

Yearly Maintenance & Treatments

Pages 3-8



Boiler Parts, Tools & Trade Accessories Pages 9-12



**Electronic Controls Pages 13-15** 



Schaefer Brushes Page 16



Installation Kits Pages 17-19



Wood Furnace Blowers Pages 20-22



Water Pumps Pages 23-26



Flanges & Cartridges Pages 26-27



Plate, Tube & Shell, & Water to Air Heat Exchangers Pages 28-35



Unit Heaters & Air Handlers

Pages 36-37



Copper, Brass, & Black Malleable Fittings Pages 38-41



SharkBite & Pex Fittings Pages 42-43



Pex Tubing & Underground Insulation Pages 44-45



Battery Backups & Chimneys
Pages 46-48





#### **About Us**

We are a hard working, family team. Our business motto is, <u>"We are only as good as our customers."</u> This business exists because of you!! We live in Connecticut with our three children and have been in the wood furnace business for over 10 years. After selling and installing hundreds of wood stoves ourselves, we are able to help you with everything from sizing the stove to parts & supplies as well as proper installation. We also specialize in quality yearly maintenance supplies.

#### **Our Prices**

We work hard to get the very best price for everyone. Because we buy in large quantities, we are able to keep our prices down. If you represent or know of someone who represents our products, we would love to talk. There is always room for improvement and we don't forget the people that help us grow.



#### **Placing an Order**

You can shop online through our website at www.AltHeatSupply.com, send us an e-mail, fax or call to order. We accept Visa, MasterCard, American Express and/or Discover.

#### **Shipping Policies**

Free shipping on most orders over \$199 within the Continental United States. This does not apply to orders to Alaska & Canada or to certain items that must be sent via Freight and a few oversized items. We ship via UPS Ground. Shipping prices will vary, oversized and overweight charges may apply on some items. We do not ship to Hawaii.

#### **Policies**

Any order discrepancies must be reported within 24 hours of receiving products. Returns are accepted within 14 days of receiving the items. No returns on special order items.

#### All prices are subject to change without notice.

#### **Return Policy**

All returns paid with a credit card are subject to a 7% return fee. Any items not returned in their original condition and/or box/packaging will be subject to a 25% restocking fee. If the item is not resalable, customers can choose to abandon the item or pay to have it returned to them. Returned or bounced checks will be charged an additional \$25.00.

#### **Warranty Items**

All warranty items must be returned within 7 days of contacting us. If we do not receive the item in a timely manner, we may not be able to warranty the item. If returned after 7 days, a 15% fee will be deducted from the reimbursement. This is done automatically, no exceptions. If you need the item ASAP, even before you return the defective item, you will be required to purchase the item, and then return the defective item within 7 days. At that time a full refund will be given. Customers are responsible for all costs of shipping the warranty items. No exceptions!

#### **Our Location**

Alternative Heating & Supplies LLC, 160 Christian Street, Oxford, CT 06478 (203) 881-1602







## **Wood Boiler Treatments**

BOILER TREAT Product Compo		Good! 0A-200 A-200	Better!  AmTech 300	Best! ProTech 300	BOILER TREATMENT Competition
Formulated to Prevent Rust and Scale		^	_	^	?
SAFE for Stainless Steel & Mi	ld Steel		*		?
Regulates & Balances pH		*	_		?
Levels of Protection		2	2	3	1 or 2
Protects Copper & Brass		*	`	^	?
Reduces Sludge & Mineral D	eposits	*	_	_	?
Contains Nitrites & Silcate			`	^	?
Steam Neutralizer			_	<b>*</b>	
Up to 2 Years of Protection		<b>^</b>	<u> </u>	^	
Test Kit Sold Separately		_	_	<b>~</b>	
Best Oxygen Control in the E	Business			^	
Better for Units with Frequer	nt Water Refills			_	
Dye Indicator for Easy Visual	Inspection			~	
Enhances Other Products if I	Mixed			<b>~</b>	
Works Well with Glycol				^	?
Environmentally Friendlier					
Item		Description	SKI	J Price	4 or more
nproved!	chemical detectic other brand-nam are 1. Nitrite 2. Ph scale. ProTech 30 1 Gallon of ProTe = Adequate, 1000 manufacturer and The manufacture	biler Treatment - The ProTe con technology. We have take the boiler treatment. It has 3 le tosphonate 3. Anodic inhibit to Boiler Water Treatment ha the dot of the book of the book to ppm = Good, 1500 ppm = 1 d your system's nitrite needs trs can't tell the difference if y	en it to the next level. It has the evels of protection. That mean for. ProTech 300 provides pro- is been designed to be used in er fill water will yield +/- 1000 Great. Dose system according based on test results. Do it yo	e ProTech300 is a new and impro- ne highest level of protection for ns 3 Active ingredients in it. The tection for your wood boiler from Manufacturers boiler treatmen ppm nitrite. Suggested nitrite I ply on required control levels set burself test kits are available see brand or our ProTech300, so sen	the wood boiler than 3 Protection "Levels" In rust, corrosion and t programs. Adding evels are 750ppm by your boiler 300 Test kit on page 4.
New;	AmTech 300 Bo	iler Treatment	AmTech	n300 <b>\$34.99</b>	\$29.95
Gech 300	wood boiler from as any other name of AmTech300 wil chemical, you mus your boiler water	rust, corrosion, and scale. As velonated boiler treatments that I treat 300 gallons of boiler fill st dose your treatment based	well as balance pH and alkalinit come directly from other man water and maintain 1000ppm on the needs of your system. Y	2 Active Ingredients. AmTech 30 y. Our product has been designe ufacturers without the Premium pnitrite level. However, like any oth ou can determine the needs of your see the 300Testkit. See our Boile	d to work just as well orice tag. One gallon er boiler treatment our system by testing

Phone **203-881-1602** Fax **203-881-1649** 

## **Wood Boiler Treatments**

ltem	Description	SKU	Price	Bulk Price	
	300 Test Kit - Works with AmTech & ProTech	300 Test Kit	\$19.95	\$17.95	
OproTech 30	<b>300 Test Kit</b> - Test Nitrite levels easily and accurately just like the lab! This test kit is designed to test the Nitrite levels in your boiler fill water. It is an easy and accurate means to determine the level or amount of Nitrite in your system. Testing Nitrite on your own, ensures you are meeting your Wood Boiler Manufacturer's warranty program in order to comply with their warranty requirements in regards to boiler corrosion protection. As well as keeping your boiler water at its optimum chemical balance. Proper chemical levels within your system is essential to its performance and system protection. Test your boiler water before you send it in to the manufactures lab and ensure you get the full warranty on your unit. You can test your boiler water up to 10 times per kit! This test kit works only with our ProTech300 and AmTech300 Boiler Treatments.				
1	A200 Alternative Heating Boiler Treatment	A200	\$24.95	\$19.99 / 12 or more	
DA200	A200 Boiler Treatment - The A200. It is specifically designed for outdoor and indoor wood boilers with mild or stainless steel construction. This product may also be us as a full spectrum water conditioning agent for other hydronic and solar heating applications. The A200 is Nitrate based instead of Nitrite, which makes it safer for the environment. It's our Environmentally Friendly Boiler Treatment. One quart treats 200 gallons of boiler fill water. Works just as well as the ProTech300 and the AmTech300 just using Nitrates instead. You can determine the needs of your system by testing your boiler water using our do it yourself Wood Boiler Water Test Kits designed just for our environmentally friendly A200 - see the TK500 Test Kit below (page 4). See our Boiler Treatment Product Comparison chart for all that is does.				
-	Test Kit for A-200 Boiler Treatment	TK500	\$19.95	\$17.99 / 6 or more	
4.250 Test ()	<b>A200 Test Kit - TK500 Test Kit -</b> This test kit is designed to test the Nitrate amount of Nitrate in your system. Test Nitrate like the labs do! Keep your lessential to its performance and system protection. You will be able to ar units so let's do what we can to protect it. These products are better qualit times per kit! This test kit works only with our A200 Boiler Treatment.	boiler water at its op nswer the question: I	timum chemical b s my boiler treatm	palance. Proper chemical levels within your system is sent working? Most of us spent a lot of money for our	
-	CF205 System Cleaner & Flush	CF205	\$24.95	15.99 / 12 or more	
OCF-20	boilers with mild steel and/or stainless steel construction. CF205 will safel corrosion. CF205 will also effectively re-establish a corrosion barrier at the applications as well. Another plus to this product is that it is environment white vinegar to help with heavy corrosion. Units that evaporate 50 gallo with 1 CF205. How to Use: Run the CF205 in your unit for 4 to 8 hours and ProTech 300, AmTech 300 or A200 Boiler Treatment.  Alternative Heating Boiler Treatment, Cleaner & Test Kit	e metal surface as it v ally friendly. One qu ns: add 1 gallon of w	vorks its cleaning art will treat 200 o hite vinegar with	action. CF205 may be used in other hydronic and solar gallons. Nice trick to save money, It can be used with CF205. You can use up to 3 gallons of white vinegar	
GF-20 DA300	A200Kit - Complete environmentally friendly boiler protection kit. Clean, treat and maintain your wood boiler while using products that are safe for the environment.  A great way to keep your wood boiler running clean and efficiently year after year. This kit was specifically designed for outdoor and indoor wood boilers with mild steel and/or stainless steel construction. One kit will treat 200 gallons. Kit includes- 1- A200 Boiler Treatment, 1- CF205 System Cleaner and 1-TK500 Test Kit for A200				
	steel and/or stainless steel construction. One kit will treat 200 gallons. Kit Boiler Treatment.			ned for outdoor and indoor wood boilers with mild	
	_			ned for outdoor and indoor wood boilers with mild	
DA 200	Boiler Treatment.	A200-TK500  This kit includes one indoor wood boilers neating applications.	\$44.90 quart A200 Boile with mild or stain A200 is the only e	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart	
DA-200	A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kitgreat way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar htreats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate mean	A200-TK500  This kit includes one indoor wood boilers neating applications.	\$44.90 quart A200 Boile with mild or stain A200 is the only e	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart	
DA 200	Boiler Treatment.  A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kitgreat way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar hat treats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate mean boiler system	A200-TK500  This kit includes one indoor wood boilers neating applications.  Ins to determine the YMKit-1Am  the nitrites at optime e levels to make sure	\$44.90  quart A200 Boile  with mild or stain A200 is the only e  evel or amount o	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart  f Nitrate/A200 boiler treatment in your outdoor wood  \$54.94  pH and alkalinity levels. It provides you with 2 levels of oilers warranty requirements. It has been designed for	
DA-200	A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kit- great way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar h treats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate mean boiler system  AmTech 300 Boiler Treatment with Test Kit  AmTech 300 and Test Kit- This yearly maintenance kit allows you to keep protection for your wood boiler. The test kit allows you to check the nitrity outdoor and indoor wood boilers with mild or stainless steel construction	A200-TK500  This kit includes one indoor wood boilers neating applications.  Ins to determine the YMKit-1Am  the nitrites at optime e levels to make sure	\$44.90  quart A200 Boile  with mild or stain A200 is the only e  evel or amount o	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart  f Nitrate/A200 boiler treatment in your outdoor wood  \$54.94  pH and alkalinity levels. It provides you with 2 levels of oilers warranty requirements. It has been designed for	
DA 200	A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kitgreat way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar has treats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate mean boiler system  AmTech 300 Boiler Treatment with Test Kit  AmTech 300 and Test Kit- This yearly maintenance kit allows you to keep protection for your wood boiler. The test kit allows you to check the nitrite outdoor and indoor wood boilers with mild or stainless steel construction you need to keep your wood boiler running at its best.	A200-TK500  This kit includes one indoor wood boilers neating applications.  Ins to determine the YMKit-1Am  The hitrites at optime e levels to make sure in the includes one the includes one the includes one to the includes on	\$44.90  quart A200 Boile with mild or stain A200 is the only e level or amount o  al levels, balance you meet your be e gallon of AmTec	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart  f Nitrate/A200 boiler treatment in your outdoor wood  \$54.94  PH and alkalinity levels. It provides you with 2 levels of boilers warranty requirements. It has been designed for h300 boiler treatment and one 300Test Kit. Everything  \$64.94  hity levels. It provides you with 3 levels of protection anty requirements. It has been designed for outdoor	
DA-200	A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kit- great way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar h treats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate meal boiler system  AmTech 300 Boiler Treatment with Test Kit  AmTech 300 and Test Kit- This yearly maintenance kit allows you to keep protection for your wood boiler. The test kit allows you to check the nitrite outdoor and indoor wood boilers with mild or stainless steel construction you need to keep your wood boiler running at its best.  ProTech 300 Boiler Treatment with Test Kit  Pro300TK - This yearly maintenance kit allows you to keep the nitrites at for your wood boiler. The test kit allows you to check the nitrite levels to and indoor wood boilers with mild or stainless steel construction. The kit	A200-TK500  This kit includes one indoor wood boilers neating applications.  Ins to determine the YMKit-1Am  The hitrites at optime e levels to make sure in the includes one the includes one the includes one to the includes on	\$44.90  quart A200 Boile with mild or stain A200 is the only e level or amount o  al levels, balance you meet your be e gallon of AmTec	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used environmentally friendly boiler treatment. One quart  f Nitrate/A200 boiler treatment in your outdoor wood  \$54.94  PH and alkalinity levels. It provides you with 2 levels of boilers warranty requirements. It has been designed for h300 boiler treatment and one 300Test Kit. Everything  \$64.94  hity levels. It provides you with 3 levels of protection anty requirements. It has been designed for outdoor	
	A200 Test Kit and A200 Boiler Treatment  A200-TK500 - The basic environmentally friendly maintenance boiler kitgreat way to keep your furnace running clean and lasting longer.  A200 Boiler Treatment - Has been specifically designed for outdoor and as a full spectrum water conditioning agent for other hydronic and solar hit reats 200 gallons.  TK500 Test Kit - Has been designed to provide an easy and accurate mean boiler system  AmTech 300 Boiler Treatment with Test Kit  AmTech 300 and Test Kit- This yearly maintenance kit allows you to keep protection for your wood boiler. The test kit allows you to check the nitrite outdoor and indoor wood boilers with mild or stainless steel construction you need to keep your wood boiler running at its best.  ProTech 300 Boiler Treatment with Test Kit  Pro300TK - This yearly maintenance kit allows you to keep the nitrites at for your wood boiler. The test kit allows you to check the nitrite levels to and indoor wood boilers with mild or stainless steel construction. The kit need to keep your wood boiler running at its best.	A200-TK500  This kit includes one indoor wood boilers neating applications.  Instead to determine the YMKit-1Am  The hitrites at optime e levels to make sure includes one toptimal levels, bala make sure you meet includes one gallon	\$44.90  quart A200 Boile with mild or stain A200 is the only e level or amount of al levels, balance you meet your be e gallon of AmTec	N/A  Treatment (Nitrate based) and one Test Kit TK500. A  less steel construction. This product may also be used invironmentally friendly boiler treatment. One quart  f Nitrate/A200 boiler treatment in your outdoor wood  \$54.94  pH and alkalinity levels. It provides you with 2 levels of boilers warranty requirements. It has been designed for habou boiler treatment and one 300Test Kit. Everything  \$64.94  hity levels. It provides you with 3 levels of protection anty requirements. It has been designed for outdoor iller treatment and one 300Test Kit. Everything you	

## Wood Boiler Treatment Kits



# All maintenance kits are available with your choice of AmTech 300 or ProTech 300.



Item	Description	SKU	Price		
A I	Yearly Maintenance Kit with 6 feet of 1" fire rope*	MKit6-Pro	\$66.92		
	Yearly Maintenance Kit with 7 feet of 1" fire rope*	MKit7-Pro	\$68.91		
rotoch 3	Yearly Maintenance Kit with 8 feet of 1" fire rope*	MKit8-Pro	\$70.90		
	Yearly Maintenance Kit with 9 feet of 1" fire rope*	MKit9-Pro	\$72.89		
	Yearly Maintenance Kit with 6 feet of 1" fire rope*	MKit6-Am	\$56.92		
	Yearly Maintenance Kit with 7 feet of 1" fire rope*	MKit7-Am	\$58.91		
	Yearly Maintenance Kit with 8 feet of 1" fire rope*	MKit8-Am	\$60.90		
Forch 300	Yearly Maintenance Kit with 9 feet of 1" fire rope*	MKit9-Am	\$62.89		
	*Bundled Maintenance Kits - Maintenance Kit Includes Boiler Treatr	ment, Fire Rope & Silico	ne		
B., B.,	Description	SKU	Price		
<b>4</b> 0 <b>4</b> 0	1 ProTech300 And 1-300Test Kit	YMKit-1Pro	\$64.94		
	ProTech300 Maintenance Kit Bundle-This kit comes with one gallon and a 300Test Kit.	of our ProTech300 Boile	r Treatment		
Profesch300	2 ProTech300 And 1-300Test Kit	YMKit-2Pro	\$103.93		
	ProTech300 Maintenance Kit Bundle- This kit comes with 2- one gallon of our ProTech300 Boiler Treatment and a 300Test Kit.				
	1 AmTech 300 And 1-300Test Kit	YMKit-1Am	\$54.94		
	AmTech300 Maintenance Kit Bundle- This kit comes with 1- one gallon of our AmTech300 Boiler Treatment and a 300Test Kit.				
ech 300 och 300	2 AmTech 300 And 1-300Test Kit	YMKit-2Am	\$89.93		
	AmTech300 Maintenance Kit Bundle- This kit comes with 2- one gallon of our AmTech300 Boiler Treatment and a 300Test Kit.				
ltem	Description	SKU	Price		
<u> </u>	Maintenance Kit - 3300 This kit is all you need to keep your WoodMaster 3300 Model stove working like the day you bought it! Doing yearly maintenance is key in keeping your wood boiler running clean and efficiently year after year. This Kit Includes:Fire	MKit3300-Pro	\$86.90		
OR OR	rope (7 feet of 1 inch rope) for the 3300 Wood Master door,1- 10 oz. Black RTV silicone tube, 1- Fan Cover- FC546 and 1- Gallon of ProTech300 or AmTech300 which treats 300 gallons (2 years worth– ½ gallon a year is all you need).	MKit3300-Am	\$76.90		
<u> </u>	Maintenance Kit - 4400 This kit is all you need to keep your WoodMaster 4400 Model stove working like the day you bought it! Doing yearly maintenance is key in keeping your wood boiler running clean and efficiently year after year. This Kit Includes: Fire	MKit4400-Pro	\$88.89		
OR OR	rope (8 feet of 1 inch rope) for the 4400 Wood Master door, 1- 10 oz. Black RTV silicone tube, 1- Fan Cover- FC546 and 1- Gallon of ProTech300 or AmTech300 which treats 300 gallons (2 years worth— ½ gallon a year is all you need).	MKit4400-Am	\$78.89		

## Maintenance & Cleaners

Item	Description	SKU	Price
<u>A</u> <u>A</u> Q	Maintenance Kit - 5500 This kit is all you need to keep your WoodMaster 5500 Model stove working like the day you bought it! Doing yearly maintenance is key in keeping your wood boiler running clean and efficiently year after year. This Kit Includes: Fire	MKit5500-Pro	\$108.87
OR OR	rope (9 feet of 1 inch rope) for the 5500 Wood Master door, 1-10 oz. Black RTV silicone tube, 2- Fan Covers- FC546 and 1- Gallon of ProTech300 or AmTech300 which treats 300 gallons (2 years worth- ½ gallon a year is all you need).	MKit5500-Am	\$98.87
OR OR	Outdoor Wood Boiler Maintenance 6500 This kit is all you need to keep your WoodMaster 6500 Model stove working like the day you bought it! Doing yearly maintenance is key in keeping your wood boiler running clean and efficiently year after year. This Kit	MKit6500-Pro	\$189.76
OR OR	Includes: Fire rope (18 feet of 1 inch rope) for the 6500 Wood Master door, 1- 10 oz. Black RTV silicone tube, 3- Fan Covers- FC546 and 2- Gallons of ProTech300 or AmTech300.	MKit6500-Am	\$169.76

## Keep your unit clean inside and out!

Item	Description	SKU	Price	Bulk Price
1	32 oz Spray Bottle	ACSCleaner	\$9.99	\$7.99 / 12 or more

**ACS Home & Hearth Cleaner** is an industrial strength cleaner. It is a high alkalinity citrus detergent, containing biodegradable surfactants which effectively cut through smoke and creosote.

ACS Home & Hearth Cleaner safely removes smoke and creosote stains from outdoor wood boilers, fireplace glass, hearths, stoves, brick, stone, and more. It is great for cleaning barbecue grills as well as clothing and equipment that may have smoke and soot on them. ACS Home & Hearth Cleaner also cleans walls, woodwork, kitchen surfaces and flooring. ACS Home & Hearth Cleaner leaves no streaks or film on surfaces. The product provides a quick easy way to clean anytime, anywhere, while leaving a long-lasting scent of fresh oranges.

 Purple Power
 32 oz Spray Bottle
 PP32
 \$4.99
 \$3.99 / 12 or more

 1 Gallon Jug
 PP128
 \$6.99
 \$5.99 / 6 or more

**Purple Power Industrial Strength Cleaner/Degreaser** works great on a wide variety of surfaces in auto, farm, marine, home and industrial applications. The concentrated formula penetrates quickly and then creates a barrier between the stain and the surface being cleaned. This product wipes away the toughest stains in just seconds. it's the #1 rated cleaner/degreaser on the market, it's biodegradable and it's non-abrasive, non-flammable and phosphate-free.

\*\*\*We have been using this product to clean the outside of our wood boilers for years. This removes the black cresol residue from the front of the unit above the door of wood boilers easily and quickly.

32 oz Spray Bottle ACS32 \$18.99 \$17.49 / 12 or more

ACS1Gal

**Anti-Creo-Soot** is a non-toxic and environmentally safe liquid manganese catalyst that attacks and destroys dangerous creosote and soot. When sprayed into the firebox during low fire conditions, AntiCreo-Soot helps convert creosote and soot to a harmless ash or char that can be easily removed. Keep your unit clean and make it last longer by cleaning twice a year! **USES** Anti-Creo-Soot is an effective maintenance product used to help control dangerous creosote and soot deposits in all wood and coal burning appliances. Anti-Creo-Soot also reduces ash and clogging in pellet stoves.

**BENEFITS**: Attacks dangerous creosote & soot, Helps prevent chimney fires, Chimneys clean easier and more completely, Reduces odors and pollution, Reduces corrosion in metal, Stainless Steel and Masonry, Safe for use with catalytic combustors, Non-toxic & easy to use.

CF205 System Cleaner CF205

1 Gallon Jug

**CF205 System Cleaner** has been specifically designed for safely cleaning outdoor & indoor wood boilers with mild steel and/or stainless steel construction. CF205 will safely remove deposits within the system that compromise boiler efficiency and promote corrosion. CF205 will also effectively re-establish a corrosion barrier at the metal surface as it works its cleaning action. CF205 may be used in other hydronic and solar applications as well. CF205 is environmentally friendly. One quart treats 200 gallons. It can be used with white vinegar to help with heavy corrosion. Units that evaporate 50 gallons or more: add an additional gallon of white vinegar with CF205. You can use up to 3 gallons of white vinegar with 1 CF205 (Nice Trick to Save Money!) Run CF205 in your unit for 4 to 8 hours and drain, refill and add boiler treatment. We recommend ProTech 300 or A200.



Exterior

Water Jacket
Flushing
Cleaner

\$15.99 / 12 or more

\$43.99

\$24.95

## Door Seal/ Fire Rope

**Fiberglass Firedoor Rope** is used to seal most outside wood furnaces doors. Fiberglass will not burn, smolder or absorb water. It is flexible for installation around tight corners and is easily bondable with silicone. Changing the fire rope yearly will prevent air coming in (air leakage) which can damage the steel behind the door and unit will smoke constantly. We sell rope cut to order. Just determine the amount of rope your stove needs and we will cut to size for you. For example: 24 x 24" fire door would require 8 ft of rope. Outdoor wood boiler fire rope, wood boiler door rope, Fiberglass Rope for Fire door, Stove Door Sealing Rope, knitted fiberglass rope, Fiberglass rope lagging, knit-braided fiberglass rope, fiberglass knit rope, Fiberglass Firedoor Rope, Fiberglass High temperature rope for packing and sealing, Wood Doctor, Shaver wood furnace, Wood Master, Central Boiler, Mahoning Wood Boiler, Empyre, Heat Master, Royal Wood Furnaces and most companies use the 1" rope.

**To Install:** To Install Fire rope simply pull out old fire rope, scrape the area clean, apply bead of silicone in the channel and add rope inside of the door seam. Leave for 6 hours for silicone to harden. Yes, it is that easy!

	Size	SKU	ltem	<b>Price Per Foot</b>
			Less than 50 feet	\$1.09
	1/2"	FR012	50-100 feet	\$0.99
	Fiberglass Firedoor Rope	FNUIZ	100-250 feet	\$0.89
	i ileddol Rope		250 feet or more	\$0.79
	5/8″	FR058	Less than 50 feet	\$1.39
			50-100 feet	\$1.19
	Fiberglass Firedoor Rope	FNUJO	100-250 feet	\$1.09
			250 feet or more	\$0.99
				±4 =2
	3/4" Fiberglass Firedoor Rope		Less than 50 feet	\$1.59
П		FR034	50-100 feet	\$1.39
		111054	100-250 feet	\$1.29
			250 feet or more	\$1.19
				<b>44.00</b>
	7/8"	FR078	Less than 50 feet 50-100 feet	\$1.89
	Fiberglass			\$1.79
	Fiberglass Firedoor Rope		100-250 feet	\$1.69
			250 feet or more	\$1.59
			Less than 50 feet	\$1.99
	1"		50-100 feet	\$1.99
	Fiberglass	FR001	100-250 feet	\$1.89
	Firedoor Rope		250 feet or more	
			250 leet of fillore	\$1.79
			Less than 50 feet	\$4.79
	1 1/8"		50-100 feet	\$4.59
	Fiberglass	FR118	100-250 feet	\$4.39
	Firedoor Rope		250 feet or more	\$3.99
			Less than 50 feet	\$4.79
	1 1/4"	FR114	50-100 feet	\$4.59
	Fiberglass Firedoor Rope	FN114	100-250 feet	\$4.39
	c c		250 feet or more	\$3.99



## **Door Seal Kits**



		A Day
Description	SKU	Price
<b>Central Boiler Outdoor Wood Furnace Door Kit:</b> Includes one 10 oz. tube of Professional Grade RTV Black Silicone and 9 feet of braided fiberglass door seal rope. <b>Typical Applications:</b> CL 4030, CL 5036, HF48, CL 4436, CL 5636, CL 5036	CBDS9	\$27.90
<b>Central Boiler Outdoor Wood Furnace Door Kit:</b> Includes one 10 oz. tube of Professional Grade RTV Black Silicone and 10 feet of braided fiberglass door seal rope. <b>Typical Applications:</b> CL 5646, CL 6048 and HF60	CBDS10	\$29.89
<b>HeatMaster Outdoor Wood Furnace Door Kit:</b> Includes one 10 oz. tube of Professional Grade RTV Black Silicone and 9 feet of braided fiberglass door seal rope.	HMDS9	\$27.90
<b>Heatmor Outdoor Wood Boiler Door Seal Kit:</b> Includes two 10 oz. tube of Professional Grade RTV Black Silicone and 7 feet of braided fiberglass door seal rope. Parts should be replaced yearly. Cut away silicone seal. Remove the old gasket. Remove old silicone. Replace with new gasket material (do not pack or over stretch). Allow material to relax, then cut to length. Cover the door with silicone. Smooth to a flat finish. <b>See our Youtube video:</b> " <b>Heatmor Fire Door" for visual instructions.</b>	HeatmorFRKit	\$33.91

Tips & Tricks: To Install Fire rope, simply pull out old fire rope (picture 1), scrape the area clean, apply bead of RTV Silicone in the channel and add rope (pictures 2&3).

Yes, it is that easy!









#### **Professional Grade RTV Silicone**

Professional Grade High Temp RTV Silicone (Black) - 10 oz tube, can be used to seal wood boiler chimneys and doors. Can also be used to install Fire Rope.

SKU: Silicone \$9.99 per tube

Bulk \$9.49 per tube 3 or more Pricing! \$8.99 per tube 12 or more

## Replacement Parts

	Description	SKU	Price
	Snap Disc	SD001	\$15.99
(a)	Snap Disc Control, Limit, Automatic Reset, Switch Action Open on Rise, Switch ferential 40, Inductive Amps @ 120V 10, Inductive Amps @ 240V 5, Pilot Duty (Resistive Rating 240V 25, Voltage Range 120 to 277, Switch Closes @(F) 150, Sv	Contacts (VA) 125, Resist	
	Snap Disc - has manual reset button on back	SD002	\$29.20
	Snap Disc Control, Limit, Manual Reset, Switch Action Open on Rise, Switch Ty ential 40, Inductive Amps @ 120V 10, Inductive Amps @ 240V 5, Pilot Duty Cor Resistive Rating 240V 25, Voltage Range 120 to 277, Switch Closes @(F) 150, Sv	ntacts (VA) 125, Resistive	
	Snap Disc	SD005	\$25.99
	Snap Disc Control, Adjustable Limit, Automatic Reset, Switch Action Open on 215, Differential 40, Inductive Amps @ 120V 14, Inductive Amps @ 240V 10, Pil 120V 25, Resistive Rating 240V 25, Voltage Range 120 to 240, Switch Closes @	ot Duty Contacts (VA) 1.	25, Resistive Amps @
	Laminated Solenoid	LS001	\$33.99
	Current @ max stroke 4.90 Amps, coil resistance 20.5 Ohms, coil voltage rating seated power 17.9 Watts, mounting holes on center length 2 in, mounting hol depth 2 1/16 in, width 1 13/16 in. The LS001 is the most common laminated so 4X240, Dormeyer 2005-M-1, Guardian 18-C-120	es on center width 1 3/8	3 in, length 2 1/2 in,
-	Laminated Solenoid	LS002	\$36.99
The second	Current @ maximum stroke 1.25 Amps, coil resistance 88.0 Ohms, coil voltage Amps, seated power 9.5 Watts, mounting holes on center length 1 3/8 in, mou 5/8 in, depth 1 7/16 in, width 1 3/16 in. Grainger Part # 4X239, Dormeyer 1000	inting holes on center w	ridth 5 7/8 in, length 1
	Laminated Solenoid	LSC01	\$63.49
	Laminated Solenoid - Current @ maximum stroke 6.50 Amps, coil resistance 1-seated current 0.48 Amps, seated power 19 Watts, mounting holes on center I 5/8in, length 2 1/2 in, depth 2 1/16 in, width 2 1/16 in. Grainger Part # 4X241,	ength 2 in, mounting ho	-
	Laminated Solenoid	LS242	\$64.99
<b>新</b>	Current @ Max Stroke 12.0 Amps, Coil Resistance 6.5 Ohms, Coil Voltage Ratin- pere, Seated Power 25 Watts, Mounting Holes On Center Length 2 Inches, Moi Length 3 Inches, Depth 2 15/16 Inches, Width 2 3/8 Inches Dormeyer 3000-M	unting Holes On Center	
- ~	Vent Cap	VC301	
	For all wood stoves, 2 1/2" diameter, Copper tube helps prevent water evapora	ation common on all un	\$34.42
-	Door Handle		
	Door naticie	DH101	
-	Insulated Handle for most wood stoves.	DH101	its.
		DH101 SRH101	its.
	Insulated Handle for most wood stoves.		its. <b>\$29.95</b>
	Insulated Handle for most wood stoves.  Slide Rod Handle		its. <b>\$29.95</b>
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.	SRH101 SB001	\$29.95 \$15.99 \$17.99
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square	SRH101 SB001	\$29.95 \$15.99 \$17.99
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square To connect the laminated solenoid to your rubber flapper on a fan/blower that has a	SRH101 SB001 SQUARE shoot (FN446, FN SB001S	\$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square  To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square-for round shoot fan	SRH101 SB001 SQUARE shoot (FN446, FN SB001S	\$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square-for round shoot fan To connect the laminated solenoid to your rubber flapper on a fan/blower that fan Blower Wire  Used to connect the fan to the laminated solenoid. 20" length with a spade con Heat rated 220 F. Water Resistant.	SRH101  SB001  SQUARE shoot (FN446, FN SB001S  t has a ROUND shoot (F FBW001  nnector and protective	\$15.99 \$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99 FN1TDP3, FN1TDN7) \$8.99 sheathing. 14AWG.
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square- for round shoot fan To connect the laminated solenoid to your rubber flapper on a fan/blower that Fan Blower Wire  Used to connect the fan to the laminated solenoid. 20" length with a spade collect rated 220 F. Water Resistant.  Draft Spring—DYI	SRH101  SB001  SQUARE shoot (FN446, FN SB001S  t has a ROUND shoot (F	\$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99 FN1TDP3, FN1TDN7) \$8.99
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square-for round shoot fan To connect the laminated solenoid to your rubber flapper on a fan/blower that fan Blower Wire  Used to connect the fan to the laminated solenoid. 20" length with a spade con Heat rated 220 F. Water Resistant.	SRH101  SB001  SQUARE shoot (FN446, FN SB001S  t has a ROUND shoot (F FBW001  nnector and protective	\$15.99 \$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99 FN1TDP3, FN1TDN7) \$8.99 sheathing. 14AWG.
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square- for round shoot fan To connect the laminated solenoid to your rubber flapper on a fan/blower that Fan Blower Wire  Used to connect the fan to the laminated solenoid. 20" length with a spade collect rated 220 F. Water Resistant.  Draft Spring—DYI	SRH101  SB001  SQUARE shoot (FN446, FN SB001S  t has a ROUND shoot (F FBW001  nnector and protective	\$15.99 \$15.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99 FN1TDP3, FN1TDN7) \$8.99 sheathing. 14AWG.
	Insulated Handle for most wood stoves.  Slide Rod Handle Insulated Handle for most wood stoves.  Bracket Square  To connect the laminated solenoid to your rubber flapper on a fan/blower that has a Bracket Square- for round shoot fan  To connect the laminated solenoid to your rubber flapper on a fan/blower that fan Blower Wire  Used to connect the fan to the laminated solenoid. 20" length with a spade content rated 220 F. Water Resistant.  Draft Spring—DYI  This is the draft spring used in our DIY kits.	SRH101  SB001  SQUARE shoot (FN446, FN SB001S  t has a ROUND shoot (F FBW001  nnector and protective  DS001	\$15.99 \$17.99 \$17.99 \$1004, FN1TDP7, FNA166) \$19.99 FN1TDP3, FN1TDN7) \$8.99 sheathing. 14AWG. \$5.99

## **Wood Master Parts**



ltem	Description	SKU	Price			
	ETC Assembly	ETC Assembly	\$310.95			
	<b>Nood Master ETC Panel</b> ETC Panel that is used with the Wood Master 3300, 4400, 5500 and 6500 Models. Extremely easy to install with the quick connect. Comes pre-programmed. The E.T.C. monitors and controls the WoodMaster water temperature by controlling the draft and draft fan. During normal operation (adequate wood supply) the controller will turn off the draft and draft an when the water reaches 170° F (Set) and will turn on the draft and draft fan when the water falls 10° F. During shut down (low wood supply) or when the water falls to 120° F the controller will shut off the draft and draft fan. At this time, the WoodMaster will need to be filled with wood and the ETC will need to be reset.					
	ETC Shield & UV Protection	ETC Shield & UV Protection	\$38.50			
1: : 200	Help protect the ETC panel from weather damage includi	ng water, and UV rays.				
0 s.ee V	ETC Black Box	ETC Black Box	\$44.95			
	This is installed behind the ETC panel and protects all of the	he internal wiring of the boiler.				
1000	WMAQ004	WMAQ004	\$139.95			
-888	The WoodMaster Aquastat/temperature gauge. Controls of This is a Direct Replacement for WoodMaster. (XR30CX)	t to WoodMaster specifications.				
	Light ON/OFF Switch	LSW101	\$17.95			
	To replace on the ETC Assembly					
1 2:2	Fan ON/OFF Switch	FS101	\$12.95			
	To replace on the ETC Assembly					
	Green LED Light Assembly	WL302	\$19.99			
	Red LED Light Assembly	WL302R	\$19.99			
	For water level light. LED light for long life.					
	Float Assembly	WL001	\$97.99			
-	For water level light. Used on Wood Master wood furnace	S.				
	Thermistor Wire	AQ305	\$19.99			
	For digital aquastat. (3" stainless steel probe & 6 ft wire) Fixes P1 issue. Used on wood furnaces with electronic control panels. If you get a "P1" Error message on the WoodMaster ETC Panel, you need to replace this.					
	Thermistor Wire	AQ306	\$19.99			
	For AC Applications. Thermistor 3" Probe with 6' wire is XR40CX (AQ044AC) controller. For Wood Furnaces use		Compatible with the Dixwell			
	Complete Front Door for Wood Master 4400	FD4400	\$879.00			
-	Complete Front Door for Wood Master 5500	FD5500	\$899.99			
-	Designed to be air cooled. Includes fan (FN446), fan cover (FC546), laminated solenoid (LS001), draft spring (DS001), blower wire (FBW001), and 1" fire rope (cut to fit. Simple mounting (hinge). 4400 = 24" x 24" 5500 = 27" x 27" Great door for the DIY Guy building their own outdoor furnace. *** THIS ITEM DOES NOT QUALIFY FOR FREE SHIPPING ***					
	Complete Auger & Grate Assembly	AK4400	\$769.99			
1	Complete Auger & Grate Assembly	AK5500	\$949.95			
	An ash auger can be added to the 4400 or 5500 models only. This is a complete auger kit, everything you will need. Install is simple. Made with 1/4 mild steel, in the USA. Includes Auger Grate, Auger Assembly, Auger Extractor, Auger Trap Door and Auger Handle. *** THIS ITEM DOES NOT QUALIFY FOR FREE SHIPPING ***					
	Complete Wiring Harness	WH4400	\$104.99			
	Complete Wiring Harness	WH5500	\$134.80			
60	Complete Wiring Harness - Used in the 4400 and 5500 mc couple hours. There is a quick connect included to hooku Includes Thermistor Probe (AQ305). The Water level Float	p to an ETC Assembly. A Direct Rep	placement from WoodMaster.			
	Fan Cover- 4 3/4" Diameter	FC546	\$17.99			
	Fan Cover is a simple device that works effectively on kee ber fan cover that covers most Dayton Fans to stop the air ter 3300, 4400, 5500, & 6500 models.					
	Small Flapper- 3 3/4" Diameter	FC328	\$19.99			
	Fan Cover is a simple device that works effectively on kee ber fan cover that covers most Dayton Fans to stop the air	. 3				

## Gauges & Thermometers

Item	Description		SKU	Price	
	Dial Thermometer- Honeywell GT16	2 Dial Thermometer, 1/2" NPT	TG101	\$17.99	
	Honeywell GT162 Dial Thermometer, 1/2 inch NPT is a thermometer with sallow the thermometer to be removed without draining the system. Short grees F; 2.5" face, center back mount, 1/2" NPT thread.				
-	T. B	1/4" NPT	TPG14	\$19.95	
	Tridicator	1/2"NPT	TPG12	\$34.99	



 $Honey well TD-090\ 1/4 '' Tridicator / Honey well TDV-040\ 1/2 '' Tridicator - pressure / temperature gauge with relief set point indicator for boilers and the properties of the properties o$ shut off valve. Non- Corrosive Valox case. 1/2" or 1/4" NPT connection Tridicators with 3 1/8 inch dial size, Temperature Range: 60 - 320 degrees F, Maximum Safe Operating Pressure: 75 Psi, Dimensions: Dial Size - 3 1/8", Stem length for ¼" is 1 21/32"; Stem Length for ½" is 1 29/32"

#### Central Boiler Temp guage replacement.

\$24.99

CBTemp. Central Boiler Temperature Gauge with 3" face with 6 inch stem, 1/2 inch NPT connect, and a temp range from 0 degrees to 250 degrees Fahrenheit/Celsius



Description	SKU	Size		Price	
	SBPG12	1/2"		\$28.00	
SharkBite® Pressure Gauge	SBPG34	3/4"		\$29.00	
	SBPG01	1″		\$59.99	
	SBTG12	1/2"		\$44.99	
SharkBite® Temp Gauge	SBTG34	3/4"		\$45.99	
	SBTG01	1″		\$67.99	
Maverick 500' Wireless Temperature Gauge			WTG300	\$66.99	

#### Maverick 500' Wireless Temperature Gauge

WTG300 Monitor Supply & Return Water Temps - Wireless receiver (Up to 500 feet away), easy installation, very accurate, large bright LCD with backlight for use at night, batteries included (lasts about a year), 2 probes included (Stainless Steel). Monitors 32-572° F. High and Low alarms-

Beeps and flashes if temperature falls below or above your programmed range. Receiver displays temperature up to 572degrees. Lost link alert warns you if your transmitter is out of range or has lost the radio frequency signal. This remote thermometer was designed for cooking food; however, it works great for monitoring your boiler's water temperature and is inexpensive. Easy installation- just attach to copper pipe with

Helpful Tip! Use this to monitor your wood boiler supply & return water temperature from up to 300 feet away!

Super Easy Insṫallatioń!

## hermostats Controls & Fans

22 X 22

Thermostats, controls & rans					
ltem		Description		SKU	Price
	Low Voltage Thermostat			TH001	\$39.99
	TH001. Honeywell T822K1018 Low-Volt Thermostat is designed for HEAT ONLY Systems. Mercury Free. Single-stage, low voltage, wire line terminals. Setting Temperature Range (F) 45 F to 95 F'; Switch Type: Precision Snap Action, Terminal Designations: R, W; Dimensions (in.): 4 3/4 in. high x 2 7/8 in. wide x 1 3/8 in. deep; Mounting: Vertical; Electrical Ratings: 20 to 30 Vac; Supply Voltage: 20 to 30 Vac; Non-Programmable Type; Bimetal; Accuracy (F:) ±2; Heat Current: 0.02 A to 1.0 A running; Color: Premier White				
1	In-Line Thermostat			TH002	\$31.99
Ċ	of resistive-rated electric heati high x 2 7/8 in. wide x 2 5/8 in.	ng equipment. Setting Temp deep; Mounting: Vertical; Su	erature Range (F) 50 F to pply Voltage: 120 Vac; Se	80 F; SPST switching (two ensor Element: Vapor filled	vides precise line voltage control wire); Dimensions (in.): 4 1/2 in. dual diaphragm which provides for ometer indicates room temperature.
also been	Speed Control			SC36	\$37.99
	SC36. Control multiple speed-controllable ventilators and fans with this rotary speed control. It can operate multiple direct-drive fans, if the total amp draw does not exceed the control's amp rating. It fits a single gang box, and includes mounting screws. It also permits adjustment between 50% and 100% air performance. Max Wattage: 720; Max Amps: 6; 115 Voltage Dimensions: Height 4 1/2", Width 2 3/4", Depth 1 1/4".				
	ltem	Size	CFM	SKU	Price
		16 X 16	912	UHF12	Call for Availability
	Exhaust Fans	20 X 20	1334	UHF16	Call for Availability

2652

Medium direct-drive exhaust fan is designed to quietly exhaust high volumes of air for ventilating. It features a galvanized frame and finish. It features intake guards and sleeve bearings. Max ambient temp 104degreesF, 115VAC, 60Hz, 1 phase, motor type shaded pole,

vertical mounting position, propeller material stamped aluminum, number of blades-3. Speed Controllable. (with SC36).

UHF18

UHF20

**Call for Availability** 

**Call for Availability** 

## Tools & Trade Accessories

Part	Description	SKU	Price
	PCT1234 Mini Crimp Tool gets the job done by tightening the 2 bolts. The NIBCO® PEX block crimp tool is used to make copper crimp ring connections in sizes 1/2-inch to 3/4 inch. Crimp tools are used on rings to make tube-to-fitting connections in PEX systems.  (Crimp 1/2" & 3/4" rings - PR12- 1/2" rings, PR34- 3/4" rings. We offer bag dicounts pricing on page 43.)	PCT1234	\$29.99
1/-	<b>PKK01 KWIK Cut</b> SharkBite Pex Tubing Cutter (Cash Acme U701): Make a clean cut with PEX pipe cutters for 1/8 in. to 1 in. pipe. Lightweight, durable and easy to use. Tight situations call for compact and easy-to-use tools. Ideal for plumbing, irrigation and hydronic heating tubing and piping projects. Cuts upto 1" polyethylene pipe rubber hose, Pex or PVC. Replaceable blade, clean cut every time. Every tool box should have this tool!	PKK01	\$15.99
- J/	<b>TLKit1234 Tool Kit</b> includes two tools which make your job easy at a cost you can afford- one NIBCO® PEX block crimp tool and one SharkBite Pex Tubing Cutter (Cash Acme U701). Tight situations call for compact and easy-to-use tools.	TLKit1234	\$45.98
	PCTL34 PEX Crimp Tool. This Pex crimp hand tool allows for a complete full-circle crimp with longer hand as to provide note le erace, ear ringles for our promise and my connection. This tool uses copper crimp rings. Made in the USA	PCTL34	
	<b>Pex Crimp Rings.</b> These are the original crimp rings that the Pex industry used from the beginning. Copper PEX rings are designed to go over PEX tubing to lock in barbed PEX crimp	PR12 (1/2")	\$0.39
	fittings onto the tubing. High quality material and manufacturing insure a tight seal over PEX tubing using a Pex Crimping Tool. We offer bag discount pricing on page 43.	PR34 (3/4")	\$0.45
	tubing using a Fex Crimping 1001. We offer bag discount pricing on page 45.	PR01 (1")	\$0.60
100	<b>PCT02/PCT03.</b> Compresses Stainless Steel Clamp Rings to secure PEX tubing to brass or poly crimp fittings. The 3-handle design version allows for one-handed gripping keeping the other	PCT02	\$79.99
233	hand free to hold a flashlight, ladder or pipe. One tool works with all size clamps from 3/8 in. to 1 in. (PCT02 is the two handle version, PCT03 is the 3 handle version)	PCT03	\$155.99
	Clamp brass or poly crimp fittings onto PEX pipe. The clamp ring is tightened using a Pex	SCR12	\$0.45
	Clamp Tool to make a secure connection. All size clamp rings use only one tool the Pex Clamp Tool (PCT02 or PCT03) to save on cost of multiple tools.	SCR34	\$0.69
	1001 (1 CT02 01 1 CT03) to save off cost of multiple tools.	SCR01	\$0.69

## Tempering Valves & Mixing Valves

Part	Description	SKU	Price
	MVH34S & MVH01S Cash Acme HeatGuard® 110-HX Mixing Valve  The Heatguard® 110-HX is a Temperature Actuated Mixing Valve that mixes hot water with cold to deliver hot water at a reduced temperature. The Heatguard® 110-HX has an outlet temperature range extending to 176°F (80°C), making it ideal for applica-	MVH34S	3/4" Swt <b>\$99.99</b>
	tions in heating systems or in any installation requiring the delivery of reduced temperature hot water. The Heatguard*110-HX is a high quality mixing valve incorporating the latest in thermostatic technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Excellent for small radiant applications due to a higher GPM. Not recommended for domestic water use due to higher temperature range.		1" Swt <b>\$119.99</b>
	MV34S & MV01S Cash Acme HeatGuard® 110-D Mixing Valve The Heatguard®110-D is a Temperature Actuated Mixing Valve that mixes hot water with cold to deliver tempered water at a		3/4" Swt <b>\$97.99</b>
	controlled temperature to 120°F (49°C) maximum. The Heatguard®110-D is designed to assist in the prevention of scalding. The Heatguard®110-D is intended for installation at the water heater to distribute controlled temperature water through the domestic hot water system or at point-of-use applications. he valve delivers water at a maximum of 120°F (49°C), allowing the heater to be set at 140°F (60°C) or higher, thus providing a greater effective volume of hot water and reducing the chances of Legionella bacteria growth in the water.	MV01S	1" Swt <b>\$119.99</b>
60-00	MV34SB Cash Acme HeatGuard® 110-D Mixing Valve (SharkBite® Ends) SharkBite Connections: The Heatguard®110-D is a Temperature Actuated Mixing Valve that mixes hot water with cold to deliver tempered water at a controlled temperature to 120°F (49°C) maximum. The Heatguard®110-D is designed to assist in the prevention of scalding. The Heatguard®110-D is intended for installation at the water heater to distribute controlled temperature water through the domestic hot water system or at point-of-use applications. he valve delivers water at a maximum of 120°F (49°C), allowing the heater to be set at 140°F (60°C) or higher, thus providing a greater effective volume of hot water and reducing the chances of Legionella bacteria growth in the water.	MV34SB	3/4" SB \$99.99 No sweat or threading
*	MV11501 Cash Acme HeatGuard® 115-H Mixing Valve The HG115 thermostatic mixing valve offers the same reliable protection of the 110-D, but on a larger scale. A fast acting, high quality thermostatic element senses the outlet water temperature and reacts to maintain a stable delivery temperature even under changing flows or variations in supply temperatures. Used for radiant floor applications.	MV11501	1″NPT <b>\$229.99</b>

## Digital Electronic Controls

#### **Ranco Controller**





Model Detail
The Ranco ETC -112000-000 — Heating or Cooling

SKU AQ002

\$69.99

**The Ranco ETC -112000-000** Electronic temperature control single stage sensor, range –30° F to + 220° F, differential of 1° F to 30° F, power 24 VAC. class 2, output SPDT relay. Commonly used for heating pools, spas, solar applications & much more.

The Ranco ETC 111-020 — Heating or Cooling

AQ00

)7 **\$75.95** 

**The Ranco ETC 111-020** (previously 111000) is a microprocessor based temperature controller, suitable for switching 120 VAC, Temperature set point range: -30° F to 220° F, Differential range: 1° F to 30°F, Input Voltage: 120 VAC, Sensor: Thermistor, 2″ long x 1/4″ dia with 8′ cable (included) normally open (NO): 16 Amps @120 VAC normally closed (NC): 8 Amps @120 VAC. Excellent upgrade for wood boilers with simple aqua-stats. This is used to control the fan on an Outdoor Furnace. LED backlight.

#### **Other Controllers**



 Model Detail
 SKU
 Price

 Stainless Steel Dry Well - 1/2"
 2.5" long
 DW12
 \$26.99

 4" long
 DW1204
 \$24.99

**DW12 Stainless Steel Dry Well** - Most commonly used with pools and spas. Mounted in a tee in the water stream and probe mounted inside to monitor pool or spa temperature. Total length 3", 1/2" MNPT, 1 3/4" probe length.

 Stainless Steel Dry Well - 3/4"
 2.5" long
 DW34
 \$29.99

 4" long
 DW3404
 \$36.99

**DW1204 Stainless Steel Dry Well** - Is the same as DW12 but is a total length of 4", 1/2" MNPT, 2 3/4" probe length.\*\* These drywells work with AQ002 & AQ007 \*\*



#### **Cozeburn & Empyre Wood Boiler Digital Aquastat**

AQLove

\$79.99

Love Controller Cozeburn & Empyre Wood Boiler Digital Aquastat all models— This is a direct replacement Digital Controller for all Cozeburn and Empyre Outdoor Wood Boilers. Specifically programmed to be used with the Cozeburn & Empyre Outdoor Wood Furnaces. Used to control water temperature and water temperature differentials. Basically put in and you're ready to go. Item: Temperature Switch Sensor, Style: Thermistor, Special Features: Compressor Defrost, Temp. Range: -58 to 302 Degrees F, Relay Style: SPDT, Switch Input Power: 115VAC, HP: 3/4, Contact Rating: 16A @ 250V Resistive, 5A Inductive, Accuracy: +/-1% Full Scale, Display: LED, Includes: Gasket, Mounting Clips, and Instructions. Love Controller by Dwyer TS2-010 plus programming. These controllers do not come with proper programming for wood boiler applications. Manufacturer Part Number TS2-010. \*\* This is just for the Digital controller and not the entire Panel \*\*Typical Applications—Commonly used for potable water, water heating applications. This unit uses AQ305 (page 10).



Therm-O-Disc - 59T4090 Thermostat

90° -150°

AO005

\$14.99

**AQ005 Therm-O-Disc** - 59T4090 Thermostat, lower or 1 element, surface mount, manual reset 90° - 150° F, wood furnaces use this to turn on fans or pumps, 120 VAC. Commonly used for potable water.

Therm-O-Disc - 59T4200 Thermostat

90°-180°

AQ006

\$19.49

**AQ006 Therm-O-Disc** - 59T4200 Thermostat lower, surface mount, manual reset 120°-180° F, some wood furnaces use this to turn on fans or pumps, 120 VAC. Used on the back of Shaver furnaces.



GMA221.1u Open Air™ GMA series

DA221

\$179.99

Siemens Damper Actuator - GMA221.1u Open Air™ GMA series, 24 VAC/DC and 120 VAC, 62 lb-in, spring return, direct-coupled electronic damper actuators. The open air direct-coupled, spring return electronic damper actuators provide modulating, two-position and three-position control of building HVAC dampers. Used with Greenwood units.



Coil Voltage 24 VAC

RE001

\$12.99

**Enclosed Fan Relay** - Coil Voltage 24 VAC, contact current rating 8 Amps, coil voltage rating @ 50/60 HZ 24 VAC, contact current rating inductive @ 240 VAC 8 Amps, contact current rating inductive @ 120 VAC 8 Amps, resistive current @ 240 VAC 16 Amps, resistive current @ 120 VAC 16 Amps, switch action SPDT.

#### **Dixell Controller**





Model Detail

Dixell Controller XR30CX

programmed for

programmed for wood boiler temperatures programmed for refrigeration systems

AQ004 AO004AC

SKU

\$99.99

Price

**Dixell Controller XR30CX** — **Dixell Controller XR30C** is used on the wood furnaces to control water temperature and water temperature differentials. This controller is for electronically advanced people only! They are difficult to wire and to program. If you're looking for something very simple that works great go to AQ007 or if you're building your own Outdoor Wood Furnace check out our DIY-Kit. \*\*\* Has only 1 probe input. \*\*\* AQ305 is used for heating applications and AQ306 is used for AC applications.



**Dixell Controller XR40CX** 

programmed for wood boiler temperatures

AQ044

\$109.99

programmed for refrigeration systems

AQ044AC

\$119.99

**Dixell Controller XR40CX** — **Dixell Controller XR40CX** is used on the wood furnaces to control water temperature and water temperature differentials. The Advantage over the Dixell XR30CX is the XR40CX allows you 2 switches instead of one. Basically you have this turn a pump and fan at different times. \*\*\* Has only 2 probe input. \*\*\* AQ305 is used for heating applications and AQ306 is used for AC applications. (page 10)

## **Electronic Controls**

#### **Honeywell Controller**

## Honeywell

	Model Detai	1	SKU	Price
	Copper Immersion Well	1/2"	IW1203	\$31.99
	Copper inimersion wen	3/4"	IW3403	\$35.99
	Copper Immersion Well - 1/2" includes mounting clamp.	or 3/4" MPT, bulb diameter 3/8", m	ax insertion/bulb length 3", insulation dep	oth 1", accessory for controls,
1 min	L6006A 1012		AQ001	\$202.99
	5-30° F, switch action SPDT, ter	mperature setting range 100-240°	@ 120 VAC 8 Amps, contact current ratir F, height 5 3/8 in, width 2 in, depth 2 1/8 Il has a 1/2" thread. Has High and Low lin	in (immersion well included). This
	L6006c 1018		AQ003	\$149.99
	VAC 5.1 Amps, differential 5-30	•	<b>918-</b> contact current rating @ 120 VAC 8 if, temp. setting range 65-200° F, open/cloidjustable.	
	L4006E 1091		AQ008	N/A
0	Well Imposition on the Hoperating to mercal in 250 5t 5/8 in. high x 2 in. wide x 2 1/8	con landal ese 3 incultio le in. deep.	ds with limit; Manual reset aqua-stat of limit; Manual reset aqua-	controller with 130° F to 270° F @ 120 VAC, case dimensions (in.) 5
	L4006A 1678		AQL4006A	\$157.99
	included. Breaks the circuit on		ure and 5° F to 30° F adj. differential has 3 setting. Used for high limit or low limit co erature on limit.	' '
	AT140A 1000		TR11024	\$16.99
	· · · · · · · · · · · · · · · · · · ·		AC, 60Hz, 120 VAC, provides power to 24 niform loads. Can be used in any applica	
	AT72		TR22024	\$34.99
	Override protection provided,	features color-coded leadwires fo	mers power 24V systems including therr r primary connections, energy limiting a ot wet, Class 3 wet and UL 1585 requirem	nd meets NEMA Standard DC20-
1 min	L6006A1327; Heatmor High	Limit Aquastat, Direct Replacen	nent AQ1327H	
	High Lire of Spread on a switche op lage on a special adj.; Mounting: Horizontal or V		(2) 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	rential Temperature (F): 5 F to 30 F
1 min	L6006A1335; Heatmor Low I	imit Aquastat, Direct Replacem	ent AQ1335L	
	Low Limits on trolle. Heatmore switche op i a e on temper in adj.; Mounting. Horizontar or v	ure is a set oir . Panting er	ple and external adjustment screw perm sera ure kange (F): 40 F to 180 F; Differ mensions- Case5 5/8 in. h x 2 in. w x 2 3	ential Temperature (F): 5 F to 30 F
Nhite Roger	s Controller			White-Rodger:

#### **White Rogers Controller**

	Model Detail	SKU	Price
	Emerson 16E09-101	AQ16E09	\$84.99
	Emerson 16E09-101 - Superior Temperature Control and Accuracy for I Features: - 16E09-101 replaces most mechanical and electronic single stage control - Multiple voltage operating range: 24/120/208/240/VAC - Standard setpoint temperature range (-40F—220F) - Alarm Output (with selectable delay—up to 99 minutes)	5	•
	Emerson 11D18-1 — wood boiler temperatures	AQ11D18-1	\$94.99
**************************************	Emerson 11D18-1 - For use as High Limit, Reverse Action or SPDT S Features: - Well Immersion Hydronic Control - 100 Degrees F to 240 Degrees F range - 5 Degrees F to 45 Degrees F Adjustable Differential	witching Action: May be	Mounted either Horizontal or Vertical.

## Electronic Controls

#### Honeywell Controller

## **Honeywell**



 Model Detail
 SKU
 Price

 R8285 A 1048 control
 FC8285
 \$47.99

Provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling, or air conditioning systems. The Honeywell R8845U Universal Switching Relay with 24 V transformer provides intermediate switching of line and low-voltage devices from a line or low-voltage controller and is typically applied in hydronic heating systems. Mounts on a 4 x 4 inch junction box, screw terminals on transformer terminal board, lead wires used for line connections, R8222B SPDT plug-in relay included, meets UL 3/4 horsepower requirements. This is usually used on furnaces without fan controls. Made for low voltage to turn on high voltage. Dimensions (in.): 4 3/16 in. High, 4 1/2 in. Wide, 2 13/16 in. Deep.



**Zone Valve — 3/4" ext.** ZV342 **\$98.99** 

Two-way on-off low voltage valves consist of an actuator and valve assembly for controlling the flow of hot water. manual opener for operation upon power failure; valve returns to automatic position when power is restored. High torque, constant speed motor operates valve on command of a 2-wire thermostat. Two-position straight through control of supply water. 24 VAC. All models may be installed without disassembling the valve. Compact construction for easy installation. Complete powerhead may be removed or replaced without breaking plumbing line connections or draining the system. Actuator motor may be replaced without removing the valve body or draining the system. Maximum Differential Pressure Ratings (Close-off) (psi) 20 psi. Typical applications: Hydronic control - Valve designed for cycling (not constantly powered on) applications. Use this valve in closed loop hydronic systems that do not contain dissolved oxygen in system water, such as fresh water from frequent source of makeup water. Dimensions (in.) 4 in. high x 3 1/2 in. wide x 2 3/8 in. Deep



**3-Way Valve** - **3/4**" ext. ZV343 **\$115.98** 

Used in conjunction with the VU52, VU53 and VU54 valves for controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors. These valves are suitable for use in condensing, non-corrosive environments. 24 VAC. Compact construction for easy installation. Fits under the cover of most baseboard convectors with actuator fitted to valve body. One-button, quick release. Secure 3-point, metal latch to valve body. Stainless steel case and aluminum cover. Rust-proof nickel-plated motors available. Manual opener for installation and valve operation on power failure. Slotted conduit hole for faster wiring.

**3-Way Valve - 1" ext.** ZV013 **\$149.99** 

Used in conjunction with the VU52, VU53 and VU54 valves for controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors. These valves are suitable for use in condensing, non-corrosive environments. 24 VAC. Compact construction for easy installation. Fits under the cover of most baseboard convectors with actuator fitted to valve body. One-button, quick release. Secure 3-point, metal latch to valve body. Stainless steel case and aluminum cover. Rust-proof nickel-plated motors available. Manual opener for installation and valve operation on power failure. Slotted conduit hole for faster wiring.



RA889A1001—external indicator lights ZS101

External indicator lights, universal replaceability, snap-in PC board simplified wiring, fully enclosed snap-out relays, 100% factory tested, contractor friendly PC board layout, universal thermostat compatibility, UL and CSA Approved, Extended 3 Year Warranty. For Single Zone. One model replaces many competitor models. High load switching capability. Troubleshooting LED. Push-to-test button. Replaceable transformer fuse. Long-life DC relay drive control technology. Relay for use with external 24 Vac or 24 Vdc supply, with line-voltage control, or with internal 24 V transformer supply. One model replaces many Honeywell models. Secondary of transformer protected by replaceable 1A automotive fuse.

#### Misc. Parts



Bladder Heatmore Bladder \$55.99

Bladder Compatible with Heatmor and Heatsource 1. One Rubber Tube. Ships quickly. Best for domestic hot water.



Thumb Knob Screw TS001 \$2.49
\$1.99/ 4 or more

Screw for most wood furnaces, standard ¼ inch thread. Holds back panel to the stove.



Chimney Repair Kit CRKIT4400 \$340.98

**4400 Patch Kit**- 0699-213 Vent Pipe, 19" SCH 80, 0669-262 Chimney Pipe 6" X 12", 0698-121 16" X 24" 4400 Water Jacket



Chimney Repair Kit. CRKIT5500 \$399.21

**5500 Patch Kit**- 0699-213 Vent Pipe, 19" SCH 80, 0669-263 Chimney Pipe 8" X 12", 0698-122 24" X 16" 5500 Water Jacket

## Schaefer Brush



#### **Tube Brushes - Flue/Boiler Brushes**

Item	Description	SKU	Cleans Flue Slze	Brush Diam- eter	Price	Price (2 or more)
	Tube Brushes are recommended	FB43312	1-1/2"	1-1/4"	\$14.50	\$13.05
	for cleaning flues, boiler tubes, heat exchangers, furnaces, and tubes of all	FB43314	1-3/4"	1-1/2"	\$14.99	\$13.49
	types. Filament: Spring Grade Tempered	FB43316	2"	1-3/4"	\$15.68	\$14.11
Transpir	Wire. Construction: Double Spiral / Double	FB3318	2-1/4"	2"	\$15.99	\$14.39
	Stem. Brush Length 4 - 1/2" Male Pipe Thread 1/4"	FB43322	2-1/2"	2-1/4"	\$17.10	\$15.40
Item	Description	SKU	Cleans Flue	Brush Diam-	Price	Price (2 or
	Description	SKU	SIze	eter	Price	more)
( # )	Tube Brushes are recommended	FB43536	1-1/2"	1-1/4"	\$13.99	\$12.60
444444	for cleaning flues, boiler tubes, heat	FB43539	1-3/4"	1-1/2"	\$14.50	\$13.05
	exchangers, furnaces, and tubes of all types.  Filament: Stainless Steel. Construction:	FB43542	2"	1-3/4"	\$14.90	\$13.41
	Single Spiral / Double Stem. Brush Length	FB43545	2-1/4"	2"	\$15.50	\$13.95
	4 -1/2" Male Pipe Thread 1/4"	FB43548	2-1/2"	2-1/4"	\$16.12	\$14.42

**Pro-Clean Home Chimney Brushes** 

Item	Description	SKU	Diameter	Price	Price (2 or more)
	Good for homeowners and Do-It- Yourselfers. <b>Material</b> : Tempered oil wire <b>Construction</b> : Single Spiral / Double Stem. <b>Shape</b> : Round	CB36406	6"	\$21.25	\$19.63
		CB36407	7"	\$22.10	\$19.89
		CB36408	8"	\$22.96	\$20.66
Item	Description	SKU	Diameter	Price	Price (2 or more)
	Use in insulated metal chimneys, stainless steel or metal stove pipes to avoid scratching flue. Recommended for homeowners. <b>Material:</b> Polypropylene	CB36166	6"	\$18.60	\$16.74
		CB36176	7"	\$19.35	\$17.45
	Construction: Single Spiral / Double Stem. Shape: Round Brush Length 7" Male Pipe Thread 3/8""	CB36186	8"	\$20.12	\$18.11

#### **Pro-Sweep Heavy Duty Chimney Brushes**

Item	Description	SKU	Diameter	Price	Price (2 or more)
	Use on flues that burn coal, oils or gas	CB34806	6"	\$22.10	\$19.89
	where acids deteriorate steel bristles.  Material: Polypropylene Construction:	CB34807	7"	\$22.72	\$20.51
The second	Single Spiral / Double Stem. Shape: Round Brush Body Length 7" Male Pipe Thread 3/8""	CB34808	8"	\$23.40	\$21.06

#### **Pellet Stove Brushes**

Item	Description	SKU	Ball Tip	Brush Size	Thread Size	Price	Price (2 or more)
-1111	Use for cleaning 3" or 4" round pellet stove	PSP361281	Yes	4"	5/16" - 18	\$17.65	\$15.89
TABLE	pipes Material: Polypropylene	PSP361341	No	4"	1/4″	\$16.98	\$15.29
Item	Description	SKU	Ball Tip	Brush	Thread	Price	Price (2 or
	•			Size	Size		more)
- 111	Heavy-duty polystyrene ball tip guides brush through offsets and bends <b>Material</b> :	PSN361461	Yes	3″	1/4" - 20	\$17.82	\$16.04
	Nylon	PSN361471	Yes	4"	1/4" - 20	\$18.55	\$17.00

#### **Extension Rods**

Item	Description	SKU	Material	Rod Diam- eter	Pipe Thread	Overall Length	Price	Price (2 or more)
		ER30624	Fiberglass	0.350"	1/4″ Female & Male	4"	\$11.10	\$9.99
=	Rods screw together to extend	ER36048	Heavy-Duty Fiberglass	0.440"	3/8" Femal & Male	4"	\$12.79	\$11.50
	to desired length for chimney.	ER36112	Nylon	0.3125"	5/16" - 18 Female & Male	4"	\$13.86	\$12.48
		ER36118	PVC	.25″	1/4" - 20 Female & Male	5″	\$13.15	\$11.83

#### Sure - Surface Brushes

ltem	Description	SKU	Fill	Descrip- tion	Price	Price (2 or more)
	The Sure-Surface Brush design, with 220 degrees of bristle, allows the user to move in a natural motion. For use with standard threaded handles.	SSB66374	Poly (blue)	Stiff	\$31.00	\$27.90

## **Installation Parts**

	Produc	t Description	SKU	Price		
		1" thread Air Purge (AP01)	BTOkit01	\$239.96		
	BTOkit Boiler Trim-Out Kit	1 1/4" thread Air Purge (AP114)	BTOkit02	\$240.96		
	purge, a combination fill valve and b	ntial closed loop hydronic heating systems. Inco packflow preventer (BFPRV) and an ET30 series 1) BTOkit02 = 1 1/4" thread Air Purge (AP114)		ir vent (AV18), an a		
-		2 gallons per system	ET-15	\$34.99		
	Expansion Tanks	4 gallons per system	ET-30	\$52.99		
	J ,	o the increased hot water volume due to expar and reliable service. Heavy duty SBR diaphragm	<i>J</i> .	•		
- Am		1"FPT	AP01	\$21.99		
	Air Purge	1 1/4" FPT	AP114	\$22.99		
On the second		ntrained air from the circulating water. One pie stall. (AP01 = 1" FPT, AP114 = 1 1/4" FPT) , **	ce cast iron construction	n. No service		
(650)		MPT 1/4"	AV14	\$14.99		
	AV Series Air Vent	MPT 1/8" - fits the air purge	AV18	\$14.99		
Carl	With a manual vent feature it can be used in commercial and residential hydronic heating applications to provide automatic a venting for hot or cold water distribution systems. Ideal for use with glycol systems or for use as an anti-vacuum device. (AV14 = MPT 1/4", AV18 = MPT 1/8")					
20	<b>Bronze Combination Fill Valve and</b>	d Backflow Preventer	BFPRV	\$149.99		
Sec.	Combines the Cash Acme A-89 pressure reducing boiler feed valve and the BFP double-check backflow preventer. The BFAC accurately reduces the system pressure to 14 PSI, while preventing contaminated water from flowing back through the line 1/2" NPT.					
	Dwyer Model FS-2 Paddle Flow Sv	DFS01				
1	Office in a complete limit of the district Custom self-pire tailored for the application are enabled by field adjustable vanually and all et prints district self-self-self-pire target and all et prints district self-self-self-pire target and all the self-self-self-self-self-self-self-self-					
	Boiler Pressure Relief Valve		PRV34	\$16.99		
8	Bronze hody stainless steel spring a	nd internals. 30 PSI, 510,000 BTU/HR, 3/4" male	inlet and female outlet			
No.						
	Temperature Relief Valve		TRV341	\$24.99		
	Bronze body, coated thermal unit, st MNPT, 1" probe.	tainless steel spring and internals. 210° F, CSA, A	ASME, male inlet and fen	nale outlet. 3/4"		
		3/4" FPT	YS34	\$13.99		
	Y-Strainer	3/4"FPT 1"FPT	YS34 YS01	\$13.99 \$24.99		
	Can be installed in the pipeline whe Y-Strainer can be installed so that the		YS01 w of liquids or gases. The body, allowing entrapp	<b>\$24.99</b> ed material to		
	Can be installed in the pipeline whe Y-Strainer can be installed so that th collect in it. The removable cap can	1"FPT rever small solid particles occupy the main flow we screening element is on the lower end of the	YS01 w of liquids or gases. The body, allowing entrapp	<b>\$24.99</b> ed material to		
	Can be installed in the pipeline whe Y-Strainer can be installed so that th collect in it. The removable cap can = 1"FPT)  Ball Valve - See page 43 for more	1"FPT rever small solid particles occupy the main flow we screening element is on the lower end of the	YS01 w of liquids or gases. The body, allowing entrapp on the mesh screen. (YS34 BV01	\$24.99 ed material to = 3/4" FPT and Y		
	Can be installed in the pipeline whe Y-Strainer can be installed so that th collect in it. The removable cap can = 1"FPT)  Ball Valve - See page 43 for more 100 percent full port opening. Solid	1"FPT rever small solid particles occupy the main flow as screening element is on the lower end of the be detached periodically to clean and maintain	YS01 w of liquids or gases. The body, allowing entrapp on the mesh screen. (YS34 BV01	\$24.99 ed material to = 3/4" FPT and Y		

## "Happiness belongs to the Self-Sufficient"

## Do It Yourself Installation Kits

Item	Product D	escription	SKU	Price			
NEW YORK WARRY CONT.		comes with crimp rings	DWkit	\$73.54			
	Domestic Hot Water Kit	comes with stainless steel rings	DWkitssr	\$73.92			
		comes with SharkBite® fittings	DWkitsb	\$75.45			
0   🖣 🦃	Designed to be used with the brazed plate exchanger being mounted on a domestic hot water tank. All fittings shown are ncluded in the kit to simplify the order process and to get those hard-to-find parts. We only use high quality fittings and pa DWkitsb comes with SharkBite® fittings.						
	Internal Domestic Hot Water Kit—	-with SharkBite® fittings	SDWkitsb	\$98.41			
		Designed for wood furnaces with domestic hot water coils inside the wood furnaces. This kit will only work with a unit with an internal coil. Diagram of installation is included in kit. The only additional thing you will need is a pump. Pump sizing is dependent on application.					
		comes with crimp rings	HCkit	\$24.76			
	Hydro Coil Kit	comes with stainless steel rings	HCkitssr	\$25.14			
		comes with SharkBite® fittings	HCkitsb	\$37.97			
To Lo		rith our water to air heat exchangers to e order process and to get those hard-t ex crimp fittings and crimp rings.		ite® fittings shown			
	Aquastat & Hydro Coil Kit	comes with crimp rings	AHCkit	\$174.75			
(D)		comes with stainless steel rings	AHCkitssr	\$175.13			
E STATE OF THE STA		comes with SharkBite® fittings	AHCkitsb	\$187.96			
<b>L</b>	Works with forced air systems and with our water to air heat exchangers to simplify installation. All SharkBite® fittings shown are included in the kit to simplify the order process and to get those hard-to-find parts.  HCKIT comes with copper fittings, pex crimp fittings and crimp rings.						
		comes with crimp rings	BBkit	\$38.56			
		comes with stainless steel rings	BBkitssr	\$38.94			
	Brazed Boiler Kit	comes with SharkBite® fittings	BBkitsb	\$49.35			
		Please request the 1-1/4" version of kit	if needed. (50 plates and above)				
		e exchanger on an existing boiler. All fi -to-find parts. BBkitsb comes with Shar		e kit to simplify the			
	D 10 11 17: 1:1 : 1	comes with crimp rings	BBkitIC	\$336.89			
	Brazed Boiler Kit with Internal Coil Kit	with stainless steel rings	BBkitlCssr	\$337.27			
		with SharkBite® fittings	BBkitlCsb	\$345.69			
	included in the kit to simplify the ordinal Included in kit BKU01 (2), PF01 (2), P	Designed to be used with the brazed plate exchanger and boilers with internal domestic coils. All part & fittings shown are included in the kit to simplify the order process and to get those hard-to-find parts. We only use high quality fittings and pa Included in kit BKU01 (2), PF01 (2), PR01 (2), BKT34, BKN3402, CVS34, TP007, PF034 & AQ003, a roll of teflon tape and easy to follow diagram. BBkitlCsb with SharkBite® fittings.					
1 -		comes with crimp rings	MBPkit	\$59.76			
	Manual By-Pass Kit	comes with stainless steel rings	MBPkitssr	\$61.66			
ಶಶಶಶಶ 🌃		comes with SharkBite® fittings	MBPkitsb	\$105.95			
		al by-pass of a water to air, space heate ded in the kit to simplify the order proc citsb with SharkBite® fittings.					
		comes with crimp rings	MFkit	\$35.47			



comes with crimp rings MFkit \$35.47

Manual Feed Kit comes with stainless steel rings MFkitssr \$36.61

comes with SharkBite\* fittings MFkitsb \$61.31

This kit was designed for manual refill of your boiler. It is most often used with open loop systems. All fittings shown are included in the kit to simplify the order process and to get those hard-to-find parts. We only use high quality fittings and parts. 1" pex fittings and pex crimp rings for easy installation.

MFkitsb comes with SharkBite® fittings.

## Do It Yourself Installation Kits

ltem			Product Description	SKU	Price		
		comes with crimp rings	INSTkit	\$47.25			
	0 1 1	Install Kit with Flanges comes with stainless steel rings comes with SharkBite® fittings	comes with stainless steel rings	INSTkitssr	\$47.63		
			INSTkitsb	\$59.36			
A. I IN		took into considera	e for new boiler installs. This kit was designed for hooking-up wood boilers and pumps properly. We also ration bleeding the air from water lines and trouble shooting possible future issues (ex: pumps). Includes 1" ex crimp rings for easy installation. This is for Boilers that have existing ball valves. For kit with ball valves see				

below. Crimp tools available (see Page 12). INSTkitsb comes with SharkBite® fittings.



	comes with crimp rings	SINSTkit	\$69.73
Install Kit with Ball Valves	comes with stainless steel rings	SINSTkitssr	\$70.11
buil valves	comes with SharkBite® fittings	SINSTkitsb	\$81.84

This kit was designed for boiler hook-ups that need ball valves. All shown parts are included in the kit to simplify the installation & ordering process and to get those hard-to-find parts. We also took into consideration bleeding the air from water lines and trouble shooting possible future issues (ex: pumps).

1" pex fittings; SINSTKitsb comes with SharkBite® fittings



Pool & Spa Kit	1" fittings for larger SS exchangers with crimp rings	PSkit01	\$309.38
	1" fittings for larger SS exchangers with stainless steel rings	PSkit01ssr	\$310.90
	3/4" fittings for SS series heat exchangers	PSkit34	\$302.13
	3/4" fittings for SS series heat exchangers with stainless steel rings	PSkit34ssr	\$303.65

This kit was designed for Pool and Spa hook-ups. It is most often used with open and closed loop system. All fittings shown are included in the kit to simplify the order process and to get those hard to find parts. We only use high quality fittings and parts. PSkit01 includes 1" fittings for larger exchangers & PSkit34 3/4" fittings for SS series heat exchangers.

## Building Your Own Wood Boiler

ltem	Product Description	SKU	Price
-	Air Cooled Steel Door	DIYKitwDoor	\$979.94
	Build your own wood boiler or furnace and simple mount a door engin Cooled Steel Door High Quality welding and CNC cuts. This door can't with everything in the DIYKitComplete, all the parts are installed in the installed by you. Wiring diagram is included as well. SHIPPING INCLUDI	be made for the same price!!!! e door except the AQ007 whic	The door comes
	DIY Kit Complete — Comes Assembled	DIYKitComplete	\$289.99
	This kit includes all that you see in the picture, as well as a Wiring Diag The Kit Includes: AQ007 Ranco Digital Controller (Which controls the V well for Ranco controller (This holds the Temp Prob. of the Digital cont Blower that feeds your boiler with air with 148CFM), FC546 Fan Cover your boiler when idling to prevent overheating and excessively smoki (This Solenoid lifts the fan cover when the Fan/Blower is activated), So (Wire from solenoid to Blower / Fan). The Dimensions: 12 3/4" Height a Kit Completely assembled). Volts: 115 V (All you need is to provide electromes assembled, as seen in picture**	Vater Temp of your Boiler), DW roller), 4C446 Dayton Blower ( for Dayton Fan (This cover pre ng), LS001 Laminated Solenoi lenoid Bracket (Holds Solenoi and 6 1/2" wide (This is the Me	/1204 Stainless Dry FN446) (The fan / vents air entering d to lift fan cover d), Fan Blower Wire
	Auto Damper Kit with Digital Aquastat	DIYKitAQ	\$181.99
	This kit includes all of the parts listed DIY Kit Complete EXCEPT the fan. It does not come assembled.		
	Auto Damper Kit	DIYKit	\$80.99
	This kit includes all of the parts listed DIY Kit Complete EXCEPT the fan come assembled.	, Aquastat or Stainless Steel D	rywell. It does not

## **BLOWERS**

ltem	Product Description	SKU	Price	
	NBK 4C446 (6FHX8)	FN446	\$79.99	
	Shaded pole blower, air flow @ 0.000 inch static pressure 148 CFM, speed 3160, Voltage rating 115 VAC, current rating 1.37 Amps, frequency 60/50 HZ, thermal protection auto, wheel diameter 3 13/16 ln, wheel width 2 1/2 ln, inlet diameter 3 1/8 ln, air flow @ 0.100 ln static pressure 141 CFM. This is probably the most used blower in the outdoor wood furnace industry. Brands that use: Legend, Woodmaster, Ozark, Heat Source, Heatmor, Hawken Energy, Freedom Outdoor—Eliminator 48", HeatMaster & Pacific Western.			
	NBK 1TDN3	FN1TDN3	\$59.99	
	Blower Outlet Rectangular, Blower Wheel Diameter 2-15 Blower Motor Type Shaded Pole, Blower Thermal Protec 1 Phase, Full Load Amps .51, RPM 3233, Max. Inlet Temp. Overall Depth 4-1/2 In., Includes Discharge Mounting Fl	tion Auto, Blower Co . 104 Degrees F, Ove	onduit Box Yes, CFM @ 0.000-In. SP 30, 60 Hz,	
	NBK 1TDN4	FN1TDN4	\$69.99	
	Blower Outlet Shape Rectangular, Blower Wheel Diamet 115VAC, Blower Motor Type Shaded Pole, Blower Therm CFM @ 0.000-In. SP 49, 60 Hz, 1 Phase, Full Load Amps .5 In., Overall Width 4-3-16 In., Overall Depth 4-1/2 In., Incl	al Protection Auto T 0, RPM 34034 Max.	hermal Protection, Blower Conduit Box Yes, Inlet Temp. 104 Degrees F, Overall Height 4-1/2	
2 3	NBK 1TDN5	FN1TDN5	\$69.99	
	Forward curve, direct drive, wheel dia 2 15/16 In., CFM @ RPM 3388, Max inlet temp 104° F, overall height 4 5/8 In mounting flange. Replaces 4C012			
	NBK 1TDN6	FN1TDN6	\$79.99	
	Blower Outlet Shape Round, With/Without Flange Without Permanent Split Capacitor, Motor Enclosure Open, Motor Conduit Box Yes, Max. Ambient Temp. Wheel Type Forward Housing Finish Enamel, Housing Material Rolled Steel, H	or Insulation Class B, ard Curve, Drive Type	Thermal Protection Auto, Lead Length 13", e Direct, Mounting Position All Position,	
	NBK 1TDN7	FN1TDN7	\$75.99	
	Forward curve, direct drive, wheel dia 3 in, CFM 50, 0.00 0.23, RPM 3036, Max inlet Temp 104° F, overall height 5 discharge mounting flange and inlet cover. Brands that	13/16 ln, overall wid	th 5 1/8 In, overall depth 6 7/16 In, includes	
	NBK 1TDR3	FN1TDR3	\$109.99	
	Forward curve, direct drive, wheel dia 5 1/8 in, CFM @ 0. RPM 1640, Max inlet temp 104° F, overall height 9 7/8 In mounting flange. Brands that use: Taylor, HeatSource &	, overall width 7 11/	16 In, overall depth 8 7/8 In, includes discharge	
	NBK 1TDP1	FN1TDP1	\$79.99	
	Forward curve, direct drive, wheel dia 3 In., CFM @ 0.000 3010, Max inlet temp 104° F, overall height 5 3/4 In, over mounting flange. Brands that use: WoodMaster 5500 (re Dayton #4C004.	all width 5 3/8 In, ov	verall depth 5 3/8 In, includes discharge	
	NBK 1TDP3	FN1TDP3	\$79.99	
94	Forward curve, direct drive, wheel dia 3 15/16 ln, CFM 71. RPM 3016, Max inlet temp 104° F, overall height 5 3/4 ln, o mounting flange. Brands that use: John Jr. Johnson, Taylo	overall width 6 1/4 In	, overall depth 6 7/16 ln, includes discharge	
	NBK 1TDP5	FN1TDP5	\$135.99	
	Forward curve, direct drive, wheel dia 3 3/4 In., CFM @ 0.65, RPM 2860, Max inlet temp 104° F, overall height 6 1 discharge mounting flange. Brands that use: Aquatherm	1/16 In, overall wid		
	NBK ITDP6	FN1TDP6	\$79.99	
	Blower Outlet Shape Rectangular, Yes, Blower Wheel Dia 230VAC, Blower Motor Type Permanent Split Capacitor, 0.000-In. SP 133, 50/60 Hz, 1 Phase, Full Load Amps 0.33 In., Overall Width 5-5/8 In., Overall Depth 6-9/16 In., Incl	Blower Thermal Prot , RPM 2880, Max. Inl	ection Auto, Blower Conduit Box Yes, CFM @ et Temp. 104 Degrees F, Overall Height 6-9/16	

em	Product Description	SKU	Price
	NBK 1TDP7	FN1TDP7	\$79.99
	Forward curve, direct drive, wheel dia 3 15/16 ln, C RPM 3100, Max inlet temp 104° F, overall height 5 3 mounting flange. Brands that use: Legend, Woodm Hawken Energy, HeatMaster & Pacific Western. Dire	3/4 In, overall width 6 5 naster 4400 & 5500, Oz	5/16 In, overall depth 5 3/8 In, includes discharge ark, Heat Source, Heatmor 200 css & 400 css,
	NBK 1TDT2	FN1TDT2	\$159.99
	Blower Outlet Shape Rectangular, Blower Wheel Di 115VAC, Blower Motor Type Permanent Split Capac 0.000-In. SP 549, 60 Hz, 1 Phase, Full Load Amps 2.0 Overall Width 5-1/4 In., Overall Depth 10-7/16 In., I	citor, Blower Thermal F 05, RPM 1640, Max. Inle	Protection auto, Blower Conduit Box Yes, CFM @ et Temp. 104 Degrees F, Overall Height 11-1/8 In.,
	NBK 1TDT7	FN1TDT7	\$199.99
i	Forward curve, direct drive, wheel dia 6 1/4 In., CFN 2.00/1.54, RPM 1430/1060, Max inlet temp 104° F, c ncludes discharge mounting flange. Replaces 4C5	overall height 11 1/8 In	
Blower Outlet Shape Square, Yes, Blower Wheel Diameter 3 In., Blower Wheel Width 1-7/8 In., Blower Voltage 12VDC, Blower Motor Type DC, Blower Thermal Protection No Thermal Protection, Blower Conduit Box Yes, CFM @ 0.000-In. S 57, - Hz, 1 Phase, Full Load Amps 1.50, RPM 3470, Max. Inlet Temp. 104 Degrees F, Overall Height 5-13/16 In., Overall V 6-3/16 In., Overall Depth 6-7/16 In., Includes Discharge Mounting Flange and Inlet Cover			
	NBK 6FHX5	FN4C442	\$129.99
Blower Outlet Shape Rectangular, Yes, Blower Wheel Diameter 3-13/16 In., Blower Wheel Width 1-7/8 In., Blower Voltage 12VDC, Blower Motor Type DC, Blower Thermal Protection No Thermal Protection, Blower Conduit Box Yes, CFM @ 0.000-In. SP 140, - Hz, 1 Phase, Full Load Amps 1.16, RPM 3020, Max. Inlet Temp. 104 Degrees F, Overall Height 7-3/4 In., Overall Width 6-3/16 In., Overall Depth 5-3/8 In., Includes Discharge Mounting Flange			
	NBK 4C004	FN004	\$99.99
	Shaded pole blower, air flow @ 0.000 inch static pro Amp, frequency 60/50 HZ, thermal protection auto air flow @ 0.100 inch static pressure 70 CFM. Brand	o, wheel diameter 3 inc	thes, wheel width 1 7/8 In, Inlet diameter 2 5/8 In,

ltem	Product Description	SKU	Price		
	NBK A166 702111307	FNA166	\$89.99		
	peed, sleeve bearing, thermally protected, Brands that use: Central Boiler E-Classic 2400,				
1	Replaces Fasco No. 70731455 or 70631543 FN700787 \$139.99				
	FN700787 Fasco No. 70731455 or 70631543- 115 VAC, 1.0 Amps, 60 HZ. CFM 160, 1500 RPM, includes discharge mounting flange. Empyre 250 & 450 and Cozeburn 250 & 450				
Replaces Fasco No. 702112231 FN800789 \$169.99					
	0 RPM, includes discharge mounting flange. Elite-Indoor 100/200.				

"Perhaps the Greatest Self Deceit is to tell Ourselves that we Cannot be Self-Sufficient"

## Hardy Blowers

Item	Product Description	SKU	Price	
	Hardy Blower	Hardy2002.16	\$209.99	
	Draft Fan with Damper for Hardy—Compatible with Hardy H-2, H-3, and H,6—Compatible with Hardy H-4, H-5, and H-25 pre 2007—Compatible replacement for original Hardy 100 CFM blower part# 2002.16—Voltage Rating 115 Volts, Current Rating 0.74 Amp, Frequency 60/50 Hertz, Thermal Protection Auto.			
	Hardy Blower	Hardy2002.28	\$214.99	
	Draft Fan with Damper for Hardy—Compatible with Hardy H-4, H-5—Compatible replacement for original Hardy 130 CFM blower part# 2002.28—Voltage Rating 115 Volts, Current Rating 0.74 Amp, Frequency 60/50 Hertz, Thermal Protection Auto.			
R	Hardy Blower	Hardy2002.30	\$214.99	
Con the second	Draft Fan with Damper for Hardy—Compatible with Hardy H-5, 130CFM—Compatible replacement for original Hardy 130 CFM blower part# 2002.30—Voltage Rating 115 Volts, Current Rating 0.74 Amp, Frequency 60/50 Hertz, Thermal Protection Auto.			

## Mahoning Blowers

ltem	Product Description	SKU	Price	
	Mahoning Blower	MOH450	\$139.99	
	Compatible with Mahoning models 100, 200, 300 Draft Fan with Damper Connects with a round flange Shaded Pole Blower, Air Flow @ 0.000 Inch Static Pressure 70 CFM, Speed 2870, RMP 3016 Voltage Rating 115 Volts, Current Rating 0.74 Amp, Frequency 60/50 Hertz, Thermal Protection Auto			
	Mahoning Blower	MOH750	\$149.99	
	Compatible with Mahoning models 400, 500 Draft Fan with Damper Connects with a rectangular flange Shaded Pole Blower, Air Flow @ 0.000 Inch Static Pressure 148 CFM, RPM 3100, Voltage Rating 115 Volts, Current Rating 1.37 Amps, Frequency 60/50 Hertz, Thermal Protection Auto			
	Mahoning Blower	MOH1000	\$139.99	
Compatible with Mahoning model 600 Draft Fan with Damper Connects with a rectangular flange Shaded Pole In Mahoning Blower & Damper 1TDR3				
	Mahoning Blower	MOH2000	\$259.99	
	Compatible with Mahoning models 400, 500 Draft Fan with Damper Connects with a rectangular flange Shaded Pole Blower, Mahoning Blower & Damper 4C444 & 1TDR7			

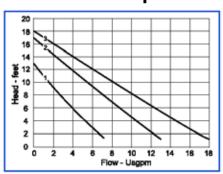
## Shaver Improvement Kits

ltem	Product Description	SKU	Price		
	Complete Shaver Damper Kit	SDKitComplete	\$259.99		
	This is a great kit to Upgrade your Shaver Wood Furnace. And we've done most of the work for you!! Everything comes already assembled and is very simple to use. You will have the ability to set the water temperature and differential anywhere you like depending on the season. This kit includes: An Upgraded Fan 1TDP3, Laminated Solenoid LS001, Laminated Solenoid Bracket, Blower Wire Jumper, Fan Cover FC546, Fan Cover Spring, Digital Aquastat AQ007, Stainless Steel Dry Well DW1204, a How to install Diagram and a Wiring Diagram				
	Shaver Auto Damper Kit with Digital Aquastat	SDKitAQ	\$189.99		
	Like the kit above plus you will have a lot more control of your Wood Furnace with the assistance of the Digital Aquastat. You will have the ability to set the water temperature and differential anywhere you like depending on the season. This kit only works with Shaver Wood Furnace with 1TDP3 fan! If your Shaver Wood Furnace has the 1TDN7 fan, you will need to get the 1TDP3 fan or SDKitComplete. This kit includes: Laminated Solenoid LS001, Laminated Solenoid Bracket, Blower Wire Jumper, Fan Cover FC546, Fan Cover Spring, Digital Aquastat AQ007, Stainless Steel Dry Well DW1204, Diagram How to install, Wiring Diagram. **Fan is not Included in this Kit**				
	Shaver Auto Damper Kit	SDKit	\$89.99		
	This is a great kit to Upgrade your Shaver Wood Furnace. Your Shaver will st reduce the amount of wood being burned as well. To Install this kit it shoul kit only works with Shaver Wood Furnace with 1TDP3 fan! If your Shaver W get the 1TDP3 fan or the SDKitComlete. This kit includes: Laminated Solen Jumper. Fan Cover FC546. Fan Cover Spring, and a How to install Diagram.	d take about an hour with a har lood Furnace has the 1TDN7 fan oid LS001, Laminated Solenoid	ndful of tools. This , you will need to Bracket, Blower Wire		

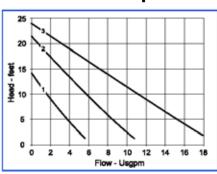


**Performance Charts** 

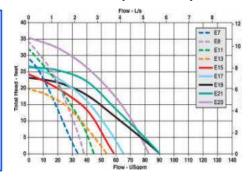
Astro 30 - 3 Speed



Astro 50 - 3 Speed



#### ARMflo (E Series)



#### **Astro 2 Cast Iron Pumps (3 Speed)**



Model Deatil & Full Load Amp Draw (A)	SKU	Price (each)
Astro 230-3 (110223-305) - 0.81 - 1/25hp	ARM30-3	\$129.99
Astro 250-3 (110223-307) - 0.98 - 1/20hp	ARM50-3	\$166.99

New Features: 3 Speed Pumps, Removable Check Valve, Lead Free Pumps. A hydronic circulator that conserves energy and eliminates maintenance. Armstrong's Astro 2 Circulator is intended for circulating water or ethylene glycol solutions in closed hydronic or solar heating systems. It is designed with no mechanical seals or couplers to replace, and no lubrication is required.

#### Astro 2 Stainless Steel Pumps (3 Speed) For Potable Water



Model Deatil & Full Load Amp Draw (A)	SKU	Price (each)
Astro 30SS-3 (110223-306) - 0.81 - 1/25hp	ARM30SS-3	\$277.29
Astro 50SS-3 (110223-308) - 0.98 - 1/20hp	ARM50SS-3	\$268.99

#### Stainless Steel!

New Features: 3 Speed Pumps, Removable Check Valve, Lead Free Pumps. Astro 2 series, 230Cl model is a 115V, 3-speed flanged circulator designed for domestic water or open-loop heating applications. 3 speeds (Low/Med/Hi) offer flexibility in installation of domestic recirculation, radiant heating, baseboard and other systems. Can be used for potable applications

#### **ARMflo Pumps Models**



Model Deatil & Full Load Amp Draw (A)	SKU	Price (each)
ARMflo E7 (182202-643) - 2.0 - 1/6hp	ARME7	\$489.99
ARMflo E8 (182202-657) - 2.0 - 1/6hp	ARME8	\$549.99
ARMflo E9 (182202-659) - 2.0 - 1/6hp	ARME9	\$549.99

ARMflo E Series high efficiency circulators are perfect for heating or cooling applications such as hot water, geothermal, radiant panel and snow melting in large residential and light commercial installations. The advanced motor technology and efficient hydraulic design of the E Series yields an overall efficiency that's up to 41% better than competitive pumps of similar power.

#### **Armstrong Astro SS TA For Recirculation Systems & Internal Coils**



Model Deatil & Full Load Amp Draw (A)	SKU	Price (each)
Astro 230SS-TA (110223-148)	Astro230SS-TA	\$559.99
Astro 250SS-TA (110223-149)	Astro250SS-TA	\$569.99

1/25 HP, Stainless Steel Recirculation Pump with Timer, Aquastat & 6ft cord.

For all the people with wood boilers that have internal domestic coils. A nice simple, energy efficient and cost effective solution without altering your domestic hot water tank.

All you do is pipe this into your wood boiler and domestic hot water tank. The pump will sense temperature and will turn on the pump when necessary. This slick unit also has a built in timer, which will ensure plenty of hot water at the time of day your family needs it. These pumps can circulate up to 250 feet.

"Great for boilers with internal coils for domestic hot water!"

Taco 007 F5 Cast Iron



#### **Taco 007 Pumps**



Model Detail	SKU	Price	
pump	TP007F5	\$105.99	

**Taco 007 F5** Circulator Pump is the most popular hydronic circulator sold today. Features a field serviceable cartridge design and provides a quiet, efficient operation and unmatched reliability. It has a self-lubricating, maintenance-free design and it's flow parameters make it an ideal circulator for a wide range of hydronic applications. Taco 007-F5 Circulator Pump is a cartridge style, maintenance free, wet-rotor, in-line, single stage circulator pump. It is designed for quiet operation in Hydronic heating, Radiant heating and Hydro-Air fan coils.

**Taco 007 BF5-J** Cast Iron pump with a Bronze Cartridge TP007 \$119.38

**Taco 007 BF5-J Pump** Taco 007 residential circulator is designed for use in hot water heating systems and is used in circulating zones in floor heat and baseboard. The unique replacement cartridges deliver direct drive and are serviced without replacing pump. They are self lubricating and require no maintenance. (115 volt)

**Taco 007 - SF5** Stainless Steel TP007-SF5 **\$385.8** 

**Taco 007 SF5 – Stainless Steel** Circulator Pump is one of the most popular hydronic circulators sold today. Features a field serviceable cartridge design and provides a quiet, efficient operation and unmatched reliability. It has a self-lubricating, maintenance free design and it's flow parameters make it an ideal circulator for a wide range of open and closed loop hydronic heating, radiant heating, solar heating and many other applications \*\*\***Can be used for potable applications.** 

#### Taco 009 Pumps



Model Detail	SKU	Price
Taco 009 F5 Cast Iron pump	TP009F5	\$189.99

**Taco 009 F5** The High Velocity series Taco 009-F5 Circulator Pump is designed for use in high head and low flow applications in hydronic heating and radiant heating. Features a field-serviceable cartridge which allows to replace the cartridge without replacing the entire circulator. The Taco 009-F5 maintenance free design provides unmatched reliability.

**Taco 009 BF5-J Pump** Cast Iron pump with a Bronze Cartridge TP009 **\$263.12** 

**Taco 009 BF5-J Pump** The Taco 009 typical uses include hydronic heating, radiant in-floor/panel heating, closed & open loop solar and wood furnace heating systems. The bronze cartridge 009 is used in higher-head/lower-flow heat recovery, heating and light commercial. The unique replaceable cartridge contains all of the moving parts and allows for easy service, instead of replacing the entire circulator. Compact, direct-drive, low power consumption design is ideal for high-efficiency jobs. (115 volt) Taco 009 BF5-J & Taco 0011 BF4-J are the flagship pumps of the wood boiler industry.

Taco 009- SF5 Stainless SteelTP009-SF5\$299.95

Taco 009-SF5 Stainless Steel The High Velocity Series Taco 009 Cartridge Circulator is designed for a wide range of residential and light commercial, higher-head/lower-flow water circulating applications. Stainless Steel can be used in higher-head /lower-flow heat recovery, open-loop solar heating and light commercial/domestic water recirculation systems. Unique, replaceable cartridge contains all of the moving parts so you can service it easily instead of replacing the entire unit. \*\*\*Can be used for potable applications.

#### **Taco 0011 Pumps**



Model Detail	SKU	Price
Taco 0011 F4 Cast Iron pump	TP011F4	\$255.01

**Taco 0011 F4** Circulator Pump is designed for high head and medium flow applications, that are common for large residential and light commercial applications, such as closed loop hydronic heating. The Taco 0011-F4 Circulator Pump is perfect for boilers with a high-pressure drop, as well as fan coil units, heat exchangers, large radiant heat and heat recovery/geothermal systems. Universal flange to flange dimensions and flange orientation of the Taco 0011-F4 model allows it to serve as a replacement for many other models. This circulator is compact, has low power consumption and ideal for high-efficiency jobs.

**Taco 0011 BF4-J Pump** — Cast Iron pump with a Bronze Cartridge TP011 **\$311.06** 

**Taco 0011 BF4-J Pump.** The Taco 0011 pump is designed for hot water heating systems; high velocity along with high lift. The 011 has all the same features as the previous 0011 model. Maximum load: 300' of run at 16' of lift with 1" I.D. water line. (115 volt) Taco 009 BF5-J & Taco 0011 BF4-J are the flagship pumps of the wood boiler industry.

**Taco 0011 – SF4** Stainless Steel TP011-SF4 **\$494.0** 

**Taco 0011 SF4-Stainless Steel** Tis specifically designed for high head / medium flow applications in large residential or light commercial closed loop hydronic heating and chilled water cooling systems. Ideal for high pressure drop boilers, fan coil units, heat exchangers, large radiant heating and heat recovery/geothermal systems. The Stainless Steel 0011 can be used on open loop systems. The unique replaceable cartridge contains all of the moving parts and allows for easy service instead of replacing the entire circulator. \*\*\*\*Can be used for potable applications.



#### Taco 0013 Pumps



Model Detail	SKU	Price
Taco 0013 F3 — Cast Iron Pump	TP013F3	\$369.99

**Taco 0013 F3** pumps are cartridge-style, maintenance-free, wet-rotor, in-line circulators. The 0013-F3 is a cast iron unit intended to pump water through closed loop systems for heating and cooling when higher head, lower flow water circulating applications are needed. The 00 Series' unique, replaceable stainless steel cartridge contains all of the pump's moving parts, which allows for easy field service. The 00 Series cartridge circulator features carbon bearings that are self-lubricating, a ceramic shaft and no mechanical seal. The exclusive dirt barrier keeps dirty system water out of the bearing chamber reducing wear on the pump for longer life. Flange gaskets are included

<b>Taco 0013 BF3-J Pump</b> — with a Bronze Cartridge	TP013	\$313.09
race contrage	11 0 1 5	40.00

**The Taco 0013** is specifically de-signed for high-head/high-flow applications in large residential and light commercial systems. It is ideal for high pressure drop boilers, fan coil units, heat exchangers, larger radiant systems, heat recovery and geothermal systems. The bronze cartridge 0013 should be used on open loop systems.

#### Taco 0015 Pump



Model Detail	SKU	Price
Taco 0015—MSF3 — with a Bronze Cartridge	TP015-MSF3	\$97.33

**The Taco 0015** is specifically designed for high-head/high-flow applications in large residential and light commercial systems. It is ideal for high pressure drop boilers, fan coil units, heat exchangers, larger radiant systems, heat recovery and geothermal systems. The bronze cartridge 0013 should be used on open loop systems.

#### **Taco Viridian 2218 Pump**



Model Detail	SKU	Price
Taco Viridian 2218 Pump	TP2218	\$249.99

**Taco Viridian 2218 Pump** circulator is a temperature sensing, self-adjusting, variable speed wet rotor circulator pump with high efficiency ECM permanent magnet motor. Operating modes include Delta-T differential temperature, 4 fixed speeds, set point heat, set point cool and boiler protection. Has full backlit LCD to display operating mode or for error code diagnostics. Features: Operates in 5 different modes, Full Speed Over-ride, Full backlit LCD display, High-efficiency ECM motor uses up to 85% less electricity and Can save hundreds in fuel costs.

#### Taco 007E Pump



Model Detail	SKU	Price
Taco 007E Pump	TP007E	\$152.64

**Taco 007E-F2** is a wet rotor circulator pump with a high-efficiency ECM permanent magnet motor. The 007E is everything you love about the 007 Series circulator pump. It is ideal for hydronic systems zoned with circulators or zone valves. The 007E delivers the performance equivalent to the 007 Series circulator pumps plus the reliability and ease of installation that made the Taco 00 Series circulators famous.



- Gaskets are included with pump
- Flanges are sold separately
   See Flanges on page 27





#### Wilo Star 30F Pump



Model Detail	SKU	Price
Wilo Star 30F — Cast Iron with a Bronze Cartridge	WS30F	\$139.99

#### Wilo 4095807 Star 30F Single Speed CI Circulator Pump, 115 Volts

Wet rotor circulation pump, with flanged connection. Cast iron body for hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and airconditioning systems. Cable entry both sides of terminal box. Quick connection spring clips for simple electrical connection. Steel Terminal Box. Fits all Competitor's Models. Powerful Starting Torque. Ultra Quiet. Reliable Wet Rotor Technology. Automatically Vented. \*\*\*Rubber gaskets included with pump\*\*\* \* These Pumps are Made in the USA!

Flow Range: 0-26 GPM—Head Range: 0-30 Feet—Minimum Fluid Temperature: 14 degrees F (-10 degrees C)- Maximum Fluid Temperature: 230 degrees F (110 degrees C) - Maximum Working Pressure: 140 PSI—Connection Sizes: 3/4", 1-1/4", 1-1/2" Flanged

#### Wilo Star 30F Pump



Model Detail	SKU	Price
Wilo Star 32F — Cast Iron with a Bronze Cartridge	WS32F	\$145.99

#### Wilo 4090770 Star 32F Single Speed CI Circulator Pump, 115 Volts

Wet rotor circulation pump, with flanged connection. Cast iron body for hotwater heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems. Cable entry both sides of terminal box. Quick connection spring clips for simple electrical connection. Steel Terminal Box. Fits all Competitor's Models. Powerful Starting Torque. Ultra Quiet. Reliable Wet Rotor Technology. Automatically Vented. \*\*\*Rubber gaskets included with pump\*\*\* *These Pumps are Made in the USA!* 

Performance Data Flow Range: 0-32 GPM — Head Range: 0-32 Feet — Minimum Fluid Temperature: 14 degrees F (-10 degrees C) — Maximum Fluid Temperature: 230 degrees F (110 degrees C) — Maximum Working Pressure: 140 PSI — Connection Sizes: 3/4", 1-1/4", 1-1/2" Flanged

## **Gaskets**

Taco Gaskets			
	Model Detail	SKU	Price
OO	Taco Gasket set- 2 qty	Gaskets-T	\$4.99
<b>Universal Gaskets</b>			
	Model Detail	SKU	Price
ØØ	Universal Gasket set- 2 qty	Gaskets-U	\$5.99

## Flanges & Replacement Cartridges

#### **Freedom Flanges**



Model Detail	SKU	Price
3/4" NPT Flange Cast Iron	PF034	\$13.29
1" NPT Flange Cast Iron	PF001	\$13.29

A Quality Flange, Not a Cheap Look a Like!

- Fits all Taco "00" circulators, Armstrong and most flanged pumps
- Easy-on, easy-off with an adjustable wrench
- Stronger than standard cast iron
- Available in 3/4" & 1"

#### **Isolation Flanges**



Model Detail	SKU	Price
3/4" NPT Full Port Isolation Flange	IS034	\$23.99
1" NPT Full Port Isolation Flange	IS001	\$32.99
1 1/4" NPT Full Port Isolation Flange	IS114	\$35.99

Armstrong Quality at a Great Price! The Circulator Isolation Flange (CIF) is designed to work with most circulating pumps. Armstrong uses a full port design ball valve. The practical, all-in -one design of the CIF conveniently isolates the circulator and eliminates the need to drain the system when pump repair or replacement is required.



Model Detail	SKU	Price
Taco Swivel Isolation Flanges- 3/4"- Set of 2	ISFTaco34	\$47.99
Taco Swivel Isolation Flanges- 1"- Set of 2	ISFTaco01	\$55.99
Model Detail	SKU	Price
Isolation Ball Valve- 3/4" - With Drain Isolation Flange with drain valve, 3/4"; includes flange,	ISFD34	\$48.60



#### **Taco Pump Replacement Cartridges**



Model Detail	SKU	Price
Replacement Cartridge for 007 (007-045RP)	RC007	99.99
Replacement Cartridge for 009 (009-022RP)	RC009	\$189.99
Replacement Cartridge for 0011 (0011-010RP)	RC011	\$229.99
Replacement Cartridge for 0013 (0013-008RP)	RC013	\$215.99

**Taco Replacement Cartridges** make it easy to repair the pump while in place. Maximum operating pressure is 125 PSI, Maximum water temp 250° F.

To replace, simply remove the four head bolts and remove the head. Slide old cartridge out and replace with new one. Remount the head and replace the four bolts. Done!

Check your pump first before ordering a new cartridge. Simply remove the cartridge run warm water over it and try turning the cartridge until it frees up, this will sometimes fix the frozen cartridge. Small pieces of debris will simply cause the cartridge to seize up. These cartridges work with "00" series pumps.

#### Free Shipping on all orders over \$199.99

"Focus on being True to Yourself and Self-Sufficient, and you'll Eventually find Like Minded People"

# Our NEW Pragon Plate Heat Exchangers



Highest Quality & Designed for Maximum Performance and long life, our new plate heat exchangers compact, rugged assembly is composed of 316L stainless steel plate packs sealed together by means of brazing 99.9% pure copper along the border of the units. This eliminates the need for traditional gaskets or external pressure retaining parts.

These exchangers were designed specifically for wood boilers applications and are built with thicker gauge 316L stainless steel and the plates further apart to prevent debris clotting for a much longer life. They are 40% heavier than most plates out there. Don't be fooled by price! That is exactly what our competition wants!

The plate packs are embossed with special corrugation patterns to promote high turbulence flow, which dramatically increases the heat transfer rates of the units thus making them a highly economical and effective solution for many process and heating applications.

Description & size reference are based on a well insulated home at 10 GPM;  $180^{\circ}$  F temperature water; average climate temperature of  $39.1^{\circ}$  F /  $3.9^{\circ}$  C.



Simplify your installation. A variety of Install kits available with diagrams for guidance. — *Refer to Page 18* 

# Our NEW Pragon Plate Heat Exchangers



## New Larger 1-1/4" ports for better flow on larger Plate Heat Exchangers 50 Plates and above.

Model	Dimensions Inches (mm)										
	Α	В	С	D	F (NP= Number of Plates)	Threaded (in)					
PE 5x12	12.0" (306)	5.0" (126)	9.8" (250)	2.8" (70)	0.49 + 0.09NP 1" or 1-1						
PE 3x8	7.8" (196)	3.4" (86)	6.2" (156)	1.8" (46)	2.24 x NP + 7 = mm	3/4" MNPT					

Model	Plate Area	Channel Volume	Maximum Flow	Maximum number of plates	Weight (empty) kg (lb)		
PE 5x12	0.032 (0.34)	0.054 (0.014)	189 (50)	100	2.2 + 0.16NP (4.8 + 0.35NP)		
PE 3x8	0.03 (0.14)	0.022 (0.006)	45 912)	50	$0.7 + 0.06 \times NP = kg$ (0.7 + 0.06 x NP x 2.2)		

Model Number	Description & Size Reference	Price
PE 5x12 - 10	10 Plate Exchanger 20,000 BTU - Domestic Hot Water	\$139.99
PE 5x12 - 20	20 Plate Exchanger 40,000 BTU - Large Domestic Hot Water	\$173.99
PE 5x12 - 30	30 Plate Exchanger 60,000 BTU - 2,000 to 2,500 Sq. Ft.	\$198.99
PE 5x12 - 40	40 Plate Exchanger 75,000 BTU - 2,500 to 3,000 Sq. Ft.	\$249.99
PE 5x12 - 50 ***	50 Plate Exchanger 100,000 BTU - 3,000 to 3,500 Sq. Ft	\$275.99
PE 5x12 - 60 ***	60 Plate Exchanger 150,000 BTU - 3,500 to 4,000 Sq. Ft.	\$315.99
PE 5x12 - 70 ***	70 Plate Exchanger 175,000 BTU - 4,000 to 4,500 Sq. Ft	\$359.99
PE 5x12 - 80 ***	80 Plate Exchanger 200,000 BTU - 4,500 to 5,000 Sq. Ft.	\$392.99
PE 5x12 - 90 ***	90 Plate Exchanger 225,000 BTU - 5,000 to 5,500 Sq. Ft.	\$417.99
PE 5x12 - 100 ***	100 Plate Exchanger 250,000 BTU - 5,500 to 6,000 Sq. Ft.	\$455.99

#### \*\*\*PE 5 x 12, 10 plate through 40 plate have 1" MNPT threads. 50 plate through 100 plate have 1-1/4" MNPT threads.

Model Number	Descrip	tion & Size Reference	Price
PE 3x8 - 20	20 Plate Exchanger	12,000 BTU - Beer Chiller, Diesel Warmer	\$126.99
PE 3x8 - 30	30 Plate Exchanger	20,000 BTU - Domestic Hot Water	\$148.99
PE 3x8 - 40	40 Plate Exchanger	25,000 BTU - Large Beer Chiller	\$163.99
PE 3x8 - 50	50 Plate Exchanger	30,000 BTU - Large Domestic Hot Water	\$180.99

## Our Dragon Water to Air Heat Exchangers



Check out our NEW Site!
DragonbreathHX.com



#### Features:

- Aluminum fins are 12 per inch, with a 22 gauge galvanized steel frame
- 3/8" seamless tubing, 3 core construction for better heat exchange
- High flow of 12 GPM, 175 psi and can handle up to 350°F
- · Highest Quality in the business!

#### **Copper Features:**

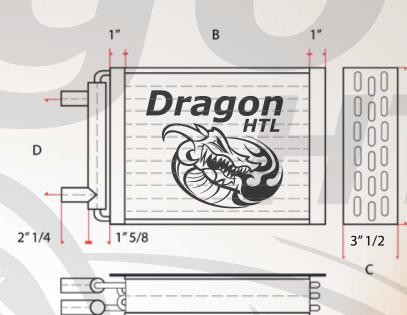
- Thickest you can get!
- K-Grade copper
- Price increasing rapidly
- 99.9% pure copper
- · Hi-Temp solder used
- Ports long enough to use Sharkbite® fittings
- · Install Kits available

SKU	Max BTU	Dimensions	Port Size	Price (per unit)
HTL 12x12	60,000	12 x 12 in inches	1"	\$119.99
HTL 12x18	90,000	12 x 18 in inches	1"	\$163.99
HTL 12x24	120,000	12 x 24 in inches	1"	\$174.99
HTL 16x16	80,000	16 x 16 in inches	1"	\$169.99
HTL 16x18	100,000	16 x 18 in inches	1"	\$189.99
HTL 18x18	120,000	18 x 18 in inches	1"	\$198.99
HTL 18x20	140,000	18 x 20 in inches	1"	\$209.99
HTL 19x20	150,000	19 x 20 in inches	1"	\$214.99
HTL 20x20	160,000	20 x 20 in inches	1"	\$225.99
HTL 22x22	200,000	22 x 22 in inches	1"	\$255.99
HTL 22x25	220,000	22 x 25 in inches	1"	\$292.99
HTL 22x30	265,000	22 x 30 in inches	1"	\$358.99
HTL 24x24	240,000	24 x 24 in inches	1"	\$299.99

Call for quantities of 20 or more!

## Our Dragon Water to Air Heat Exchangers

Our Heat Exchangers are High Quality and Built to Last! They are a great fit for a variety of heating and cooling applications. These compact units are designed to maximize heat transfer by utilizing a series of 3/8" copper tubes with high density aluminum fins. The fins are spaced so that the fin density is 12 fins per inch. This design enables heating loads of 50,000 - 60,000 BTU per square foot (please see performance chart below). Despite such high fin density, there is minimal flow resistance through these coils. These work great as solar dumps as well! We also have people using them for cooling and heating in very unique ways. If you're one of those people that like to design new things, all we can provide you with are the specifications below, we have no other information. Good luck with your projects.



Entering Air Temperature 65° F
Entering Water Temperature 180° F
Leaving Air Temperature
Air Pressure Drop: Water Column
Cubic Feet per Minute
Water Pressure Drop:ft for water (1 psi=2.31 ft)
Gallons per Minute
Fins per Inch

Calculations based on: 3-Rows (2.598")/3/8" tubing/ 12 FPI (louvered fin), 1-1/8" OD connections solder

#### Also Available for easy install; Hydro Coil Kit - see pg 18!

Model													A	В	c	D
			CFM	600		800		1000					12	12	3.5	7 3/4
			APD	0.35	LAT	0.58	LAT	0.85	LAT			WPD				
16X18	GPM	5	BTU	44542	133	51846		57659	118			1.01				
		10		47978	138	56895		64294	124			3.64				
		12		48607	139	57836		65550	125			5.11				
			CFM	600		800		1000		1200			12	18	3.5	7 3/4
			APD	0.18	LAT	0.29	LAT	0.42	LAT	0.58	LAT	WPD				
18X18	GPM	5	BTU	51261	143	60663	134	68257	127	75713	123	1.18				
		10		54623	148	65897	140	75406	134	83607	129	4.21				
		12		55219	149	66843	141	76718	135	85292	130	5.91				
			CFM	1200		1400		1600		1800			12	24	3.5	7 3/4
			APD	0.29	LAT	0.37	LAT	0.47	LAT	0.58	LAT	WPD				
18X20	GPM	5	BTU	85400	130	92166	125	98057	121	103251	118	0.61				
		10		94795	137	103538	133	111322	129	118316	125	2.15				
		12		96785	139	106019	134	114295	130	121779	127	3.01				
			CFM	600		800		1000		1200			16	16	3.5	11 1/2
			APD	0.14	LAT	0.22	LAT	0.31	LAT	0.43	LAT	WPD				
19X20	GPM	5	BTU	53087	146	63004	137	70996	130	78960	125	0.69				
		10		56720	151	68750	144	78917	137	87691	132	2.47				
		12		57361	152	69787	145	80375	138	89579	133	3.47				

Specifications continued on the next page...

## Specifications (continued...)

_																		
Model															Α	В	C	D
			CFM	800		1000		1200		1400					16	18	3.5	11 1/2
			APD	0.18	LAT	0.26	LAT	0.35	LAT	0.46	LAT	WPD						
16X18	GPM	5	BTU	65563	140	74152	133	82598	128	89045	123	0.72						
		10		71288	147	82154	140	91567	135	99843	130	2.59						
		12		72310	148	83611	141	93472	136	102203	132	3.63						
		12		72310	140	03011	171	75472	150	102203	132	3.03						
			CFM	1200		1400		1600		1800					18	18	3.5	13
			APD	0.29	LAT	0.37	LAT	0.47	LAT	0.58	LAT	WPD						
18X18	GPM	5	BTU	85400	130	92166	125	98057	121	103251	118	0.61						
		10		94795	137	103538	133	111322	129	118316	125	2.15						
		12		96785	139	106019	134	114295	130	121779	127	3.01						
				70,05		100017		273		1.21177	. = .	3.0.						
			CFM	1400		1600		2000		2200					18	20	3.5	13
			APD	0.31	LAT	0.39	LAT	0.58	LAT	0.68	LAT	WPD						
18X20	GPM	5	BTU	95850	128	102113	123	112549	116	116965	114	0.63						
		10		107540	135	115842	131	130087	124	136267	122	2.26						
		12		110046	137	118864	133	134138	126	140825	123	3.14						
			CFM	1400		1800		2100		2450					19	20	3.5	14 1/2
			APD	0.28	LAT	0.44	LAT	0.57	LAT	0.75	LAT	WPD						
19X20	GPM	5	BTU	96849	128	108760	120	116007	116	123147	111	0.47						
		10		108886	136	124925	128	135015	124	147368	120	1.66						
		12		111481	138	128599	130	139491	126	150589	121	2.32						
			CFM	1600		1800		2100		2400		2700						
			APD	0.33	LAT	0.39	LAT	0.52	LAT	0.66	LAT	0.79	LAT	WPD	20	20	3.5	14 1/2
20X20	GPM	5	BTU	105169	125	110911	121	118368	116	124739	112	130264	109	0.54				
		10		119538	133	127376	130	137797	125	148984	122	157540	118	1.91				
		12		122692	135	131083	132	142328	127	152253	123	161101	120	2.65				
			CFM	1800		2100		2400		2700		3100			22	22	3.5	17 1/2
			APD	0.29	LAT	0.37	LAT	0.47	LAT	0.58	LAT	0.74	LAT	WPD				
22X22	GPM	5	BTU	117875	125	125988	120	132898	116	138871	112	145700	108	0.48				
		10		135603	134	147128	129	159349	125	168801	122	179987	118	1.71				
		12		139512	136	151958	131	162962	127	172785	123	188023	120	2.38				
			CEM	1000		2000		2400		2000		2200						
			CFM	1800	LAT	2000	LAT	2400	1 AT	2800	LAT	3200	1 AT	WDD	22	20	2.5	17.1/2
			APD	0.22	LAT	0.26	LAT	0.35	LAT	0.46	LAT	0.59	LAT	WPD	22	30	3.5	17 1/2
22x30	GPM	5	BTU	142355	137	149214	134	160852	127	170595	118	173368	117	0.44				
		10		163968	139	173806	137	193529	133	209022	129	222563	126	1.54				
		12		168634	141	179245	138	198038	136	216801	131	231645	132	2.16				
			CFM	1800		2000		2400		2800		3250						
			APD	0.22	LAT	0.26	LAT	0.35	LAT	0.46	LAT	0.59	LAT	WPD	22	25	3.5	17 1/2
22x25	GPM	5	BTU	142355											22	23	3.5	17 1/2
22,25	GPINI		ыо		137	149214	134	160852	127	170595	118	173368	117	0.44				
		10		163968	139	173806	137	193529	133	209022	129	222563	126	1.54				
		12		168634	141	179245	138	198038	136	216801	131	231645	132	2.16				
			CFM	1800		2000		2400		2800		3200						
			APD	0.22	LAT	0.26	LAT	0.35	LAT	0.46	LAT	0.59	LAT	WPD	24	24	3.5	18 1/2
24x24	GPM	5	BTU	124219	128	130204	124	140360	118	148681	114	155644	110	0.44			3.3	.5 1/2
21824	JI W	10	510	143078	138	151663	134	168874	129	182393	124	194208	120	1.54				
		12		147150	140	156409	136	172808	131	189181	127	202134	123	2.16				

## Dragon Fin-Enhanced Sidearm 304 INLESS STEEL



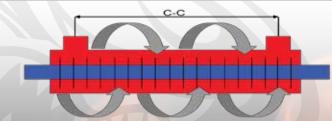
High Quality Fin-Enhanced Sidearm Heat Exchangers are designed with the natural thermo-siphon concept on the domestic hot water side. Made of 304 stainless steel, fin-enhanced sidearms increase heat transfer efficiency significantly by using a finned tube internally, which has a surface area five to eight times bigger than bare tube and produces greater turbulence on the system side.

Traditional sidearms are made of two bare copper tubes. Thus, its capacity is decided by the length of sidearm-tubes and the heat transfer efficiency is very low. With fin-enhanced sidearms you not only need a shorter unit, but get bigger capacity and faster heating.

Due to the compact size and lightweight of the sidearm heat exchanger, these units are ideal for residential heating and plumbing applications. Also called domestic water heat exchangers, they are typically used to heat domestic water using either a conventional boiler, outdoor wood furnace or a solar hot water system. Typically, the domestic water is circulated by means of the thermo siphon principle which saves on the cost of a pump and the associated electrical costs. In cases where faster heat recovery is required. The domestic hot water should be circulated by means of a pump. Pump circulation will typically provide a heat recovery 3 to 4 times greater than thermo siphoning.

Single Wall Sidearms										
SKU	SKU BTU Length Boiler Port (B)		Domestic Port (A)	Construction	C-C Distance System Side					
SA95	9500	34"	1" MNPT	3/4" MNPT	SS304	28.34"				
SA115	11500	38"	1" MNPT	3/4" MNPT	SS304	33.66				

SA95 \$159.99 SA115 \$169.99





Mixing Valves or Scorch Guides are recomended!

SAkit Sidearm Kit - For domestic hot water systems. Kit includes

SAkit Sidearm Kit - For domestic hot water systems. Kit includes mixing valve (MV34S or MV34SB), sidearm and a diagram for easy installation.

Refer to Page 12 for more information about mixing valves

SKU	Price
SA34Kit	\$257.98
SA38Kit	\$267.98
SA34kitSB	\$259.98
SA38kitSB	\$269.98

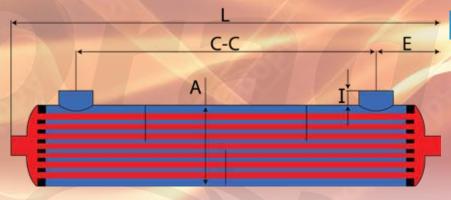
## Free Shipping on all orders over \$199.99

Check out our NEW Site!
DragonbreathHX.com



# **Dragon** Tube & Shell Heat Exchangers

**Tube & Shell Heat Exchangers** are suited for higher-pressure applications. As its name implies, this type of heat exchanger consists of a shell (a large pressure vessel) with a bundle of tubes inside it. One fluid runs through the tubes, and another fluid flows around the tubes (through the shell) to transfer heat between the two fluids. Ideal for many residential and industrial applications. The complete stainless steel welded structure ensures product strength and high quality performance.



#### **Applications:**

- Pools & Spas
- Hot Tubs
- Beer Brewing Coolers
- Transmission and Engine Coolers
- Oil Coolers
- · Boiler Sample Cooler
- Waste Water Heat Recovery
- 316L Stainless Steel

SKU	BTU /hr	L (inch)	D (inch)	C-C (inch)	F (inch)	H (inch)	Tube Side (in)	Shell Side (in)
SS100	100,000	16.9	3.5	8.7	4.1	0.71	3/4	1.5
SS170	170,000	18.7	3.5	10.7	4.0	0.71	3/4"	1.5
SS260	260,000	25.8	3.5	17.7	4.0	0.71	1.0	1.5
SS370	370,000	29.7	3.5	21.7	4.0	0.71	1.0	1.5
SS640	650,000	38.0	4.3	29.2	4.4	0.75	1.5	2.0
SS1200	1,200,000	52.0	4.3	43.2	4.4	0.75	2.0	2.0

Rating	<b>Design Pressure</b>	Design Temperature	Material
Shell Side	150 psi	230° F	SS316L
Tube Side	150 psi	250° F	SS316L







Pool & Spa Kits available to make for an easy installation. Diagrams included to guide you. (PSkit) — Refer to Page 19







Check out our NEW Site!
DragonbreathHX.com



# Cupro Nickel Heat Exchangers

**Cupro-Nickel CN-P** heat exchangers are suitable for applications ranging up to 1 million btu/hr. These units are easy to maintain as both the end covers and tube stack can be removed easily for cleaning. CN Series pool heat exchangers are the only swimming pool units with this feature.

SKU	Inlet	Outlet	Price
CN200-CPVC	1" NPT	1 1/2" NPT	\$859.99
CN400-CPVC	1 1/4" NPT	2" NPT	\$1289.99
CN650	1 1/2" NPT	2 1/2" NPT	\$1765.99

<sup>\*\*</sup>CPVC = Comes with CPVC Unions

# Titanium Heat Exchangers

**The Bowman CN-Ti series** heat exchangers are designed for salt water pool applications. Tube stack is made of Titanium. The CN-Ti series pool heat exchangers is available in capacities ranging from 135,000 BTU/hr to 680,000 BTU/hr.

SKU	Inlet	Outlet	Price
Ti135-CPVC	1" NPT	1 1/2" NPT	\$796.99
Ti200-CPVC	1" NPT	1 1/2" NPT	\$1076.99
Ti400-CPVC	1 1/4" NPT	2" NPT	\$1452.99
Ti650	1 1/2" NPT	2 1/2" NPT	\$2726.99

\*\*CPVC = Comes with CPVC Unions

#### **CN-P & CN-Ti Applications**

- · Pools, spas and hot tubs
- · Solar heated pools
- · Domestic hot water
- · Salt water applications
- · Waste water heat recovery

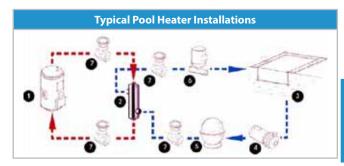


Youtube.com/AltHeatSupply

#### **CN-P & CN-Ti Applications**

- · Removable tube bundle heat transfer surface
- · Shell made of cast iron
- Tube side operating pressure 87 PSIG
- Shell side operating pressure to 87 PSIG
- Operating temperature should not exceed 210° F
- · Perfect solution for salt water swimming pools
- Manufactured with cupro-nickel tubes to ensure corrosion resistance to salt water and longer equipment life
- Nominal heating capacities up to 1,000,000 btu/hr. for pool applications
- Eliminates the need for external bypass as the whole pool flow goes through the heat exchanger
- Due to the high flow rates through the heat exchangers, they are inherently self-cleaning





#### **Salt Water Swimming Pool Heaters**

Due to the increasing popularity of salt water pools we have developed the CN-P & CN-Ti Series heat exchanger which can withstand the corrosive effects of salt water. The CN Series heat exchangers are constructed of corrosion resistant cupro-nickel tubes and bronze end covers and are therefore suitable for salt water pools and spas.

**Extremely Low Pressure Drops!** 

Non	ninal Capa	city	Boiler	Water	Pool Water		
SKU	SKU kW Btu/hr		Flow	Pressure Drop	Pool Capacity (US Gal)	Flow	Pressure Drop
Ti135-CPVC	56.2	135,000	9	1.94	Up to 14,000	27	1.00
CN-P & Ti 200	58.4	200,000	9	1.94	Up to 19,000	30	1.00
CN-P & Ti 400	117	400,000	20	1.14	Up to 30,000	78	2.25
CN-P & Ti 650	P & Ti 650 190 650,000		25	0.75	Up to 50,000	100	2.13

## NEW Dragon Breath Mini Space Heaters



**Dragon Breath Mini Space Heaters** Instead of installing a new complete heating system, simply mount a Dragon Breath Mini Air Handler just about anywhere. They are used to heat bonus rooms, small houses with electric heat, basements, garages, workshops, greenhouses, warehouses and anything you can think of. This is a hot air furnace that is small and powerful enough to heat homes that need up to 70,000 BTU's without the price and installation cost of a full size hot air furnace. The units come with a blower and water to air heat exchanger. These are commercial grade units and the blowers are very quiet with high air volumes. Heaters come assembled and ready to work.



# Behind wall Finished Room

Example of Mini Dragon Breath Heater installed in closet.

The options are endless!

Free Shipping!

#### **Dragon Breath Mini Space Heaters Specifications**

sku	Depth (A)	Height (I	B) Width	ı (C)	Plenum opening	H= Anchor width	Water Lines =ID	Shipping weight=Lbs	Price
DBAH70	19.5"	16"	12.	5	12" x 12"	NA	1″	60	\$699.99
SKU	BTU / HR EWT-200°	BTU / HR EWT-180°	CFM- Amp	s GPM	APD	Speed Controllable	Approximate FOH-WPD	Approxima WTD at 18	I HP
DBAH70	68765 655		1001-0.5	12	.85	Yes	2.72	160°	1/6
SKU	Voltage	Hz	Full Amps	Phase	RPM	Mountable		Allen	
DBAH70	115	60	3.7	1	1011	Multi-position	n	A PETER	

Install in a crawl space, closet or bonus room, house with electric heat, finished basement, a cold part of the house to make comfortable again, double wide trailers, work areas that need to be quiet and discrete, and much more! They can be installed under a motor home, in a basement and you can branch off duct work as many times as you please. All duct work parts can be found at any home improvement store. You can see in the pictures to the right how easily they can be installed; the only thing holding you back is your imagination. Louvers Sold Separately

# Works With Ductwork!





## Install it almost anywhere!



# New Website! DragonBreathHX.com



EAT	Entering Air Temperature 65° F					
EWT	Entering Water Temperature 180° F					
LAT	Leaving Air Temperature					
APD	Air Pressure Drop: Water Column					
CFM	Cubic Feet per Minute					
WPD	Water Pressure Drop:ft for water (1 psi=2.31 ft)					
GPM	Gallons per Minute					
FPI	Fins per Inch					

**Dragon Breath Space Heaters** mount just about anywhere. They are used to heat basements, garages, workshops, greenhouses, warehouses and anything you can think of. These units come with a high quality fan, water to air exchanger and adjustable louvered grills. **The fans are speed controllable** (SC36) and are commercial grade units. Stamped fan blades quietly exhaust high air volumes. All parts used are high quality. Units come assembled!

## New Options



In Line Thermostat TH002 Page 11

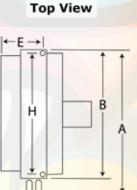


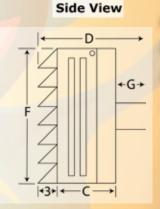
Hydro Coil Kit for an easy installation HCkitsb Page 18



Variable Speed Controller SC36 Page 11









#### **Unit Heater Dimensions**

All Measurements are in inches

SKU	A	В	С	D	E	F	G	н	WATER LINES= ID	SHIPPING WEIGHT (LBS)	Price
DB70	22	16-1/2	7-1 <mark>/4</mark>	17-1/2	7-1/2	16-3/8	3-1/2	NA	1"	42	\$599.99
DB100	26	20-1/2	8	17-1/2	7-1/2	20-3/8	3	NA	1"	62	\$699.99
DB150	28	22-1/2	8-1/4	18-1/2	7-1/2	22-3/8	5	NA	1″	75	\$899.99
DB200	30	24-1/2	8-1/4	19	7-1/2	24-3/8	6-1/2	NA	1″	100	\$999.99

## **Unit Heater Specifications**

Internal specifications using water. Entering air temp = 65°

SKU	BTU / HR EWT-200°	BTU / HR EWT-180°	CFM- Amps	GРM	APD	Speed Controllable	Approximate FOH-WPD	Approximate WTD at 180°	НР
DB70	69,892	55,506	845-1.6	12	.11	SC36	2.75	170°	1/30
DB100	105,235	89,543	1107-1.6	14	.10	SC36	2.51	167°	1/20
DB150	161,163	137,567	2500-3.9	14	.20	SC36	2.41	159°	1/4
DB200	210,671	183,789	3440-3.0	15	.25	SC36	2.71	157°	1/4

Great for heating garages, greenhouses, workshops & basements

# Copper Fitting

Item	Description	SKU	Size	Price	Bag Price (per unit)
		SW912	1/2"	\$0.89	\$0.85 - 50 per bag
	90° Sweat Elbow	SW934	3/4"	\$1.89	\$1.79- 25 per bag
		SW901	1"	\$4.29	\$4.09 - 10 per bag
		SWM0134	1" x 3/4"	\$11.59	\$11.29- 10 per bag
	MPT x Sweat	SWM34	3/4"	\$2.99	\$2.69- 25 per bag
		SWM01	1"	\$7.49	\$7.09- 20 per bag
		SWF3401	3/4" x 1"	\$13.99	\$13.39- 25 per bag
	Sweat x FPT	SWF01	1"	\$8.29	\$7.99- 10 per bag
		SWC12	1/2"	\$0.79	\$0.69- 50 per bag
	Sweat Coupler with Stop	SWC34	3/4"	\$1.39	\$1.19- 25 per bag
		SWC01	1"	\$2.49	\$2.29- 25 per bag
		SW412	1/2"	\$1.59	\$1.39- 50 per bag
	Sweat 45°	SW434	3/4"	\$2.79	\$2.49- 25 per bag
		SW401	1"	\$6.49	\$6.19- 25 per bag
		SWS912	1/2"	\$1.29	\$1.19- 50 per bag
	Sweat Street 90°	SWS934	3/4"	\$2.49	\$2.19- 25 per bag
		SWS901	1"	\$7.29	\$6.99- 10 per bag
		SWT12	1/2″	\$1.69	\$1.49- 25 per bag
	Sweat Tee	SWT34	3/4"	\$3.79	\$3.49- 25 per bag
		SWT01	1″	\$9.99	\$9.19- 10 per bag
The state of	Sweat Reducer	SWR3412	3/4" x 1/2"	\$2.29	\$1.99- 25 per bag
	Coupler	SWR0134	1" x 3/4"	\$4.29	\$3.99- 10 per bag
		PMS12	1/2"	\$1.89	\$1.10- 25 per bag
1	Down Sweet	PMS34	3/4"	\$2.99	\$2.69- 25 per bag
	Pex x Sweat	PMS01	1″	\$4.99	\$4.49- 10 per bag
		PMS1234	1/2"x 3/4"	\$3.29	\$3.09- 25 per bag
	Pipe Talon (hangs	PTT12	1"	\$0.50	\$0.45 - 50 per bag
	copper, pex & pvc to ceilings or walls	PTT34	3/4"	\$0.50	\$0.45 - 50 per bag
	easily)	PTT01	1/2″	\$0.65sw912	\$0.60 - 50 per bag

Part #TFW12 Only \$ .42 ea.

**Helpful Tip!**Don't use galvanized fittings in a boiler application. ALL chemicals that protect your boiler eat the galvanized coating.

# Brass Fitting



ltem	Description	SKU	Size	Price	5 or More
3	EDT 0 11 :	BRU34	3/4"	\$16.89	\$16.26
	FPT Brass Union	BRU01	1″	\$20.89	\$19.63
	Brass Reducer	BRB0112	1"x 1/2"	\$6.29	\$5.47
	Bushing	BRB0134	1"x 3/4"	\$5.79	\$4.90
	Brass Street 90°	BRS934	3/4"	\$9.54	\$8.99
	Brass Street 90°	BRS901	1″	\$14.99	\$13.99
	D 00° FIL FDT	BR934	3/4"	\$8.99	\$8.49
	Brass 90° Elbow FPT	BR901	1″	\$13.79	\$12.75
AND DOOR	2// D	BRN3402	3/4"	\$4.29	\$3.99
	2" Brass Nipple	BRN0102	1″	\$4.79	\$4.29
	4" Brass Nipple	BRN3404	3/4"	\$8.89	\$8.29
Name of Street	Duran Tra EDT	BRT34	3/4"	\$11.29	\$10.33
7	Brass Tee FPT	BRT01	1″	\$18.99	\$17.95
	Dua 45% EDT	BR434	3/4"	\$9.29	\$8.79
	Brass 45° FPT	BR401	1″	\$16.92	\$15.19
***	Drago Counting FDT	BRC34	3/4"	\$6.97	\$5.66
	Brass Coupling FPT	BRC01	1″	\$11.99	\$10.99
		BV12	1/2″	\$6.99	\$6.29
	Ball Valve FPT	BV34	3/4"	\$10.99	\$9.99
	Dail valve 11 1	BV01	1″	\$16.99	\$15.99
***		BV114	1 1/4"	\$24.99	\$23.99
WAR.	Boiler Drain	BD12	1/2"	\$7.99	\$7.49
T.	Bollet Dialit	BD34	3/4"	\$8.99	\$8.49
	Swing Check Valve	CVS34	3/4"	\$11.99	\$10.99
(Tentile)	Swilly Check valve	CVS01	1"	\$17.99	\$16.99
		CV12	1/2"	\$10.99	\$9.99
	In-Line Spring Check Valve	CV34	3/4"	\$15.99	\$15.29
		CV01	1"	\$20.99	\$19.99

## Black Malleable Fittings

ltem	Description	SKU	Size	Price	5 or More
		BKU01	1"	\$10.99	\$10.49
	Malleable Iron Union	BKU114	1 1/4"	\$12.99	\$12.29
		BKB0112	1"x 1/2"	\$2.96	\$2.79
	Malleable Iron	BKB11412	1 1/4" x 1/2"	\$2.96	\$2.79
	Bushing	BKB11434	1 1/4" x 3/4"	\$2.96	\$2.69
•		BKB11401	1 1/4" x 1"	\$2.49	\$2.29
		BK912	1/2	\$1.49	\$1.39
19%	Malleable Iron 90°	BK934	3/4"	\$1.99	\$1.89
-	Straight Elbow	BK901	1"	\$2.89	\$2.69
		BK9114	1 1/4"	\$4.19	\$3.99
		BKT12	1/2"	\$1.89	\$1.69
	Malleable Iron	BKT34	3/4"	\$2.79	\$2.49
1730	Straight Tee	BKT01	1"	\$3.89	\$3.69
		BKT114	1 1/4"	\$6.19	\$5.99
		BKT0112	1"x 1"x 1/2"	\$4.99	\$4.59
	Malleable Iron Reducing Tee	BKT0134	1"x 1"x 3/4"	\$4.99	\$4.69
		BKT11412	1 1/4" x 1 1/4" x 1/2"	\$6.69	\$6.29
		BKP12	1/2"	\$0.99	\$0.89
	Malleable Iron Plug	BKP34	3/4"	\$1.19	\$1.09
	Malleable Iron Flug	BKP01	1"	\$1.59	\$1.49
1988		BKP114	1 1/4"	\$1.99	\$1.69
	Malleable Iron 90°	BKS901	1"	\$3.79	\$3.49
	Street Elbow	BKS9114	1 1/4"	\$4.19	\$3.99
		BKC0134	1" x 3/4"	\$2.49	\$2.29
	Malleable Iron	BKC11412	1 1/4""x1/2"	\$3.89	\$3.59
	Reducing Coupling	BKC11434	1 1/4 x 3/4"	\$3.89	\$3.59
		BKC11401	1 1/4"x1"	\$3.29	\$2.99
OF TEN	Malleable Iron Coupling	BKC114	1 1/4"	\$3.89	\$3.69

# Remember Teflon Tape!

Part #TFW12 Only \$ .42 ea.



## **Helpful Tip!**

Don't use galvanized fittings in a boiler application. ALL chemicals that protect your boiler eat the galvanized coating.

# Black Nipples



ltem	Description	Part #	Price
	1/2" x Close Black Nipple	BKN12C	\$0.69
	1/2" x 2" Black Nipple	BKN1202	\$0.99
	1/2" x 3" Black Nipple	BKN1203	\$1.19
	1/2" x 4" Black Nipple	BKN1204	\$1.29
	1/2" x 6" Black Nipple	BKN1206	\$1.19
	1/2" x 8" Black Nipple	BKN1208	\$2.99
	1/2" x 10" Black Nipple	BKN1210	\$3.89
	1/2" x 12" Black Nipple	BKN1212	\$4.29
	1"x Close Black Nipple	BKN01C	\$1.19
	1" x 2" Black Nipple	BKN0102	\$1.49
	1" x 3" Black Nipple	BKN0103	\$1.99
	1" x 4" Black Nipple	BKN0104	\$1.39
	1" x 6" Black Nipple	BKN0106	\$3.89
Millian	1" x 8" Black Nipple	BKN0108	\$5.79
	1'x 10" Black Nipple	BKN0110	\$6.79
	1"x 12" Black Nipple	BKN0112	\$8.09
	3/4" x Close Black Nipple	BKN34C	\$0.89
	3/4" x 2" Black Nipple	BKN3402	\$0.99
	3/4" x 3" Black Nipple	BKN3403	\$1.39
	3/4" x 4" Black Nipple	BKN3404	\$1.89
	3/4" x 6" Black Nipple	BKN3406	\$2.99
	3/4" x 8" Black Nipple	BKN3408	\$3.69
	3/4" x 10" Black Nipple	BKN3410	\$4.49
	3/4" x 12" Black Nipple	BKN3412	\$5.69
	1 1/4" x Close Black Nipple	BKN114C	\$1.89
	1 1/4" x 2" Black Nipple	BKN11402	\$1.99
	1 1/4" x 3" Black Nipple	BKN11403	\$3.19
	1 1/4" x 4" Black Nipple	BKN11404	\$3.89
	1 1/4" x 6" Black Nipple	BKN11406	\$5.19
	1 1/4" x 8" Black Nipple	BKN11408	\$7.19
	1 1/4" x 10" Black Nipple	BKN11410	\$8.09
	1 1/4" x 12" Black Nipple	BKN11412	\$.29

## SharkBite Fittings & Tools



					Plumbina Solutions
Item	Description	SKU	Size	Price	Bag Price (per unit)
		SB912	1/2″	\$7.59	\$7.39 - 12 per bag
	SharkBite® 90°	SB934	3/4"	\$9.99	\$9.59 - 12 per bag
	Elbow	SB901	1"	\$17.99	\$17.49 - 6 per bag
		SBM12	1/2" x 1/2"	\$6.89	\$6.44- 12 per bag
		SBM34	3/4" x 3/4"	\$7.69	\$7.19- 12 per bag
	SharkBite® x MPT	SBM01	1" x 1"	\$13.55	\$13.05- 6 per bag
		SBM0134	1" X 3/4"	\$12.75	\$12.25- 6 per bag
		SBM1234	1/2" x 3/4"	\$7.59	\$7.29- 6 per bag
		SBF12	1/2" x 1/2"	\$7.55	\$7.05- 12 per bag
	SharkBite® x FPT	SBF34	3/4" x 3/4"	\$8.65	\$7.85- 12 per bag
		SBF01	1" x 1"	\$12.69	\$11.99- 6 per bag
		SBC12	1/2" x 1/2"	\$7.59	\$7.19- 12 per bag
	SharkBite® Coupler	SBC34	3/4" x 3/4"	\$8.25	\$7.99- 6 per bag
		SBC01	1" x 1"	\$16.99	\$15.99- 6 per bag
	SharkBite® Reducing	SBC3412	3/4" x 1/2"	\$8.99	\$8.49- 12 per bag
The second secon	Coupling	SBC0134	1" x 3/4"	\$15.99	\$14.99- 6 per bag
-		SBS12	1/2"	\$7.75	\$6.99- 12 per bag
	SharkBite® Stop	SBS34	3/4"	\$7.75	\$6.99- 6 per bag
	·	SBS01	1"	\$14.55	\$13.99- 6 per bag
		SBT12	1/2"	\$10.75	\$10.45- 12 per bag
	SharkBite® Tee	SBT34	3/4″	\$12.35	\$11.99- 6 per bag
		SBT01	1"	\$21.99	\$21.49 - 3 per bag
		SBT343412	3/4" x 3/4" x 1/2"	\$11.99	\$11.39- 6 per bag
	SharkBite® Reducing	SBT341234	3/4" x 1/2" 3/4"	\$12.59	\$11.99- 6 per bag
	Tee	SBT341212	3/4"x1/2"x1/2"	\$13.99	\$12.99- 6 per bag
		SBT010134	1"x1"x3/4"	\$22.99	\$22.59 - 3 per bag
		SBCV12	1/2"	\$17.99	\$17.49 - 3 per bag
	SharkBite® Check	SBCV34	3/4"	\$19.99	\$19.49 - 3 per bag
	Valve	SBCV01	1"	\$45.99	\$45.49 - 3 per bag
-3000		SBBV12	1/2″	\$17.25	\$16.99- 12 per bag
	SharkBite® Ball Valve	SBBV34	3/4"	\$22.99	\$21.99- 12 per bag
6)		SBBV01	1"	\$29.99	\$28.99- 6 per bag
		SBPG12	1/2"	\$27.99	N/A
	SharkBite® Pressure	SBPG34	3/4"	\$29.99	N/A
	Gauge	SBPG01	1"	\$49.99	N/A
		SBTG12	1/2"	\$59.99	N/A
	SharkBite® Temp	SBTG34	3/4"	\$55.99	N/A
	Gauge	SBTG01	1"	\$72.99	N/A
		SBDC12	1/2"	\$1.99	\$1.79 - 24 per bag
	SharkBite®	SBDC12	3/4"	\$1.99	\$1.79 - 24 per bag
	Disconnect Clip	SBDC01	1"	\$1.99	\$1.79- 12 per bag
		SBDC123	1/2", 3/4" & 1"	\$5.61	N/A
		SBDT12	1/2"	\$8.75	\$8.35 - 3 per bag
	SharkBite®	SBDT34	3/4"	\$8.75	\$8.35 - 3 per bag
1	Disconnect Tongs	SBDT01	1"	\$8.75	\$8.35 - 3 per bag
1	2.5comicce longs	SBDT01		\$26.95	N/A
-		123 ושטכ	1/2", 3/4" & 1"	\$20.73	IV/A

## **Unbeatable Quality!**

# Pex Fittings & Tools



ltem	Description	SKU	Size	Price	Bulk Price (per unit)
		PM1234	1/2" x 3/4"	\$3.99	\$2.93 - 25 per bag
		PM1212	1/2" x 1/2"	\$2.89	\$2.00 - 25 per bag
	D. MADT	PM3412	3/4" x 1/2"	\$3.99	\$2.33- 25 per bag
Carried Street	Pex x MPT	PM3434	3/4" x 3/4"	\$3.99	\$2.87- 25 per bag
		PM0134	1" x 3/4"	\$6.99	\$4.99 - 10 per bag
		PM0101	1"x 1"	\$6.99	\$4.99 - 10 per bag
23		PC12	1/2″	\$1.79	\$1.49- 25 per bag
	Pex Coupler	PC34	3/4"	\$2.19	\$1.58- 25 per bag
		PC01	1"	\$3.99	\$3.92 - 10 per bag
		P9M1212	1/2" x 1/2"mpt	\$1.39	\$1.29- 25 per bag
	Pex 90° Elbow	P912	1/2"	\$1.97	\$1.79- 25 per bag
TO HE	TEX 70 LIBOW	P934	3/4"	\$2.89	\$2.11- 25 per bag
Section of the section of		P901	1"	\$4.89	\$4.59 - 10 per bag
		PT12	1/2″	\$2.89	\$1.63- 25 per bag
	Pex Tee	PT343412	3/4" x 1/2"	\$3.99	\$3.16- 25 per bag
STREET, SQUARE,	T CX TCC	PT34	3/4"	\$3.99	\$2.96- 25 per bag
		PT01	1″	\$6.89	\$4.99 - 10 per bag
		PMS12	1/2″	\$1.89	\$1.10- 25 per bag
A Part	Pex x Male Sweat	PMS1234	1/2" x 3/4"	\$3.29	\$3.09- 25 per bag
	T CX X Iviale Sweat	PMS34	3/4"	\$2.99	\$2.69- 25 per bag
		PMS01	1"	\$4.99	\$4.49 - 10 per bag
		PF12	1/2″	\$3.29	\$2.07- 25 per bag
	Pex x Female FPT	PF34	3/4"	\$4.99	\$3.42- 25 per bag
		PF01	1″	\$7.69	\$5.99 - 10 per bag
The state of the s		PP12	1/2″	\$0.99	\$0.69- 25 per bag
	Pex Plug	PP34	3/4"	\$1.39	\$1.12- 25 per bag
		PP01	1"	\$2.59	\$1.65 -10 per bag
200		PBV12	1/2"	\$8.99	\$5.87 - 12 per box
	Pex x Pex Ball Valve	PBV34	3/4"	\$12.99	\$8.94 - 12 per box
		PBV01	1″	\$19.99	\$14.56- 6 per box
_		PR12	1/2″	\$0.39	\$0.30 - 25 per bag
000	Pex Ring	PR34	3/4"	\$0.45	\$0.40 - 25 per bag
		PR01	1"	\$0.60	\$0.55 - 25 per bag
	Chairdana Ci. 1 C :	SCR12	1/2"	\$0.45	\$0.40 - 100 per bag
	Stainless Steel Crimp Rings	SCR34	3/4"	\$0.69	\$0.64 - 50 per bag
4	193	SCR01	1"	\$0.69	\$0.64 - 50 per bag
	2 7 1 4	PTT12	1/2″	\$0.50	\$0.45 - 50 per bag
	Pex Talon (hangs pex to ceiling or wall easily)	PTT34	3/4"	\$0.50	\$0.45 - 50 per bag
	centing of wan easily)	PTT01	1"	\$0.65	\$0.60 - 50 per bag
1.	Pex Waterline Kwik Cutter	PKK01	All	\$13.99	N/A

## **Best Prices Around!**



## **Underground Insulation**





- 5.5" O.D. Increased insulation protection
- · Joint-free installation & end caps included
- 50% more insulation than 4" (competition)
- · High flexibility

- · 2 Line or 4 Line available
- · Easy to install
- Density 1.5 lb
- · Made in USA

R-Value 8.5

SKU	Description (Non-Barrier A-Quality Pex)	Price
ValuFlex NB	2 - 1" non - barrier pex	\$11.99 per ft. Minimum 50 Feet
ValuFlex NB0134	2 - 1" & 2 - 3/4" non - barrier pex	\$15.80 per ft. Minimum 50 Feet

SKU	Description (Barrier A-Quality Pex)	Price
ValuFlex B	2 - 1" barrier pex	\$12.95 per ft. Minimum 50 Feet
ValuFlex B 0134	2 - 1" & 2 - 3/4" barrier pex	\$15.99 per ft. Minimum 50 Feet

## Flexsul-Seal

Insulated pipe just got flexible.

## 5.5" Heavy Duty Corrugated Pipe!

## **Flexsul-Seal Advantages**

- · High flexibility, lightweight Easier handling
- 5.5" O.D. Increased insulation protection
- 50% more insulation area than 4" (competition)
- · Elastomeric Insulation, closed cell
- Easy to install
- Density 1.5 lb
- Thermal dead air pocket resulting in R-Value 11
- · Maximum Power -220 Degrees F
- Made in USA

R-Value 11









SKU	Description (Non-Barrier A-Quality Pex)	Price
Flex NB01-2	2 - 1" non- barrier pex	\$16.99 per ft. Minimum 50 Feet
Flex NB01-2, 34-2	2 - 1" & 2 - 3/4" non- barrier pex	\$19.99 per ft. Minimum 50 Feet
Flex NB01-4	4 - 1" non- barrier pex	\$21.99 per ft. Minimum 50 Feet

SKU	Description (Barrier A-Quality Pex)	Price
Flex B01-2	2 - 1" barrier pex	\$17.99 per ft. Minimum 50 Feet
Flex B01-2,34-2	2 - 1" & 2 - 3/4" barrier pex	\$21.99 per ft. Minimum 50 Feet

## All Insulated Pipe is Sold in 5' Increments

## **Special Orders Upon Request**



**Why insulated pipe?** It's a great way to increase the efficiency of your outdoor furnace, while keeping the wood stove a good distance away from the house or any other building to be heated. This eliminates the wood mess sometimes associated with indoor wood burning units and the safety concerns associated with wood burning units are also removed. This makes this type of heat well received by insurance companies.

On a typical 80' - 100' run between furnace & house the water temperature can be within 3° of furnace temp as it enters the heat exchanger at the house. This translates into less wood to be burned and less time spent loading the furnace. An already efficient heat source is made even more economical. Heat loss between the furnace and the heat exchangers at the areas to be heated has been virtually eliminated.

## Pex Tubing



We receive a lot of phone calls asking why "some pex is less expensive" and "what is Class A pex?" We can't give that much information even if we had several pages to work with. Bottom line is... you get what you pay for! And with the high temperatures we are working with this is not the place to try to save a couple dollars.

#### SharkBite Pex is excellent and will last a lifetime!

SharkBite® Pex tubing is a cross-linked polyethylene tubing for a wide range of residential and commercial plumbing applications. SharkBite® Pex tubing manufactured without an oxygen barrier is used for potable water systems. SharkBite® Pex tubing manufactured with an oxygen barrier is used for radiant flooring and hydronic heating applications. It is manufactured with an oxygen diffusion barrier applied to the exterior. It limits oxygen permeation through the tubing wall in hydronic heating applications and prevents corrosion of ferrous metal parts in the heating system.



### **SharkBite® (Non-Barrier)**

\*Oversized- additional shipping charges apply.

Size	Rolls of Pex Line	SKU	Price
	Pex Roll of 100 ft. (Red or Blue)	P01100	\$109.99
1"	Pex Roll of 300 ft. (Red or Blue)*	P01300	\$299.99
	Pex Roll of 500 ft. (Red or Blue)*	P01500	\$499.99
3/4″	Pex Roll of 100 ft. (Red or Blue)	P34100	\$64.99
	Pex Roll of 300 ft. (Red or Blue)	P34300	\$189.99
	Pex Roll of 500 ft. (Red or Blue)	P34500	\$309.99
1/2″	Pex Roll of 100 ft. (Red or Blue)	P12100	\$44.99
	Pex Roll of 300 ft. (Red or Blue)	P12300	\$126.99
	Pex Roll of 500 ft. (Red or Blue)	P12500	\$189.99

### **SharkBite®** (Barrier)

\*Oversized- additional shipping charges apply.

Size	Rolls of Pex Line	SKU	Price
	Pex Roll of 100 ft.	PB01100	\$149.99
1"	Pex Roll of 300 ft.*	PB01300	\$399.99
	Pex Roll of 500 ft.*	PB01500	\$635.99
3/4″	Pex Roll of 100 ft.	PB34100	\$79.99
	Pex Roll of 300 ft.	PB34300	\$228.99
	Pex Roll of 500 ft.	PB34500	\$375.99
1/2"	Pex Roll of 100 ft.	PB12100	\$49.99
	Pex Roll of 300 ft.	PB12300	\$144.99
	Pex Roll of 500 ft.	PB12500	\$229.99

\* **Note:** Shipping and handling costs are based on dimensional size of product and weight. Pex pipe in large quantities *does not qualify for free shipping*. Please call us for shipping costs. Call for possible discounts. (2,500 feet or more)

Pex crimp fittings and SharkBite® fittings work great with this pex pipe.

Thank You!

#### **Tubing printed with SharkBite® imprint pattern:**

- Allows for easy assembly with SharkBite® Push Fittings™ without the use of elaborate and costly tools.
- Strong, flexible, resilient tubing that provides superior temperature performance.
- Wide selection of fittings and tubing to ensure a trouble-free rough-in.
- Listed to NSF 14 and CSA B137.5 for use in potable water systems.
- · Inspector friendly, peace of mind!
- Manufactured and tested to meet or exceed the requirements of the
- ASTM F-876, ASTM F-877, ASTM F 2023 and CSA B137.5.
- Flexible installation options. Specify and install with confidence!
- Variety of connections options, can be connected with SharkBite® PushFittings,™ or Cash Acme barbed fittings.

## Class A Chimneys & Accessories

\*\* Due to the delicate nature of the chimneys:

#### Free Shipping Does Not Apply

There is a \$35.00 per chimney surcharge, plus shipping. If ordering 4 or more, please call us for a Freight Quote.





SKU	Chimney Extensions	Price
CX648cs	Chimney 6" X 48"	\$209.95
CX848cs	Chimney 8" X 48" \$24	
CX124cs	Chimney 10" x 24"	\$319.95
CX148cs	Chimney 10" x 48"	\$514.95
	Chimney Caps	
CX601cs	Chimney 6" Deluxe Cap	\$98.95
CX801cs	Chimney 8" Deluxe Cap	\$119.95

## **SUPERPRO**



SKU	SuperPro Chimney Extensions	Price
CXSP624	SuperPro Chimney 6" x 24"	\$139.95
CXSP648	SuperPro Chimney 6" x 48"	\$229.95
CXSP824	SuperPro Chimney 8" x 24"	\$189.95
CXSP848	SuperPro Chimney 8" x 48"	\$329.95
SKU	Chimney Coupler	Price
CXSP603	Super Pro Chimney Coupler 6"	\$59.95
CXSP803	Super Pro Chimney Coupler 8"	\$74.95
	Chimney Caps	
CXSP602	SuperPro Chimney 6" Deluxe Cap	\$92.95
CXSP802	SuperPro Chimney 8" Deluxe Cap	\$139.95



SKU	Guy Wire Bands	Price
GW601	Guy Wire Band 6" (works with both chimneys)	\$29.95
GW801	Guy Wire Band 8" (works with both chimneys)	\$39.95

## Battery Backup



You will need to purchase - separately - a 12 volt, deep cycle marine battery up to 200 amps. Group 27 (minimum 90amps) This can be found at most automotive parts stores.







822 PS

MADE IN THE **USA** 

SPECIFICATIONS	PUMP SENTRY MODELS		
SPECIFICATIONS	443PS	822 PS	1622 PS
Normal Mode Operation (Supplying Line Power) Input Voltage Range	100-132 VAC	100-132 VAC	100-132 VAC
Maximum Pump Running Amps	5A	9A	14A
Maximum Pump Startup Amps	12A	25A	33A
Switchover Time	1/3 Sec	1/3 Sec	1/3 Sec
Unit Dimensions (L x W x H) in.	13x6x3	17x6x3	21x6x3
Weight (lbs.)	10	15	22
Price	\$599.00	\$737.00	\$949.00

**How it Works:** When electricity is present, the Surefire, Model 933, & Pump Sentry will charge a battery and survey the power line. The instant a power failure occurs, the Surefire, Model 933, & Pump Sentry convert the energy stored in the battery to AC power. This assures operation of the wood furnace, pellet stove or sump pump without interruption during the absence of electricity.

When AC utility power is restored, the Surefire, Model 933, & Pump Sentry reinstate AC utility power as the prime energy source to operate the wood furnace, pellet stove or sump pump. Simultaneously and automatically these units commence to the recharging of the battery, to return it to full capacity in preparation for the next power failure.

At sites where utility power is not present, the user should determine if there is a sufficient reserve of battery capacity to enable the wood furnace, pellet stove or sump pump to operate for the desired time period. Consult the Surefire, Model 933, & Pump Sentry operating manual for data relating to the size and number of batteries needed. **To ensure compatability with the SF512** - User should verify that the heating applaince is started by manual ignition only and that under no circumstances does it draw more than 5A from the outlet.

#### **Pump Sentry**

Avoid Flooding- Get protection against power failure to basement pumps with a simple to implement Pump Sentry.





**Need extra cables? (2')**Part #SFcable
\$23.99



# Sine Wave Model 933

\$885.00

**SKU: 933BB** 



**What is it?:** This is a Brand New 1200 Watt Automatic Battery Backup unit made to work with Pure Sine Wave.

#### **Features:**

- Effortless installation-easy hookup
- Automatically engages when power goes out
- · Lowers possibility of developing burst pipes due to the cold
- More reliable than a generator
- Durable not a throw away appliance-10year life expectancy
- 2 Year warranty
- Requires deep cycle. sealed, marine battery group 27 or higher

# Surefire 512







\$499.99

**SKU: SF512** 

Max Backup 550 Watts Input Current: 5.5 Amps **What is it?:** Our SF512 combined with a 12V battery is a reliable emergency power source for most pellet stoves. Developed specifically for Harmon Pellet Stove Models, with the help & input of Harman engineers, it has been a solid power backup solution for pellet stoves for years.

#### **Features:**

- Instant Automatic power transfer
- Battery cables included
- Surefire 512 auto switched from AC to DC and back to charge the battery until next outage
- Requires deep cycle, sealed, maintenance free marine battery-group 27 or higher
- Made for Harmon stoved. Not compatible with Quadra Fire

