant floor (warm temperature) heating can be directly controlled by the 370. Additional Tekmar zone controls can be connected to the 370. The 370 has a built-in 24 hour night setback timer and an Optimum Start/Stop (intelligent setback recovery) function. The 370 can control a cooling system and provide DHW priority.

Heating Controls-Stand Alone



The Universal Reset Controls are a microprocessor control designed to maximize the comfort and efficiency provided by a hydronic heating system. The control automatically adjusts the boiler and mixed loop water temperature that are delivered to the heating system by using an outdoor reset.

Thermometers



890580 Round Thermometer

Features:

- 2-1/2" Face
- Separable well
- 1/2" NPT connection
- 30-250 deg temperature range

Valves



Copper Standard Port Ball Valves:

760C03	1/2	CxC Ball Valve
760C04	3/4	CxC Ball Valve
760C05	1	CxC Ball Valve
760C06	1 1/4	CxC Ball Valve
760C07	1 1/2	CxC Ball Valve
760C08	2	CxC Ball Valve



IPS Standard Port Ball Valves:

760T03	1/2	IPS Ball Valve
760T04	3/4	IPS Ball Valve
760T05	1	IPS Ball Valve
760T06	1 1/4	IPS Ball Valve
760T07	1 1/2	IPS Ball Valve
760T08	2	IPS Ball Valve



3 Way Ball Valve:

E0374570	3/4" IPS	3 Way L-Port Ball Valve
E0374571	1" IPS	3 Way L-Port Ball Valve
E1234502	3/4" Copper	3 Way Ball Valve



Boiler Drains:

204TM3	1/2	Sediment Faucet
204TM4	3/4	Sediment Faucet



IPS Swing Checks:

520T03	1/2	IPS Swing Check
520T04	3/4	IPS Swing Check
520T05	1	IPS Swing Check
520T06	1 1/4	IPS Swing Check

Black Malleable Fittings



90° Elbow Black (FPTxFPT):

0210130	1/8	Blk 90° Elbow
0210131	1/4	Blk 90° Elbow
0213400	3/8	Blk 90° Elbow
0210132	1/2	Blk 90° Elbow
0210133	3/4	Blk 90° Elbow
0210134	1	Blk 90° Elbow
0217010	1 1/4	Blk 90° Elbow
0217011	1 1/2	Blk 90° Elbow
0217012	2	Blk 90° Elbow
0210200	2 1/2	Blk 90° Elbow



90° Street Elbow Black (FPTxMPT):

0217063	1/8	Blk Str. 90° Elbow
0217014	1/4	Blk Str. 90° Elbow
0217015	3/8	Blk Str. 90° Elbow
0210144	1/2	Blk Str. 90° Elbow
0210172	3/4	Blk Str. 90° Elbow
0217013	1	Blk Str. 90° Elbow
0217016	1 1/4	Blk Str. 90° Elbow
0217017	1 1/2	Blk Str. 90° Elbow
0211419	2	Blk Str. 90° Elbow

***45° Elbow Black (FPTxFPT):**

0210935	1/8	Blk 45° Elbow
0210951	1/4	Blk 45° Elbow
0210142	1/2	Blk 45° Elbow
0210141	1	Blk 45° Elbow
0217019	1 1/4	Blk 45° Elbow
0217021	2	Blk 45° Elbow

***45° Street Elbow Black (FPTxMPT):**

0211532	1/8	Blk Str. 45° Elbow
0211559	1/4	Blk Str. 45° Elbow
0211575	3/8	Blk Str. 45° Elbow
0211591	1/2	Blk Str. 45° Elbow
0211613	3/4	Blk Str. 45° Elbow
0211630	1	Blk Str. 45° Elbow
0211664	1 1/4	Blk Str. 45° Elbow
0211648	1 1/2	Blk Str. 45° Elbow
0211621	2	Blk Str. 45° Elbow

Equal Black Tee:

0211672	1/8	Blk Tee
0210174	1/4	Blk Tee
0210175	3/8	Blk Tee
0210176	1/2	Blk Tee
0210177	3/4	Blk Tee
0210178	1	Blk Tee
0217022	1 1/4	Blk Tee
0217023	1 1/2	Blk Tee
0211842	2	Blk Tee



***Black Steel Fittings larger and smaller than 1" may not be a stocked item*

**Non stock item*

Black Malleable Fittings



Reducing 90° Elbow Black FPTxFPT):

0210323	1/4x1/8	Blk 90° Elbow
0210340	3/8x1/8	Blk 90° Elbow
0210366	3/8x1/4	Blk 90° Elbow
0210455	1/2x1/8	Blk 90° Elbow
0210439	1/2x1/4	Blk 90° Elbow
0217057	1/2x3/8	Blk 90° Elbow
0210315	3/4x1/8	Blk 90° Elbow
0210498	3/4x3/8	Blk 90° Elbow
0210331	1x1/4	Blk 90° Elbow
0210552	1x3/8	Blk 90° Elbow
0217059	1x1/2	Blk 90° Elbow
0217060	1x3/4	Blk 90° Elbow
0210617	1 1/4x3/4	Blk 90° Elbow
0210595	1 1/4x1	Blk 90° Elbow
0210714	1 1/2x1/2	Blk 90° Elbow
0210692	1 1/2x3/4	Blk 90° Elbow
0210676	1 1/2x1	Blk 90° Elbow
0210650	1 1/2x1 1/4	Blk 90° Elbow
0210803	2x3/4	Blk 90° Elbow
0210781	2x1	Blk 90° Elbow
0210740	2x1 1/2	Blk 90° Elbow
0210765	2x1 1/4	Blk 90° Elbow

Reducing Black Tee:

0212075	1/2x1/4	Blk Tee
0212054	1/2x3/8	Blk Tee
0212261	1/2x3/4	Blk Tee
0212598	1/2x1	Blk Tee
0212156	3/4x1/4	Blk Tee
0212172	3/4x3/8	Blk Tee
0213404	3/4x1/2	Blk Tee
0212245	3/4x1/2x1/2	Blk Tee
0212221	3/4x1/2x3/4	Blk Tee
0212610	3/4x1/2x1	Blk Tee
0212555	3/4x1	Blk Tee
0212571	3/4x1 1/4	Blk Tee
0212407	1x1/4	Blk Tee
0212385	1x3/8	Blk Tee
0217066	1x1/2	Blk Tee
0212482	1x1/2x1	Blk Tee
0212466	1x3/4x1/2	Blk Tee
0212342	1x3/4	Blk Tee
0212440	1x3/4x3/4	Blk Tee
0212423	1x3/4x1	Blk Tee
0212776	1 1/4x3/8	Blk Tee
0212750	1 1/4x1/2	Blk Tee
0212989	1 1/4x1/2x1	Blk Tee
0212962	1 1/4x1/2x1 1/4	Blk Tee
0212733	1 1/4x3/4	Blk Tee
0212946	1 1/4x3/4x3/4	Blk Tee
0212920	1 1/4x3/4x1	Blk Tee
0212903	1 1/4x3/4x1 1/4	Blk Tee
0212717	1 1/4x1	Blk Tee
0212865	1 1/4x1x1/2	Blk Tee
0212843	1 1/4x1x3/4	Blk Tee
0212814	1 1/4x1x1	Blk Tee
0212792	1 1/4x1x1 1/4	Blk Tee
0212326	1x1 1/4	Blk Tee
0212695	1 1/4x1 1/2	Blk Tee



Black Malleable Fittings



Reducing Black Tee Cont'd:

0212679	1 1/4x2	Blk Tee
0210026	1 1/2x3/4x1/2	Blk Tee
0213098	1 1/2x1/2	Blk Tee
0213071	1 1/2x3/4	Blk Tee
0213314	1 1/2x3/4x3/4	Blk Tee
0213055	1 1/2x1	Blk Tee
0213276	1 1/2x1x1	Blk Tee
0213250	1 1/2x1x1 1/4	Blk Tee
0213195	1 1/2x1 1/4x1/2	Blk Tee
0213152	1 1/2x1 1/4x1	Blk Tee
0213136	1 1/2x1 1/4x1 1/4	Blk Tee
0213110	1 1/2x1 1/4x 1 1/2	Blk Tee
0213034	1 1/2x1 1/4	Blk Tee
0210028	2x1x1	Blk Tee
0211796	2x1 1/4x1	Blk Tee
0210005	2x1 1/2x3/4	Blk Tee
0213446	2x1/2	Blk Tee
0213420	2x3/4	Blk Tee
0213659	2x3/4x2	Blk Tee
0213403	2x1	Blk Tee
0213381	2x1 1/4	Blk Tee
0213616	2x1 1/4x1 1/4	Blk Tee
0213594	2x1 1/4x1 1/2	Blk Tee
0213578	2x1 1/4x2	Blk Tee
0213365	2x1 1/2	Blk Tee
0213551	2x1 1/2x1	Blk Tee
0213535	2x1 1/2x1 1/4	Blk Tee
0213489	2x1 1/2x2	Blk Tee

Black Cross Tee:

0210773	1/8	Blk Cross Tee
0211001	3/8	Blk Cross Tee
0214230	1/2	Blk Cross Tee
0214256	3/4	Blk Cross Tee
0214272	1	Blk Cross Tee
0214299	1 1/4	Blk Cross Tee
0214325	1 1/2	Blk Cross Tee
0214345	2	Blk Cross Tee



Black Unions:

0217123	1/8	Blk Union
0217140	1/4	Blk Union
0217166	3/8	Blk Union
0212050	1/2	Blk Union
0212051	3/4	Blk Union
0210352	1	Blk Union
0217050	1 1/4	Blk Union
0217051	1 1/2	Blk Union
0217052	2	Blk Union



Floor Flanges:

0217053	1	Blk Floor Flange
0217054	1 1/4	Blk Floor Flange
0217055	1 1/2	Blk Floor Flange
0217056	2	Blk Floor Flange



***Black Steel Fittings larger and smaller than 1" may not be a stocked item*

Black Malleable Fittings



Reducing Bushings (MPTxFPT):

0211815	3/8x1/8	Blk Bushing
0210450	3/8x1/4	Blk Bushing
0211817	1/2x1/8	Blk Bushing
0217085	1/2x1/4	Blk Bushing
0212608	1/2x3/8	Blk Bushing
0211821	3/4x1/8	Blk Bushing
0211820	3/4x1/4	Blk Bushing
0217086	3/4x3/8	Blk Bushing
0212609	3/4x1/2	Blk Bushing
0211825	1x1/4	Blk Bushing
0217087	1x3/8	Blk Bushing
0212612	1x1/2	Blk Bushing
0212611	1x3/4	Blk Bushing
0211833	1 1/4x1/4	Blk Bushing
0211831	1 1/4x1/2	Blk Bushing
0211830	1 1/4x3/4	Blk Bushing
0217035	1 1/4x1	Blk Bushing
0212600	1 1/2x1/8	Blk Bushing
0211840	1 1/2x1/4	Blk Bushing
0211838	1 1/2x1/2	Blk Bushing
0211837	1 1/2x3/4	Blk Bushing
0211836	1 1/2x1	Blk Bushing
0217038	1 1/2x1 1/4	Blk Bushing
0211849	2x1/8	Blk Bushing
0211848	2x1/4	Blk Bushing
0211847	2x3/8	Blk Bushing
0211846	2x1/2	Blk Bushing
0211845	2x3/4	Blk Bushing
0211844	2x1	Blk Bushing
0211843	2x1 1/4	Blk Bushing
0217043	2x1 1/2	Blk Bushing
0211853	2 1/2x1 1/4	Blk Bushing
0211852	2 1/2x1 1/2	Blk Bushing
0211851	2 1/2x2	Blk Bushing
0211858	3x2	Blk Bushing

Black Steel Weldable Couplings:

0216135	1/8	Blk Steel Coupling
0216151	1/4	Blk Steel Coupling
0216178	3/8	Blk Steel Coupling
0216194	1/2	Blk Steel Coupling
0216216	3/4	Blk Steel Coupling
0216232	1	Blk Steel Coupling
0216259	1 1/4	Blk Steel Coupling
0216275	1 1/2	Blk Steel Coupling
0216291	2	Blk Steel Coupling

Equal Black Coupling:

0210179	1/8	Blk Coupling
0210440	3/8	Blk Coupling
0210441	1/2	Blk Coupling
0210442	3/4	Blk Coupling
0210443	1	Blk Coupling
0217025	1 1/4	Blk Coupling
0217026	1 1/2	Blk Coupling
0217027	2	Blk Coupling



Black Malleable Fittings



Reducing Coupling:

0215198	1/4x1/8	Blk Coupling
0215236	3/8x1/8	Blk Coupling
0215210	3/8x1/4	Blk Coupling
0215279	1/2x1/4	Blk Coupling
0217028	1/2x3/8	Blk Coupling
0215376	3/4x1/8	Blk Coupling
0215350	3/4x1/4	Blk Coupling
0215333	3/4x3/8	Blk Coupling
0210448	3/4x1/2	Blk Coupling
0215392	1x1/4	Blk Coupling
0215465	1x3/8	Blk Coupling
0217030	1x1/2	Blk Coupling
0217029	1x3/4	Blk Coupling
0215520	1 1/4x1/2	Blk Coupling
0215503	1 1/4x3/4	Blk Coupling
0217031	1 1/4x1	Blk Coupling
0215616	1 1/2x1/2	Blk Coupling
0215589	1 1/2x3/4	Blk Coupling
0215562	1 1/2x1	Blk Coupling
0217079	1 1/2x1 1/4	Blk Coupling
0215716	2x1/2	Blk Coupling
0215694	2x3/4	Blk Coupling
0215678	2x1	Blk Coupling
0215651	2x1 1/4	Blk Coupling
0215635	2x1 1/2	Blk Coupling
0215759	2 1/2x1 1/2	Blk Coupling
0215732	2 1/2x2	Blk Coupling

Black Plug (MPT):

0210444	1/8	Blk Sq. Head Plug
0210445	1/4	Blk Sq. Head Plug
0210446	3/8	Blk Sq. Head Plug
0210947	1/2	Blk Sq. Head Plug
0210948	3/4	Blk Sq. Head Plug
0210949	1	Blk Sq. Head Plug
0217047	1 1/4	Blk Sq. Head Plug
0217048	1 1/2	Blk Sq. Head Plug
0217049	2	Blk Sq. Head Plug



Black Caps (FPT):

0214426	1/8	Blk Cap
0210136	1/4	Blk Cap
0210437	3/8	Blk Cap
0210138	1/2	Blk Cap
0210139	3/4	Blk Cap
0210140	1	Blk Cap
0217044	1 1/4	Blk Cap
0217045	1 1/2	Blk Cap
0214582	2	Blk Cap
0214604	2 1/2	Blk Cap
0214655	3 1/2	Blk Cap



Black Steel Nipples



1/8" Black Steel Nipples:

3016100	1/8xClose	Blk Nipple
3010058	1/8x1 1/2	Blk Nipple
3016102	1/8x2	Blk Nipple
3010108	1/8x2 1/2	Blk Nipple
3010136	1/8x3	Blk Nipple
3010155	1/8x3 1/2	Blk Nipple
3010171	1/8x4	Blk Nipple
3010198	1/8x4 1/2	Blk Nipple
3010210	1/8x5	Blk Nipple
3010236	1/8x5 1/2	Blk Nipple

1/4" Black Steel Nipples:

3016105	1/4xClose	Blk Nipple
3016106	1/4x1 1/2	Blk Nipple
3016107	1/4x2	Blk Nipple
3010376	1/4x2 1/2	Blk Nipple
3016910	1/4x3	Blk Nipple
3010414	1/4x3 1/2	Blk Nipple
3016911	1/4x4	Blk Nipple
3016148	1/4x4 1/2	Blk Nipple
3016149	1/4x5	Blk Nipple
3016150	1/4x5 1/2	Blk Nipple
3016151	1/4x6	Blk Nipple

3/8" Black Steel Nipples:

3016110	3/8xClose	Blk Nipple
3016111	3/8x1 1/2	Blk Nipple
3016112	3/8x2	Blk Nipple
3016109	3/8x2 1/2	Blk Nipple
3016912	3/8x3	Blk Nipple
3016152	3/8x3 1/2	Blk Nipple
3016913	3/8x4	Blk Nipple
3016153	3/8x4 1/2	Blk Nipple
3016113	3/8x5	Blk Nipple
3010759	3/8x5 1/2	Blk Nipple
3016914	3/8x6	Blk Nipple

1/2" Black Steel Nipples:

3016115	1/2xClose	Blk Nipple
3016116	1/2x1 1/2	Blk Nipple
3016117	1/2x2	Blk Nipple
3016123	1/2x2 1/2	Blk Nipple
3016118	1/2x3	Blk Nipple
3016126	1/2x3 1/2	Blk Nipple
3016119	1/2x4	Blk Nipple
3016129	1/2x4 1/2	Blk Nipple
3016120	1/2x5	Blk Nipple
3016130	1/2x5 1/2	Blk Nipple
3016121	1/2x6	Blk Nipple

3/4" Black Steel Nipples:

3016122	3/4xclose	Blk Nipple
3016131	3/4x1 1/2	Blk Nipple
3016124	3/4x2	Blk Nipple
3016132	3/4x2 1/2	Blk Nipple
3016125	3/4x3	Blk Nipple
3016134	3/4x3 1/2	Blk Nipple
3016135	3/4x4	Blk Nipple
3016136	3/4x4 1/2	Blk Nipple
3016127	3/4x5	Blk Nipple
3016137	3/4x5 1/2	Blk Nipple
3016128	3/4x6	Blk Nipple

Black Steel Nipples



1" Black Steel Nipples:

3016915	1xClose	Blk Nipple
3016916	1x2	Blk Nipple
3016139	1x2 1/2	Blk Nipple
3016917	1x3	Blk Nipple
3016140	1x3 1/2	Blk Nipple
3016918	1x4	Blk Nipple
3016155	1x4 1/2	Blk Nipple
3016133	1x5	Blk Nipple
3016156	1x5 1/2	Blk Nipple
3016919	1x6	Blk Nipple

1 1/4" Black Steel Nipples:

3016920	1 1/4xClose	Blk Nipple
3016921	1 1/4x2	Blk Nipple
3016157	1 1/4x2 1/2	Blk Nipple
3016922	1 1/4x3	Blk Nipple
3016158	1 1/4x3 1/2	Blk Nipple
3016923	1 1/4x4	Blk Nipple
3016159	1 1/4x4 1/2	Blk Nipple
3016924	1 1/4x5	Blk Nipple
3016160	1 1/4x5 1/2	Blk Nipple
3016925	1 1/4x6	Blk Nipple

1 1/2" Black Steel Nipples:

3016926	1 1/2xClose	Blk Nipple
3016927	1 1/2x2	Blk Nipple
3016161	1 1/2x2 1/2	Blk Nipple
3016928	1 1/2x3	Blk Nipple
3016162	1 1/2x3 1/2	Blk Nipple
3016929	1 1/2x4	Blk Nipple
3016163	1 1/2x4 1/2	Blk Nipple
3016930	1 1/2x5	Blk Nipple
3016164	1 1/2x5 1/2	Blk Nipple
3016931	1 1/2x6	Blk Nipple

2" Black Steel Nipples:

3016932	2xClose	Blk Nipple
3016165	2x2 1/2	Blk Nipple
3016933	2x3	Blk Nipple
3012379	2x3 1/2	Blk Nipple
3016934	2x4	Blk Nipple
3012417	2x4 1/2	Blk Nipple
3016935	2x5	Blk Nipple
3012450	2x5 1/2	Blk Nipple
3016936	2x6	Blk Nipple

2 1/2" Black Steel Nipples:

3012573	2 1/2xClose	Blk Nipple
3012590	2 1/2x3	Blk Nipple
3012611	2 1/2x3 1/2	Blk Nipple
3012638	2 1/2x4	Blk Nipple
3012654	2 1/2x4 1/2	Blk Nipple
3012684	2 1/2x5	Blk Nipple
3012718	2 1/2x5 1/2	Blk Nipple

**Black Steel Fittings larger and smaller than 1" may not be a stocked item

Brass Fittings and Nipples



Brass 90° Degree Elbows:

E0270113	3/4	Brass 90° Elbow
E0270148	1	Brass 90° Elbow



Brass Couplings:

E0272944	3/4	Brass Coupling
E0272973	1	Brass Coupling



Brass Tees:

E0271632	3/4	Brass Tee
E0271667	1	Brass Tee
E0271670	1x3/4	Brass Tee



3/4" Brass Nipples:

E3030002	3/4x1 1/2	Brass Nipple
E3031446	3/4x2	Brass Nipple
E3031519	3/4x3	Brass Nipple
E3031578	3/4x4	Brass Nipple

1" Brass Nipples:

E3031797	1x2	Brass Nipple
E3031853	1x3	Brass Nipple

**additional brass fittings can be purchased through special orders

Copper Fittings



Copper 90° Elbow:

E0110078	1/2	Cop 90° Elbow
E0110094	3/4	Cop 90° Elbow
E0110116	1	Cop 90° Elbow
E0110132	1 1/4	Cop 90° Elbow
112C90	1 1/2	Cop 90° Elbow
E0110175	2	Cop 90° Elbow



Spigot Copper 90° Elbow:

E0110728	1/2	Cop Ftg 90° Elbow
E0110744	3/4	Cop Ftg 90° Elbow
E0110774	1	Cop Ftg 90° Elbow
E0110795	1 1/4	Cop Ftg 90° Elbow



Equal Copper Tee:

E0111333	1/2	Cop Tee
E0111350	3/4	Cop Tee
E0111376	1	Cop Tee
E0111392	1 1/4	Cop Tee



Reducing Copper Tee:

E0111899	1/2x3/4	Cop Tee
E0111791	3/4x1/2	Cop Tee
E0111830	3/4x1/2x3/4	Cop Tee
E0112003	1x1/2	Cop Tee
E0111988	1x3/4	Cop Tee
E0112062	1x3/4x3/4	Cop Tee
11434114CT	1-1/4x3/4x1-1/4	Cop Tee
1121CT	1x1/2x1	Cop Tee



Copper Union:

E0113527	3/4	Cop Union
E0113931	1	Cop Union

Copper Fittings



Bleeder 90° Elbow (C-FPT-C):

E0113050	3/4x1/8x3/4	Bleeder 90°
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Copper Caps:

E0116840	1/2	Cop Cap
E0116866	3/4	Cop Cap
E0116882	1	Cop Cap
E0116904	1 1/4	Cop Cap
E0116931	1 1/2	Cop Cap
E0116955	2	Cop Cap
212CC	2 1/2	Cop Cap



Copper Bushing:

E0113743	1/2"x 1/8"	Vent Bushing (copper)
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Copper—FPT Adapter:

E0114278	1/2x1/4	Cop x FPT Adapter
E0114049	1/2	Cop x FPT Adapter
E0114294	1/2x3/4	Cop x FPT Adapter
E0114065	3/4	Cop x FPT Adapter
E0114332	1x3/4	Cop x FPT Adapter
E0114081	1	Cop x FPT Adapter
E0114103	1 1/4	Cop x FPT Adapter
E0114120	1 1/2	Cop x FPT Adapter



Copper—MPT Adapter:

E0114600	1/2x3/4	Copx MPT Adapter
E0114723	3/4x1/2	Copx MPT Adapter
E0114391	3/4	Copx MPT Adapter
E0114413	1	Cop x MPT Adapter
E0114430	1 1/4	Cop x MPT Adapter
E0114456	1 1/2	Cop x MPT Adapter
E0114472	2	Cop x MPT Adapter



Copper Coupling:

E0115142	1/2	Cop Coupling
E0115169	3/4	Cop Coupling
E0115185	1	Cop Coupling
E0115207	1 1/4	Cop Coupling
E0115223	1 1/2	Cop Coupling



Reducing Copper Coupling:

E0115371	1/2x3/8	Cop Coupling
E0115410	3/4x1/2	Cop Coupling
E0115452	1x3/4	Cop Coupling
E0115533	1 1/4x3/4	Cop Coupling
E0115517	1 1/4x1	Cop Coupling
E0115592	1 1/2x1	Cop Coupling
212CCU	2 1/2x2	Cop Coupling
3438CC	3/4x3/8	Cop Bushing



Reducing Copper Bushing (Ftgxcop):

E0116142	3/4x1/2	Cop Bushing
E0115479	1x1/2	Cop Bushing
E0116181	1x3/4	Cop Bushing
E0116262	1-1/4x 3/4	Cop Bushing
E0116246	1 1/4x1	Cop Bushing

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