



# Alternative Heating & Supplies

Be Self-Sufficient

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AltHeatSupply.com

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# Alternative Heating & Supplies

Be Self-Sufficient

## About Us

We are a hard working, family team. Our business motto is, **"We are only good as our customers."** 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 woods stoves ourselves, we're 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](http://www.AltHeatSupply.com), send us an email, fax, or call to order. We accept Visa, MasterCard, AmericanExpress, and Discover.

## Shipping Policies

Free Shipping on most items over \$199 within the Continental United States. This does not apply to Alaska & Canada or 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 Policies

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 item.



*Bella thanks you for your business and looks forward to working with you!*

## Our Location

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









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# Wood Boiler Treatments

<b>BOILER TREATMENT Product Comparison</b>	<b>Good!</b>  A-200	<b>Better!</b>  AmTech 300	<b>Best!</b>  ProTech 300	 Competition
Formulated to Prevent Rust and Scale	↖	↖	↖	?
SAFE for Stainless Steel & Mild Steel	↖	↖	↖	?
Regulates & Balances pH	↖	↖	↖	?
Levels of Protection	2	2	3	1 or 2
Protects Copper & Brass	↖	↖	↖	?
Reduces Sludge & Mineral Deposits	↖	↖	↖	?
Contains Nitrites & Silicate		↖	↖	?
Steam Neutralizer		↖	↖	
Up to 2 Years of Protection	↖	↖	↖	
Test Kit Sold Separately	↖	↖	↖	
Best Oxygen Control in the Business			↖	
Better for Units with Frequent Water Refills			↖	
Dye Indicator for Easy Visual Inspection			↖	
Enhances Other Products if Mixed			↖	
Works Well with Glycol			↖	?
Environmentally Friendlier	↖			

Item	Description	SKU	Price	4 or more
	<b>ProTech 300 Boiler Treatment</b>	ProTech300	<b>\$44.99</b>	<b>\$39.95</b>
	<p><b>ProTech 300 Boiler Treatment</b> - The ProTech300. It's been Improved! The ProTech300 is a new and improved formula with chemical detection technology. We have taken it to the next level. It has the highest level of protection for the wood boiler than other brand-name boiler treatment. It has 3 levels of protection. That means 3 Active ingredients in it. The 3 Protection "Levels" are 1. Nitrite 2. Phosphonate 3. Anodic inhibitor. ProTech 300 provides protection for your wood boiler from rust, corrosion and scale. ProTech 300 Boiler Water Treatment has been designed to be used in Manufacturers boiler treatment programs. <b>Adding 1 Gallon of ProTech 300 to 300 gallons of boiler fill water will yield +/- 1000 ppm nitrite. Suggested nitrite levels are 750ppm = Adequate, 1000 ppm = Good, 1500 ppm = Great.</b> Dose system accordingly on required control levels set by your boiler manufacturer and your system's nitrite needs based on test results. Do it yourself test kits are available see 300 Test kit on page 4. The manufacturers can't tell the difference if you are using their expensive brand or our ProTech300, so send it into their labs with confidence. See our Boiler Treatment Product Comparison chart for all that is does.</p>			
	<b>AmTech 300 Boiler Treatment</b>	AmTech300	<b>\$34.99</b>	<b>\$29.95</b>
	<p><b>AmTech 300 Boiler Treatment</b> - The AmTech300. Offers 2 levels of protection - 2 Active Ingredients. AmTech 300 will protect your wood boiler from rust, corrosion, and scale. As well as balance pH and alkalinity. Our product has been designed to work just as well as any other name brand boiler treatments that come directly from other manufacturers without the Premium price tag. One gallon of AmTech300 will treat 300 gallons of boiler fill water and maintain 1000ppm nitrite level. However, like any other boiler treatment chemical, you must dose your treatment based on the needs of your system. You can determine the needs of your system by testing your boiler water using our do it yourself Wood Boiler Water Test Kits on page 4 - see the 300Testkit. See our Boiler Treatment Product Comparison chart for all that is does.</p>			

# Wood Boiler Treatments

Item	Description	SKU	Price	Bulk Price
	<b>300 Test Kit - Works with AmTech &amp; ProTech</b>	300 Test Kit	<b>\$19.95</b>	<b>\$17.95 / 6 or more</b>
	<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 are essential to its performance and system protection. Test your boiler water before you send it in to the manufacturer's 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.			
	<b>A200 Alternative Heating Boiler Treatment</b>	A200	<b>\$27.95</b>	<b>\$24.99 / 6 or more \$ 22.99 / 12 or more</b>
	<b>A200 Boiler Treatment</b> - The A200. It is specifically designed for outdoor and indoor wood boilers with mild or stainless steel construction. This product may also be used 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 on page 3 for all that this does.			
	<b>Test Kit for A-200 Boiler Treatment</b>	TK500	<b>\$19.95</b>	<b>\$17.99 / 6 or more</b>
	<b>A200 Test Kit - TK500 Test Kit</b> - This test kit is designed to test the Nitrate levels in your boiler fill water. It is an easy and accurate means to determine the level or amount of Nitrate in your system. Test Nitrate like the labs do! Keep your boiler water at its optimum chemical balance. Proper chemical levels within your system is essential to its performance and system protection. You will be able to answer the question: Is my boiler treatment working? Most of us spent a lot of money for our units so let's do what we can to protect it. These products are better quality & price than what the OEM's are trying to sell you! You can test your boiler water up to 10 times per kit! This test kit works only with our A200 Boiler Treatment.			
	<b>CF205 System Cleaner &amp; Flush</b>	CF205	<b>\$27.95</b>	<b>\$22.99 / 12 or more</b>
	<b>CF205 System Cleaner</b> - Promote a Clean and Efficient System. Our 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. Another plus to this product is that it is environmentally friendly. One quart will treat 200 gallons. Nice trick to save money, It can be used with white vinegar to help with heavy corrosion. Units that evaporate 50 gallons: add 1 gallon of white vinegar with CF205. You can use up to 3 gallons of white vinegar with 1 CF205. How to Use: Run the CF205 in your unit for 4 to 8 hours and then drain system, refill and add boiler treatment. We recommend following up with the ProTech 300, AmTech 300 or A200 Boiler Treatment.			
	<b>Alternative Heating Boiler Treatment, Cleaner &amp; Test Kits</b>	A200Kit		<b>\$75.85</b>
	<b>A200Kit</b> - 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 Boiler Treatment.			
	<b>A200 Test Kit and A200 Boiler Treatment</b>	A200-TK500		<b>\$47.90</b>
	<b>A200-TK500</b> - The basic environmentally friendly maintenance boiler kit This kit includes one quart A200 Boiler Treatment (Nitrate based) and one Test Kit TK500. A great way to keep your furnace running clean and lasting longer. <b>A200 Boiler Treatment</b> - Has been specifically designed for outdoor and indoor wood boilers with mild or stainless steel construction. This product may also be used as a full spectrum water conditioning agent for other hydronic and solar heating applications. A200 is the only environmentally friendly boiler treatment. One quart treats 200 gallons. <b>TK500 Test Kit</b> - Has been designed to provide an easy and accurate means to determine the level or amount of Nitrate/A200 boiler treatment in your outdoor wood boiler system			
	<b>AmTech 300 Boiler Treatment with Test Kit</b>	YMKit-1Am		<b>\$54.94</b>
	<b>AmTech 300 and Test Kit</b> - This yearly maintenance kit allows you to keep the nitrites at optimal levels, as well as balance pH and alkalinity levels. It provides you with 2 levels of protection for your wood boiler. The test kit allows you to check the nitrite levels to make sure you meet your boilers warranty requirements. It has been designed for outdoor and indoor wood boilers with mild or stainless steel construction. The kit includes one gallon of AmTech300 boiler treatment and one 300Test Kit. Everything you need to keep your wood boiler running at its best.			
	<b>ProTech 300 Boiler Treatment with Test Kit</b>	YMKit-1Pro		<b>\$64.94</b>
	<b>Pro300TK</b> - This yearly maintenance kit allows you to keep the nitrites at optimal levels, as well as balance pH and alkalinity levels. It provides you with 3 levels of protection for your wood boiler. The test kit allows you to check the nitrite levels to make sure you meet your boilers warranty requirements. It has been designed for outdoor and indoor wood boilers with mild or stainless steel construction. The kit includes one gallon of ProTech300 boiler treatment and one 300Test Kit. Everything you need to keep your wood boiler running at its best.			
	<b>Molyarmor 350</b>	MolyArmor	1 Gallon	<b>\$49.99</b>
	<b>Molyarmor Test Kit</b>	MolyTestKitc	1 Test Kit	<b>\$28.53</b>
	<b>Woodmaster Molyarmor Corrosion &amp; Scale Inhibitor</b> - Prevents metal corrosion, scale and rust build-up, prolonging equipment life and improve efficiency. One gallon treats 200 gallons. Test kit includes 25 strips for testing both Moly and PH with one strip. These products are both Wood Master's. Replaces Corquest 1200.			

# Wood Boiler Treatment Kits





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



Item	Description	SKU	Price
	<b>Yearly Maintenance Kit with 6 feet of 1" fire rope*</b>	MKit6-Pro	<b>\$66.92</b>
	<b>Yearly Maintenance Kit with 7 feet of 1" fire rope*</b>	MKit7-Pro	<b>\$68.91</b>
	<b>Yearly Maintenance Kit with 8 feet of 1" fire rope*</b>	MKit8-Pro	<b>\$70.90</b>
	<b>Yearly Maintenance Kit with 9 feet of 1" fire rope*</b>	MKit9-Pro	<b>\$72.89</b>
	<b>Yearly Maintenance Kit with 6 feet of 1" fire rope*</b>	MKit6-Am	<b>\$56.92</b>
	<b>Yearly Maintenance Kit with 7 feet of 1" fire rope*</b>	MKit7-Am	<b>\$58.91</b>
	<b>Yearly Maintenance Kit with 8 feet of 1" fire rope*</b>	MKit8-Am	<b>\$60.90</b>
	<b>Yearly Maintenance Kit with 9 feet of 1" fire rope*</b>	MKit9-Am	<b>\$62.89</b>
	<b>*Bundled Maintenance Kits - Maintenance Kit Includes Boiler Treatment, Fire Rope &amp; Silicone</b>		
	<b>Description</b>	<b>SKU</b>	<b>Price</b>
	<b>1 ProTech300 And 1-300Test Kit</b>	YMKit-1Pro	<b>\$64.94</b>
	ProTech300 Maintenance Kit Bundle- This kit comes with one gallon of our ProTech300 Boiler Treatment and a 300Test Kit.		
	<b>2 ProTech300 And 1-300Test Kit</b>	YMKit-2Pro	<b>\$109.93</b>
ProTech300 Maintenance Kit Bundle- This kit comes with 2-one gallon bottles of our ProTech300 Boiler Treatment and a 300Test Kit.			
	<b>1 AmTech 300 And 1-300Test Kit</b>	YMKit-1Am	<b>\$54.94</b>
	AmTech300 Maintenance Kit Bundle- This kit comes with one gallon of our AmTech300 Boiler Treatment and a 300Test Kit.		
	<b>2 AmTech 300 And 1-300Test Kit</b>	YMKit-2Am	<b>\$89.93</b>
	AmTech300 Maintenance Kit Bundle- This kit comes with 2-one gallon bottles of our AmTech300 Boiler Treatment and a 300Test Kit.		
Item	Description	SKU	Price
OR	<b>Maintenance Kit - 3300</b> This kit is all that you need to keep your WoodMaster 3300 Model stove working like the day you bought it! Doing yearly maintenance is the key to keeping your wood boiler running clean and efficiently year after year. This Kit Includes: Fire 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-Pro	<b>\$87.90</b>
		MKit3300-Am	<b>\$77.90</b>
OR	<b>Maintenance Kit - 4400</b> This kit is all you need to keep your WoodMaster 4400 Model stove working like the day you bought it! Doing yearly maintenance is the key to keeping your wood boiler running clean and efficiently year after year. This Kit Includes: Fire 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-Pro	<b>\$89.89</b>
		MKit4400-Am	<b>\$79.89</b>



# Maintenance & Cleaners

Item	Description	SKU	Price
	<b>Maintenance Kit - 5500</b> This kit is all you need to keep your WoodMaster 5500 Model stove working like the day you bought it! Doing yearly maintenance is the key to keeping your wood boiler running clean and efficiently year after year. This Kit Includes: Fire 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-Pro	<b>\$110.87</b>
		MKit5500-Am	<b>\$100.87</b>
	<b>Outdoor Wood Boiler Maintenance 6500</b> This kit is all you need to keep your WoodMaster 6500 Model stove working like the day you bought it! Doing yearly maintenance is the key to keeping your wood boiler running clean and efficiently year after year. This Kit 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-Pro	<b>\$192.76</b>
		MKit6500-Am	<b>\$172.76</b>

## Keep your unit clean inside and out!

Item	Description	SKU	Price	Bulk Price
	<b>32 oz Spray Bottle</b>	ACSCleaner	<b>\$9.99</b>	<b>\$7.99 / 12 or more</b>
	<b>ACS Home &amp; Hearth Cleaner</b> 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.			
	<b>Purple Power 32 oz Spray Bottle</b>	PP32	<b>\$4.99</b>	<b>\$3.79 / 12 or more</b>
	<b>Purple Power Industrial Strength Cleaner/Degreaser</b> 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, non-abrasive, non-flammable and phosphate-free. <i>***We have been using this product to clean the outside of our wood boilers for years. This removes the black creosol residue from the front of the unit above the door of wood boilers easily and quickly.</i>			
	<b>Anti-Creo-Soot 32 oz Spray Bottle</b>	ACS32	<b>\$18.99</b>	<b>\$17.49 / 12 or more</b>
	<b>Anti-Creo-Soot 1 Gallon Jug</b>	ACS1Gal		<b>\$43.99</b>
<b>Anti-Creo-Soot</b> 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! <b>USES</b> 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. <b>BENEFITS:</b> Attacks dangerous creosote & soot, helps prevent chimney fires, allows chimneys to clean easier and more completely, reduces odors and pollution. The cleaner also reduces corrosion in metal, stainless steel and masonry, and is safe for use with catalytic combustors, non-toxic & easy to use.				
	<b>CF205 System Cleaner</b>	CF205	<b>\$27.95</b>	<b>\$22.99 / 12 or more</b>
	<b>CF205 System Cleaner</b> 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 metals surface as it works its cleaning action. CF205 may be used in other hydronic and solar applications as well, and is environmentally friendly. One quart treats 200 gallons, and 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 in unit for 4 to 8 hours, drain, refill and add boiler treatment. We recommend following with ProTech 300 or A200.			

Exterior Cleaners

Interior Cleaners

Water Jacket Flushing Cleaner

# 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 cause the unit to smoke constantly. We sell the 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. Also known as 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, Emphyre, 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 a bead of silicone into the channel, and add rope inside of the door seam. Leave it for 6 hours for the silicone to harden. Yes, it is that easy!

Size	SKU	Item	Price Per Foot
 <b>1/2" Fiberglass Firedoor Rope</b>	FR012	Less than 50 feet	\$1.09
		50-100 feet	\$0.99
		100-250 feet	\$0.89
		250 feet or more	\$0.79
 <b>5/8" Fiberglass Firedoor Rope</b>	FR058	Less than 50 feet	\$1.39
		50-100 feet	\$1.19
		100-250 feet	\$1.09
		250 feet or more	\$0.99
 <b>3/4" Fiberglass Firedoor Rope</b>	FR034	Less than 50 feet	\$1.59
		50-100 feet	\$1.39
		100-250 feet	\$1.29
		250 feet or more	\$1.19
 <b>7/8" Fiberglass Firedoor Rope</b>	FR078	Less than 50 feet	\$1.89
		50-100 feet	\$1.79
		100-250 feet	\$1.69
		250 feet or more	\$1.59
 <b>1" Fiberglass Firedoor Rope</b>	FR001	Less than 50 feet	\$1.99
		50-100 feet	\$1.99
		100-250 feet	\$1.89
		250 feet or more	\$1.79
 <b>1 1/8" Fiberglass Firedoor Rope</b>	FR118	Less than 50 feet	\$4.79
		50-100 feet	\$4.59
		100-250 feet	\$4.39
		250 feet or more	\$3.99
 <b>1 1/4" Fiberglass Firedoor Rope</b>	FR114	Less than 50 feet	\$4.79
		50-100 feet	\$4.59
		100-250 feet	\$4.39
		250 feet or more	\$3.99

**"The Greatest thing in the world is to know how to be Self-Sufficient"**

# Door Seal Kits



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	<b>\$27.90</b>
<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	<b>\$29.89</b>
<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	<b>\$27.90</b>
<b>Heatmor Outdoor Wood Boiler Door Seal Kit:</b> Includes two 10 oz. tubes 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.	HeatmorFRKit	<b>\$33.91</b>

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



# Replacement Parts




Item	Description	SKU	Price
	<b>Snap Disc</b>	SD001	<b>\$15.99</b>
	Snap Disc Control, Limit, Automatic Reset, Switch Action Open on Rise, Switch Type SPST, Temp. Range (F) 150 to 190, Differential 40, Inductive Amps @ 120V 10, Inductive Amps @ 240V 5, Pilot Duty Contacts (VA) 125, Resistive Amps @ 120V 25, Resistive Rating 240V 25, Voltage Range 120 to 277, Switch Closes @(F) 150, Switch Opens @(F) 190	<b>Snap Disc - has manual reset button on back</b>	SD002
	<b>Snap Disc</b>	SD005	<b>\$25.99</b>
	Snap Disc Control, Adjustable Limit, Automatic Reset, Switch Action Open on Rise, Switch Type SPST, Temp. Range (F) 135 to 215, Differential 40, Inductive Amps @ 120V 14, Inductive Amps @ 240V 10, Pilot Duty Contacts (VA) 125, Resistive Amps @ 120V 25, Resistive Rating 240V 25, Voltage Range 120 to 240, Switch Closes @ (F) 135 to 175, Switch Opens @ (F) 175 to 215	<b>Laminated Solenoid</b>	LS001
	<b>Laminated Solenoid</b>	LS002	<b>\$42.99</b>
	Current @ maximum stroke 1.25 Amps, coil resistance 88.0 Ohms, coil voltage rating @ 60 HZ 120 VAC, seated current 0.24 Amps, seated power 9.5 Watts, mounting holes on center length 1 3/8 in, mounting holes on center width 5 7/8 in, length 1 5/8 in, depth 1 7/16 in, width 1 3/16 in. Grainger Part # 4X239, Dormeyer 1000-M-1, Guardian 16-C-120	<b>Laminated Solenoid</b>	LSC01
	<b>Vent Cap</b>	VC301	<b>\$34.42</b>
	For all wood stoves, 2 1/2" diameter, Copper tube helps prevent water evaporation common on all units.	<b>Door Handle</b>	DH101
	<b>Slide Rod Handle</b>	SRH101	<b>\$15.99</b>
	Insulated Handle for most wood stoves.	<b>Bracket Square</b>	SB001
	<b>Bracket Square- for round shoot fan</b>	SB001S	<b>\$19.99</b>
	To connect the laminated solenoid to your rubber flapper on a fan/blower that has a ROUND shoot (FN1TDP3, FN1TDN7)	<b>Fan Blower Wire</b>	FBW001
	<b>Draft Spring—DIY</b>	DS001	<b>\$5.99</b>
	This is the draft spring used in our DIY kits. Coil 5/8" Full length 1 1/2"	<b>Draft Spring—Shaver</b>	DS002
	<b>Jelly Jar- The Complete light fixture</b>	LA101	<b>\$14.99</b>
	This is an outside light fixture, commonly used on the outside of WoodMaster traditional model wood boilers, and others.		

**"Self-Sufficiency is the Greatest of all Wealth"**

Item	Description	SKU	Price
	<b>ETC Assembly</b>	ETC Assembly	<b>\$310.95</b>
	<b>Wood 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 fan 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.		
	<b>ETC Shield &amp; UV Protection</b>	ETC Shield & UV Protection	<b>\$38.50</b>
	Help protect the ETC panel from weather damage including water, and UV rays.		
	<b>ETC Black Box</b>	ETC Black Box	<b>\$44.95</b>
	This is installed behind the ETC panel and protects all of the internal wiring of the boiler.		
	<b>WMAQ004</b>	WMAQ004	<b>\$139.95</b>
	The WoodMaster Aquastat/temperature gauge controls wood boiler temperatures. It is preset to WoodMaster specifications. This is a Direct Replacement for WoodMaster. (XR30CX)		
	<b>Light ON/OFF Switch</b>	LSW101	<b>\$17.95</b>
	To replace on the ETC Assembly		
	<b>Fan ON/OFF Switch</b>	FS101	<b>\$12.95</b>
	To replace on the ETC Assembly		
	<b>Green LED Light Assembly</b>	WL302	<b>\$19.99</b>
	<b>Red LED Light Assembly</b>	WL302R	<b>\$19.99</b>
For water level light. LED light for long life.			
	<b>Float Assembly</b>	WL001	<b>\$112.99</b>
	For water level light. Used on Wood Master wood furnaces.		
	<b>Thermistor Wire</b>	AQ305	<b>\$21.99</b>
	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.		
	<b>Thermistor Wire</b>	AQ306	<b>\$19.99</b>
	For AC Applications. Thermistor 3" Probe with 6' wire is used to monitor temperature. Compatible with the Dixwell XR40CX (AQ044AC) controller. Wood Furnaces use the AQ305.		
	<b>Complete Front Door for Wood Master 4400</b>	FD4400	<b>\$879.00</b>
	<b>Complete Front Door for Wood Master 5500</b>	FD5500	<b>\$899.99</b>
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. *** SHIPPING INCLUDED IN PRICE***			
	<b>Complete Auger &amp; Grate Assembly</b>	AK4400	<b>\$769.99</b>
	<b>Complete Auger &amp; Grate Assembly</b>	AK5500	<b>\$949.95</b>
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, CALL FOR A FREIGHT QUOTE***			
	<b>Complete Wiring Harness</b>	WH4400	<b>\$137.95</b>
	<b>Complete Wiring Harness</b>	WH5500	<b>\$134.80</b>
Complete Wiring Harness - Used in the 4400 and 5500 models. Wires are simply labeled and can be easily installed in a couple hours. There is a quick connect included to hookup to an ETC Assembly. A Direct Replacement from WoodMaster. Includes Thermistor Probe (AQ305). The Water level Float does NOT come with wiring harness. Sold separately (WL001)			
	<b>Fan Cover- 4 3/4" Diameter</b>	FC546	<b>\$18.99</b>
	Fan Cover is a simple device that works effectively on keeping the air out and saves wood and reduces smoke. This is a rubber fan cover that covers most Dayton Fans to stop the air flow into wood furnaces. This is used commonly on the WoodMaster 3300, 4400, 5500, & 6500 models.		
	<b>Small Flapper- 3 3/4" Diameter</b>	FC328	<b>\$19.99</b>
	Fan Cover is a simple device that works effectively on keeping the air out and saves wood and reduces smoke. This is a rubber fan cover that covers most Dayton Fans to stop the air flow into wood furnaces. This fits the smaller fans.		



# Gauges & Thermometers





Item	Description	SKU	Price
	<b>Dial Thermometer- Honeywell GT162 Dial Thermometer, 1/2" NPT</b>	TG101	<b>\$24.99</b>
	Honeywell GT162 Dial Thermometer, 1/2 inch NPT is a thermometer with a threaded connection. A brass thermowell is included to allow the thermometer to be removed without draining the system. Short stem length of 1 1/2"; a temperature range of 32 degrees to 250degrees F; 2.5" face, center back mount, 1/2" NPT thread.		
	<b>Tridicator</b>	1/4" NPT	TPG14 <b>\$27.99</b>
		1/2" NPT	TPG12 <b>\$39.99</b>
Honeywell TD-090 1/4" Tridicator / Honeywell TDV-040 1/2" Tridicator- pressure/temperature gauge with relief set point indicator for boilers and 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 1/4" is 1 21/32"; Stem Length for 1/2" is 1 29/32"			
	<b>SharkBite® Pressure Gauge</b>	SBPG12	1/2" <b>\$28.99</b>
		SBPG34	3/4" <b>\$35.99</b>
		SBPG01	1" <b>\$59.99</b>
	<b>SharkBite® Temp Gauge</b>	SBTG12	1/2" <b>\$59.99</b>
		SBTG34	3/4" <b>\$55.99</b>
		SBTG01	1" <b>\$72.99</b>
<b>Maverick 500' Wireless Temperature Gauge</b>		WTG500	<b>\$66.99</b>
WTG500 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 alarm beeps and flashes if temperature falls below or above your programmed range. Receiver displays temperature up to 572 degrees. 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 electrical tape.			







**Helpful Tip! Use this to monitor your wood boiler supply & return water temperature from up to 500 feet away!**

**Super Easy Installation!**





# Thermostats, Controls & Fans

Item	Description	SKU	Price		
	<b>Low Voltage Thermostat</b>	TH001	<b>\$39.99</b>		
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					
	<b>In-Line Thermostat</b>	TH002	<b>\$39.99</b>		
Honeywell Tradeline T4398A1021 In-Line Thermostat: High Performance Electric Heat Thermostat provides precise line voltage control of resistive-rated electric heating equipment. Setting Temperature Range (F) 50 F to 80 F; SPST switching (two wire); Dimensions (in.): 4 1/2 in. high x 2 7/8 in. wide x 2 5/8 in. deep; Mounting: Vertical; Supply Voltage: 120 Vac; Sensor Element: Vapor filled dual diaphragm which provides for accurate temp sensitivity; Heat Current: 0.02 A to 1.0 A running; Rugged, plastic mounting base; Cover thermometer indicates room temperature.					
	<b>Speed Control</b>	SC36	<b>\$37.99</b>		
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".					
	<b>Item</b>	<b>Size</b>	<b>CFM</b>	<b>SKU</b>	<b>Price</b>
	<b>Exhaust Fans</b>	16 X 16	912	UHF12	<b>\$199.00</b>
		20 X 20	1334	UHF16	<b>\$269.00</b>
		22 X 22	2652	UHF18	<b>\$299.00</b>
		24 X 24	3647	UHF20	<b>\$349.00</b>
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 104 degrees F, 115VAC, 60Hz, 1 phase, motor type shaded pole, vertical mounting position. Variable Speed Controller included.					




# Tools & Trade Accessories

Part	Description	SKU	Price
	<b>PKK01 KWIK Cut SharkBite Pex Tubing Cutter (Cash Acme U701):</b> 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 up to 1" polyethylene pipe rubber hose, Pex or PVC. Replaceable blade, clean cut every time. Every tool box should have this tool!	PKK01	<b>\$15.99</b>
	<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 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 40.	PR12 (1/2")	<b>\$0.39</b>
		PR34 (3/4")	<b>\$0.45</b>
		PR01 (1")	<b>\$0.60</b>
	<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 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)	PCT02	<b>\$79.99</b>
		PCT03	<b>\$155.99</b>
	<b>Stainless Steel Crimp Ring</b> Clamp brass or poly crimp fittings onto PEX pipe. The clamp ring is tightened using a Pex 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.	SCR12	<b>\$0.45</b>
		SCR34	<b>\$0.69</b>
		SCR01	<b>\$0.69</b>

# Tempering Valves & Mixing Valves

Part	Description	SKU	Price
	<b>MVH34S &amp; MVH01S Cash Acme HeatGuard® 110-HX Mixing Valve</b> 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 applications 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.	MVH34S	3/4" Swt <b>\$117.99</b>
		MVH01S	1" Swt <b>\$119.99</b>
	<b>MV34S &amp; MV01S Cash Acme HeatGuard® 110-D Mixing Valve</b> 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. The valve delivers water at a set temperature 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. Adjustable outlet temperature of 85°F - 130°F.	MV34S	3/4" Swt <b>\$104.99</b>
		MV01S	1" Swt <b>\$119.99</b>
	<b>MV34SB Cash Acme HeatGuard® 110-D Mixing Valve (SharkBite® Ends)</b> <b>SharkBite Connections:</b> 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. The valve delivers water at a set temperature 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. Adjustable outlet temperature of 85°F - 130°F.	MV34SB	3/4" SB <b>\$119.99</b> No sweat or threading
	<b>MV11501 Cash Acme HeatGuard® 115-H Mixing Valve</b> 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>\$259.99</b>

# Misc. Parts


	<b>Bladder Heatmore</b>	Bladder	<b>\$55.99</b>
	The bladder is designed as a reservoir that accepts the increase volume of water within the water jacket. As the furnace cycles, the amount of water will increase and decrease as the water jacket expands as it is heated. The Bladder Compatible with Heatmor and Heatsource 1.		
	<b>Thumb Knob Screw</b>	TS001	<b>\$2.49</b>
			<b>\$1.99/ 4 or more</b>
	Screw for most wood furnaces, standard ¼ inch thread. Holds back panel to the stove.		
	<b>Chimney Repair Kit</b>	CRKit4400	<b>\$472.61</b>
	<b>4400 Patch Kit</b> - Vent Pipe/Fill port 19" SCH 80 & 2-16" x 24" 4400 Water Jacket pre rolled to match the round barrel		
	<b>Chimney Repair Kit</b>	CRKit5500	<b>\$509.24</b>
	<b>5500 Patch Kit</b> - Vent Pipe/Fill port 19" SCH 80 & 2- 18" x 26" 5500 Water Jacket pre rolled to match the round barrel		







# Digital Electronic Controls

## Ranco Controller





Model Detail		SKU	Price
	<b>The Ranco ETC -112000-000</b> — Heating or Cooling	AQ002	\$96.99
	<b>The Ranco ETC -112000-000</b> 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. LED backlight.		
	<b>The Ranco ETC 111-000</b> — Heating or Cooling	AQ007	\$94.99
	<b>The Ranco ETC 111-000</b> 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	
	<b>Stainless Steel Dry Well - 1/2"</b>			
	2.5" long	DW12	\$26.99	
	4" long	DW1204	\$24.99	
	<b>DW12 Stainless Steel Dry Well</b> - Most commonly used with pools and spas. Mount a tee in the water stream for the drywell to be installed in, to house the temperature probe for monitoring pool or spa temperature. Total length 3'; 1/2" MNPT, 1 3/4" probe length.			
<b>Stainless Steel Dry Well - 3/4"</b>	2.5" long	DW34	\$29.99	
	4" long	DW3404	\$36.99	
<b>DW1204 Stainless Steel Dry Well</b> - Is the same as DW12 but has a total length of 4', 1/2" MNPT, 2 3/4" probe length.** These drywells work with AQ002 & AQ007 **				
	<b>Cozeburn &amp; Empyre Wood Boiler Digital Aquastat</b>	AQLove	\$79.99	
	<b>Love Controller Cozeburn &amp; Empyre Wood Boiler Digital Aquastat</b> 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, just put it 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: 1, 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. Manufacturer Part Number TS2-010. ** This is just for the Digital controller and not the entire Panel ** Typical Applications: Commonly used for potable water and water heating applications. This unit uses AQ305 (page 10).			
	<b>Therm-O-Disc - 59T4090 Thermostat</b>	90° -150°	AQ005	\$14.99
	<b>AQ005 Therm-O-Disc</b> - 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.			
	<b>Therm-O-Disc - 59T4200 Thermostat</b>	90° -180°	AQ006	\$19.49
	<b>AQ006 Therm-O-Disc</b> - 59T4200 Thermostat 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.			
	<b>Coil Voltage 24 VAC</b>	RE001	\$12.99	
	<b>Enclosed Fan Relay</b> - 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		SKU	Price	
	<b>Dixell Controller XR30CX</b>	programmed for wood boiler temperatures	AQ004	\$99.99
		programmed for refrigeration systems	AQ004AC	\$99.99
<b>Dixell Controller XR30CX</b> - 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. (page 10)				
	<b>Dixell Controller XR40CX</b>	programmed for wood boiler temperatures	AQ044	\$119.99
		programmed for refrigeration systems	AQ044AC	\$119.99
<b>Dixell Controller XR40CX</b> - 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 2 probe input. *** AQ305 is used for heating applications and AQ306 is used for AC applications. (page 10)				

## White Rogers Controller



Model Detail		SKU	Price
	<b>Emerson 16E09-101</b>	AQ16E09	\$89.99 ea
	<b>Emerson 16E09-101</b> - Superior Temperature Control and Accuracy for Both Heating and Refrigeration Applications...and it's universal too! <b>Features:</b> - 16E09-101 replaces most mechanical and electronic single stage controls using an SPDT output relay - Multiple voltage operating range: 24/120/208/240/VAC - Standard setpoint temperature range (-40F-220F) - Alarm Output (with selectable delay-up to 99 minutes)		

# Electronic Controls

## Honeywell Controller

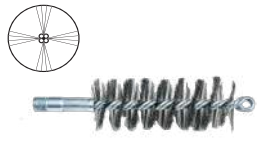
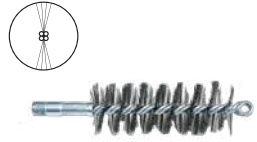
# Honeywell

Model Detail		SKU	Price
	1/2"	IW1203	\$31.99
	3/4"	IW3403	\$35.99
<b>Copper Immersion Well</b> - 1/2" or 3/4" MPT, bulb diameter 3/8", max insertion/bulb length 3", insulation depth 1", accessory for controls.			
	<b>L6006c 1018</b>	AQ003	\$149.99
<b>Hot Water Control Strap On Aqua Stat - Honeywell L6006c 1018</b> - contact current rating @ 120 VAC 8 Amps, contact current rating @ 240 VAC 5.1 Amps, differential 5-30° F adjustable, switch action SPDT, temp. setting range 65-200° F, open/close on temperature rise. Used to communicate with wood boilers and hot air systems. Manually adjustable.			
	<b>L4006A 1678</b>	AQL4006A	\$157.99
<b>Honeywell L4006A 1678</b> - 100° F to 240° F operating temperature and 5° F to 30° F adj. differential has 3" capillary. Immersion well not included. Breaks the circuit on a temperature rise to the control setting. Used for high limit or low limit control. Stop factory set at 240° F. A setting stop is included to prevent setting above a desired temperature on limit.			
	<b>AT140A 1000</b>	TR11024	\$19.99
<b>Transformer - Honeywell AT140A 1000</b> - 24 VAC, 40 VA, 120 VAC, 60Hz, 120 VAC, provides power to 24 VAC circuits in heating/cooling control systems. Intended for use in systems with predictable, uniform loads. Can be used in any application that does not exceed the listed ratings.			
	<b>AT72</b>	TR22024	\$34.99
<b>Tradeline Transformer AT72D1691 - Honeywell AT72</b> transformers power 24V systems including thermostats, gas valves and relays. Override protection provided, features color-coded leadwires for primary connections, energy limiting and meets NEMA Standard DC20-1992, transformer is marked NEMA Type D, meets NEC Class 2 not wet, Class 3 wet and UL 1585 requirements. -20 F to +105 F.			
	<b>R8285 A 1048 control</b>	FC8285	\$54.99
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 24V 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.			
	<b>Zone Valve — 3/4" ext.</b>	ZV342	\$119.99
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			
	<b>3-Way Valve - 3/4" ext.</b>	ZV343	\$152.98
	<b>3-Way Valve - 1" ext.</b>	ZV013	\$179.98
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.			
	<b>RA889A1001—external indicator lights</b>	ZS101	\$85.99
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.			

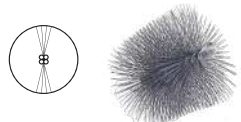



# Schaefer Brush


## Tube Brushes - Flue/Boiler Brushes

Item	Description	SKU	Cleans Flue Size	Brush Diameter	Price	Price (2 or more)
	<b>Tube Brushes</b> are recommended for cleaning flues, boiler tubes, heat exchangers, furnaces, and tubes of all types. Filament: Spring Grade Tempered Wire. Construction: Double	FB43316	2"	1-3/4"	\$15.68	\$14.11
		FB43322	2-1/2"	2-1/4"	\$17.10	\$15.40
Item	Description	SKU	Cleans Flue Size	Brush Diameter	Price	Price (2 or more)
	<b>Tube Brushes</b> are recommended for cleaning flues, boiler tubes, heat exchangers, furnaces, and tubes of all types. Filament: Stainless Steel. Construction: Single Spiral / Double	FB43536	1-1/2"	1-1/4"	\$13.99	\$12.60
		FB43539	1-3/4"	1-1/2"	\$14.50	\$13.05
		FB43542	2"	1-3/4"	\$14.90	\$13.41
		FB43545	2-1/4"	2"	\$15.50	\$13.95
		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. Material: Tempered oil wire Construction: Single Spiral / Double Stem. Shape: 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. Material: Polypropylene Construction: Single Spiral / Double Stem. Shape: Round Brush Length: 7" Male Pipe Thread: 3/8"	CB36176	7"	\$19.35	\$17.45
		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 where acids deteriorate steel bristles. Material: Polypropylene Construction: Single Spiral / Double Stem. Shape: Round Brush Body Length: 7" Male Pipe Thread: 3/8"	CB34806	6"	\$22.10	\$19.89
		CB34807	7"	\$22.72	\$20.51
		CB34808	8"	\$23.40	\$21.06


## Pellet Stove Brushes

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

## Extension Rods

Item	Description	SKU	Material	Rod Diameter	Pipe Thread	Overall Length	Price	Price (2 or more)
	Rods screw together to extend to desired length for chimney.	ER30624	Fiberglass	0.350"	1/4" Female & Male	4'	\$11.10	\$9.99
		ER36112	Nylon	0.3125"	5/16" - 18 Female & Male	4'	\$22.99	\$12.48
		ER36118	PVC	.25"	1/4" - 20 Female & Male	5'	\$13.15	\$11.83

## Sure - Surface Brushes

Item	Description	SKU	Fill	Description	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





**\*Find Cleaners on Pg 6\***

# Installation Parts

Item	Product Description	SKU	Price	
	<b>BTOkit Boiler Trim-Out Kit</b>	1" thread Air Purge (AP01)	BTOkit01	<b>\$289.99</b>
		1 1/4" thread Air Purge (AP114)	BTOkit02	<b>\$289.99</b>
	For use on commercial and residential closed loop hydronic heating systems. Included in the kit are: an air vent (AV18), air purge, a combination fill valve and backflow preventer (BFPRV) and an ET30 series expansion tank. BTOkit01 = 1" thread Air Purge (AP01) BTOkit02 = 1 1/4" thread Air Purge (AP114)			
	<b>Expansion Tanks</b>	2 gallons per system	ET15	<b>\$34.99</b>
		4 gallons per system	ET30	<b>\$52.99</b>
	For use in heating systems to absorb the increased hot water volume due to expansion, thus maintaining system pressure. Welded construction ensures long and reliable service. Heavy duty SBR diaphragm and epoxy paint finish. All models factory precharged to 12 PSI.			
	<b>Air Purge</b>	1" FPT	AP01	<b>\$21.99</b>
		1 1/4" FPT	AP114	<b>\$22.99</b>
	For use in heating systems to trap entrained air from the circulating water. One piece cast iron construction. No service required. Economical and easy to install. (AP01 = 1" FPT, AP114 = 1 1/4" FPT) ** Can be used with the AV18 below **			
	<b>AV Series Air Vent</b>	MPT 1/4"	AV14	<b>\$14.99</b>
		MPT 1/8" - fits the air purge	AV18	<b>\$14.99</b>
	With a manual vent feature, this can be used in commercial and residential hydronic heating applications to provide automatic air 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")			
	<b>Bronze Combination Fill Valve and Backflow Preventer</b>		BFPRV	<b>\$179.99</b>
	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.			
	<b>Boiler Pressure Relief Valve</b>		PRV34	<b>\$16.99</b>
	Bronze body, stainless steel spring and internals. 30 PSI, 510,000 BTU/HR, 3/4" male inlet and female outlet.			
	<b>Temperature Relief Valve</b>		TRV341	<b>\$24.99</b>
	Bronze body, coated thermal unit, stainless steel spring and internals. 210° F, CSA, ASME, male inlet and female outlet. 3/4" MNPT, 1" probe.			
	<b>Y-Strainer</b>	3/4" FPT	YS34	<b>\$9.99</b>
		1" FPT	YS01	<b>\$24.99</b>
	Can be installed in the pipeline wherever small solid particles occupy the main flow of liquids or gases. The Y-Strainer can be installed so that the screening element is on the lower end of the body, allowing entrapped material to collect in it. The removable cap can be detached periodically to clean and maintain the mesh screen. (YS34 = 3/4" FPT and YS01 = 1" FPT)			
	<b>Ball Valve - See page 36 for more</b>		BV01	<b>See Page 36</b>
	100 percent full port opening. Solid ball. Teflon seats and packing. 600 PSI WOG. Meets California Prop. 65 Drinking Water Standards and ANSI/NSF 61-8.			
	<b>Boiler Drain</b>	1/2" MPT	BD12	<b>\$7.99</b>
		3/4" MPT	BD34	<b>\$8.99</b>
	Boiler drain valve. Material of construction is bronze, MNPT x hose connection, open length 3 11/16 In, Max temp 180° F, Max pressure 125 PSI, aluminum hand wheel, standards CSA B125 approved, IAPMO listed. (BD12 1/2" MPT, BD34 3/4" MPT)			




**"Happiness belongs to the Self-Sufficient"**

# Do It Yourself Installation Kits





Item	Product Description	SKU	Price
	comes with crimp rings	DWkit	<b>\$81.54</b>
	comes with stainless steel rings	DWkitssr	<b>\$81.54</b>
	comes with SharkBite® fittings	DWkitsb	<b>\$75.45</b>
<p>Designed to be used with a brazed plate exchanger being mounted on a domestic hot water tank. 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. DWkitsb comes with SharkBite® fittings.</p>			
	<b>Internal Domestic Hot Water Kit - with SharkBite® fittings</b>	SDWkitsb	<b>\$103.18</b>
	<p>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.</p>		
	comes with crimp rings	HCKit	<b>\$24.76</b>
	comes with stainless steel rings	HCKitssr	<b>\$25.14</b>
	comes with SharkBite® fittings	HCKitsb	<b>\$37.97</b>
<p>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.</p>			
	comes with crimp rings	AHCKit	<b>\$169.75</b>
	comes with stainless steel rings	AHCKitssr	<b>\$169.93</b>
	comes with SharkBite® fittings	AHCKitsb	<b>\$187.96</b>
<p>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.</p>			
	comes with crimp rings	BBkit	<b>\$38.56</b>
	comes with stainless steel rings	BBkitssr	<b>\$38.74</b>
	comes with SharkBite® fittings	BBkitsb	<b>\$49.35</b>
	<p><i>Please request the 1-1/4" version of kit if needed. (50 plates and above)</i></p>		
<p>Designed for installing a brazed plate exchanger on an existing boiler. All fittings shown are included in the kit to simplify the order process and to get those hard-to-find parts. BBkitsb comes with SharkBite® fittings.</p>			
	comes with crimp rings	BBkitIC	<b>\$371.69</b>
	with stainless steel rings	BBkitICssr	<b>\$371.87</b>
	with SharkBite® fittings	BBkitICsb	<b>\$382.49</b>
<p>Designed to be used with a brazed plate exchanger and boilers with internal domestic coils. All part &amp; 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. Included in kit: BKU01 (2), PF01 (2), PR01 (2), BKT34, BKN3402, CVS34, TP007, PF034 &amp; AQ003, a roll of teflon tape and an easy to follow diagram. BBkitICsb comes with SharkBite® fittings.</p>			
	comes with crimp rings	MBPkit	<b>\$59.76</b>
	comes with stainless steel rings	MBPkitssr	<b>\$60.66</b>
	comes with SharkBite® fittings	MBPkitsb	<b>\$105.95</b>
<p>This kit was put together to create a manual by-pass of a water to air, space heater, or any other heat exchanger you would like to by-pass. 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. MBPkitsb comes with SharkBite® fittings.</p>			
	comes with crimp rings	MFkit	<b>\$35.47</b>
	comes with stainless steel rings	MFkitssr	<b>\$36.01</b>
	comes with SharkBite® fittings	MFkitsb	<b>\$62.31</b>
<p>This kit was designed to create a 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.</p>			



# Do It Yourself Installation Kits (continued...)

Item	Product Description	SKU	Price
	comes with crimp rings	INSTkit	\$52.32
	comes with stainless steel rings	INSTkitssr	\$52.50
	comes with SharkBite® fittings	INSTkitbsb	\$66.23
<p>This is a must have for new boiler installs. This kit was designed for hooking-up wood boiler pumps properly. We also took into consideration bleeding the air from the water lines as well as to aid with trouble shooting possible future issues (ex: pumps). Includes 1" pex fittings and pex crimp rings for easy installation. This is for Boilers that have existing ball valves. For a kit with ball valves see below. Crimp tools available (see Page 12). INSTkitbsb comes with SharkBite® fittings.</p>			
	comes with crimp rings	SINSTkit	\$70.80
	comes with stainless steel rings	SINSTkitssr	\$70.98
	comes with SharkBite® fittings	SINSTkitbsb	\$84.71
<p>This kit was designed for boiler hook-ups that need ball valves. All shown parts are included in the kit to simplify the installation &amp; ordering process, and to get those hard-to-find parts. We also took into consideration bleeding the air from water lines as well as to aid with trouble shooting possible future issues (ex: pumps). 1" pex fittings; SINSTkitbsb comes with SharkBite® fittings</p>			
	1" fittings for larger SS exchangers with crimp rings	PSkit01	\$360.61
	1" fittings for larger SS exchangers with stainless steel rings	PSkit01ssr	\$360.61
	3/4" fittings for SS series heat exchangers	PSkit34	\$355.16
	3/4" fittings for SS series heat exchangers with stainless steel rings	PSkit34ssr	\$355.16
<p>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 &amp; the PSkit34 has 3/4" fittings for the SS100 &amp; SS170 series heat exchangers.</p>			


## Building Your Own Wood Boiler

Item	Product Description	SKU	Price
	<b>Air Cooled Steel Door</b>	DIYKitwDoor	\$998.98
<p>Build your own wood boiler or furnace with this simple to mount door, engineered for a wood boiler. The door is a 24" x 24" Air Cooled Steel Door, with high quality welding and CNC cuts. This door can't be made for the same price!!! The door comes with everything in the DIYKitComplete, all the parts are installed in the door except the AQ007 which needs to be installed by you. Wiring diagram is included as well. <b>SHIPPING INCLUDED</b></p>			
	<b>DIY Kit Complete— Comes Assembled</b>	DIYKitComplete	\$289.99
<p>This kit includes all that you see in the picture, as well as a Wiring Diagram to assist you in the setup and install of the kit. The Kit Includes: AQ007 Ranco Digital Controller (Which controls the Water Temp of your Boiler), DW1204 Stainless Dry well for the Ranco controller (This holds the Temp Prob. of the Digital controller), NBK Blower (FN446)(Dayton 4C446) (The fan / Blower that feeds your boiler with air with 148CFM), FC546 Fan Cover for the Fan (This cover prevents air entering your boiler when idling to prevent overheating and excessively smoking), LS001 Laminated Solenoid to lift the fan cover (This Solenoid lifts the fan cover when the Fan/Blower is activated), Solenoid Bracket (Holds Solenoid), Fan Blower Wire (Wire from solenoid to Blower / Fan). The Dimensions: 12 3/4" Height and 6 1/2" wide (This is the Measurement of the Kit Completely assembled). Volts: 115 V (All you need is to provide electricity to your Boiler). ** Comes assembled, as seen in picture**</p>			
	<b>Auto Damper Kit with Digital Aquastat</b>	DIYKitAQ	\$181.99
<p>This kit includes all of the parts listed in the DIY Kit Complete EXCEPT the fan. Does not come assembled.</p>			
	<b>Auto Damper Kit</b>	DIYKit	\$80.99
<p>This kit includes all of the parts listed in the DIY Kit Complete EXCEPT the fan, Aquastat or Stainless Steel Drywell. This is just the solenoid, bracket and fan cover. Does not come assembled.</p>			


# BLOWERS

Item	Product Description	SKU	Price
	<b>NBK 4C446 (6FHX8)</b> Shaded pole blower, air flow @ 0.000 inch static pressure 145 CFM, speed 2720/3120, Voltage rating 115 VAC, current rating 0.75 Amps, frequency 60/50 HZ, thermal protection auto, wheel diameter 3 13/16 In, wheel width 2 1/2 In, inlet diameter 3 1/8 In. 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.	FN446	<b>\$79.99</b>
	<b>NBK 1TDN4</b> Blower Outlet Shape: Rectangular, Blower Wheel Diameter: 2-15/16 In., Blower Wheel Width 1-7/8 In., Blower Voltage 115VAC, Blower Motor Type: Shaded Pole, Blower Thermal Protection: Auto Thermal Protection, Blower Conduit Box: Yes, CFM @ 0.000-In. SP 49, 60 Hz, 1 Phase, Full Load Amps .50, RPM 3080 Max. Inlet Temp. 104 Degrees F, Overall Height 4-1/2 In., Overall Width 4-3-16 In., Overall Depth 4-1/2 In., Includes Discharge Mounting Flange. Compatible with Dayton 4C761	FN1TDN4	<b>\$69.99</b>
	<b>NBK 1TDN5</b> Forward curve, direct drive, wheel dia 2 15/16 In., CFM @ 0.000-In SP 54, 115 VAC, 60 HZ, single phase, full load amps 0.30, RPM 2850/3380, Max inlet temp 104° F, overall height 4 5/8 In, overall width 4 11/16 In, overall depth 4 1/2 In, includes discharge mounting flange. Equivalent to Dayton 1TDN5, 4C012, 1TDN5, and the Fasco B30	FN1TDN5	<b>\$69.99</b>
	<b>NBK 1TDN6</b> Blower Outlet Shape: Round, 51 CFM @ 60HZ , 115V, Wheel Dia. 3", Wheel Width 1-7/8", Motor Type: Permanent Split Capacitor, Motor Enclosure: Open, Motor Insulation: Class B, Thermal Protection: Auto, Lead Length 13", Conduit Box: Yes, Wheel Type: Forward Curve, Drive Type: Direct, Agency Compliance UL Recognized US and Canada (E47479), CE, Equivalent to Dayton 1TDN6, 4C441	FN1TDN6	<b>\$99.99</b>
	<b>NBK 1TDN7</b> Forward curve, direct drive, wheel dia 3 in, CFM 60, Voltage 115, 60 HZ, single phase, full load Amps 0.23, RPM 2700/3200, Max inlet Temp 104° F, overall height 5 13/16 In, overall width 5 1/8 In, overall depth 6 7/16 In, includes discharge mounting flange and inlet cover. Brands that use: John Jr. Johnson and Shaver. Equivalent to Dayton 1TDN7, 1C180,4C440, Fasco 50747-D401, 7021-3466, 50747D401, 40747-D500, 50747-D500, 6FHX4, 7021-7841 (England Stove), 7021-9258 (NESCO), 7021-8768, Lopi Coal Stoves Keystroker 90/105 Coal stove	FN1TDN7	<b>\$75.99</b>
	<b>NBK 1TDR3</b> Forward curve, direct drive, wheel dia 5 1/8 in, CFM @ 0.000-In SP 273, 115 VAC, 60 HZ, single phase, full load Amps 0.77, RPM 1570, Max inlet temp 104° F, overall height 9 7/8 In, overall width 7 11/16 In, overall depth 8 7/8 In, includes discharge mounting flange. Brands that use: Taylor, HeatSource & Freedom. Equivalent to the Dayton 1TDR3, 4C447, Fasco B45227. Compatible with Mahoning 1000 does not include fan cover.	FN1TDR3	<b>\$129.99</b>
	<b>NBK 1TDP1</b> Forward curve, direct drive, wheel dia 3 In., CFM @ 0.000-In SP 89, 115 VAC, 60 HZ, single phase, full load amps 0.31, RPM 3000, Max inlet temp 104° F, overall height 5 3/4 In, overall width 5 3/8 In, overall depth 5 3/8 In, includes discharge mounting flange. Brands that use: WoodMaster 5500 (rear fan) & Heatmor 100 css and Coyote. Equivalent to the Dayton 4C004, 1TDP1, Fasco B75, B75F	FN1TDP1	<b>\$79.99</b>
	<b>NBK 1TDP3</b> Forward curve, direct drive, wheel dia 3 15/16 In, CFM 75, 115 VAC, 60 HZ, single phase, full load Amps 0.45, RPM 3020, Max inlet temp 104° F, overall height 5 3/4 In, overall width 6 1/4 In, overall depth 6 7/16 In, includes discharge mounting flange. Brands that use: John Jr. Johnson, Taylor, Mahoning and Shaver. Equivalent to the Dayton 4C443. Equivalent to Fasco 7021-4931, 50748-D500, 7021-10870, 7021-5713, 7021-2588, 9MRW2. Compatible with the Mahoning 450 but it does not include the fan cover.	FN1TDP3	<b>\$79.99</b>
	<b>NBK 1TDP5</b> Forward curve, direct drive, wheel dia 3 3/4 In., CFM @ 0.000-In SP 131, 115 VAC, 60 HZ, single phase, full load amps 0.47, RPM 3000, Max inlet temp 104° F, overall height 6 11/16 In, overall width 5 5/8 In, overall depth 6 9/16 In, includes discharge mounting flange. Brands that use: Aquatherm Eco-1. Equivalent to the Dayton 1TDP5, 2C610, Fasco 50752-D500, 7021-3467, 7021-2001, 7021-6745, 7073-0488, 7021-10838, Dundas Greenhouse blower/7021-7857, 7021-4799 (England Stove), 7058-0382, 80472, 7021-1835, 7021-5855, Englander PU-4C442	FN1TDP5	<b>\$86.99</b>
	<b>NBK 1TDP7</b> Forward curve, direct drive, wheel dia 3 15/16 In, CFM @ 0.000-In SP 145, 115 VAC, 60 HZ, single phase, full load Amps 0.75, RPM 2720/3120, Max inlet temp 104° F, overall height 5 3/4 In, overall width 6 5/16 In, overall depth 5 3/8 In, includes discharge mounting flange. Brands that use: Legend, Woodmaster 4400 & 5500, Ozark, Heat Source, Heatmor 200 css & 400 css, Hawken Energy, HeatMaster & Pacific Western. Equivalent to the Dayton 1TDP7, 4C446	FN1TDP7	<b>\$79.99</b>
	<b>NBK 1TDT2</b> Blower Outlet Shape: Rectangular, Blower Wheel Diameter: 6-1/4 In., Blower Wheel Width: 3-13/16 In., Blower Voltage 115VAC, Blower Motor Type: Permanent Split Capacitor, Blower Thermal Protection: auto, Blower Conduit Box Yes, CFM @ 0.000-In. SP 549, 60 Hz, 1 Phase, Full Load Amps 2.05, RPM 1640, Max. Inlet Temp. 104 Degrees F, Overall Height 11-1/8 In., Overall Width 5-1/4 In., Overall Depth 10-7/16 In., Includes Discharge Mounting Flange. Equivalent to the Dayton 1TDT2	FN1TDT2	<b>\$159.99</b>
	<b>NBK 1TDT7</b> Forward curve, direct drive, wheel dia 6 1/4 In., CFM @ 0.000-In SP 542/409, 115 VAC, 60 HZ, single phase, full load amps 1.55/2.0, RPM 1310/1430, Max inlet temp 104° F, overall height 11 1/8 In, overall width 9 1/16 In, overall depth 10 7/16 In, includes discharge mounting flange. Equivalent to Dayton 1TDT7, 4C566, Fasco 7008-6164, A455	FN1TDT7	<b>\$199.99</b>


# Blowers (continued...)

Item	Product Description	SKU	Price	
	<b>NBK 6FHX5</b>	FN4C442	<b>\$86.99</b>	
	Blower Outlet Shape: Rectangular, Blower Wheel Diameter: 3-13/16 In., Blower Wheel Width: 1-7/8 In., Blower Voltage: 12VDC, 115 V Blower Thermal Protection: No, Blower Conduit Box Yes, CFM @ 0.000-In. SP 131, 60 Hz, 1 Phase, Full Load Amps .47, RPM 3000, 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. Replaces the Dayton 4C442, 1TDP5, 2C610, Fasco 50752-D500, 7021-3467, 7021-2001, 7021-6745, 7073-0488, 7021-10838, Dundas Greenhouse blower/7021-7857, 7021-4799 (England Stove), 7058-0382, 80472, 7021-1835, 7021-5855, Englander PU-4C442			
	<b>NBK 4C004</b>	FN004	<b>\$99.99</b>	
	Shaded pole blower, air flow @ 0.000 inch static pressure 89 CFM, 3000 RPM , Voltage rating 115 VAC, current rating 0.31 Amp, frequency 60/50 HZ, thermal protection auto, wheel diameter 3 inches, wheel width 1 7/8 In, Inlet diameter 2 5/8 In. Brands that use: WoodMaster & Heatmor. Equivalent to the Dayton 1TDP1, 4C004, Fasco B75, B75F			
	<b>NBK A166 / 702111307</b>	FNA166	<b>\$79.99</b>	
	Replaces Fasco no 702111307 / 7021-11307 Direct drive, CFM 145, Amps 0.75, 115v. 50 /60HZ. RPM 2720/3120 single speed, sleeve bearing, thermally protected, shaded pole, wheel 3-3/4 x 2-1/2 In, includes discharge mounting flange. Brands that use: Central Boiler E-Classic 2400, 2300 models 702110411			
<b>Replaces Fasco No. 70731455 or 70631543</b>			FN700787	<b>\$139.99</b>
Replaces 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				
<b>Replaces Fasco No. 702112231</b>			FN800789	<b>\$169.99</b>
Replaces Fasco No. 702112231 / 7021-12231 - 115 VAC, 1.3 Amps, 60 HZ. CFM 287, 3250 RPM, includes discharge mounting flange. Aspen 175 or Pro Series 200/400, Empyre ET, XT 200 & 650, Empyre Pro 400, 650, Cozeburn 650, Elite-Indoor 100/200. Equivalent to the ROTOM R7-RB938, PROFAB 814320, and Fasco 70525938				

## Mahoning Blowers

	<b>NBK 1TDP3 compatible with Mahoning Blower</b>	FN1TDP3	<b>\$79.99</b>	
	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 75 CFM, RPM 3020, Voltage Rating 115 Volts, Current Rating 0.45 Amps, Frequency 60 Hertz, Thermal Protection Auto. Compatible with the NBK 1TDP3, but does not include the fan cover.			
	<b>NBK 1TDR3 compatible with Mahoning Blower</b>	FN1TDR3	<b>\$129.99</b>	
	Compatible with Mahoning model 600 Draft Fan with Damper Connects with a rectangular flange Shaded Pole Blower, Mahoning Blower & Damper. Compatible with the NBK 1TDR3, but this does not include the fan cover.			
<b>Mahoning Blower</b>			MOH2000	<b>\$259.99</b>
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

	<b>Complete Shaver Damper Kit</b>	SDKitComplete	<b>\$259.99</b>	
	This is a great kit to Upgrade your Shaver Wood Furnace. 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 (FN1TDP3), Laminated Solenoid (LS001), Laminated Solenoid Bracket, Blower Wire Jumper, Fan Cover (FC546), Fan Cover Spring, Digital Aquastat (AQ007), Stainless Steel Dry Well (DW1204), and a How to install Diagram and a Wiring Diagram			
	<b>Shaver Auto Damper Kit with Digital Aquastat</b>	SDKitAQ	<b>\$189.99</b>	
	This kit is similar to the kit above, as you will have a lot more control of your Wood Furnace with the assistance of a 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 the Shaver Wood Furnace with a fan comparable to the Dayton 1TDP3 such as our NBK FN1TDP3! If your Shaver Wood Furnace has the 1TDN7 fan, you will need to get the FN1TDP3 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), and installation with wiring diagram. <b>**Fan is not Included in this Kit**</b>			
<b>Shaver Auto Damper Kit</b>			SDKit	<b>\$89.99</b>
This is a great kit to Upgrade your Shaver Wood Furnace. Your Shaver will smoke less in idle, burn hotter and cleaner. This will also reduce the amount of wood being burned as well. Installing this kit should take about an hour with only a handful of tools. This kit only works with Shaver Wood Furnaces with 1TDP3 fan! If your Shaver Wood Furnace has the 1TDN7 fan, you will need to get the 1TDP3 fan or the SDKitComplete. This kit includes: Laminated Solenoid (LS001), Laminated Solenoid Bracket, Blower Wire Jumper, Fan Cover (FC546), Fan Cover Spring, and a How to install Diagram. <b>**Fan is not Included in this Kit**</b>				



# Water Pumps



**Introducing Our New Circulating Pumps:** Step into a new era of wood boiler efficiency with our Velo Series Circulation Pumps. Specifically engineered for wood boiler systems, the Velo pumps combine cutting-edge technology with a sleek design to deliver precision in heat transfer, energy efficiency, and reliability. Discover the features that make Velo the name synonymous with performance in wood boiler:

- **High-Temperature Performance:**  
The Velo Series is designed to thrive in the elevated temperatures of wood boiler applications, ensuring consistent and reliable operation in demanding heating environments.
- **Premium Build Quality:**  
Crafted with precision and durability, Velo pumps feature a premium build using corrosion-resistant materials. This robust construction ensures longevity, reducing maintenance requirements for a worry-free heating
- **Variable Speed Precision:**  
Take command of your wood boiler system with Velo's variable speed precision. Adjust the water circulation rate to your specific heating needs, providing fine-tuned control, energy savings, and customized comfort.
- **Silent Operation Technology**
- **Effortless Installation and Maintenance**
- **Compact and Space-Efficient Design**
- **High Flow Dynamics**
- **Energy-Efficient Operation**



Elevate your wood boiler system to unprecedented levels of precision and performance with the Velo Series Circulation Pumps. Immerse yourself in the warmth of advanced technology, reliability, and energy efficiency. Choose Velo for a heating solution that redefines the standards of excellence in wood boiler circulation. \* **Rubber Gaskets Included** \*

## Velo 50



Model Detail	SKU	Price
Velo 50	VP50	\$129.99

*The Velo 50 circulating pump, Max Flow: 12 GPM, Max Head: 12 Feet, Minimum Fluid Temperature: 40 degrees F (4.4 degrees C), Maximum Fluid Temperature: 225 degrees F (107 degrees C), Maximum Working Pressure: 127 PSI, Volts: 115; Power frequency HZ- 60, Amperage: .85; RPM: 3350; HP: 1/25; Connection Sizes: 3/4", 1", 1-1/4" Flanged.*

## Velo 100



Model Detail	SKU	Price
Velo 100	VP100	\$159.99

*The Velo 100 circulating pump, Max Flow: 23 GPM, Max Head: 24 Feet, Minimum Fluid Temperature: 40 degrees F (4.4 degrees C), Maximum Fluid Temperature: 225 degrees F (107 degrees C), Maximum Working Pressure: 130 PSI, Volts: 115; Power frequency HZ- 60, Amperage: .92; RPM: 3250; HP: 1/8; Connection Sizes: 3/4", 1", 1-1/4" Flanged.*

## Velo 150

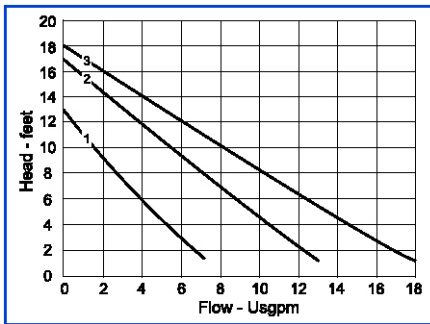


Model Detail	SKU	Price
Velo 150	VP150	\$199.99

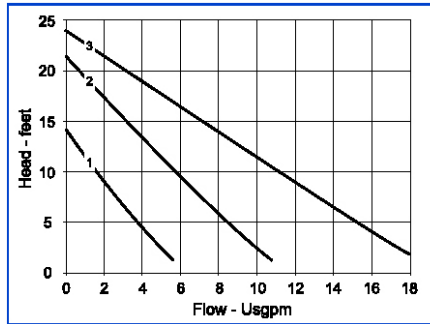
*The Velo 150 circulating pump, Max Flow: 17 GPM, Max Head: 36 Feet, Minimum Fluid Temperature: 40 degrees F (4.4 degrees C), Maximum Fluid Temperature: 225 degrees F (107 degrees C), Maximum Working Pressure: 124 PSI, Volts: 115; Power frequency HZ- 60, Amperage: .96; RPM: 3150; HP: 1/6; Connection Sizes: 3/4", 1", 1-1/4" Flanged.*

## Performance Charts

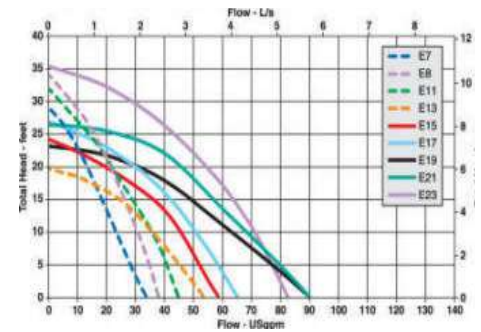
### Astro 30 - 3 Speed



### 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 250-3 (110223-307) - 0.98 - 1/20hp	ARM50-3	\$189.99

This is 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. 3 Speed Pump, Removable Check Valve, and a Lead Free Pump.

## 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	\$297.29

### Stainless Steel!

The Astro 2 series, model is a 115V, 3-speed flanged circulator designed for quiet operation and zero maintenance. In combination with stainless steel the Astro 2 line is intended to circulate water in open systems or potable water. The Astro 2 line is available for residential, small industrial, and commercial 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 the 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!"**

Recirculation System Pump

## Taco 007 Pumps



Model Detail	SKU	Price
<b>Taco 007 BF5-J</b> Cast Iron pump with a Bronze Cartridge	TP007	* <b>\$255.75</b>

**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) Includes gaskets. Flanges are sold separately

## Taco 009 Pumps



Model Detail	SKU	Price
<b>Taco 009 BF5-J Pump</b> Cast Iron pump with a Bronze Cartridge	TP009	* <b>\$405.96</b>

**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. Includes gaskets. The Flanges are sold separately

## Taco 011 Pumps



Model Detail	SKU	Price
<b>Taco 0011 BF4-J Pump</b> Cast Iron pump with a Bronze Cartridge	TP011	* <b>\$438.21</b>

**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. Includes gaskets. Flanges are sold separately

## Taco 013 Pumps



Model Detail	SKU	Price
<b>Taco 0013 BF3-J Pump</b> — with a Bronze Cartridge	TP013	* <b>\$500.03</b>

**The Taco 0013** 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. Includes gaskets. Flanges are sold separately



Model Detail	SKU	Price
<b>Taco 0013 F3</b> — Cast Iron Pump	TP013F3	* <b>\$514.50</b>

**The 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. Gaskets are included. Flanges are sold separately.

\* Prices are reflected from IMAP ( The minimum advertised price that a retailer can advertise for a product on the internet. The purpose of IMAP is to protect brick-and- mortar stores from being undercut by online retailers.) Prices per Taco IMAP from 4/01/2024 \*



**"Focus on being True to Yourself and Self-Sufficient, and you'll**

**Eventually find Like Minded People"**



# Flanges & Replacement Cartridges

## Freedom Flanges



Model Detail	SKU	Price
<b>3/4" NPT Flange</b> Cast Iron	PF034	<b>\$18.99</b>
<b>1" NPT Flange</b> Cast Iron	PF001	<b>\$18.99</b>

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
<b>3/4" NPT Full Port Isolation Flange</b>	IS034	<b>\$25.99</b>
<b>1 1/4" NPT Full Port Isolation Flange</b>	IS114	<b>\$59.99</b>

Armstrong Quality at a Great Price! This 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
<b>1" NPT Bluefin Full Port Isolation Flange</b>	IS001-B	<b>\$29.99</b>

Model Detail	SKU	Price
<b>Taco Swivel Isolation Flanges- 3/4"- Set of 2</b>	ISFTaco34	<b>\$47.99</b>

Model Detail	SKU	Price
<b>Isolation Ball Valve- 3/4" - With Drain</b> Isolation Flange with drain valve, 3/4"; includes flange, nuts, and bolts. Sold individually	ISFD34	<b>\$48.60</b>

## Taco Pump Replacement Cartridges



Model Detail	SKU	Price
<b>Replacement Cartridge for 007 (007-045RP)</b>	RC007	<b>\$129.99</b>
<b>Replacement Cartridge for 0011 (0011-010RP)</b>	RC011	<b>\$249.99</b>
<b>Replacement Cartridge for 0013 (0013-008RP)</b>	RC013	<b>\$255.99</b>

**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 by simply removing the cartridge, run warm water over it and try turning the cartridge until it frees up. Doing 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.

# Gaskets

## Taco Gaskets



Model Detail	SKU	Price
<b>Taco Gasket set- 2 qty</b>	Gaskets-T	<b>\$4.99</b>

## Universal Gaskets



Model Detail	SKU	Price
<b>Universal Gasket set- 2 qty</b>	Gaskets-U	<b>\$5.99</b>

# Our **Dragon** Plate Heat Exchangers



## Dragon PE



**Check out our NEW Site!**  
**[DragonbreathHX.com](http://DragonbreathHX.com)**

**Highest Quality & Designed for Maximum Performance and long life** - our plate heat exchangers have a compact rugged assembly, 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!

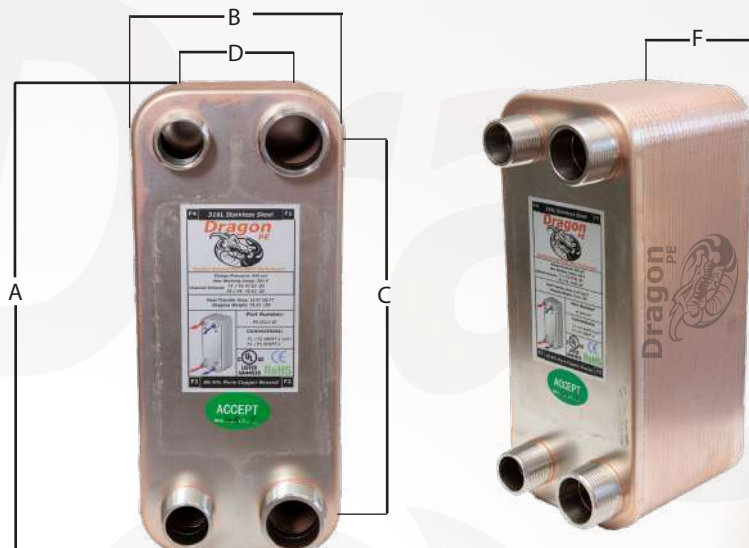
The plate packs are embossed with special corrugation patterns to promote high turbulence flow, which dramatically increases the heat transfer rates of the units thus making them a highly economical and effective solution for many process and heating applications.

Description & size reference are based on a well insulated home at 10 GPM; 180° F temperature water; average climate temperature of 39.1° F / 3.9° C.



Simplify your installation. A variety of Install kits available with diagrams for guidance. — Refer to Page 17

# Our **Dragon** Plate Heat Exchangers (Continued)



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

Model	Dimensions Inches (mm)					
	A	B	C	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 1-1/4" MNPT
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 x 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

**All Ports are 1" MNPT threads. \*\* 2 Ports are 1" and 2 Ports are 1 1/4" MNPT threads. \*\***

Model Number	Description & 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

**\*\*\* All 4 Ports are 3/4" MNPT \*\*\***



# Our **Dragon** Water to Air Heat Exchangers

Check out our **NEW Site!**  
[DragonbreathHX.com](http://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:

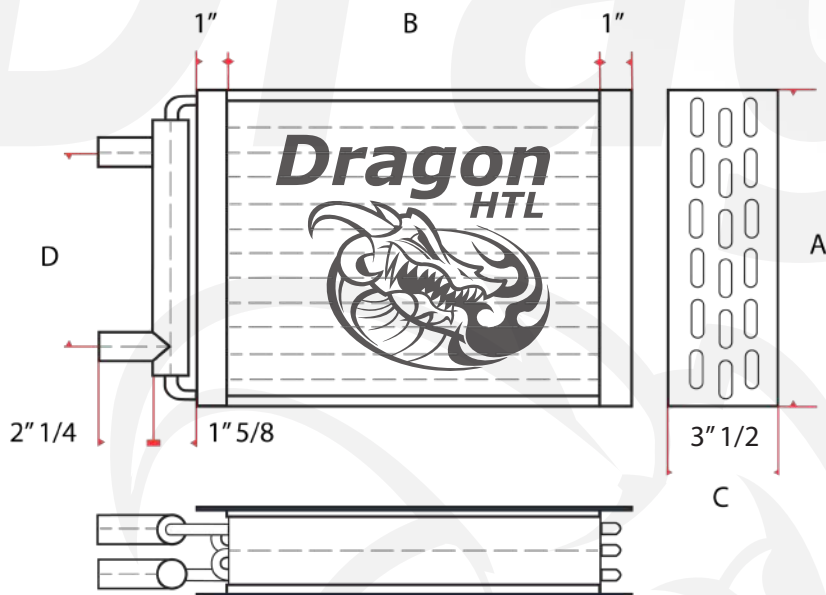
- Thickest you can get!
- K-Grade copper
- Price increasing rapidly
- 99.9% pure copper
- Hi-Temp solder used
- Ports long enough to use Sharkbite® fittings
- Install Kits available

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!**

# Water to Air Heat Exchanger Specifications

**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.



<b>EAT</b>	Entering Air Temperature 65° F
<b>EWT</b>	Entering Water Temperature 180° F
<b>LAT</b>	Leaving Air Temperature
<b>APD</b>	Air Pressure Drop: Water Column
<b>CFM</b>	Cubic Feet per Minute
<b>WPD</b>	Water Pressure Drop:ft for water (1 psi=2.31 ft)
<b>GPM</b>	Gallons per Minute
<b>FPI</b>	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 17**

Model												A	B	C	D	
12x12			CFM	600		800		1000					12	12	3.5	7 3/4
			APD	0.35	LAT	0.58	LAT	0.85	LAT		WPD					
	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						
12x18			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				
	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					
12x24			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				
	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					
16x16			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				
	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														A	B	C	D	
16X18			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						
	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						
18X18			CFM	1200		1400		1600		1800				18	18	3.5	13	
			APD	0.29	LAT	0.37	LAT	0.47	LAT	0.58	LAT	WPD						
	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						
18X20			CFM	1400		1600		2000		2200				18	20	3.5	13	
			APD	0.31	LAT	0.39	LAT	0.58	LAT	0.68	LAT	WPD						
	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						
19X20			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						
	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						
20X20			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
	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				
22X22			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				
	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				
22x30			CFM	1800		2000		2400		2800		3200						
			APD	0.22	LAT	0.26	LAT	0.35	LAT	0.46	LAT	0.59	LAT	WPD	22	30	3.5	17 1/2
	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				
22x25			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
	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				
24x24			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
	GPM	5	BTU	124219	128	130204	124	140360	118	148681	114	155644	110	0.44				
		10		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 <sup>304</sup> STAINLESS STEEL



Watch our install video on  
[Youtube.com/AltHeatSupply](https://www.youtube.com/AltHeatSupply)

## Dragon SA



**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.

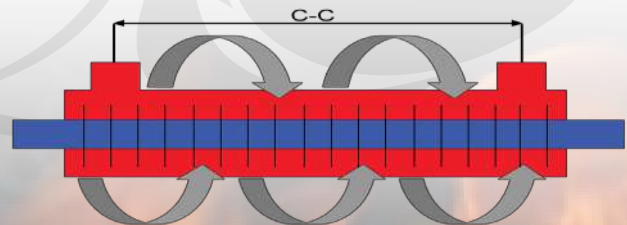
Traditional sidearms are made of two bare copper tubes. Thus, its capacity is decided by the length of sidearm-tubes and the heat transfer efficiency is very low. With fin-enhanced sidearms you not only need a shorter unit, but get bigger capacity and faster heating.

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	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 recommended!**  
**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	<b>\$264.98</b>
SA38Kit	<b>\$274.98</b>
SA34kitSB	<b>\$279.98</b>
SA38kitSB	<b>\$289.98</b>

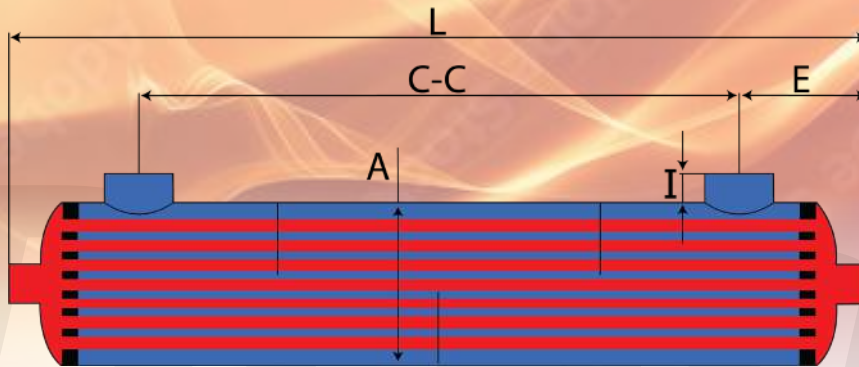
**Free Shipping on all orders over \$199.99**

**Check out our NEW Site!**  
[DragonbreathHX.com](http://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	Design Pressure	Design Temperature	Material
Shell Side	150 psi	230° F	SS316L
Tube Side	150 psi	250° F	SS316L

# 316L STAINLESS STEEL

SKU	Pool Capacity	Price
SS100	Up to 6,000	\$379.99
SS170	Up to 12,000	\$399.99
SS260	Up to 18,000	\$499.99
SS370	Up to 28,000	\$659.99
SS640	Up to 36,000	\$959.99
SS1200	Up to 46,000	\$1379.99



Pool & Spa Kits available to make for an easy installation. Diagrams included to guide you. (PSkit) —Refer to Page 18



## Dragon SS



Check out our NEW Site!  
[DragonbreathHX.com](http://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	<b>\$859.99</b>
CN400-CPVC	1 1/4" NPT	2" NPT	<b>\$1289.99</b>
CN650	1 1/2" NPT	2 1/2" NPT	<b>\$1765.99</b>

\*\*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	<b>\$796.99</b>
Ti200-CPVC	1" NPT	1 1/2" NPT	<b>\$1076.99</b>
Ti400-CPVC	1 1/4" NPT	2" NPT	<b>\$1452.99</b>
Ti650	1 1/2" NPT	2 1/2" NPT	<b>\$2726.99</b>

\*\*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

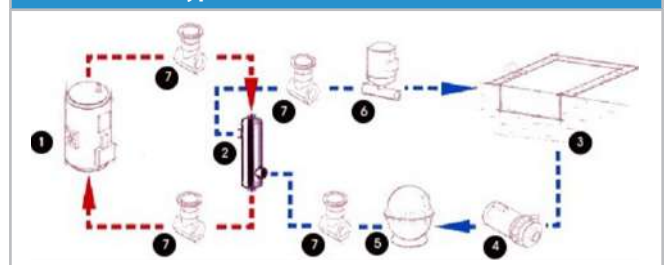
**See our new video!**  
[Youtube.com/AltHeatSupply](https://www.youtube.com/AltHeatSupply)



## 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

### Typical Pool Heater Installations



### Salt Water Swimming Pool Heaters

Due to the increasing popularity of salt water pools we offer the Bowman CN-P & CN-Ti Series heat exchangers, 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!**

Nominal Capacity			Boiler Water		Pool Water		
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	190	650,000	25	0.75	Up to 50,000	100	2.13

**"Only the Self-Sufficient Stand Alone-Most People Follow the Crowd and Imitate"**

**Current Market Pricing online at [www.AltHeatSupply.com](http://www.AltHeatSupply.com)**



# 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 a 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 (B)	Width (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	<b>\$699.99</b>

SKU	BTU / HR EWT-200°	BTU / HR EWT-180°	CFM- Amps	GPM	APD	Speed Controllable	Approximate FOH-WPD	Approximate WTD at 180°	HP
DBAH70	68765	65550	1001-0.5	12	.85	Yes	2.72	160°	1/6

SKU	Voltage	Hz	Full Amps	Phase	RPM	Mountable
DBAH70	115	60	3.7	1	1011	Multi-position

Install in a crawl space, closet or bonus room, house with electric heat, finished basement, make a cold part of the house 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 of 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 above 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

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

## New Options



In Line Thermostat  
TH002  
Page 11



Hydro Coil Kit  
for an easy installation  
HCKitsb  
Page 17

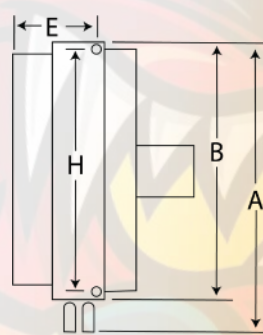


Variable Speed Controller  
SC36  
Page 11

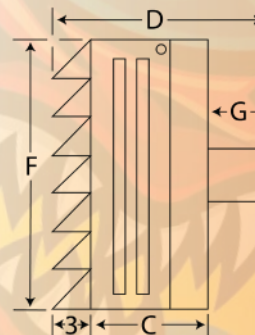
**Dragon Breath Space Heaters** mount just about anywhere. They are used to heat basements, garages, workshops, greenhouses, warehouses, and anything you can think of. These units come with a high quality fan, water to heat exchanger and adjustable louveres grills. The fans are speed controllable (SC36)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



Top View



Side View



## Unit Heater Dimensions

All Measurements are in inches

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

## Unit Heater Specifications

Internal specifications using water. Entering air temp = 65°

SKU	BTU / HR EWT-200°	BTU / HR EWT-180°	CFM-Amps	GPM	APD	Speed Controllable	Approximate FOH-WPD	Approximate WTD at 180°	HP
<b>DB70</b>	69,892	55,506	845-1.6	12	.11	SC36	2.75	170°	1/30
<b>DB100</b>	105,235	89,543	1107-1.6	14	.10	SC36	2.51	167°	1/20
<b>DB150</b>	161,163	137,567	2500-3.9	14	.20	SC36	2.41	159°	1/4
<b>DB200</b>	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)
	90° Sweat Elbow	SW912	1/2"	\$0.89	\$0.85 - 50 per bag
		SW934	3/4"	\$1.89	\$1.79 - 25 per bag
		SW901	1"	\$4.29	\$4.09 - 10 per bag
	MPT x Sweat	SWM0134	1" x 3/4"	\$11.59	\$11.29 - 10 per bag
		SWM34	3/4"	\$2.99	\$2.69 - 25 per bag
		SWM01	1"	\$7.49	\$7.09 - 20 per bag
	Sweat x FPT	SWF3401	3/4" x 1"	\$13.99	\$13.39 - 25 per bag
		SWF01	1"	\$8.29	\$7.99 - 10 per bag
	Sweat Coupler with Stop	SWC12	1/2"	\$0.79	\$0.69 - 50 per bag
		SWC34	3/4"	\$1.39	\$1.19 - 25 per bag
		SWC01	1"	\$2.49	\$2.29 - 25 per bag
	Sweat 45°	SW412	1/2"	\$1.59	\$1.39 - 50 per bag
		SW434	3/4"	\$2.79	\$2.49 - 25 per bag
		SW401	1"	\$6.49	\$6.19 - 25 per bag
	Sweat Street 90°	SWS912	1/2"	\$1.29	\$1.19 - 50 per bag
		SWS934	3/4"	\$2.49	\$2.19 - 25 per bag
		SWS901	1"	\$7.29	\$6.99 - 10 per bag
	Sweat Tee	SWT12	1/2"	\$1.69	\$1.49 - 25 per bag
		SWT34	3/4"	\$3.79	\$3.49 - 25 per bag
		SWT01	1"	\$9.99	\$9.19 - 10 per bag
	Sweat Reducer Coupler	SWR3412	3/4" x 1/2"	\$2.29	\$1.99 - 25 per bag
		SWR0134	1" x 3/4"	\$4.29	\$3.99 - 10 per bag
	Pex x Sweat	PMS12	1/2"	\$1.89	\$1.69 - 25 per bag
		PMS34	3/4"	\$2.99	\$2.69 - 25 per bag
		PMS01	1"	\$4.99	\$4.89 - 10 per bag
		PMS1234	1/2" x 3/4"	\$3.29	\$3.09 - 25 per bag
	Pipe Talon (hangs copper, pex & pvc to ceilings or walls easily)	PTT12	1"	\$0.50	\$0.45 - 50 per bag
		PTT34	3/4"	\$0.50	\$0.45 - 50 per bag
		PTT01	1/2"	\$0.65	\$0.60 - 50 per bag



Part #TFW12  
Only \$ 1.49 ea.

### Helpful Tip!

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



# Brass Fitting



Item	Description	SKU	Size	Price	5 or More
	FPT Brass Union	BRU34	3/4"	\$16.89	\$16.26
		BRU01	1"	\$20.89	\$19.63
	Brass Reducer Bushing	BRB0112	1" x 1/2"	\$6.29	\$5.47
		BRB0134	1" x 3/4"	\$5.79	\$4.90
	Brass Street 90°	BRS934	3/4"	\$9.54	\$8.99
		BRS901	1"	\$14.99	\$13.99
	Brass 90° Elbow FPT	BR934	3/4"	\$8.99	\$8.49
		BR901	1"	\$13.79	\$12.75
	2" Brass Nipple	BRN3402	3/4"	\$4.29	\$3.99
		BRN0102	1"	\$4.79	\$4.29
	4" Brass Nipple	BRN3404	3/4"	\$8.89	\$8.29
	Brass Tee FPT	BRT34	3/4"	\$11.29	\$10.33
		BRT01	1"	\$18.99	\$17.95
	Brass 45° FPT	BR434	3/4"	\$9.29	\$8.79
		BR401	1"	\$16.92	\$15.19
	Brass Coupling FPT	BRC34	3/4"	\$6.97	\$5.66
		BRC01	1"	\$11.99	\$10.99
	Ball Valve FPT	BV12	1/2"	\$6.99	\$6.29
		BV34	3/4"	\$10.99	\$9.99
		BV01	1"	\$16.99	\$15.99
		BV114	1 1/4"	\$24.99	\$23.99
	Boiler Drain	BD12	1/2"	\$7.99	\$7.49
		BD34	3/4"	\$8.99	\$8.49
	Swing Check Valve	CVS34	3/4"	\$11.99	\$10.99
		CVS01	1"	\$17.99	\$16.99
	In-Line Spring Check Valve	CV12	1/2"	\$10.99	\$9.99
		CV34	3/4"	\$15.99	\$15.29
		CV01	1"	\$20.99	\$19.99

# Black Malleable Fittings

Item	Description	SKU	Size	Price	5 or More
	Malleable Iron Union	BKU01	1"	\$10.99	\$10.49
		BKU114	1 1/4"	\$12.99	\$12.29
	Malleable Iron Bushing	BKB0112	1" x 1/2"	\$2.96	\$2.79
		BKB11412	1 1/4" x 1/2"	\$2.96	\$2.79
		BKB11434	1 1/4" x 3/4"	\$2.96	\$2.69
		BKB11401	1 1/4" x 1"	\$2.49	\$2.29
	Malleable Iron 90° Straight Elbow	BK912	1/2"	\$1.49	\$1.39
		BK934	3/4"	\$1.99	\$1.89
		BK901	1"	\$2.89	\$2.69
		BK9114	1 1/4"	\$4.19	\$3.99
	Malleable Iron Straight Tee	BKT12	1/2"	\$2.79	\$2.59
		BKT34	3/4"	\$3.79	\$3.59
		BKT01	1"	\$6.45	\$6.30
		BKT114	1 1/4"	\$10.75	\$10.57
	Malleable Iron Reducing Tee	BKT0112	1" x 1" x 1/2"	\$7.69	\$7.49
		BKT0134	1" x 1" x 3/4"	\$7.69	\$7.49
		BKT11412	1 1/4" x 1 1/4" x 1/2"	\$13.29	\$13.09
	Malleable Iron Plug	BKP12	1/2"	\$0.99	\$0.89
		BKP34	3/4"	\$1.19	\$1.09
		BKP114	1 1/4"	\$1.99	\$1.69
	Malleable Iron 90° Street Elbow	BKS901	1"	\$3.79	\$3.49
		BKS9114	1 1/4"	\$4.19	\$3.99
	Malleable Iron Reducing Coupling	BKC0134	1" x 3/4"	\$2.49	\$2.29
		BKC11412	1 1/4" x 1/2"	\$3.89	\$3.59
		BKC11434	1 1/4" x 3/4"	\$3.89	\$3.59
		BKC11401	1 1/4" x 1"	\$3.29	\$2.99
	Malleable Iron Coupling	BKC114	1 1/4"	\$3.89	\$3.69

## Remember Teflon Tape!

Part #TFW12  
Only \$ 1.49



## Helpful Tip!

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

# Black Nipples



Item	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	\$1.43
	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	\$1.52
	1" x 6" Black Nipple	BKN0106	\$3.89
	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	\$9.29



# SharkBite® Fittings & Tools



Item	Description	SKU	Size	Price	Bag Price (per unit)
	SharkBite® 90° Elbow	SB912	1/2"	\$7.59	\$7.39 - 12 per bag
		SB934	3/4"	\$9.99	\$9.59 - 12 per bag
		SB901	1"	\$17.99	\$17.49 - 6 per bag
	SharkBite® x MPT	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
		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
	SharkBite® x FPT	SBF12	1/2" x 1/2"	\$7.55	\$7.05 - 12 per bag
		SBF34	3/4" x 3/4"	\$8.65	\$7.85 - 12 per bag
		SBF01	1" x 1"	\$12.69	\$11.99 - 6 per bag
	SharkBite® Coupler	SBC12	1/2" x 1/2"	\$7.59	\$7.19 - 12 per bag
		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 Coupling	SBC3412	3/4" x 1/2"	\$8.99	\$8.49 - 12 per bag
		SBC0134	1" x 3/4"	\$15.99	\$14.99 - 6 per bag
	SharkBite® Stop	SBS12	1/2"	\$7.75	\$6.99 - 12 per bag
		SBS34	3/4"	\$7.75	\$6.99 - 6 per bag
		SBS01	1"	\$14.55	\$13.99 - 6 per bag
	SharkBite® Tee	SBT12	1/2"	\$10.75	\$10.45 - 12 per bag
		SBT34	3/4"	\$12.35	\$11.99 - 6 per bag
		SBT01	1"	\$21.99	\$21.49 - 3 per bag
	SharkBite® Reducing Tee	SBT343412	3/4" x 3/4" x 1/2"	\$11.99	\$11.39 - 6 per bag
		SBT341234	3/4" x 1/2" x 3/4"	\$12.59	\$11.99 - 6 per bag
		SBT341212	3/4" x 1/2" x 1/2"	\$13.99	\$12.99 - 6 per bag
		SBT010134	1" x 1" x 3/4"	\$22.99	\$22.59 - 3 per bag
	SharkBite® Check Valve	SBCV12	1/2"	\$17.99	\$17.49 - 3 per bag
		SBCV34	3/4"	\$19.99	\$19.49 - 3 per bag
		SBCV01	1"	\$45.99	\$45.49 - 3 per bag
	SharkBite® Ball Valve	SBBV12	1/2"	\$17.25	\$16.99 - 12 per bag
		SBBV34	3/4"	\$22.99	\$21.99 - 12 per bag
		SBBV01	1"	\$29.99	\$28.99 - 6 per bag
	SharkBite® Pressure Gauge	SBPG12	1/2"	\$28.99	N/A
		SBPG34	3/4"	\$35.99	N/A
		SBPG01	1"	\$59.99	N/A
	SharkBite® Temp Gauge	SBTG12	1/2"	\$59.99	N/A
		SBTG34	3/4"	\$55.99	N/A
		SBTG01	1"	\$72.99	N/A
	SharkBite® Disconnect Clip	SBDC12	1/2"	\$1.99	\$1.79 - 24 per bag
		SBDC34	3/4"	\$1.99	\$1.79 - 24 per bag
		SBDC01	1"	\$1.99	\$1.79 - 12 per bag
		SBDC123	1/2", 3/4" & 1"	\$5.61	N/A
	SharkBite® Disconnect Tong	SBDT12	1/2"	\$8.75	\$8.35 - 3 per bag
		SBDT34	3/4"	\$8.75	\$8.35 - 3 per bag
		SBDT01	1"	\$8.75	\$8.35 - 3 per bag
		SBDT123	1/2", 3/4" & 1"	\$26.25	N/A

## Unbeatable Quality!

# Pex Fittings & Tools



Item	Description	SKU	Size	Price	Bulk Price (per unit)
	Pex x MPT	PM1234	1/2" x 3/4"	\$3.25	\$3.15 - 25 per bag
		PM1212	1/2" x 1/2"	\$2.39	\$2.19 - 25 per bag
		PM3412	3/4" x 1/2"	\$3.99	\$3.29 - 25 per bag
		PM3434	3/4" x 3/4"	\$3.99	\$3.29 - 25 per bag
		PM0134	1" x 3/4"	\$6.99	\$6.29 - 10 per bag
		PM0101	1" x 1"	\$6.99	\$6.29 - 10 per bag
	Pex Coupler	PC12	1/2"	\$1.79	\$1.49 - 25 per bag
		PC34	3/4"	\$2.19	\$1.99 - 25 per bag
		PC01	1"	\$3.99	\$3.92 - 10 per bag
	Pex 90° Elbow	P9M1212	1/2" x 1/2" mpt	\$1.39	\$1.29 - 25 per bag
		P912	1/2"	\$1.97	\$1.79 - 25 per bag
		P934	3/4"	\$2.89	\$2.11 - 25 per bag
		P901	1"	\$4.89	\$4.59 - 10 per bag
	Pex Tee	PT12	1/2"	\$2.89	\$1.63 - 25 per bag
		PT343412	3/4" x 1/2"	\$3.99	\$3.16 - 25 per bag
		PT34	3/4"	\$3.99	\$3.10 - 25 per bag
		PT01	1"	\$6.89	\$4.99 - 10 per bag
	Pex x Male Sweat	PMS12	1/2"	\$1.89	\$1.69 - 25 per bag
		PMS1234	1/2" x 3/4"	\$3.29	\$3.09 - 25 per bag
		PMS34	3/4"	\$2.99	\$2.69 - 25 per bag
		PMS01	1"	\$4.99	\$4.89 - 10 per bag
	Pex x Female FPT	PF12	1/2"	\$3.29	\$3.09 - 25 per bag
		PF34	3/4"	\$4.99	\$3.42 - 25 per bag
		PF01	1"	\$7.69	\$5.99 - 10 per bag
	Pex Plug	PP12	1/2"	\$0.99	\$0.69 - 25 per bag
		PP34	3/4"	\$1.39	\$1.25 - 25 per bag
		PP01	1"	\$2.59	\$2.09 - 10 per bag
	Pex x Pex Ball Valve	PBV12	1/2"	\$8.99	\$7.99 - 12 per box
		PBV34	3/4"	\$12.99	\$11.99 - 12 per box
		PBV01	1"	\$19.99	\$18.99 - 6 per box
	Pex Ring	PR12	1/2"	\$0.39	\$0.30 - 25 per bag
		PR34	3/4"	\$0.45	\$0.40 - 25 per bag
		PR01	1"	\$0.60	\$0.55 - 25 per bag
	Stainless Steel Crimp Rings	SCR12	1/2"	\$0.45	\$0.40 - 100 per bag
		SCR34	3/4"	\$0.69	\$0.64 - 50 per bag
		SCR01	1"	\$0.69	\$0.64 - 50 per bag
	Pex Talon (hangs pex to ceiling or wall easily)	PTT12	1/2"	\$0.50	\$0.45 - 50 per bag
		PTT34	3/4"	\$0.50	\$0.45 - 50 per bag
		PTT01	1"	\$0.65	\$0.60 - 50 per bag
	Pex Waterline Kwik Cutter	PKK01	All	\$15.99	N/A

## Best Prices Around!

Current Market Pricing online at [www.AltHeatSupply.com](http://www.AltHeatSupply.com)

Version 22



# 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	\$12.99 per ft. Minimum 50 Feet

SKU	Description (Barrier A-Quality Pex)	Price
ValuFlex B	2 - 1" barrier pex	\$14.35 per ft. Minimum 50 Feet

## 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 lbs
- Thermal dead air pocket resulting in R-value 11
- Maximum Temperature - 220°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.



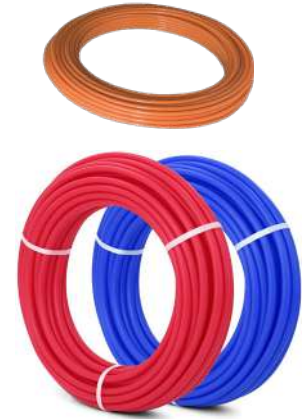
# Pex Tubing



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
1"	Pex Roll of 100 ft. (Red or Blue)	P01100	\$109.99
	Pex Roll of 300 ft. (Red or Blue)*	P01300	\$299.99
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
1"	Pex Roll of 100 ft.	PB01100	\$149.99
3/4"	Pex Roll of 100 ft.	PB34100	\$79.99
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 \$50.00 per chimney surcharge, plus shipping. If ordering 4 or more, please call us for a Freight Quote.

Compatible with



SKU	Chimney Extensions	Price
CX648cs	Chimney 6" X 48"	\$209.95
CX848cs	Chimney 8" X 48"	\$269.99
CX124cs	Chimney 10" x 24"	\$319.95
CX148cs	Chimney 10" x 48"	\$514.95
<b>Chimney Caps</b>		
CX601cs	Chimney 6" Deluxe Cap	\$108.95
CX801cs	Chimney 8" Deluxe Cap	\$129.95

## SUPERPRO



SKU	SuperPro Chimney Extensions	Price
CXSP624	SuperPro Chimney 6" x 24"	\$169.95
CXSP648	SuperPro Chimney 6" x 48"	\$319.95
CXSP824	SuperPro Chimney 8" x 24"	\$210.99
CXSP848	SuperPro Chimney 8" x 48"	\$429.95
<b>Chimney Caps</b>		
CXSP602	SuperPro Chimney 6" Deluxe Cap	\$119.95
CXSP802	SuperPro Chimney 8" Deluxe Cap	\$139.95



SKU	Guy Wire Bands	Price
GW601	Guy Wire Band 6" (works with both chimneys)	\$34.95
GW801	Guy Wire Band 8" (works with both chimneys)	\$47.95



# 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.



443 PS



822 PS



933 BB



1622 PS

SPECIFICATIONS	PUMP SENTRY MODELS			
	443PS	822 PS	933 BB <small>*Replaces Model SF512*</small>	1622 PS
Normal Mode Operation (Supplying Line Power) Input Voltage Range	100-132 VAC	100-132 VAC	120V	100-132 VAC
Maximum Pump Running Amps	5A	9A	10A	14A
Maximum Pump Startup Amps	12A	25A	30A	33A
Switchover Time	1/3 Sec	1/3 Sec	1/3 Sec	1/3 Sec
Back Up Mode Operation (supplying Battery Power) - Maximum Back Up Power	600 Watts	1200 Watts	1200 Watts Pure Sine Wave	1800 Watts
Maximum Impurt Current	60A	120A	120A	180A
Unit Dimensions (L x W x H) in.	13x6x3	17x6x3	17x6x3	21x6x3
Weight (lbs.)	10	15	18	22
Price	<b>\$599.00</b>	<b>\$759.00</b>	<b>\$795.00</b>	<b>\$969.00</b>

**How it Works:** When electricity is present, the 933BB & Pump Sentry will charge a battery and survey the power line. The instant a power failure occurs, the 933BB & 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 933BB & 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 933BB, & Pump Sentry operating manual for data relating to the size and number of batteries needed.



**EXAMPLE:**

