



# 2023 Heating Catalogue



**TEXT US YOUR ORDERS!**  
**(519)389-6245**  
[www.carsonsupply.com](http://www.carsonsupply.com)







A Unique Balance of  
**Performance, Efficiency and Value**  
for all your home heating and DHW needs

Intuitive V-10 Control  
The Latest In Advanced  
Control Technology

Full Boiler Capacity  
Available for DHW and Space  
Heating Performance

All Models Feature  
Common Parts  
for Easy Servicing

## NEW V-10 CONTROL INTERFACE

Express Setup – Program your boiler in seconds

- Remote Monitoring & Diagnostics
- Easy USB programmability
- Instant Visibility – Built-in warnings on the controller
- Real-time monitoring of DHW temperature
- Intuitive Alert System with detailed error messages
- Visible flame current data for troubleshooting
- Load combining
- Cascade up to 4 units

## MAXIMUM PERFORMANCE

- 95% A.F.U.E. – Reduce operating costs and heat your home faster
- Full boiler capacity available for both DHW and space heating
- State-of-the-art, ASME, 439 grade, SS firetube HX
- Brazed plate HX for DHW production
- Turndown ratio 10:1 means you have the power to heat your home during the coldest weather, yet reduce short cycling when the weather is mild
- North American built. All CX™ models are designed, engineered and assembled in Canada



## MORE BUILT-IN FEATURES

- Built-in 4 zone pump or valve control
  - In addition to the primary control – 5 pumps total
  - Replaces the need for external zone control
- Built-in factory wired primary pump
- Built-in combi block for DHW supply and ease of service from front of unit
- **MFZ Technology:** Patented moisture management system. Protects and ensures long life for all boiler components
- Built-in outdoor reset control of water temperature
- Built-in CSA/UL approved low water cut-off and manual reset high limit

## EASY TO INSTALL AND SERVICE

- Universal parts. With only one fan and one controller, servicing all CX™ models just got a lot easier.
- All combi block components can be easily replaced individually
- PVC/CPVC/PPs approved
- Vent lengths up to 50 ft. with 2" and 170 ft. with 3"
- Easy to inspect HX featuring a condensate draining system that cleans as it heats

# IBC



# FIVALCO

Gloss White Steel Finish

Large Diameter Coil for High Heat Transfer

R18 Spray Insulation

Acid Washed Anode-Less Tank

Stainless Steel Construction

Limited lifetime warranty to the original purchaser for residential applications servicing one household. 7-year limited warranty on commercial applications





# HPX™ HEAT PUMP

HPX 3  
HPX 5



*This product meets a stringent set of our company's internally defined sustainability standards*



HIGH-EFFICIENCY MONOBLOC  
HEAT PUMP



# IBC®



# HIGH EFFICIENCY CONDENSING WATER BOILERS

DEPENDABLE COMFORT  
SUPERIOR DESIGN



The Comfortable Choice  
For Your Home Heating Needs

Hydronic heating radiates a comfortable, cozy warmth. A difference you'll love to feel.

**MAC – Combination Boiler**  
■ Hydronic Heating (CH) +  
■ On-Demand Domestic  
Water Heating (DWH)

**MAH – Heat Only Boiler**  
■ Hydronic Heating (CH)

**Our energy efficient (HE) gas boilers** heat the water circulating throughout your home, continuously radiating a uniform and conformable heat.



PYTHON LINE SETS

# The Next Evolution of Line Sets.



## WHAT IS PYTHON

Python line sets are a PERT-AL-PERT and compression fitting system for both split and mini-split system applications, including heat pumps systems and is an alternative to copper line sets.

## FEATURES

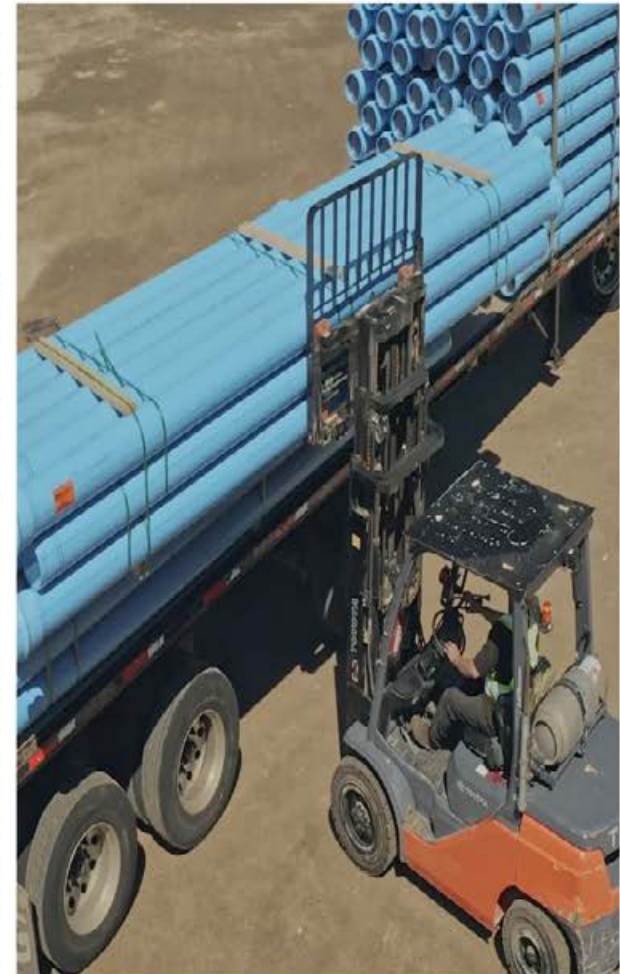
- Half the weight of copper
- Chemical, UV & kink resistant
- No need for a torch onsite



FLEXIBLE | LIGHTWEIGHT | KINK-RESISTANT | PROUDLY MADE IN THE USA



At Carson Supply, we believe in bringing you the utmost, competitive products on the market today and providing you with the best after-sales support in the business. We are proud to be home to the leading technical experts in Plumbing, HVAC, Precast and Waterworks.





Located in Port Elgin, Ontario, Carson supply has been in business for over 40 years. We are a family run business, consisting of many well-known individuals providing expertise in services including quotations, design assistance, technical assistance and daily deliveries to your warehouses and job sites. Carson Supply is the leading provider of wholesale Plumbing, HVAC, Waterworks and Precast across Ontario and beyond.



HVAC



PLUMBING



WATERWORKS



CUSTOM MOULDING



PRECAST



HYDRONICS

## GET IN TOUCH

*We'd love to hear from you*



[info@carsonsupply.com](mailto:info@carsonsupply.com)

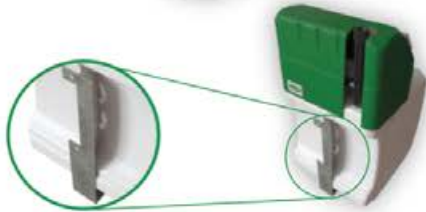


*Text or call*  
519-389-6245



*Pickup or Delivery*

# System Feeder



- Simple, user-friendly digital control
- Adjustable pressure set point between 0-45 psi
- Digital control has an alarm contact output and LED warning indicator
- Tilted 4" easy-fill access located at the front of the tank
- 4.5 USG reservoir tank stores suitable replacement fluid to automatically maintain system pressure
- Translucent reservoir tank with molded-in fluid gauge provides leak detection
- Minimizes flood damage if there is a system leak by having a limited amount of make-up fluid.
- Fluid drained for service is easily pumped back into the system
- UL listed power supply plugs into any standard 115 VAC outlet
- Comes with a wall bracket

- Provides energy savings by removing combustion-side encrustations developed during operation
- Restores the surface area of the heat exchanger to near original levels
- Maximizes heat exchanger efficiency
- Reduces maintenance costs
- Security bottle seal
- No pouring or mixing needed
- Each bottle comes with an extension nozzle to help access hard to reach areas inside heat exchangers
- Single-step combustion cleaner for stainless steel heat exchangers
- Available in 1 L (33 oz.) bottles

## Clean F-Steel







# COMBUSTION



**DC710C1** measures CO & O2, while the app calculates CO2, ratio & efficiency. Measures dual temperatures for flow & return or radiator balancing.

Measure & Manage: Simple as 1. 2. 3. 1. Connect Your Device (smartphone or tablet, Android or iPhone). Simply select the instrument you'd like to use from the list of available TPI Tools. 2. Measure & View Readings. Test results are easy to understand and available in table or graph form depending on the measurement parameters. 3. Manage the Data. Every report created is color coded and includes data, time & GPS locations. Easily save, email, print!

# TEMPERATURE

## GET IT DONE

- ✓ MEASURE IT.
- ✓ MANAGE IT.
- ✓ DOCUMENT IT.



**SP341** use with any sub-mini, K-type temperature probe to measure and view "live" temperature readings. Use two SP341 Smart Probes to measure differential. Ambient, contact, and immersion probes are all available, see page 15. Can be field calibrated when using a liquid temperature probe.

# PRESSURE



**SP620** measure and view seven units of pressure. Test duct pressure, perform static pressure checks. Adjust appliance regulators, set delivery pressures, measure pressure drop and more!

# CO & CO2



**SP100** Carbon Monoxide probe to easily check ambient CO in work and living spaces - remotely!

**SP1000** Carbon Dioxide probe to easily check ambient CO2 in work and living spaces - remotely!





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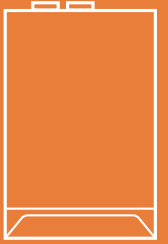
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# HYDRONICS

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MAC



**Features:**

- Combination (COMBI) models also offer instant domestic hot water and home heating in one appliance, eliminating the need for a traditional tank-style water heater
- State-of-the-art technology is continually tested and improved by our experienced team of Engineers.
- Advanced materials and engineering ensure years of worry-free performance, quiet operation, a sleek appearance and small wall-mounted or floor-standing footprint to save space
- Save Energy and Money! The [AI] control automatically modulates the gas input, using more gas when needed to provide heat or domestic hot water (dishwasher, washer, and shower running simultaneously) and less gas when use is low; reducing energy use and utility costs
- ECO Friendly! With our High Energy Efficient boilers, nearly all gas used is converted into heat. Reducing CO2 emissions and ENERGY STAR® certified, with up to 95% AFUE\* rating, our HE boilers are an environmentally conscious choice you can feel good about

**Warranty:**

- 5-year warranty on parts
- 10-year limited warranty on heat exchanger

MODELS			INPUT MBH <sup>(1)</sup>				DHW	AHRI CERTIFIED RATINGS		
Type	Wall Mounted	Floor Standing	CH Mode MAX	CH Mode MIN	DHW Mode MAX	DHW Mode MIN	Flow Rate GPM <sup>(4)</sup>	Heating Capacity MBH <sup>(1)(2)</sup>	Net Water MBH <sup>(1)(3)</sup>	Efficiency AFUE <sup>(2)</sup>
COMBI	MAC-115	MACF-115	93.5	16.6	115.5	16.6	2.5	85.4	74	95%
	MAC-150	MACF-150	125	22.0	153	22.0	3.5	113	98	95%
	MAC-205	MACF-205	164	29.5	205	29.5	5.0	153	133	95%

DIMENSIONS	WALL MOUNTED	FLOOR STANDING
Height	30"	43 3/4" (Bottom of boiler to top of safety valve)
Width	17-3/4"	24 3/4" (Overall with manifold)
Depth	13 9/16" (115/150) 21 1/2" (205)	17 1/2" (115/150) 23 1/2" (205)

Combination Boilers





# SFC

## SUPERFLOW

Combination Boilers

### Features:

- 95% AFUE with full ASME-rated heat exchanger
- 2 independent copper waterways embedded in a cast aluminum block
- A total of 5 moving parts – Unparalleled in the industry (Fan, Pump, Bypass Valve, Gas Valve & Damper)
- New illuminated touchscreen control display panel
- Contractor friendly, reduced internal parts, easy to install, maintain and service.
- 30-year track record, 2 million installations worldwide
- Innovative state of the art electronic control
- Compatible with standard Propylene Glycol
- Built-in bypass valve to prevent temperature fluctuations (SFC 199)
- No need for a 3-way valve or secondary DHW plate heat exchanger
- Will accept a 0-10 VDC signal
- Packaged with a high-efficiency variable speed pump (ECM)
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Advanced modulating temperature control

### Warranty:

- 5-year parts warranty
- 10-year limited heat exchanger warranty

Model	CH Output Range (btuh)	DHW Output Range (btuh)	Flow Rate (GPM @ 80F rise)	Dimensions (HxWxD)
SFC 99	14,800-88,900	14,800-84,000	2.1	27-1/2"x15-3/4"x11-3/4"
SFC 125	15,800-88,900	15,800-112,000	2.8	30"x17-3/4"x13-1/2"
SFC 199	27,100-111,000	27,100-175,000	4.4	30"x17-3/4"x 21-1/2"



# IBC®

### Features:

- Express Setup – Program your boiler in seconds
- Remote Monitoring & Diagnostics
- 95% A.F.U.E. – Reduce operating costs and heat your home faster
- Built-in 4 zone pump or valve control
- MFZ Technology: Patented moisture management system. Protects and ensures long life for all boiler components
- Universal parts. With only one fan and one controller, servicing all CX™ models just got a lot easier
- North American built. All CX™ models are designed, engineered and assembled in Canada



Combination Boilers

### Warranty:

- 5-year parts warranty
- 15-year limited heat exchanger warranty



Model	CH Output Range (btuh)	Dimensions (HxWxD)
CX 150	15,000-150,000	34-3/4" x 8-9/16" x 17-1/8"
CX 199	20,000-199,000	34-3/4" x 20" x 17-1/16"





### Features:

- Heat Only model pairs perfectly with our optional H2O indirect hot water heaters available in 40 to 80 gallon capacities
- Save Energy and Money! The [AI] control automatically modulates the gas input, using more gas when needed to provide heat or domestic hot water (dishwasher, washer, and shower running simultaneously) and less gas when use is low; reducing energy use and utility costs
- ECO Friendly! With our High Energy Efficient boilers, nearly all gas used is converted into heat. Reducing CO2 emissions and ENERGY STAR® certified, with up to 95% AFUE\* rating, our HE boilers are an environmentally conscious choice you can feel good about



Heating Only Boilers

### Warranty:

- 5-year warranty on parts
- 10-year limited warranty on heat exchanger



MODELS			INPUT MBH <sup>(1)</sup>				DHW	AHRI CERTIFIED RATINGS		
Type	Wall Mounted	Floor Standing	CH Mode MAX	CH Mode MIN	DHW Mode MAX	DHW Mode MIN	Flow Rate GPM <sup>(4)</sup>	Heating Capacity MRH <sup>(3)(2)</sup>	Net Water MBH <sup>(3)(3)</sup>	Efficiency AFUE <sup>(2)</sup>
<b>HEAT ONLY</b>	MAH-75	MAHF-75	75	16.6	NA	NA	NA	68.2	60	92%
	MAH-100	MAHF-100	93.5	16.6	NA	NA	NA	85.4	74	95%
	MAH-125	MAHF-125	125	22.0	NA	NA	NA	113	98	95%
	MAH-165	MAHF-165	164	29.5	NA	NA	NA	153	133	95%

DIMENSIONS	WALL MOUNTED	FLOOR STANDING
Height	30"	43 3/4" (Bottom of boiler to top of safety valve)
Width	17-3/4"	24 3/4" (Overall with manifold)
Depth	13 9/16" (75/100/125) 21 1/2" (165)	17 1/2" (75/100/125) 23 1/2" (165)



UCS



**Features:**

- LABOR SAVER-- Manifold included.
  - The pre-manufactured primary/ secondary piping saves time and money on the job site
- Gas Adaptive Technology
  - Automatically detects the type of gas being used, LP (propane) or Natural
- Anti-wind Function
  - Control automatically adjusts the fan speed to prevent loss of flame and lockouts
- Flame Stabilization
  - Control allows the flame to stabilize before modulating, preventing flame dropouts and recycling
- Exchanger Preheat Function
  - For instant domestic hot water at desired temperature
- Additional Safety Features
  - Compatible with every type of hydronic heating system

Heating Only Boilers



**Warranty:**

- 5-year warranty on parts
- 10-year limited warranty on heat exchanger

RATINGS												
MODEL	INPUT MBH <sup>(1)</sup>		AHRI CERTIFIED RATINGS			VENTING		DIMENSIONS				
	MAX	MIN	Heating Capacity MBH <sup>(1)(2)</sup>	Net Water MBH <sup>(1)(3)</sup>	Efficiency <sup>(2)</sup>	Coaxial <sup>(4)</sup> Diameter (Inches)	2-Pipe <sup>(4)</sup> Diameter (Inches)	Water Content (Gallons)	Width	Height	Depth	Ship Weight Lbs.
UCS 240	241	36	216	188	95% AFUE	3" / 5"	3"	.8	17-3/4"	31-1/16"	23"	145
UCS 380	379	35	348	303	95% Thermal	4" / 6"	4"	4.6	23-5/8"	50"	25-1/2"	255





### Features:

- Mount > Connect > Plug In > Enjoy endless heat
- Copper waterways embedded in a cast aluminum block
- Wireless communication means cascade system setup is as simple as enabling the built-in cascade function on up to 8 units and connecting the system sensor. No communication cables required
- Illuminated touchscreen control display panel
- Innovative state of the art electronic control
- Compatible with standard Propylene Glycol
- Up to 96% AFUE with full ASME-rated heat exchanger
- Packaged with a high efficiency variable speed pump (ECM) for increased efficiency
- Outdoor reset technology increases efficiency by lowering the water temperature automatically.
- Advanced modulating temperature control

Heating Only Boilers



### Warranty:

- 5-year parts warranty
- 10-year limited heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
SFB 99-1	14,800-89,000	32.5"x17.7"x10.9"
SFB 120-1	13,000-108,000	32.5"x17.7"x10.9"



# IBC®

### Features:

- Touch Screen Boiler Controller:
  - Express setup
  - Remote monitoring & diagnostics
  - Easy USB programmability
  - Cascade up to 4 units
  - Intuitive alert system
  - Simplified load pairing
  - Visible flame current data for troubleshooting
- 95% AFUE
- Built-in 4 zone pump or valve control in addition to the primary control. 5 pumps total. Replacing the need for external pump controls
- PVC/CPVC/PPs approved – venting up to 240ft (each side) on the VX 110
- MFZ Technology: Patented moisture management system. Protects and ensures long life for all components in the boiler.
- Built-in CSA/UL approved LWCO and manual reset high limit.
- Connect your IBC Indirect Water Tank directly to the boiler without a primary loop.
- Turn down ratio of up to 6.5:1 means you have the power to heat your home in the coldest weather, yet reduce short cycling when the weather is mild.
- Built-in outdoor reset control of water temperature.
- Reverse flow detection.



## VX™ SERIES

### Warranty:

- 5-year parts warranty
- 15-year limited heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
VX 110	16,200-101,500	28-1/8" x 17-3/4" x 16-7/8"
VX 150	22,000-138,500	28-3/16" x 18-13/16" x 18-5/8"
VX 199	29,200-183,700	28-3/16" x 20-7/16" x 19-5/8"





### Features:

- Touch Screen Boiler Controller:
  - Express setup
  - Remote monitoring & diagnostics
  - Easy USB programmability
  - True native BACnet
  - Intuitive alert system
  - Simplified load pairing
  - Visible flame current.
- Better efficiency up to 96% AFUE.
- Multiple zone pump control – up to 4 zones. Replacing the need for external pump controls.
- PVC/CPVC/PPs approved – venting up to 480ft on the SL 10-85 G3 & SL 14-115G3.
- MFZ Technology: Patented moisture management system. Protects and ensures long life for all components in the boiler.
- Built-in CSA/UL approved LWCO and manual reset high limit.
- Connect your IBC Indirect Water Tank directly to the boiler without a primary loop.
- Turn down ratio of up to 8:1 means you have the power to heat your home in the coldest weather, yet reduce short cycling when the weather is mild.
- Built-in outdoor reset control of water temperature.
- Reverse flow detection.

### Warranty:

- 5-year parts warranty
- Lifetime limited residential heat exchanger warranty
- 10-year limited non-residential heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
SL 10-85G3	10,100-79,000	32" x 20" x 13"
SL 14-115G3	13,300-109,000	32" x 20" x 13"
SL 20-160G3	19,000-147,000	32" x 21-3/4" x 14-3/4"
SL 30-199G3	30,000-181,300	32" x 22-1/2" x 16-1/4"
SL 26-260G3	24,900-239,000	35-1/2" x 25" x 17-1/2"
SL 40-399G3	38,400-383,000	40" x 27" x 19-1/2"
SL 40-399G3 Ti	38,400-383,000	40" x 27" x 19-1/2"



# IBC®

### Features:

- Touchscreen Control:
  - Express setup
  - Precise burner modulation control
  - Easy USB programmability
  - Intuitive alert system with detailed error message
  - Vast array of performance data for troubleshooting
  - Load combining and zoning
  - Multi-boiler communication for network applications up to 24 boilers without additional controls
  - With 24 networked boilers turn down ratio is 240:1
  - End switch, 0-10 VCD or 4-20mA control compatible
  - Full BACnet capability included
  - Primary pump and zone pump controller – up to 4 zones
- Turn down ratio of 10:1
- MFZ Moisture management protocol
- Reverse flow detection
- Outdoor reset control of water temperature
- CSA/UL approved low water cut-off and manual reset high limit
- CSD-1 Compliant
- 439 stainless steel heat exchanger
- Better thermal efficiency – up to 97%
- Condensed flue gasses clean vertical flue tubes while draining
- Custom water flow baffling to ensure even heat transfer and long life
- Easy to Install & Service
- PVC/CPVC/PP/SS venting materials approved
- Direct vent lengths – up to 170' each side
- Available in either NG or LP factory set or field convertible



## EX SERIES

### Warranty:

- 2-year parts warranty
- 10-year limited heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
EX 400	38,800-388,000	59-1/16" x 28" x 23-11/16"
EX 500	48,500-485,000	59-1/16" x 28" x 23-11/16"
EX 700	67,900-679,000	59-1/16" x 28" x 23-11/16"
EX 850	82,450-824,500	59-1/16" x 28" x 23-11/16"





### Features:

- Touch Screen Boiler Controller:
  - Fault history with full diagnostics
  - Three pump control
  - Modbus RTU BMS port
  - True native BACnet
  - Intuitive alert system
  - Simplified load pairing
  - Visible flame current.
- Up to 96.5% thermal efficiency
- Cascade up to 8 heaters
- 7:1 turn down
- Zero side clearances
- Forklift and pallet-jack accessible base
- Welded stainless steel heat exchanger
- Built-in service light

Heating Only Boilers

### Warranty:

- 2-year parts warranty
- 10-year limited heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
IFIRE 300B	289,500	35-3/8" x 45-3/8" x 37"
IFIRE 400B	383,000	35-3/8" x 45-3/8" x 37"
IFIRE 500B	480,000	35-3/8" x 45-3/8" x 37"
IFIRE 650B	624,000	42-3/4" x 54-5/8" x 45-1/4"
IFIRE 800B	768,000	42-3/4" x 54-5/8" x 45-1/4"
IFIRE 1000B	960,000	48-1/2" x 62-3/4" x 50"



# BURNHAM®

## Commercial Boilers

### CAST IRON



#### Features:

- 84% AFUE
- Electronic ignition
- Equipped with IQ Control System™
- 70 – 280 MBH (7 sizes)
- Industry standard tapping locations, allows easy, direct replacement for thousands of existing boiler installations
- Solid, reliable, American-made cast iron heat exchanger, designed to promote turbulent water flow within the section for efficient heat transfer
- Consists of the Intelligent Hydronic Control and IQ Option Panel

#### Warranty:

- Lifetime limited warranty



Model	Thermal Efficiency	Input MBH	Water Capacity (Gallons)	Dimensions (Height x Width x Depth)
303	84%	70	2	41" x 12-3/4" x 33"
304	84%	105	3	41" x 18-1/2" x 33"
305	84%	140	4	41" x 21-1/2" x 33"
306	84%	175	5	41" x 21-1/2" x 33"
307	84%	210	6	41" x 24-3/4" x 33"
308	84%	245	7	41" x 27-3/4" x 33"
309	84%	280	8	41" x 30-3/4" x 33"





**Features:**

- The “Dutch Oven” concept of completely surrounding the firebox with cooling water prevents damage from overheating and eliminates the need for firebrick.
- Domestic hot water coil included.
- Designed for use as an add-on to the primary heating source.
- No messy fire tubes to clean.
- Compact size uses less of your valuable floor space.
- Boiler unit made of steel plate for long life.
- With proper installation, the unit may be used as a gravity unit during a power failure.
- CAN/CSA B366.1 & UL 391

**Warranty:**

- 6-Year limited warranty on unit

Model	Water Capacity (USG)	Fire Door (Height x Width)	Firebox (Dia. x Depth)	Dimensions (Height x Width x Depth)
DO110	31	12" x 14"	20" x 23-1/4"	32" x 24-1/4" x 29-1/2"
DO180	54	12" x 14"	23-1/2" x 30"	36" x 27" x 41-1/2"



# IBC®

Electric Boilers

### Features:

- 4 Sizes: Space heating up to 41 MBH
- Primary or supplemental heat to existing hydronic systems
- Electric Boilers contain dual titanium elements for improved performance and reliability, providing high resistance to scaling and corrosion
- Years or worry free performance
- Easy set-up for either Set-Point or Outdoor Reset operation
- Modulating electric elements provide better temp control
- Can be used in high temp applications up to 190°F
- No venting is required. No combustion means no greenhouse gas emissions
- 100% efficient
- Propylene Glycol compatible
- Low upfront cost

### Warranty:

- 1-year element/pump warranty
- 5-year parts warranty



# EBX™ SERIES

Model	CH Output Range (btuh)	Dimensions (HxWxD)
4KW	13,648	18-5/8"x7-3/4"x18-5/8"
8KW	27,296	18-5/8"x7-3/4"x18-5/8"
10KW	34,120	18-5/8"x7-3/4"x18-5/8"
12KW	40,944	18-5/8"x7-3/4"x18-5/8"

## MINI ULTRA BTH



### Features:

- Safety control to limit excessively high temperatures
- 120V pump power supply
- 24V electrical supply for thermostat and other accessories
- 30 PSI safety relief valve
- Drain/purge valve
- 208/240 VAC electrical supply
- Piping can be connected in multiple ways, ensuring an effortless installation
- Highly energy-efficient and green alternative
- Silent and discreet

### Warranty:

- 15-Year warranty on the reservoir
- 2-Year warranty on electrical and mechanical parts

## mini BTH 240 VAC / 60 Hz / 1 phase<sup>1</sup>

Model	Power <sup>2</sup>		Amps <sup>3</sup>	Electrical Elements	Stages	Recommended electrical supply <sup>4</sup>		
	kW	BTU/h				Cu Wire	Al Wire	Breaker
MINI BTH 3	3	10 236	12.5	1 x 3kW	1	12	10	20
MINI BTH 4.5	4.5	15 354	18.8	1 x 4.5kW	1	10	10	30
MINI BTH 6	6	20 472	25.0	1 x 6kW	1	8	6	40
MINI BTH 7.5	7.5	25 590	31.3	1 x 3kW + 1 x 4.5kW	2	8	6	40
MINI BTH 9	9	30 708	37.5	2 x 4.5kW	2	8	6	50
MINI BTH 12	12	40 944	50.0	2 x 6kW	2	6	4	70

## mini ULTRA 240 VAC / 60 Hz / 1 phase<sup>1</sup>

Model	Power <sup>2</sup>		Amps <sup>3</sup>	Electrical Elements	Stages	Recommended electrical supply <sup>4</sup>		
	kW	BTU/h				Cu Wire	Al Wire	Breaker
MINI ULTRA 3	3	10 236	12.5	1 x 3kW	1	12	10	20
MINI ULTRA 4.5	4.5	15 354	18.8	1 x 4.5kW	1	10	10	30
MINI ULTRA 6	6	20 472	25.0	2 x 3kW	2	8	6	40
MINI ULTRA 7.5	7.5	25 590	31.3	1 x 3kW + 1 x 4.5kW	2	8	6	40
MINI ULTRA 9	9	30 708	37.5	2 x 4.5kW	2	8	6	50
MINI ULTRA 12	12	40 944	50.0	2 x 6kW	2	6	4	70





# IBC®

## Features:

- High Energy Efficiency: Up to a 400% efficiency (COP up to 4) significantly reduces energy bills compared to traditional systems.
- The HPX has an advanced temperature control capability to vary its output ensuring a consistent indoor temperature with less temperature fluctuations.
- Outdoor reset function automatically varies the outlet water temperature to further enhance comfort and efficiency.
- Enhanced Vapor Injection (EVI) design increases efficiency, lowers ambient temperature operating range, and increases maximum supply water temperature.
- Contractor Friendly Monobloc Design: Refrigeration licenses not required for installation.
- Easily connect to North American thermostats with 24V AC interface.
- Increased Reliability: With fewer moving parts than traditional heating systems, the HPX™ requires little maintenance and is less likely to break down.
- Flow-proving and high limit safeties built-in.
- Air-to-water heat pumps use renewable energy from the air to heat a home. This means that they produce fewer greenhouse gas emissions than traditional heating systems.
- Enhanced Air Quality: No consumption of fossil fuels means no CO2 emissions.

## Warranty:

- 5-year parts warranty
- 15-year limited heat exchanger warranty



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Model	CH Output Range (btuh) @ 45°F ambient temp, 106°F outlet temp	Clg. Output Range (btuh) @ 95°F ambient temp., 54°F outlet water temp	Electrical	Min. Circuit Ampacity
HPX3	9,600 - 44,200	15,500-34,500	208/230-1-60	25.2 A
HPX5	14,400 - 56,600	21,400-47,600	208/230-1-60	33.3 A





RADIANT HEATING  
under the surface is where the magic begins





*“Our expertise, products, and support save our customers energy, money, and resources while improving their indoor environmental quality.”*



**Taco**  
**Comfort Solutions**<sup>®</sup>  
A Taco Family Company





**GRUNDFOS** 

be think innovate





**Features:**

- Front Diagnostic Lights
- Switchable Priority
- Built-in Priority Protection
- Simplified Wiring
- Premium Sealed Relays
- Compact Design
- Fuse Protected
- 100% Factory Tested
- Isolated End Switch
- Contractor Friendly PC Board Layout
- Universal Thermostat Compatibility
- 24 Volt Power Output for hard wired thermostats
- Field Replaceable Transformer

**Additional -EXP Features:**

- Add-on Power Control Plug
- Built-in; Post Purge and Pump Exercise Functions
- Switchable Primary Circulator Output
- Two boiler contacts, utilizes full functionality of Mod-Con boilers
- Expandable to 20 Zoning Panels (120 zones if all are 6 zone panels)
- Interface with -EXP Zone Valve Controls

## Switching Relay Controls

**Warranty:**

- Extended 3 Year Warranty

Product Number	Number of Zones	Transformer	Maximum Combined Load	Dimensions (HxWxD)
SR501	1	120V	12A	6-5/8"x4-7/8"x2-3/8"
SR501-EXP	1	120V	12A	6-5/8"x4-1/4"x2-3/8"
SR502	2	120V	15A	7"x10-1/4"x2-3/4"
SR503-EXP	3	120V	15A	7"x10-1/4"x2-3/4"
SR504-EXP	4	120V	20A	7"x10-1/4"x2-3/4"
SR506-EXP	6	120V	20A	8"x12-1/4"x3"



## Zone Valve Controls

### Warranty:

- Extended 3 Year Warranty

### Features:

- Front Diagnostic Lights
- Switchable Priority
- Built-in Priority Protection
- Simplified Wiring
- Works with 2, 3, or 4-Wire Zone Valves
- Compact Design
- Fuse Protected
- 100% Factory Tested
- Two Pump End Switches can control up to 3 pumps; System, Secondary and DHW
- Contractor Friendly PC Board Layout
- Universal Thermostat Compatibility
- 24 Volt Power Output for hard wired thermostats
- Field Replaceable Transformer

### Additional -EXP Features:

- Add-on Power Control Plug
- Built-in; Post Purge and Pump Exercise Functions
- Two boiler contacts, utilizes full functionality of Mod-Con boilers
- Expandable to 20 Zoning Panels (120 zones if all are 6 zone panels)
- Interface with -EXP Switching Relays

Product Number	Number of Zones	Transformer Rating	Transformer Voltage	Dimensions (HxWxD)
ZVC403	3	40 VA	120V	7"x10-1/4"x2-3/4"
ZVC404	4	40 VA	120V	7"x10-1/4"x2-3/4"
ZVC405	5	80 VA	120V	8"x12-1/4"x3"
ZVC406	6	80 VA	120V	8"x12-1/4"x3"
ZVC404-EXP	4	80 VA	120V	8"x12-1/4"x3"
ZVC406-EXP	6	80 VA	120V	8"x12-1/4"x3"





## PC702

### Two Stage Boiler Reset Control

#### Features:

- Control — Microprocessor PI control; This is not a safety (limit) control
- Packaged weight — 1.5 lb. (670 g)
- Dimensions — 4-3/4" H x 2-7/8" W x 7/8" D (120 x 74 x 22 mm)
- Approvals — CSA NRTL /C; Meets ICES & FCC regulations for EMI/RFI
- Ambient conditions — Indoor use only, 32 to 105°F (0 to 40°C), < 90% RH non-condensing
- Power supply — Class 2, 24 V  $\pm$ 10% 50/60 Hz 3 VA (Powered by Taco -Exp Control) Relays — 24 V (ac) 5 A 1/6 hp, pilot duty 240 VA
- DHW Demand — 20 to 260 V (ac) 2 VA

#### Sensors Included:

- NTC thermistor, 10 k $\Omega$  @ 77°F (25°C  $\pm$ 0.2°C)  $\beta$ =3892
- Outdoor Sensor M 2036 and Universal Sensor 071.



## 261

### Boiler Control, Two Stage Boiler and Setpoint



## 274

### Boiler Control, One tN4, Four Stage Boiler and DHW, Setpoint

The Boiler Control 261 is designed to stage two on/off boilers using Outdoor Temperature Reset. It can be used in applications ranging from a single zone of baseboard, multiple baseboard and fan coil zones, to dedicated setpoint heating in commercial buildings. This control regulates a single heating water temperature through Outdoor Temperature Reset and/or setpoint target control. It is capable of controlling (stage and rotate) up to 2 on/off boilers, or a single 2 stage boiler, as well as the system pump.

#### FEATURES

- Exercising
- Test sequence to ensure proper component operation
- Warm weather shut down, automatic boiler differential
- Outdoor temperature reset, setback input for energy savings
- 2 Stage boiler control
- Quick setup for easy installation and programming of control
- User comfort adjustment to increase or decrease building space temperature
- Advanced settings to fine-tune building requirements
- Powered boiler pump output

The Boiler Control 274 is designed to stage multiple boilers using Outdoor Temperature Reset. It can be used in applications ranging from a single zone of baseboard, multiple baseboard and fan coil zones, to dedicated domestic hot water heating in commercial buildings. This control regulates a single heating water temperature through Outdoor Temperature Reset and/or setpoint/DHW target control. It is capable of controlling (stage and rotate) up to 4 on/off boilers as well as the system pump.

#### FEATURES

- Equal run time rotation, automatic boiler differential
- DHW pump operation, DHW priority (optional)
- Test sequence to ensure proper component operation
- Exercising, powered system pump output
- Optional boiler pump(s) operation, quick setup for easy installation and programming of control
- Outdoor temperature reset, warm weather shut down
- Advanced settings to fine-tune building requirements



# CPU-0550



## FEATURES

- Boiler run time rotation
- Outdoor temperature reset
- Pump Exercising
- Multiple applications built into the control
- DHW priority (60 minutes)
- Boiler protection
- Boiler setpoint and differential control
- Pump Sequencer
- Stage up to 3 On/Off boilers or single modulating boiler (0-10 VDC)
- Multiple mixing options: Injection, floating action, modulating
- Multiple pump selection control
- Warm weather shutdown
- 2 Year Limited Warranty



# 268

Boiler Control, Nine Stage Boiler and DHW, Setpoint

The Boiler Control 268 is designed to stage multiple boilers using Outdoor Temperature Reset. It can be used in applications ranging from baseboard or mixed radiant heating systems, to dedicated domestic hot water heating in commercial buildings. This control regulates a single heating water temperature through Outdoor Temperature Reset and/or Setpoint/DHW target control. It is capable of controlling (stage and rotate) up to 9 on/off boilers as well as the system pump.

## FEATURES

- Warm weather shut down, automatic boiler differential
- Quick setup for easy installation and programming of control,
- Advanced settings to fine-tune building requirements
- Powered system pump output
- Exercising, DHW pump or valve operation
- Control up to 9 on-off boilers, boiler pump operation (optional)
- Test sequence to ensure proper component operation
- Outdoor temperature reset, setback input for energy savings
- DHW priority (optional), equal run time rotation





The Snow Melting Control 654 is designed to operate electric or hydronic equipment to melt snow or ice from any surface including driveways, walkways, patios, business entrances, parking ramps, loading docks, hospital entrances, helipads or car wash bays. The surface temperature for snow melting is controlled automatically to reduce operating energy costs. The 654 has an automatic start and stop function when used with the Snow/Ice Sensor 090 or 094. Automatic start with a timed stop is available when used with the Snow Sensor 095. The 654 can operate a dedicated hydronic boiler or a mixing device. Isolation relays are required to operate line voltage pumps. Electric systems require a separate GFCI and electrical relay contactor.

## 654

Snow Melting Control, tekmarNet, Electric or Hydronic Boiler, Mixing

### FEATURES

- EconoMelt , manual override
- Snow melt zone tracking, scenes
- Manual start with timer, programmable schedule
- Snow melt zoning with priority, tandem snow / ice detection
- Away key, exercising
- Slab protection, storm
- Cold weather cut-out, Idling
- Automatic snow / ice detection, supports both in-slab and retrofit aerial sensors
- tekmarNet® communication compatible, warm weather shut down



**090**

Snow, Ice Sensor, In-Slab, 65 FT (20m) Wire



**091**

Snow, Ice Sensor Socket



**094**

Snow, Ice Sensor, In-Slab, 208 FT (63 m) Wire



**095**

Aerial Snow Sensor



# SNO-0550



The new snow melt control utilizes the HBX Optical Snow Sensor (SNO-0110). This snow/ice sensor utilizes optics rather than continuity based on/off sensors typically used by other manufacturers. The sensor provides HBX snow melt controls with feedback on snowfall rate and slab temperature.

## FEATURES

- Wi-Fi enabled controller
- Remote access via Apple® and Android™ Smartphone or tablet devices
- Four (4) Pre-set snowfall settings
- Injection or mixing valve control
- System and Injection pump exercising
- Multiple slab demand modes (Idle, Standby, Force Melt)
- Anticipation demand setting (1 – 7 days)
- Warm weather installation test function
- Warm weather and cold weather shutdown
- Resettable fusing
- All system information displayed on the main screen

# SNO-0110

## Optical Snowmelt Sensor



- Remote mountable
- Includes 100' sensor wire
- Leveling locations on sensor base
- Integrated slab sensor

Controls



## FEATURES

- Pulse width modulation control
- Digital display
- Heat or cool setpoint control
- Normally open and normally closed relay
- Applications include: Pool Heating, Slab Sensor, Commercial Car Wash Bay

## 150

Boiler Control, One Stage Setpoint Control



## FEATURES

- Multiple input voltages (24/120/208/240 volts) with no common wire required on electrical loads greater than 2.5 amps uninterrupted
- Reduces inventory - replaces most competitive mechanical and electronic refrigeration controls
- Electronic temperature accuracy/digital display
- Alarm output (with selectable delay - up to 99 minutes)
- Adjustable anti-short cycle delay, Set-point locking function
- Multiple sensor option can be used with 1 or 4 sensors

## 16E09-101

Electronic Refrigeration Temperature Control





**tekmar**<sup>®</sup>  
A **WATTS** Brand



**FEATURES**

- Auto heating cycle
- Backlight
- Radiant floor heating
- Pulse width modulation
- Freeze protection
- Includes slab sensor 079
- Floor and air temperature control
- Outdoor and floor temperature display

---

**519**

Radiant Thermostat, One Stage Heat (Includes Slab Sensor 079)

 **REHAU**



**FEATURES**

- Easy to use 3-wire programmable thermostat
- Pump exercise
- Air/floor priority
- Converts from °F to °C
- Optional floor sensor available (part # 236497-001)

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**236487-002**

Dual Sensing Digital Thermostat



## Features:

- Whisper quiet blower operation
- The AHU is designed to work with any hot water appliance with pressures up to 150 PSI
- Internet capable controller
- High efficiency ECM motor with centrifugal fan
- High efficiency fin tube coils
- Can manage external pump
- Fused high and low voltage circuits
- OpenTherm control compatible
- Easy to access and service

## Warranty:

- 5-year parts warranty
- 5-year limited heating coil warranty



Air Handlers

Model	CH Output @ 180°F (btuh)	Max. Airflow @ rated static 0.5" w.c. pressure	Supply Air Opening	Water Pipe Connections	Dimensions (HxWxD)
AHU 800	66,800	1,134 cfm	16" x 19.5"	3/4"	32"x17.6"x26"
AHU 1200	80,600	1,707 cfm	19.5" x 19.5"	3/4"	38"x21.1"x23"
AHU 1600	99,300	2,219 cfm	23.1" x 19.5"	3/4"	42"x24.5"x23"
AHU 2000 LV	110,300	2,219 cfm	23.1" x 19.5"	3/4"	42"x24.5"x23"



Air Handlers

**Features:**

- Available from 12-36 kBTUH models
- Provides options for heating requirements
- Slide-out blower assembly with multiple electrical connection locations
- Easy-to-access control panel and one-point electrical connections
- Upflow, horizontal, left and right configurations for installation flexibility
- Controls both factory and field installed circulating pumps
- Freeze protection activates at 40°F

**Warranty:**

- 5-year no hassle warranty
- Optional 10-year limited warranty available

B	C	R	M	A3	9	24	S	3P	3
Series	Blower Motor	Horizontal Drain Pan Position	Airflow Config.	Slab No.	Metering Device	Unit Size	Line Voltage Connection	Heat Kit Option	Voltage
<b>B</b>	<b>C:</b> 3-Speed PSC motor <b>V:</b> Variable speed high eff. ECM motor	<b>R:</b> Right-hand <b>O:</b> No cooling coil	<b>M:</b> Multi-pos.	A1 A2 A3 etc.	<b>0:</b> No Cooling <b>1:</b> Piston (R-410A) <b>9:</b> Non-bleed HP-A/C TXV (R-410a)	<b>Slant Coil:</b> 12, 18, 24, 25, 30, 36 (Side return capable)  <b>A-coil:</b> 31, 37, 42, 48, 60	<b>S:</b> Stripped wire	<b>Heat Options:</b> <b>00:</b> No heat <b>Hot Water Coil w/Pump &amp; Valve Assembly</b> <b>2P:</b> 2 row hot water coil (sizes 12-30,36) <b>3P:</b> 3 row hot water coil (all sizes) <b>4P:</b> 4 row hot water coil (sizes 31,37-60) <b>Hot Water Coil w/o Pump &amp; Valve Assembly</b> <b>2N:</b> 2 row hot water coil(sizes 12-30, 36) <b>3N:</b> 3 row hot water coil (all sizes) <b>4N:</b> 4 row hot water coil (sizes 31, 37-60)	<b>1:</b> 208/240V, 60Hz, 1ph. <b>3:</b> 120V, 60Hz, 1ph. <b>4:</b> 120V, 60Hz, 1ph. & 130°F aquastat





### Features:

- Meets installation requirements for flexible configurations
- Provides options for heating requirements
- Compatible with multiple water heat systems
- Offers solutions to alleviate installation constraints
- Combine with an ADP coil to create a complete air handler and reduce SKUs
- Easy attic access for simple installation
- Controls both factory and field installed circulating pumps
- Freeze protection activates at 40°F

### Warranty:

- 5-year no hassle warranty
- Optional 10-year limited warranty available

MX	E	08	00	N	2	E
Series	Blower Motor	Size/ Airflow	Hot Water Coil	Line Voltage Connection	Voltage	Heat Size
<b>MX</b>	<b>C:</b> 3-Speed PSC motor <b>E:</b> 5-Speed ECM motor	<b>08:</b> 800 CFM <b>12:</b> 1,200 CFM <b>16:</b> 1,600 CFM <b>20:</b> 2,000 CFM	<b>00:</b> No hot water coil <b>WP:</b> Hot water coil with pump <b>WN:</b> Hot water coil with out pump <b>AP:</b> Hot water coil with 130°F aquastat & pump <b>AN:</b> Hot water coil with 130°F aquastat without pump	<b>N:</b> Stripped wire	<b>2:</b> 208/240V, 60Hz, 1ph. with time delay <b>4:</b> 120V, 60Hz, 1ph. with time delay	<b>B:</b> 3 row hot water coil (available on 08 & 20 models) <b>C:</b> 4 row hot water coil (available on 08, 12 & 16 models) <b>E:</b> No heat (electric heat kits sold separately)



### FEATURES

Hydronic heat produces a uniform and temperature supply air temperature eliminating hot/cold spikes in the home.

- Up flow - return air select left or right side
- Uniform temperature distribution

Warranty: 5 year replacement parts warranty.

Air Handlers

Model	Heating Capacity (btuh @ 5 gpm, 180°F supply water, 0.5" w.c.)	Airflow High	Motor	Electrical	Dimensions Inches (HxWxD)
AH-U-S4A-24-P16	85,100	800 CFM	4 psd. PSC	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-S4A-24-E16	85,100	800 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-S2A-30-E16	56,500	1000 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-L4A-36-P16	110,300	1180 CFM	4 psd. PSC	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-L4A-36-E16	110,300	1200 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-L2A-36-E16	68,000	1200 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
AH-U-L2B-48-E16	79,300	1600 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"



## FEATURES

The Lifebreath Clean Air Furnace combines an air handler with a built-in heat recovery ventilator that provides exceptional health benefits for everyone in your home. All Lifebreath Clean Air Furnaces are available with an optional ECM motor for maximum energy savings.

- Built-in HRV
- Up flow - return air select left or right side
- Easy maintenance and complete year round climate control

Warranty: Lifetime warranty on heat recovery (aluminum) core, 5 year warranty on energy recovery (encephalitic) and replacement parts.

Air Handlers

Model	Heating Capacity (btuh @ 5 gpm, 180°F supply water, 0.5" w.c.)	Airflow High	Motor	Electrical	Dimensions Inches (HxWxD)
CAF-U-S4A-24-P16	85,100	890 CFM	4 psd. PSC	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
CAF-U-S4A-24-E16	85,100	800 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
CAF-U-L4A-36-P16	110,300	1200 CFM	4 psd. PSC	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
CAF-U-L4A-36-E16	110,300	1180 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
CAF-U-L2A-48-P16	68,000	1388 CFM	4 psd. PSC	120V-1ph-60Hz	32-1/2"x19"x29-1/2"
CAF-U-L2A-48-E16	68,000	1600 CFM	ECM	120V-1ph-60Hz	32-1/2"x19"x29-1/2"





**Features:**

- Quick and easy install
- Cabinets constructed of heavy duty corrosion resistant steel
- Finished in a grey baked enamel
- Motors are completely enclosed with automatic thermal overload protection
- All coils tested to 350 PSIG



Hydronic Fan Coils

Model	Heating Capacity (btuh @ 4.7 gpm, 180°F supply water)	Airflow High	Electrical	Dimensions Inches (HxWxD)
SUH-030-H	25,500	520 CFM	115V-1ph-60Hz	13-1/2"X22"X15-1/2"
SUH-058-H	47,300	1220 CFM	115V-1ph-60Hz	16-1/2"X27"X18"
SUH-084-H	63,600	1610 CFM	115V-1ph-60Hz	19-1/2"X31-1/2"X17-3/4"
SUH-133-H	110,300	2600 CFM	115V-1ph-60Hz	24"X37"X17-1/2"
SUH-245-H	203,400	4740 CFM	115V-1ph-60Hz	31-1/2"X46-1/2"X19-1/2"



## FEATURES

- Stainless Steel tank construction
- Acid washed anode-less tank
- Gloss white painted rolled steel finish
- R18 spray insulation
- Large diameter coil for high heat transfer

Warranty: Limited lifetime warranty to the original purchaser for residential applications servicing one household.  
7-year limited warranty on commercial applications

Indirect Water Heaters

Model	Storage Volume (USG)	Max. First Hour Rating (GPH)	Required Boiler Output (MBH)	Required Heating Coil Flow Rate (GPM)	Height (IN)	Diameter (IN)
FV 42	42	172	126,244	8.8	46	21-5/8
FV 52	52	204	139,892	8.8	55-7/8	21-5/8
FV 66 Crawl	66	243	168,000	8.8	40	29
FV 66	66	243	168,000	8.8	54-1/8	24-3/8
FV 80	80	283	201,308	13.2	63-9/16	24-7/16
FV 106	106	379	276,372	13.2	62	28



# IBC®

### Features:

- Made of durable high quality AISI 444 stainless steel, coil made of 316L stainless steel, which provide added durability and corrosion resistance.
- 100% pickled and passivated to ensure maximum corrosion resistance
- 2" thick polyurethane foam insulation, reducing standby tank temperature losses.
- Includes 10k domestic hot water tank sensor
- Top DHW connections (IWT 40/50/65), side boiler connections, increasing installation efficiency while saving time and money on material and labour.
- High output MAX models available in both 80 and 119 gallon models
- Durable steel jacket

### Warranty:

- 1-year limited parts warranty
- 10-year limited warranty or limited lifetime warranty with online registration for residential use and 5-year limited warranty for commercial use on the tank and heat exchanger.



Model	Storage Volume (USG)	Max. First Hour Rating @ 135 °F (GPH)	Required Boiler Output (MBH)	Required Heating Coil Flow Rate (GPM)	Height (IN)	Diameter (IN)
IWT 40	38.3	204	120,000	14	45-1/4	22
IWT 50	50.7	259	140,000	14	57	22
IWT 65	63.9	309	180,000	14	54-1/2	24-1/2
IWT 80	77.4	356	200,000	14	64-1/2	24-1/2
IWT 119	113	474	240,000	14	65-3/4	28
IWT 80-MAX	77.4	719	420,000	25	64-1/2	24-1/2
IWT 119-MAX	113	753	420,000	25	65-3/4	28



**Features:**

- 444 grade Stainless Steel vessel
- 316L grade stainless steel connection fittings
- Two 1.5" NPT ports for the boiler circuit
- Two 1.5" NPT ports for the system circuit
- 3/8" ID thermal well for temperature control
- 2" thick High Density foam insulation
- Galvanized and Powder Coated steel jacket
- All welds are made by a high quality, automated TIG welding process, eliminating the possibility of crevice corrosion. The entire tank is then pickled and passivated both inside and outside improving overall corrosion resistance. There is no substitute for stainless steel when it comes to water heating and storage.

Buffer Tanks

**Warranty:**

- 15 Year prorated residential warranty

Model	Storage Volume (USG)	Piping Connections	Max. Tank Working Pressure	Height (IN)	Diameter (IN)
IBT 25	23.2	1-1/2" NPT	150 psi	29-1/8	22
IBT 52	52.6	1-1/2" NPT	150 psi	56-3/4	22





## Argosy Buffer Tanks

### Features:

The Argosy Buffer Tank by Flexcon Industries is the only pressurized composite buffer tank on the market.

Argosy Buffer Tanks will never corrode and are half the weight of steel buffer tanks. These advantages can reduce labor costs on installations while being a cost effective way to improve system efficiency by reducing heat pump short cycling during low load periods and hydraulically separating the source from the distribution system. Rated to 180 degrees F at 75 PSI and 140 degrees F at 100 PSI, our NSF approved polypropylene core wrapped in a blend of continuous strand fiberglass and a high temperature resin makes the Argosy Buffer tank perfect for hydronic and geothermal heating and cooling, low mass boiler systems and chilled water applications. Argosy tanks are insulated with a closed cell foam that provides a r-value that is unmatched by the competition and has a heat loss of less than 1 degree/hour. Tanks are available in sizes of 22, 40, 55, 80, and 120 gallons and all come with 4 side ports, a thermal well (40 to 119 gals), vent, vacuum breaker and drain.

### Warranty:

- 5-year limited warranty

Model	Volume (USG)	System Connections (in.)	Thermal Well	Height (in.)	Diameter (in.)
BUF22	22	1-1/4	NO	35	21
BUF40	40	1-1/4	YES	56	21
BUF55	55	1-1/4	YES	73	21
BUF80	80	2	YES	54	29
BUF120	119	2	YES	74	29



SIZES	FLOW RATE: (GPM)	CODE		
		NPT	SWEAT	PRESS
1"	11	549506A	549596A	549566A
1-1/4"	18	549507A	549597A	549567A
1-1/2"	26	549508A	549598A	549568A
2"	37	549509A	549599A	549569A

## 548

### SEP4™ Multifunction (4-in-1) Hydraulic Separator

## PRODUCT FEATURES

- **Four functions combined into one device:**  
Minimizes components and labor costs for system requiring primary/secondary piping. Separate air and dirt separators not required.
- **Internal upper and lower mesh element:**  
Causes micro-bubbles to collect and coalesce for efficient air separation. Deflects and collects both ferrous and non-ferrous debris down to 5 microns size.
- **Powerful neodymium rare-earth magnet:**  
Attracts ferrous impurities with 2 ½ times the removal performance of a standard dirt separator.
- **Unique geometry and design:**  
Prevents pump conflict by hydraulically de-coupling primary and secondary circuits. Preserves design flow in all circuits.
- **Anti-rotation/anti-vibration pinned float:**  
Creates space between float and air vent wall to prevent float hang-up from debris formation. Enables needle valve to reliably vent out collected air.
- **Additional value-added features:**  
Convenient union press, sweat and NPT connections, ½" thermowell tap, pre-formed insulation jacket and easy-to-use drain valve.



# CALEFFI

## Hydronic Solutions

### Features:

Hydraulic separator.  
Epoxy resin coated steel body.  
300 series stainless steel internal baffle.

Includes mounting bracket. Thermowell tap: 1/2" straight female Max. working pressure: 150 psi. Working temperature range: 32—212°F.



SIZES	FLOW RATE: (GPM)	CODE		
		NPT	SWEAT	PRESS
1"	11	548006A	548096A	54866A
1-1/4"	18	548007A	548097A	548067A
1-1/2"	26	548008A	548098A	548069A
2"	37	548009A	548099A	548069A

**549**  
Hydro Separator



### Features:

- Hydraulic separator.  
Steel body.
- MPT Connections

SIZES	FLOW RATE (GPM)	NPT
1"	11	1"
1-1/4"	18	1-1/4"

**Hydraulic Separator**



## L-Line Brazed Plate Heat Exchangers

### Designed for Maximum Performance

Brazed plate heat exchangers consist of stainless steel plate plates, which have embossed chevron patterns. The plates are turned 180° to each other, causing the plate ridges to intersect, and creating a lattice of intersecting channels. The fluids can flow in counter-current or co-current way.

Plate/ Pool Exchangers



## 316L SS Pool + Spa Heat Exchangers For Chlorinated Applications

Model	Nominal Capacity Btu/h @ 140°F	Flow (USGPM)	
		Hot water Side	Cold water Side
S 70	70,000	6.60	44.91
S 130	130,000	7.13	52.83
S 180	180,000	7.93	55.48
S 250	250,000	9.25	71.33
S 300	300,000	10.57	49.25
S 500	500,000	14.53	95.10
S 1000	1,000,000	25.10	185.24





**IBC**<sup>®</sup>



Model	Nominal Capacity Btu/h	Flow (USGPM)	
		Hot water Side	Cold water Side
T-100	100,000	4.6	10.0
T-200	200,000	7.5	16.0
T-300	300,000	9.5	20.0
T-400	400,000	9.1	70.0

Pool Exchangers

Titanium **Pool + Spa**  
Heat Exchangers  
For Salt Water Applications



**FV-4**  
Automatic Air Vent

Series FV-4 Automatic Vent Valves are used in commercial and residential hydronic heating applications to provide automatic air venting for hot or cold water distribution systems. It consists of a brass body construction with male NPT connection, brass cover, air vent with silicone rubber seal, polyethylene float with valve plug, and automatic vent.

Series FV-4M1 has a high temperature rating and is ideal for use with glycol systems or for use as an anti-vacuum device. It can also be installed to permit the separation and dispersal of air while fluid is circulating in the system. Can be disassembled for inspection and cleaning.

Maximum Pressure: 150psi (10 bar)

Temperature Range: 33°F - 240°F (5°C - 116°C)

Sizes: 1/8"-1"

Automatic Air Vents



**Hy-Vent**  
Automatic Air Vent

You already know Taco Hy-Vents® as the industry standard for dependable, long-life service. The high-capacity, float-style vent can be placed either on the boiler or at the high points throughout the system. With threaded connections— 1/8", 1/4", 1/2" and 3/4" —and operating pressure ratings up to 250 psi, these brass-body, nickel-plated vents meet the system requirements of even your largest installations. Vents are easily serviceable, if needed, by simply unscrewing the vent cap. Taco Hy-Vents® are available in a variety of styles including the Slim-Line Hy-Vent and High Pressure Hy-Vent.



The Taco 4900 Series ® Bronze Air Separators are designed for the complete elimination of air from closed loop heating and cooling systems up to a maximum temperature of 240°F and a maximum pressure of 150 PSI. The principle on which the 4900 Series ® Bronze Air Separators is based is a patented and proven method of removing gases from water: the PALL ring process. The ultimate micro-bubble separation of the PALL Ring Process eliminates the damaging effects and irritating noise caused by unwanted system air.

**Sizes:** 3/4"-2"

## 4900 Series Air Separator



### Features:

- Anti-rotation/ anti-vibration pinned float
- Large-diameter chamber
- Anti-corrosion coalescing mesh (Glass-Filled Nylon)
- Robust stainless steel float linkages
- Corrosion resistant
- Optional service check valve
- High performance, long-lasting air elimination

**Sizes:** 3/4"-2"

## 551 Discal® Air Separator



## 5461

Discal Dirtmag® Air & Magnetic Dirt Separator

### Features:

- Anti-rotation/ anti-vibration pinned float
- Large-diameter chamber
- Anti-corrosion coalescing mesh (Glass-Filled Nylon)
- Robust stainless steel float linkages
- Corrosion resistant
- Optional service check valve
- High performance, long-lasting air elimination
- Low velocity zone and large dirt capture area
- Robust mesh construction (dirt particles as small as 5 microns)
- Powerful neodymium rare-earth magnets

Sizes: 3/4" - 1-1/4"



## 5463

Dirtmag® Magnetic Dirt Separator

### Features:

- Low velocity zone and large dirt capture area
- Robust mesh construction (dirt particles as small as 5 microns)
- Powerful neodymium rare-earth magnets
- Top access port

Sizes: 1" - 2"





# CALEFFI

Hydronic Solutions



**Features:**

- Removes both ferrous and non-ferrous impurities
- Removable magnetic ring and large drain valve
- Large low velocity zone dirt collection
- Separates dirt particles down to 5 microns and up to 100% ferrous impurities
- With isolating valves, can also be used as a dosing point to inject chemical additives.

**Sizes:** 3/4" - 1"

## NA5453

Dirtmag® Magnetic Dirt Separator



This versatile NSF 61 ASSE 1017 mixing valve provides the ultimate performance for domestic hot water installations. The 5000 Series allows for domestic hot water storage at temperatures high enough to increase the effective storage capacity of a water heater, kill harmful bacteria and still be delivered at a safe 120°F or less.

**Sizes:** 1/2"-1"

**Available in:** SWT, NPT, PEX, PRESS, CPVC

## 5000 Series

Lead Free Mixing Valve



**LF1170**  
Lead Free Mixing Valve

This lead free hot water control valve is designed for installation on water heating equipment to provide tempered water to point-of-use fixtures and is ideal for radiant heat applications. The double throttling design combines hot and cold water control for a sensitive response to water temperature changes in the mixing chamber. It consists of a lead free brass body, union connections, solid wax hydraulic principle thermostat, integral filter washers and check valves, virtual shutoff upon loss of cold water supply, and a locking mechanism for the temperature setting. The maximum pressure is 150 psi (10.3 bar). The adjustable field range temperature is 90 to 160 degrees F (32 to 71 degrees C).

**Sizes:** 1/2"-1"

**Available in:** SWT, NPT, PEX, QUICK-CONNECT & CPVC

Mixing Valves



**520**  
AngleMix™ Thermostatic Mixing Valve

The Caleffi AngleMix™ is the industry's only thermostatic mixing valve with an angle-style body. This configuration minimizes the use of elbow fittings for reduced installation time and cost. The AngleMix delivers precise mixed temperature stability as low as .5 gpm for today's high efficiency fixtures. In domestic recirculation systems, the tight inlet close-off performance prevents temperature creep without the need for return water balancing valve(s).

**Sizes:** 1/2" - 1"

**Available in:** SWT, NPT, PRESS



The versatile 5120 Series High Flow Mixing Valve (NSF 61 ASSE 1017) provides the ultimate performance for heating or domestic hot water installations where the required flow rates are beyond the specifications of the standard 5120 or 5000 series mixing valves. The 5120 Series High Flow Mixing Valve allows for domestic hot water storage at temperatures high enough to increase the effective storage capacity of a water heater, kill harmful bacteria and still be delivered at a safe 120°F or less. The valve's unique design and advanced thermostatic element ensures a stable mixed water temperature throughout the extended 85°-176°F range.

**Sizes:** 1" - 1-1/4"

**Available in:** SWT

## 5120 Series High Flow Mixing Valve



Caleffi 5231 series three-way mixing valves are used in residential and commercial systems producing domestic hot water or in hydronic and radiant heating systems. Compensating for both temperature and pressure fluctuations of incoming hot and cold water, these valves maintain the desired output temperature of mixed water.

**Sizes:** 1" - 2"

**Available in:** SWT, NPT

## 5231 MixCal+™ High Flow Mixing Valve

**BOSHART**  
INDUSTRIES



Bronze check valves ensure that fluid flows in one direction only.

**Sizes:** 1/4"-4"

**Available in:** FPT

## Flomatic Bronze Check Valves



Taco Zone Sentry® Zone Valves provide on-off, normally open or normally closed control in closed hydronic systems. The valves can be used in a wide variety of heating and condensing cooling applications, primarily designed for use with baseboard, fan coils, radiators, convectors, air handlers, heat pumps and radiant applications.

**Sizes:** 1/2" - 1"

**Available in:** SWT, NPT, Press

## Zone Sentry® Series Zone Valve





## 132

QuickSetter™ Balancing Valve with Integral Flow Meter



### Features:

- Pull-adjust-release makes setting flow simple and quick
- Protective bypass valve
- Memory pointer
- Always clear flow scale
- Pre-formed insulation shell
- Simple servicing, bypass channel easily detaches for cleaning

Sizes: 1/2" - 2"



## 519

Differential Pressure Bypass Valve



### Features:

Adjustable from 2 to 10 psi  
Brass body

Max working pressure: 150 psi  
Working temp range: 32° - 230°F

3/4" flow up to 9 gpm  
1" flow up to 40 gpm  
1-1/4" flow up to 45 gpm



## B1156F

Water Pressure Regulator

### Features:

- Stainless steel strainer protects valve disc from fouling
- Available with threaded, union solder, union threaded inlet connections or integral press fitting
- Tight-seating check valve
- Purge lever for manual purging

Max. Temperature: 212°F

Max. Pressure: 100 psi

Adjustment Range: 10-25 psi

Sizes: 1/2"



## 9D

Back Flow Preventer

### Features:

- Primary check valve has rubber disc seating against a mating rubber part to ensure tight closing
- Stainless steel internal parts for longevity
- Can be installed vertically or horizontally
- Line-sized construction enables check modules to open further, helping to reduce check fouling

Model	Part Number	Connection
9D-M3	006025	1/2" FTP
9D-M2	006026	3/4" FTP



Features:

- Horizontal or vertical installation
- Pre-assembled unit
- High capacity
- All bronze, union NPT X NPT end connections

Sizes: 1/2"

# BD911T-M3

Combination Fill Valve



Features:

- Powder-coated for professional finish
- Securely mount critical hydronic components
- Provides means for easy servicing of expansion tank
- Three 1/2" FNPT ball valve connections:
  - Expansion tank connection (suitable for up to 12" diameter tanks)
  - System feeder or fill inlet connection
  - Closed loop hydronic system connection
- Two 1/4" FNPT connections:
  - 1/4" Manual air vent
  - 1/4" FNPT plugged connection for accessory component

# Hydronode HN-2

Expansion Tank  
Mounting Bracket



### Features:

FLEX 2 PRO HTX and SXHT series are designed to relieve pressure build-up in forced hot water heating systems. Both tank lines' diaphragms are oversized, which maximizes draw-down and minimizes wear. Additionally, packages including tank, air scoop, and vent for added installer convenience, and hydronic accessory items including a fill valve, are also available. HTX and SXHT, when it comes to the ultimate pressure relief tank, this is the one that has all the features your customers want!

### Warranty:

- 5-year limited warranty

Non-Potable Expansion Tanks

## HTX & SXHT Hydronic Expansion Tanks

Model	Capacity (USG)	Maximum Acceptance Volume (USG)	Connection	Height (in.)	Diameter (in.)
HTX 15	2.1	1.0	1/2" MNPT	12-1/2"	8"
HTX 30	4.5	2.5	1/2" MNPT	14"	11"
HTX 60	6.0	3.0	1/2" MNPT	17-1/4"	11-1/2"
HTX 90	15.0	6.0	3/4" MNPT	20-3/4"	16"
SXHT 30	15.0	6.0	1" FNPT	21-3/4"	16"
SXHT 40	20.0	8.0	1" FNPT	28-3/4"	16"
SXHT 60	33.0	13.3	1" FNPT	42-3/4"	16"
SXHT 90	44.0	17.7	1-1/4" FNPT	36-1/4"	21"
SXHT 110	62.0	24.9	1-1/4" FNPT	48"	21"
SXHT 160	81.0	32.6	1-1/4" FNPT	62"	21"

Maximum working pressure 100 PSI. Factory pre-charge 12 PSI.  
Maximum working temperature 240°F.





DMF 150



MF 200



DMF 300



SF 100

**Features:**

- Automatically maintains a minimum system pressure at a user defined setting
- Feeders are compatible with both water and glycol/water solutions
- Provides leak detection – dropping fluid level provides immediate notice that the system is losing fluid
- Prevents major floods – in the event of a system rupture, only the contents of the tank will be pumped into the system
- All units plug into any standard 115 VAC outlet
- Diverter valve allows easy purging of air on initial start-up and manual mixing of fluid in the tank
- Fluid drained for service from the system can easily be recovered and used to replenish the system following service
- Fluid level switch shuts the pump off if the storage tank level gets too low
- Does not require any annual recertification testing

Model	System Volume	System Cold Static Fill Pressure
DMF150 (4.5 USG)	Below 75 USG	0-45 psig
MF200 (6 USG)	Below 75 USG	10-25 psig
DMF300 (17 USG)	75-300 USG	0-45 psig
SF100 (55 USG)	300-800 USG	5-55 psig
SF100-HP (55 USG)	300-800 USG	25-85 psig
SF100-L (100 USG)	Above 800 USG	5-55 psig

## Another innovative product from Axiom

# NC-1W

**Reversible wall-mounted bracket**

**Twist off capsule allows quick media replacement**

**LipHter+ media**

**Manual reset float\* indicates unit in bypass mode and requires maintenance**

**Normal Operation**

**Clogged with Debris**  
Integral bypass prevents condensate backup

*Condensate Neutralizers*

\*Provisionally Patented

## JOINS OUR FAMILY OF CONDENSATE NEUTRALIZERS



Model	BTU/hr at operating efficiency	Condensate Flow Rate
<b>NeutralPal Series</b>		
NC-1 & NC-1S	400,000 @ 93%	1.6 Gal/hr
NC-2 & NC-2S	1,000,000 @93%	4.0 Gal/hr
NC-1W	400,000 @93%	1.6 Gal/hr
<b>NeutraPro Series</b>		
NT15	3,000,000 @ 96%	20 Gal/hr
NT25	7,000,000 @ 96%	45 Gal/hr
<b>NeutraPump Series</b>		
NT1-P	500,000 @93%	1.9 Gal/hr
NT25-P18	6,000,000 @96%	40 Gal/hr
NT70-P	20,000,000 @96%	132 Gal/hr



**Part #**

**Description**

18-308

Propylene Glycol 18.9L/ 5 Gal.



AXTH-CFSTEEL-1L

Axiom Combustion side cleaner for stainless steel heat exchangers - 1 L bottle



ACF9A-BOTTLE

Axiom general cleaner for condensing heat exchangers - 1L bottle



AXTH-CF9A

Two step combustion side cleaner & passivator for condensing aluminum heat exchanger - two 1 L bottles



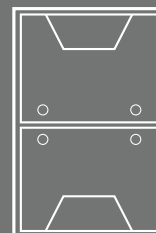
MHS1L-C

Hydro-Solv 9100 hydronic system cleaner - concentrated 1 L bottle



MPT1L-C

Hydro-Solv 922 boiler treatment inhibitor - concentrated 1 L bottle



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**FORCED AIR**

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# KeepRite®

N95ESN



### Features:

- Single-stage operation and fixed speed blower motor for even levels of temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Air purifier and humidifier compatible
- High temperature limit control prevents overheating

### Warranty:

- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty



Model	Input (Btu/h)	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Dimensions (Height x Width x Depth)
		Upflow/Hz	Downflow		
N95ESN0261410A	26,000	96%	95%	235 - 895	35" x 14-3/16" x 29-1/2"
N95ESN0401410A	40,000	96%	95%	365 - 950	35" x 14-3/16" x 29-1/2"
N95ESN0401712A	40,000	96%	95%	270 - 1010	35" x 17-1/2" x 29-1/2"
N95ESN0601412A	60,000	95%	95%	345 - 1120	35" x 14-3/16" x 29-1/2"
N95ESN0601714A	60,000	96%	95%	460 - 1330	35" x 17-1/2" x 29-1/2"
N95ESN0801716A	80,000	96%	95%	935 - 1665	35" x 17-1/2" x 29-1/2"
N95ESN0802120A	80,000	96%	95%	895 - 1855	35" x 21" x 29-1/2"
N95ESN1002120A	100,000	96%	95%	1110 - 2125	35" x 21" x 29-1/2"
N95ESN1202422A	120,000	96%	95%	710 - 2105	35" x 24-1/2" x 29-1/2"
N95ESN1402422A	140,000	95%	95%	470 - 2310	35" x 24-1/2" x 29-1/2"

# FORCED AIR



N96MSN



### Features:

- Single-stage operation
- Constant torque ECM blower motor that offers 18 speed options for your dealer to select from for personalize home comfort.
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Air purifier and humidifier compatible
- High temperature limit control prevents overheating

### Warranty:

- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty



Furnaces

Model	Input (Btu/h)	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Dimensions (Height x Width x Depth)
		Upflow/Hz	Downflow		
N96MSN0261410	26,000	96%	95%	175-970	35" x 14-3/16" x 29-1/2"
N96MSN0401410	40,000	96%	95%	155-1000	35" x 14-3/16" x 29-1/2"
N96MSN0401712	40,000	96.7%	95%	160-1075	35" x 17-1/2" x 29-1/2"
N96MSN0601412	60,000	95%	95%	200-1165	35" x 14-3/16 x 29-1/2"
N96MSN0601716	60,000	97%	95%	315-1580	35" x 17-1/2" x 29-1/2"
N96MSN0801716	80,000	97%	95%	370-1625	35" x 17-1/2" x 29-1/2"
N96MSN0802120	80,000	97%	95%	225-2125	35" x 21" x 29-1/2"
N96MSN1002120	100,000	96.3%	95%	375-2145	35" x 21" x 29-1/2"
N96MSN1002122	100,000	96.3%	95%	450-2240	35" x 21" x 29-1/2"
N96MSN1202422	120,000	96.1%	95%	290-2240	35" x 24-1/2 x 29-1/2"



# KeepRite®

## G96VTN



### Features:

- Variable-speed blower motor and two-stage gas valve provide enhanced levels of even temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- Fully insulated cabinet helps keep the heat moving to your ductwork
- Air purifier and humidifier compatible
- High temperature limit control prevents overheating

### Warranty:

- 5-Year No Hassle Replacement™ Limited Warranty
- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty upon timely registration



Furnaces

Model	Input (Btu/h)	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Dimensions (Height x Width x Depth)
		Upflow/Hz	Downflow		
G96VTN0401410A	40,000	96%	95%	445 - 1030	35" x 14-3/16" x 29-1/2"
G96VTN0401712A	40,000	96%	95%	400 - 1105	35" x 17-1/2" x 29-1/2"
G96VTN0601412A	60,000	95%	95%	445 - 1115	35" x 14-3/16" x 29-1/2"
G96VTN0601714A	60,000	96%	95%	210 - 1475	35" x 17-1/2" x 29-1/2"
G96VTN0801716A	80,000	96%	95%	360 - 1655	35" x 17-1/2" x 29-1/2"
G96VTN0802120A	100,000	96%	95%	405 - 2005	35" x 21" x 29-1/2"
G96VTN1002120A	100,000	96%	95%	975 - 2275	35" x 21" x 29-1/2"
G96VTN1202422A	120,000	96%	95%	505 - 2190	35" x 24-1/2" x 29-1/2"

# FORCED AIR



G96CTN



### Features:

- Variable-speed blower motor and two-stage gas valve provide enhanced levels of even temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- As a two-stage furnace, it operates at low stage most of the time to save energy, smoothly ramping up the heat to high stage as temperatures drop
- Fully insulated cabinet helps keep the heat moving to your ductwork
- Air purifier and humidifier compatible
- Wi-Fi® enabled remote access with the Ion™ System Control

### Warranty:

- 10-Year No Hassle Replacement™ Limited Warranty
- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty upon timely registration



Furnaces

Model	Input (Btu/h)	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Dimensions (Height x Width x Depth)
		Upflow/Hz	Downflow		
G96CTN0601714A	60,000	96.3%	95%	530 - 1280	35" x 17-1/2" x 29-1/2"
G96CTN0801714A	80,000	96.2%	95%	520 - 1310	35" x 17-1/2" x 29-1/2"
G96CTN0802120A	80,000	96.7%	95%	750 - 1945	35" x 21" x 29-1/2"
G96CTN1002122A	100,000	96.1%	95%	715 - 2160	35" x 21" x 29-1/2"
G96CTN1202422A	120,000	96.5%	95%	705 - 2135	35" x 24-1/2" x 29-1/2"





G97CMN



**Features:**

- Variable-speed blower motor and modulating gas valve provide our ultimate levels of even temperature control and comfort
- Dual fuel capable with a compatible heat pump and thermostat for energy-saving heating performance
- As a modulating furnace, it operates at lower stages most of the time to save energy, smoothly ramping up the heat as temperatures drop
- Fully insulated cabinet keeps the heat moving to your ductwork
- Air purifier and humidifier compatible
- Wi-Fi® enabled remote access with the Ion™ System Control

**Warranty:**

- 10-Year No Hassle Replacement™ Limited Warranty
- 10-Year Parts Limited Warranty upon timely registration
- Lifetime Heat Exchanger Limited Warranty upon timely registration



Model	Input (Btu/h)	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Dimensions (Height x Width x Depth)
		Upflow/Hz	Downflow		
G97CMN0601714A	60,000	97.0%	95%	510 - 1335	35" x 17-1/2" x 29-1/2"
G97CMN0602120A	60,600	98.0%	95%	510 - 1905	35" x 21" x 29-1/2"
G97CMN0801714A	80,000	97.0%	95%	490 - 1375	35" x 17-1/2" x 29-1/2"
G97CMN0802120A	80,000	97.0%	95%	750 - 1945	35" x 21" x 29-1/2"
G97CMN1002122A	100,000	97.0%	95%	715 - 2160	35" x 21" x 29-1/2"
G97CMN1202422A	120,000	97.0%	95%	885 - 2185	35" x 24-1/2" x 29-1/2"

Furnaces

# FORCED AIR



SYST0101CW



SYSTXZNSMS01

Optional smart sensor, sold separately.

**FEATURES:**

- Remote access
- Lifestyle based programming
- Advanced smart setback
- Detailed system display
- Advanced Humidity
- Zoning
- Duct assessment/ Dirty filter detection
- Detailed system alerts
- Touch-N-Go setting

**WARRANTY:**

- 10-year parts limited warranty
- (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Ion Control



N4H5S



### FEATURES

- Quiet performance (as low as 69 decibels)
- Top-discharge design encourages uniform airflow across the outdoor coil to both improve airflow and minimize sound.
- Available two-stage models automatically select high- or low-stage cooling as needed to match changing conditions and provided more uniform comfort and higher energy efficiency than standard models
- Designed for corrosion-resistant components, rust-resistant finishes and wire hail guard grilles
- SEER 14, SEER2 14.3, EER2 11, HSPF2 7.5

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.



Model	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
N4H5S18AKAAA	1-½	18,000	208/230V	20 A	3/8" / 5/8"	28-11/16" x 31-3/16" x 31-3/16"
N4H5S24AKAAA	2	24,000	208/230V	25 A	3/8" / 5/8"	32-1/16" x 31-3/16" x 31-3/16"
N4H5S30AKAAA	2-½	30,000	208/230V	30 A	3/8" / 3/4"	28-11/16" x 31-3/16" x 31-3/16"
N4H5S36AKAAA	3	36,000	208/230V	30 A	3/8" / 3/4"	28-11/16" x 31-3/16" x 31-3/16"
N4H5S42AKAAA	3-½	42,000	208/230V	40 A	3/8" / 7/8"	32-1/16" x 31-3/16" x 31-3/16"
N4H5S48AKAAA	4	48,000	208/230V	50 A	3/8" / 7/8"	35-1/2" x 31-3/16" x 31-3/16"
N4H5S60AKAAA	5	60,000	208/230V	50 A	3/8" / 1-1/8"	38-7/8" x 35" x 35"

# FORCED AIR



C4H5S



## FEATURES

- Quiet performance (as low as 68 decibels)
- Single-stage compressor operation
- Dual fuel capable with a compatible gas furnace and thermostat for energy-saving heating
- Durably built with tight wire grille and protective corner posts to withstand bad weather and debris
- Designed for corrosion resistance and lasting performance
- SEER 15, SEER2 14.3 EER2 11 HSPF2 7.5

## WARRANTY

- 5-Year No Hassle Replacement™ Limited Warranty
- 10-year parts limited warranty (Upon timely registration)



Heat Pumps

Model	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
C4H5S18AKAAA	1-½	18,000	208/230V	20 A	3/8" / 5/8"	28-11/16" x 31-3/16" x 31-3/16"
C4H5S24AKAAA	2	24,000	208/230V	25 A	3/8" / 5/8"	32-1/8" x 31-3/16" x 31-3/16"
C4H5S30AKAAA	2-½	30,000	208/230V	30 A	3/8" / 3/4"	28-11/16" x 31-3/16" x 31-3/16"
C4H5S36AKAAA	3	36,000	208/230V	30 A	3/8" / 3/4"	28-11/16" x 31-3/16" x 31-3/16"
C4H5S42AKAAA	3-½	42,000	208/230V	40 A	3/8" / 7/8"	32-1/8" x 31-3/16" x 31-3/16"
C4H5S48AKAAA	4	48,000	208/230V	50 A	3/8" / 7/8"	35-1/2" x 31-3/16" x 31-3/16"
C4H5S60AKAAA	5	60,000	208/230V	50 A	3/8" / 1-1/8"	40-3/8" x 35" x 35"





DLCURA

Heat Pumps



**FEATURES**

- Compatible with the KeepRite Ductless Crossover Solutions
- Quiet performance (as low as 54 decibels)
- Variable-speed compressor operation
- Durably built to withstand bad weather and debris
- Designed for corrosion resistance and lasting performance
- Narrow cabinet design with small footprint to fit your home needs
- SEER 20, SEER2 18, HSPF 12, HSPF2 9.8

**WARRANTY**

- 5-Year No Hassle Replacement limited warranty
- 10-year parts limited warranty (Upon timely registration)



Model	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLCURAH18ABK	1-½	18,000	208/230V	16 A	3/8" / 3/4"	21-3/16" x 31-11/16" x 12-63/64"
DLCURAH24ABK	2	24,000	208/230V	19 A	3/8" / 3/4"	26-1/2" x 35-1/16" x 13-5/16"
DLCURAH30ABK	2-½	30,000	208/230V	20 A	3/8" / 3/4"	31-7/8" x 37-1/4" x 16-1/32"
DLCURAH36ABK	3	36,000	208/230V	24 A	3/8" / 3/4"	31-7/8" x 37-1/4" x 16-1/32"
DLCURAH48ABK	4	48,000	208/230V	34 A	3/8" / 3/4"	52-1/2" x 37-1/2" x 16-5/16"
DLCURAH60ABK	5	60,000	208/230V	50 A	3/8" / 7/8"	52-1/2" x 37-1/2" x 16-5/16"

# FORCED AIR



CVH8



### FEATURES

- 5 stages of variable-speed compressor operation, providing our best temperature and summer humidity control
- Quiet performance (as low as 56 decibels)
- Variable-speed fan works with compressor for best levels of quiet, efficient operation
- Dual fuel capable with a compatible gas furnace and thermostat for energy-saving heating
- Wi-Fi enabled remote access with the Ion System Control
- SEER 18, EER 13, HSPF 11

### WARRANTY

- 10-Year No Hassle Replacement limited warranty
- 10-year parts limited warranty (Upon timely registration)



Heat Pumps

Model	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
CVH824GKA	2	24,000	208/230V	16 A	3/8" / 5/8"	31-13/16" x 23-1/8" x 23-1/8"
CVH836GKA	3	36,000	208/230V	19 A	3/8" / 3/4"	38-1/2" x 23-1/8" x 23-1/8"
CVH848GKA	4	48,000	208/230V	20 A	3/8" / 1-1/8"	38-15/16" x 31-3/16" x 31-3/16"
CVH860GKA	5	60,000	208/230V	24 A	3/8" / 1-1/8"	42-5/16" x 31-3/16" x 31-3/16"



# KeepRite®

## R4H5S

Heat Pumps



### FEATURES

- Quiet performance (as low as 69 decibels)
- Top-discharge design encourages uniform airflow across the outdoor coil to both improve airflow and minimize sound.
- Available two-stage models automatically select high- or low-stage cooling as needed to match changing conditions and provided more uniform comfort and higher energy efficiency than standard models
- Designed for corrosion-resistant components, rust-resistant finishes and wire hail guard grilles

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Model	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
R4H5S18AKAAA	1-½	18,000	208/230V	20 A	3/8" / 5/8"	28-11/16" x 31-3/16" x 31-3/16"
R4H5S24AKAAA	2	24,000	208/230V	25 A	3/8" / 5/8"	31-11/16" x 31-3/16" x 31-3/16"
R4H5S30AKAAA	2-½	30,000	208/230V	30 A	3/8" / 3/4"	28-1/4" x 31-3/16" x 31-3/16"
R4H5S36AKAAA	3	36,000	208/230V	30 A	3/8" / 3/4"	28-1/4" x 31-3/16" x 31-3/16"
R4H5S42AKAAA	3-½	42,000	208/230V	40 A	3/8" / 7/8"	31-11/16" x 31-3/16" x 31-3/16"
R4H5S48AKAAA	4	48,000	208/230V	50 A	3/8" / 7/8"	35-1/16" x 31-3/16" x 31-3/16"
R4H5S60AKAAA	5	60,000	208/230V	50 A	3/8" / 1-1/8"	38-7/8" x 35" x 35"

# FORCED AIR



EVD



## FEATURES

- Cased V coil design for efficient heat transfer in a compact size
- Efficiency-optimizing Thermostatic Expansion Valve metering device
- Corrosion-resistant all-aluminum coil
- Fully insulated cabinet
- Corrosion-resistant drain pan drain pan is designed in a Polybutylene Terephthalate (PBT) material that offers unsurpassed pan strength

## WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Coils

Model	Size (Ton)	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
EVD4X18M14A	1-½	3/4" / 3/8"	14-11/16" x 14-3/16" x 20-5/8"
EVD4X24M14A	2	3/4" / 3/8"	14-11/16" x 14-3/16" x 20-5/8"
EVD4X24M17A	2	3/4" / 3/8"	14-11/16" x 14-3/16" x 20-5/8"
EVD4X30M17A	2-½	3/4" / 3/8"	19-7/16" x 17-1/2" x 20-5/8"
EVD4X36M17A	3	3/4" / 3/8"	19-17/16" x 17-1/2" x 20-5/8"
EVD4X48M21A	4	7/8" / 3/8"	21-15/16" x 21" x 20-5/8"
EVD4X60M21A	5	7/8" / 3/8"	29-3/4" x 21" x 20-5/8"
EVD4X60M24A	5	7/8" / 3/8"	26-5/16" x 24-1/2" x 20-5/8"





# KeepRite®

## EVM

### FEATURES

- Cased V coil design for efficient heat transfer in a compact size
- Efficiency-optimizing Thermostatic Expansion Valve metering device
- Corrosion-resistant all-aluminum coil
- Fully insulated cabinet
- Corrosion-resistant drain pan drain pan is designed in a Polybutylene Terephthalate (PBT) material that offers unsurpassed pan strength

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required.  
See warranty certificate for  
details and restrictions.



Coils

Model	Size (Ton)	Line set (Liquid/Suction)	Dimensions (Height x Width x Depth)
EVM4X24M14A	2	3/4" / 3/8"	14-11/16" x 14-3/16" x 20-5/8"
EVM4X24M17A	2	3/4" / 3/8"	14-11/16" x 17-1/2" x 20-5/8"
EVM4X30M17A	2-1/2	3/4" / 3/8"	19-7/16" x 17-1/2" x 20-5/8"
EVM4X36M17A	3	3/4" / 3/8"	19-7/16" x 17-1/2" x 20-5/8"
EVM4X48M21A	4	7/8" / 3/8"	21-15/16" x 21" x 20-5/8"
EVM4X60M21A	5	7/8" / 3/8"	29-3/4" x 21" x 20-5/8"
EVM4X60M24A	5	7/8" / 3/8"	26-2/16" x 24-1/2" x 20-5/8"

# FORCED AIR



END



## FEATURES

- Cased N coil design for efficient heat transfer in a compact size
- Efficiency-optimizing Thermostatic Expansion Valve (TXV)
- Corrosion-resistant all-aluminum coil
- Fully insulated cabinet
- Corrosion-free sloped drain pan design helps reduce mold and bacterial buildup

## WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Model	Size (Ton)	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
END4X18L14A	1 ½	3/8" / 5/8"	12-5/8" x 14-3/16" x 21"
END4X24L14A	2	3/8" / 5/8"	14-5/8" x 14-3/16" x 21"
END4X24L17A	2	3/8" / 5/8"	14-5/8" x 17-1/2" x 21"
END4X30L14A	2 ½	3/8" / 3/4"	17" x 14-3/16" x 21"
END4X30L17A	2 ½	3/8" / 3/4"	17" x 17-1/2" x 21"
END4X36L17A	3	3/8" / 3/4"	17" x 17-1/2" x 21"
END4X36L21A	3	3/8" / 3/4"	17" x 21" x 21"
END4X42L17A	3 ½	3/8" / 7/8"	21-1/8" x 17-1/2" x 21"
END4X42L21A	3 ½	3/8" / 7/8"	19" x 21" x 21"
END4X48L21A	4	3/8" / 7/8"	22-1/16" x 21" x 21"
END4X48L24A	4	3/8" / 7/8"	22-1/16" x 24-1/2" x 21"
END4X60L24A	5	3/8" / 7/8"	26-7/8" x 24-1/2" x 21"

Coils



EAM

FEATURES

- Cased A coil design for efficient heat transfer in a compact size
- Efficiency-optimizing Thermostatic Expansion Valve (TXV)
- Corrosion-resistant all-aluminum coil
- Fully insulated cabinet
- Corrosion-free sloped drain pan design helps reduce mold and bacterial buildup

WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Coils

Model	Size (Ton)	Line set (Liquid/Suction)	Dimensions (Height x Width x Depth)
EAM4X18L14A	1-½	3/8" / 5/8"	25-13/16" x 14-3/16" x 20-5/8"
EAM4X24L14A	2	3/8" / 5/8"	25-13/16" x 14-3/16" x 20-5/8"
EAM4X24L17A	2	3/8" / 5/8"	25-13/16" x 17-1/2" x 20-5/8"
EAM4X30L14A	2-½	3/8" / 3/4"	25-13/16" x 14-3/16" x 20-5/8"
EAM4X30L17A	2-½	3/8" / 3/4"	25-13/16" x 17-1/2" x 20-5/8"
EAM4X36L17A	3	3/8" / 3/4"	29-3/4" x 17-1/2" x 20-5/8"
EAM4X36L21A	3	3/8" / 3/4"	29-3/4" x 21" x 20-5/8"

# FORCED AIR



EAA

## FEATURES

- Uncased A coil design for efficient heat transfer in a compact size
- Efficiency-optimizing Thermostatic Expansion Valve (TXV)
- Corrosion-resistant all-aluminum coil
- Corrosion-free sloped drain pan design helps reduce mold and bacterial buildup

## WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Line set (Liquid/Suction)	Dimensions (Height x Width x Depth)
EAA4X18L14A	1-½	3/8" / 5/8"	13-5/8" x 13" x 20-1/8"
EAA4X24L14A	2	3/8" / 5/8"	17-3/4" x 13" x 20-1/8"
EAA4X24L17A	2	3/8" / 5/8"	17-1/4" x 16-5/16" x 20-1/8"
EAA4X30L14A	2-½	3/8" / 3/4"	21-7/8" x 13" x 20-1/8"
EAA4X30L17A	2-½	3/8" / 3/4"	21-7/16" x 16-5/16" x 20-1/8"
EAA4X36L17A	3	3/8" / 3/4"	23-9/16" x 16-5/16" x 20-1/8"
EAA4X36L21A	3	3/8" / 3/4"	23" x 19-13/16" x 20-1/8"
EAA4X42L21A	3-1/2	3/8" / 7/8"	25-1/16" x 19-13/16" x 20-1/8"
EAA4X48L21A	4	3/8" / 7/8"	25-5/16" x 19-13/16" x 20-1/8"
EAA4X48L24A	4	3/8" / 7/8"	24-13/16" x 23-5/16" x 20-1/8"
EAA4X60L24A	5	3/8" / 7/8"	31-1/16" x 23-5/16" x 20-1/8"





FVM



**Features:**

- The indoor and outdoor sections can be customized to provide air conditioning, heat pump heating, and/or electric heating.
- All KeepRite fan coils include comfort enhancing and durable features to deliver lasting performance, including a corrosion-resistant all-aluminum coil and a corrosion-free sloped drain pan design that helps reduce mold and bacteria buildup.
- When installed with a humidity-sensing thermostat and matched outdoor unit, KeepRite fan coils can provide added comfort and efficiency through humidity management during the cooling season.
- Variable-Speed Constant Airflow Motor

**Warranty:**

- 10 year no hassle replacement limited warranty
- 5 year parts limited warranty



Model	Size (Ton)	Input (Btu/h)	Cooling Capacity CFM (L/s)		Dimensions (Height x Width x Depth)
			Low	High	
FVM4X2400BL	2	24,000	350	1200	42-11/16" x 17-5/8" x 22-1/16"
FVM4X3600BL	3	36,000	415	1500	53-7/16" x 21-1/8" x 22-1/16"
FVM4X4800BL	4	48,000	425	1600	53-7/16" x 21-1/8" x 22-1/16"
FVM4X6000BL	5	60,000	540	2000	59-3/16" x 24-11/16" x 22-1/16"

# FORCED AIR



FJM



### Features:

- The indoor and outdoor sections can be customized to provide air conditioning, heat pump heating, and/or electric heating.
- All KeepRite fan coils include comfort enhancing and durable features to deliver lasting performance, including a corrosion-resistant all-aluminum coil and a corrosion-free sloped drain pan design that helps reduce mold and bacteria buildup.
- When installed with a humidity-sensing thermostat and matched outdoor unit, KeepRite fan coils can provide added comfort and efficiency through humidity management during the cooling season.
- Fixed-speed Constant Torque Single Stage

### Warranty:

- 10 year no hassle replacement limited warranty
- 5 year parts limited warranty



Fan Coils

Model	Size (Ton)	Input (Btu/h)	Cooling Capacity CFM (L/s)		Dimensions (Height x Width x Depth)
			Low	High	
FJMA4X18L0AB	1-½	18,000	525	625	42-11/16" x 14-5/16" x 22-1/16"
FJMA4X24L0BC	2	24,000	700	900	49-5/8" x 17-5/8" x 22-1/16"
FJMA4X30L0BB	2-½	30,000	875	1125	40-5/8" x 17-5/8" x 22-1/16"
FJMA4X36L0BB	3	36,000	1050	1350	49-5/8" x 17-5/8" x 22-1/16"
FJMA4X42L0CB	3-½	42,000	1225	1575	49-5/8" x 21-1/8" x 22-1/16"
FJMA4X48L0CB	4	48,000	1400	1800	53-7/16" x 21-1/8" x 22-1/16"
FJMA4X60L0DB	5	60,000	1600	2000	59-3/16" x 24-11/16" x 22-1/16"



# KeepRite®

## PERFORMANCE

Ductless Heat Pumps



### FEATURES - OUTDOOR

- Inverter Compressor
- Up to 17.6 SEER cooling efficiency
- Up to 11.2 EER heating efficiency
- Available in 115V and 208/230V
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 52 dB(A)
- Anti-corrosive fin coating
- Extra low temperature heating (-30°C)

### FEATURES - INDOOR

- Available in 115V and 208/230V
- Sizes: 09 / 12 / 18 / 24
- Modes: Cool, Dry, Fan, Auto
- Turbo Mode
- Four fan speeds
- Sleep Mode
- ECO Mode
- Up-down louver control (fixed or swing)
- Follow Me (senses temperature at handheld remote)
- Quiet indoor operation, as low as 25 dB(A)
- Anti-corrosive fin coating

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Outdoor/ Indoor Unit	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLCERAH09AAK / DLFEHAH09XAK	¾	9,000	230V	20 A	1/4" / 3/8"	21.85" x 30.31" x 11.81" / 11.81" x 32" x 7.75"
DLCERBH12AAJ / DLFEHAH12XAJ	1	12,000	115V	15 A	1/4" / 1/2"	21.85" x 30.31" x 11.81" / 11.81" x 32" x 7.75"
DLCERBH18AAK / DLFEHAH18XAK	1-½	18,000	230V	20 A	1/4" / 1/2"	21.81" x 31.50" x 13.11" / 12.8" x 38.36" x 8.87"
DLCERBH24AAK / DLFEHAH24XAK	2	24,000	230V	25 A	3/8" / 5/8"	27.64" x 31.27" x 14.29" / 13.41" x 43.83" x 9.22"

# FORCED AIR



## FEATURES

- Inverter Compressor
- Up to 24.7 SEER cooling efficiency
- Up to 11.0 EER heating efficiency
- Available in 115V and 208/230V
- Compatible with high wall, Cassette, Ducted or Console
- IDU Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 54.6 dB(A)
- Quiet indoor operation, as low as 25 dB(A)
- Extra low temperature heating (-30°C)

## WARRANTY

- 10-year parts limited warranty  
(Upon timely registration)



Ductless Heat Pumps

Outdoor/ Indoor Unit	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLCSRBH06AAK / DLFSHCH06XAK	½	6,000	230V	15 A	1/4" / 3/8"	21.85" x 30.12" x 11.93" 11.61" x 31.3" x 8.86"
DLCSRBH09AAK / DLFSHAH09XAK	¾	9,000	230V	15 A	1/4" / 3/8"	21.81" x 32.09" x 13.11" 11.81" x 31.89" x 7.87"
DLCSRBH12AAJ / DLFSHAH12XAJ	1	12,000	115V	20 A	1/4" / 1/2"	21.81" x 32.09" x 13.11" 11.81" x 31.89" x 7.87"
DLCSRBH18AAK / DLFSHAH18XAK	1-½	18,000	230V	25 A	1/4" / 1/2"	27.63" x 33.66" x 14.17" 13.31" x 42.91" x 9.25"
DLCSRBH24AAK / DLFSHAH24XAK	2	24,000	230V	30 A	3/8" / 5/8"	31.89" x 37.24" x 16.14" 13.31" x 42.91" x 9.25"
DLCSRBH30AAK / DLFSHAH30XAK	2-½	30,000	230V	30 A	3/8" / 5/8"	31.89" x 37.24" x 16.14" 14.37" x 53.15" x 10.71"
DLCSRBH36AAK / DLFSHAH36XAK	3	36,000	230V	35 A	3/8" / 5/8"	31.89" x 37.24" x 16.14" 14.37" x 53.15" x 10.71"



## PROCOMFORT DELUXE

### FEATURES

- Inverter Compressor
- Up to 40.0 SEER cooling efficiency
- Up to 14.5 EER heating efficiency
- Available in 208/230V
- IDU Sizes: 09 / 12 / 18 / 24
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 54.6 dB(A)
- Quiet indoor operation, as low as 25 dB(A)
- Extra low temperature heating (-30°C)

### WARRANTY

- 10-year parts limited warranty  
(Upon timely registration)



Ductless Heat Pumps

Outdoor/ Indoor Unit	Size (Ton)	Nominal Btu/h	Voltage	Amperage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLCPRAH09AAK / DLFPDAH09XAK	¾	9,000	230V	15 A	1/4" / 3/8"	27.64" x 33.27" x 14.29" / 11.7" x 35.2" x 9.8"
DLCPRAH12AAK / DLFPDAH12XAK	1	12,000	230V	20 A	1/4" / 1/2"	27.64" x 33.27" x 14.29" / 11.7" x 35.2" x 9.8"
DLCPRAH18AAK / DLFPDAH18XAK	1-½	18,000	230V	30 A	3/8" / 5/8"	31.89" x 37.24" x 16.14" / 14.25" x 49.57" x 11.1"
DLCPRAH24AAK / DLFPDAH24XAK	2	24,000	230V	30 A	3/8" / 5/8"	31.89" x 37.24" x 16.14" / 14.25" x 49.57" x 11.1"



Ion™ System

# HEAT PUMP

## YEAR-ROUND INDOOR COMFORT

### COMFORT WITH CONFIDENCE

Choose KeepRite heating and cooling equipment so you can enjoy comfort with confidence. Our products deliver exceptional quality, reliability and energy efficiency, backed by time-tested engineering and leading-edge manufacturing. Every unit we make passes a performance check in all phases of operation before it leaves our facility. We call this 100% run testing, and it's one more example of how KeepRite goes the extra mile for your satisfaction.



**KeepRite**

Ion System  
Models CVH8, C4H7T, C4H5S



Performance Series

# HORIZONTAL HEAT PUMPS

## YEAR-ROUND COMFORT

### DLCURA

#### QuietComfort® 18 Compact Heat Pump

Find the budget-friendly comfort you want in a compact size to fit a narrow lot with our efficient heat pump that gets an up to 18 SEER2 cooling rating. Its small design allows for close installation to your home and is compatible with the **KeepRite Ductless Crossover Solutions**.



**KeepRite**®



# FORCED AIR



### FEATURES

- Inverter Compressor
- Up to 21.4 SEER cooling efficiency
- Up to 10.8 EER heating efficiency
- Connect 2-5 multiple style indoor units
- Available in 208/230V
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 62 dB(A)
- Extra low temperature heating (-30°C)
- Aluminum golden hydrophilic pre-coated fins

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Multi-Port Ductless Heat Pump

Outdoor/ Indoor Unit	Size (Ton)	Nominal Btu/h	Voltage	Amperage	No. of Zones	Dimensions (Height x Width x Depth)
DLCMRBH18BAK	1-½	18,000	230V	25 A	2	26.5" x 35.04" x 13.46"
DLCMHBH24CAK	2	24,000	230V	30 A	3	31.89" x 37.24" x 16.14"
DLCMHBH30DAK	2-½	30,000	230V	40 A	4	31.89" x 37.24" x 16.14"
DLCMRBH36DAK	3	36,000	230V	40 A	4	31.89" x 37.24" x 16.14"
DLCMHBH36DAK	3	36,000	230V	60 A	4	52.48" x 37.48" x 16.34"
DLCMRBH48EAK	4	48,000	230V	60 A	5	52.48" x 37.48" x 16.34"
DLCMHBH48EAK	4	48,000	230V	60 A	5	52.48" x 37.48" x 16.34"

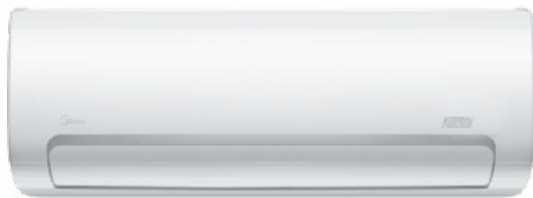
\* Line set sized to Indoor Unit



# KeepRite®

## PERFORMANCE

Multi-Port Ductless Heat Pump



### FEATURES

- Available in 115V and 208/230V
- Up to 17.6 SEER and up to 10.6 HSPF when paired with DLCERA outdoor unit
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Up-down louver control (fixed or swing)
- Remove filter from the top
- Improved serviceability
- Four fan speeds
- Sleep Mode
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 29 dB(A)
- Aluminum Golden Hydrophilic pre-coated fins

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFEHAH09XAK	¾	9,000	230V	1/4" / 3/8"	11.81" x 32" x 7.75"
DLFEHAH12XAK	1	12,000	230V	1/4" / 1/2"	11.81" x 32" x 7.75"
DLFEHAH18XAK	1-½	18,000	230V	1/4" / 1/2"	12.8" x 38.36" x 12.8"



# FORCED AIR



## FEATURES

- Available in 115V and 208/230V
- Up to 24.7 SEER and up to 11.0 HSPF when paired with DLCERA outdoor unit
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Up-down louver control (fixed or swing)
- Remove filter from the top
- Improved serviceability
- Four fan speeds
- Sleep Mode
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 25 dB(A)
- Aluminum Golden Hydrophilic pre-coated fins

## WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFSHCH06XAK	½	6,000	230V	1/4" / 3/8"	11.5" x 28.7" x 7.87"
DLFSHAH09XAK	¾	9,000	230V	1/4" / 3/8"	11.81" x 31.89" x 7.75"
DLFSHAH12XAK	1	12,000	230V	1/4" / 1/2"	11.81" x 31.89" x 7.75"
DLFSHAH18XAK	1-½	18,000	230V	1/4" / 1/2"	12.8" x 31.89" x 9.25"

Multi-Port Ductless Heat Pump





# KeepRite®

## PROCOMFORT DELUXE

Multi-Port Ductless Heat Pump



### FEATURES

- Available in 208/230V
- Relative Humidity Sensor
- Occupancy Sensor
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Fully modulating fan speeds
- Sleep Mode
- Up-down / right-left louver control (fixed or swing)
- ECO Mode
- Carbon filter
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 29 dB(A)
- Aluminum Golden Hydrophilic pre-coated fin

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFPHAH09XAK	¾	9,000	230V	1/4" / 3/8"	11.7" x 35.2" x 9.8"
DLFPHAH12XAK	1	12,000	230V	1/4" / 1/2"	11.7" x 35.2" x 9.8"

# FORCED AIR



## FEATURES

- Available 208/230V
- Sizes: 09 / 12 / 18 / 24
- Modes: Cool, Heat, Dry, Fan, Auto
- Vertical or horizontal installation
- Up to 0.64 in WG
- Rear or bottom return
- Outside air intake
- Built-in condensate lift pump
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 30 dB(A)<sup>1</sup>
- Anti-corrosive fin coating

## WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFSDAH09XAK	¾	9,000	230V	1/4" / 3/8"	7.87" x 27.56" x 19.92"
DLFSDAH12XAK	1	12,000	230V	1/4" / 1/2"	7.87" x 27.56" x 19.92"
DLFSDAH18XAK	1-½	18,000	230V	1/4" / 1/2"	8.27" x 34.65" x 26.54"
DLFSDAH24XAK	2	24,000	230V	3/8" / 5/8"	9.8" x 43.31" x 30.47"

Multi-Port Ductless Heat Pump



# KeepRite®

## QUIETCOMFORT

Multi-Port Ductless Heat Pump



### FEATURES

- Available 208/230V
- Sizes: 09 / 12 / 18 / 24
- Modes: Cool, Heat, Dry, Fan, Auto
- Auto-restart function
- Louver control (fixed or swing)
- Three fan speeds
- Outside air intake
- Built-in condensate lift pump
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 27 dB(A)
- Anti-corrosive fin coating
- Grille/ceiling panel 2' x 2' sizes 9 to 18 KSALG0101AAA
- Grille/ceiling panel 3' x 3' size 24 P/N KSALG0201AAA

### WARRANTY

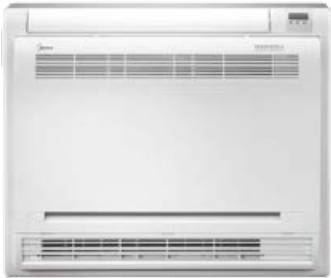
- 10-year parts limited warranty  
(Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFSCAH09XAK	¾	9,000	230V	1/4" / 3/8"	10.24" x 22.44" x 22.44"
DLFSCAH12XAK	1	12,000	230V	1/4" / 1/2"	10.24" x 22.44" x 22.44"
DLFSCAH18XAK	1-½	18,000	230V	1/4" / 1/2"	10.24" x 22.44" x 22.44"
DLFSCAH24XAK	2	24,000	230V	3/8" / 5/8"	8.07" x 33.07" x 33.07"

# FORCED AIR



### FEATURES

- Available 208/230V
- Sizes: 12 / 18 / 24
- Modes: Cool, Heat, Dry, Fan, Auto
- Auto-restart function
- Size 12 capable to be mounted on the floor only
- Sizes 18-24 capable to be mounted on the floor and in ceiling
- Louver control (fixed or swing)
- Three fan speeds
- Air discharge from top and bottom (size 12)
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 34 dB(A)
- Anti-corrosive fin coating

Multi-Port Ductless Heat Pump

### WARRANTY

- 10-year parts limited warranty (Upon timely registration)



Timely registration required. See warranty certificate for details and restrictions.

Model	Size (Ton)	Nominal Btu/h	Voltage	Line Size (Liquid/Suction)	Dimensions (Height x Width x Depth)
DLFSFAH12XAK	1	12,000	230V	1/4" / 1/2"	23.62" x 27.56" x 8.27"
DLFSFAH18XAK	1-1/2	18,000	230V	1/4" / 1/2"	26.57" x 42.05" x 9.25"
DLFSFAH24XAK	2	24,000	230V	3/8" / 5/8"	26.57" x 42.05" x 9.25"



DLFUAA



**Features:**

- The indoor and outdoor sections can be customized to provide air conditioning, heat pump heating, and/or electric heating.
- All KeepRite fan coils include comfort enhancing and durable features to deliver lasting performance, including a corrosion-resistant all-aluminum coil and a corrosion-free sloped drain pan design that helps reduce mold and bacteria buildup.
- When installed with a humidity-sensing thermostat and matched outdoor unit, KeepRite fan coils can provide added comfort and efficiency through humidity management during the cooling season.

**Warranty:**

- 10 year replacement limited warranty
- 5 year parts limited warranty



Ductless Fan Coils

Model	Size (Ton)	Input (Btu/h)	Cooling Capacity CFM (L/s)		Dimensions (Height x Width x Depth)
			Low	High	
DLFUAA18XAK	1-1/2	18,000	488	618	45" X 17.5" X 21"
DLFUAA24XAK	2	24,000	629	824	45" X 17.5" X 21"
DLFUAA30XAK	2-1/2	30,000	712	1088	49" X 21" X 21"
DLFUAA36XAK	3	36,000	865	1188	49" X 21" X 21"
DLFUAA48XAK	4	48,000	906	1471	49" X 21" X 21"
DLFUAA60XAK	5	60,000	1135	1806	53" X 24.5" X 21"



# FORCED AIR



### WiFi KIT



Model	Description
KSAIF0101AAA	DLFE 9/12/24k
KSAIF0201AAA	DLFE 18k
KSAIF0401AAA	DLF(S/L)CA, DLFSDA, DLFLDA, DLFSFA 18-24, DLFLFA, DLF(S/L)AB
KSAIF0501AAA	DLFSHA
KSAIF0601AAA	DLFPHA, DLFPHB, DLFSHB, DLF(S/LCB)

## COMFORT AND CONTROL ON-THE-GO

### CONDENSATE PUMP



Model	Description
LCU-MS	Liberty Mini Split Condensate Pump 115/230V
LCU-MS2	Liberty Mini Split Condensate Pump 115/230V w. Line Cover Kit

Ductless HP Accessories



**Features:**

- Up to 85% thermal efficiency on LP models to deliver comfort with maximum efficiency
- 30% quieter than previous models providing an undistracted environment
- Flexible installation options for residential applications that benefit the technician
- Featuring an LED display improving troubleshooting efficiency and accuracy
- 30,000-400,000 btuh capacity - Meeting a wide range of commercial and residential application requirements
- Improved efficiency and system cycle reduction (UHCM 250-400 models)

**Warranty:**

- 2-year limited parts warranty
- 10-year limited aluminized heat exchanger warranty

Model	Input (btuh)	NG Output (btuh)	LPG Output (btuh)	Flue Connection Size (in.)	Gas Connection NPT (in.)	Dimensions (Height x Width x Depth)
UHRS-30NA	30,000	25,020	25,560	4	½	12-3/8" x 29" x 27-1/2"
UHRS-45NA	45,000	37,665	38,385	4	½	12-3/8" x 29" x 27-1/2"
UHRS-60NA	60,000	50,220	51,180	4	½	17-1/2" x 29" x 29-1/2"
UHRS-75NA	75,000	62,550	63,825	4	½	17-1/2" x 29" x 29-1/2"
UHRS-90NA	90,000	75,420	77,130	4	½	23" x 29" x 28-1/8"
UHRS-105NA	105,000	87,675	89,250	4	½	23" x 29" x 28-7/8"
UHCM-125NA	125,000	103,750	106,250	4	½	35-1/4" x 24" x 42-1/2"
UHCM-150NA	150,000	124,500	127,500	4	½	35-1/4" x 24" x 42-1/2"
UHCM-175NA	175,000	145,250	148,750	5	½	35-1/4" x 29-1/2" x 42-1/2"
UHCM-200NA	200,000	166,000	170,000	5	½	35-1/4" x 29-1/2" x 42-1/2"
UHCM-250NA	250,000	207,500	212,500	5	¾	35-1/4" x 41-1/8" x 42-1/2"
UHCM-300NA	300,000	246,000	252,000	5	¾	35-1/4" x 41-1/8" x 42-1/2"
UHCM-350NA	350,000	290,500	294,000	6	¾	35-1/4" x 51-1/2" x 42-1/2"
UHCM-400NA	400,000	328,000	336,000	6	¾	35-1/4" x 51-1/2" x 42-1/2"

Note: UHCM unit heaters are not approved for residential applications.

# FORCED AIR



## Features:

- Tubular aerodynamic design construction couples high efficiency with ease of cleaning.
- Certified to be installed either by itself (with optional blower) or in conjunction with an existing warm air furnace.
- Optional blower can be installed on either side of unit, providing increased flexibility.
- Three front-mounted clean outs provide easy access for cleaning large tubular heat exchanger and firebox.
- Insulated casings for maximum heat retention.
- Round firebox eliminates the need for firebrick.

## Warranty:

- 6-Year Limited Warranty on Unit

Wood Furnace

Model	Warm Air Plenum (Length x Width)	Fire Door (Height x Width)	Dimensions (Height x Width x Depth)
WK400	24" x 30"	12" x 14"	34" x 28" x 43"



Wall Furnaces



**Gravity Wall Furnaces**

Model	GWT25W	GWT35W	GWT50W (Dual Wall)
Btuh Input	25,000	35,000	50,000 (Total) 25,000 (Per Room)
CFM	75	75	75
Dimensions (HxWxD)	66-1/8"x16"x6"	66-1/8"x16"x6"	66-1/8"x16"x6"
Warranty	10-year combustion chamber, 1-year parts		

**Direct Vented & Vented Counterflow Wall Furnaces**

Model	DVC35SPPX DVC35IPX	DVC55SPPX DVC55IPX	FAW40SPPX FAW40IPX	FAW55SPPX FAW55IPX
Btuh Input	35,000	55,000	40,000	55,000
CFM	275	400	275	400
Dimensions (HxWxD)	72-1/2"x14-9/8"x10-3/8"	82-3/8"x16"x11-5/16"	72-1/2"x14-1/8"x10-3/8"	82-3/8"x16"x82-3/8"
Warranty	10-year combustion chamber, 1-year parts			



# FORCED AIR



## Direct Vent Wall Furnaces



Model	DV210SGX	DV215SGX	DV25SG	DV35SG
Btuh Input	10,000	15,000	25,000	35,000
CFM	60	60	75	75
Dimensions (HxWxD)	21-3/8"x16-1/4"x9-3/8"	24-7/8"x20-1/4"x9-3/8"	27-3/4"x37"x11-1/2"	27-3/4"x37"x11-1/2"
Warranty	10-year combustion chamber, 1-year parts			

Wall Furnaces

## Direct Vented & Vented Counterflow Wall Furnaces

Model	DV20-E	DV-40E	DV-55E
Btuh Input	20,000	40,000	55,000
CFM	350	350	400
Dimensions (HxWxD)	26"x37"x15-3/4"	26"x37"x15-3/4"	26"x37"x15-3/4"
Warranty	10-year combustion chamber, 3-year limited parts & 2-year labour		







**Easy Radiant "Works"**  
WAINFLEET, ON, CANADA - EST. 1969

**RESIDENTIAL GARAGE / WORKSHOP HEATERS**



**EZ DUZZIT**  
The Ultimate Garage & Shop Heater



**EZ HEATWAVE**  
Sleek, Compact, Perfect for Tight Spaces

**COMMERCIAL / INDUSTRIAL HEATERS**



**SPARTAN**  
Economical Radiant Tube Heaters



**COMFORTZONE**  
Premium Radiant Tube Heaters



**MIDDLEMAN**  
The Ultimate Garage & Shop Heater



**COMFORTZONE CARWASH**  
MOISTURE RESISTANT TUBE HEATERS



**EZ HEATWAVE**  
Sleek, Compact, Perfect for Tight Spaces

**PATIO / OUTDOOR HEATERS**



**PATIO PLUS**  
Heat For Your Patio



**PURPLE PEOPLE HEATER**  
Outdoor Radiant Tube Heater



**EQUATOR**  
OVERHEAD HEAT FOR YOUR PATIO

# FORCED AIR



Direct Drive Blower Motors

- 3 Speeds, Electrically reversible
- Continuous Air Over 40°C
- Ambient Design
- All Angle Sleeve Bearings
- Extended Thru Bolt
- Automatic Reset Thermal Overload Protector
- 2 1/4" Resilient Rings
- Single Phase, 60 HZ
- Class B insulation
- NEMA Frame 48

## MULTI-HORSEPOWER

PART	HP	VOLTAGE	AMPS	RPM	BRGS	HZ	DIM TOTAL	DIM BODY	SHAFT DIA & LENGTH (IN)	CAP	CAP PART
F257-3463	1/2-1/6	115	7.3	1075/4	SAB	60	10.4	4.9	1/2" X 5"	10/370	F87071003
F257-3466	3/4-1/5	115	8.1	1075/4	SAB	60	12.2	6.1	1/2" X 5"	20/370	F87072003
F257-3464	1/2-1/6	208-230	3.6	1075/4	SAB	60	10.4	4.9	1/2" X 5"	10/370	F87071003
F257-3467	3/4-1/5	208-230	3.8	1075/4	SAB	60	12.2	6.1	1/2" X 5"	20/370	F87072003



Condenser Fan Motors

- 5.6" Diameter, Totally Enclosed Air Over TEAO
- 60°C (140°F) Ambient Design
- Ball Bearings
- Extended Studs, All Angle Mount
- 30" Leads
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Single Phase, 60 HZ
- Class B Insulation
- NEMA Frame 48

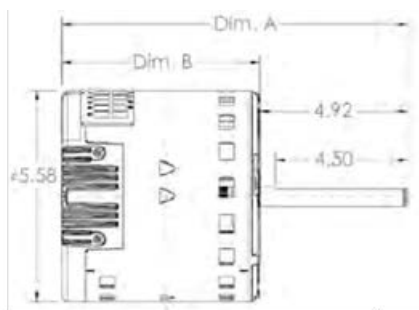
## MULTI-HORSEPOWER

PART	HP	VOLTAGE	AMPS	RPM	BRGS	HZ	DIM TOTAL	DIM BODY	SHAFT DIA & LENGTH (IN)	CAP	CAP PART
F257-3465	1/3-1/6	208-230	2.6	1075/2	BALL	60	9.6	4.6	1/2" X 5"	5/370	F87070503
F257-3468	1/2-1/5	208-230	3.0	1075/2	BALL	60	10.3	5.3	1/2" X 5"	10/370	F87071003
F257-3469	1/3-1/6	208-230	1.9	825/2	BALL	60	10.3	5.3	1/2" X 5"	7.5/370	F87070753



- Replaces X13 or Endura Pro
- Replaces competitive OEM's Direct-Drive blower motors designed with X13 or equivalent competitive model constant torque standard ECM with 24vac speed taps
- Available in 1/3, 1/2, 3/4 and 1HP ratings
- 115V, 208-230V or 277V single phase, 50/60 Hz, 1070rpm
- Pre-Programmed - 5 discrete speeds using 24VAC
- Permanently lubricated ball bearings
- Frame: 48, UL and CSA recognized
- Automatic Dual Rotation
- Two Year Warranty

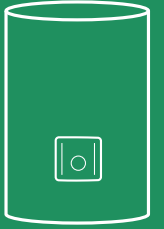
## ECM Replacement Motors



PART	HP	VOLTAGE	MAX CURRENT	ROTATION	DIM. A	DIM. B	WEIGHT
6103E	1/3	115	4.8 A	CCW/CW	10.17"	5.25"	8.4
6105E	1/2	115	6.8 A	CCW/CW	10.67"	5.75"	11.3
6107E	3/4	115	8.4 A	CCW/CW	11.42"	6.5"	15.6
6110E	1	115	10.9 A	CCW/CW	12.17"	7.25"	19.3
6203E	1/3	208-230	2.8 A	CCW/CW	10.17"	5.25"	8.4
6205E	1/2	208-230	4.1 A	CCW/CW	10.67"	5.75"	11.3
6207E	3/4	208-230	6.0 A	CCW/CW	11.42"	6.5"	15.6
6210E	1	208-230	7.6 A	CCW/CW	12.17"	7.25"	19.3
6703	1/3	208-230/277V	2.8 A	CCW/CW	9.17"	5.25"	8.3
6705	1/2	208-230/277V	4.1 A	CCW/CW	9.67"	5.75"	11.3
6707	3/4	208-230/277V	6.0 A	CCW/CW	10.42"	6.5"	15.5

## EVERGREEN® MOUNTING KITS

5K003	10"	Kit includes motor support, grommetcenters, grommet rings, sleeve spacers, bolts, nuts and washers
5K004	11"	
5K005	13"	



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# WATER HEATERS

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# IBC®

Tankless Water Heaters

### Features:

- Wireless communication means cascade system setup is as simple as enabling the built-in cascade function on up to 8 units. No communication cables required.
- Cascade multiple Superflow™ units for any DHW and/or space heating application.
- Wireless communication provides the ultimate in cascade system redundancy. The cascade system continues to operate during maintenance or repair of a cascaded unit.
- A total of 4 moving parts - Unparalleled in the industry (Fan, Bypass Valve, Gas Valve, and Damper)
- New illuminated touchscreen control display panel
- Built-in bypass valve to prevent temperature fluctuations
- Superior performance in hard water areas
- Fully condensing one-piece heat exchanger

### Warranty:

- 5-year parts warranty
- 15-year limited heat exchanger warranty



# SFT SUPERFLOW TANKLESS

Model	DHW Input Range (btuh)	Flow Rate (GPM @ 67F rise)	Dimensions (HxWxD)
SFT 199-1	28,500-199,000	5.4	29.8"x17.7"x10.9"



# WATER HEATERS



## Features:

- Condensing technology provides 0.95 Energy Factor
- Primary heat exchanger is constructed of commercial-grade copper which is more resilient against erosion
- Secondary heat exchanger is made of Type 316L Stainless Steel to protect against corrosion
- ENERGY STAR® qualified
- Available in natural gas (NG) or propane (LP)
- Electronic ignition - no pilot light
- Includes a built-in temperature controller and advanced diagnostics for easy troubleshooting
- Factory-installed power cord
- Easy-Link up to 4 units with no additional parts or accessories needed using built-in Easy-Link System (540 models only)
- Multi-link up to 20 units (540 models only) with a multi-unit controller
- Internal freeze protection system
- Safety features
- Air-Fuel Ratio (AFR) sensor
- Exhaust & water temperature safety control
- Overheat cut-off fuse
- Power direct vent design
- Exhaust, 3" venting up to 70 equivalent feet or 4" venting up to 100 equivalent feet
- Provides flexible venting with ULC S636 approved PVC, CPVC or polypropylene pipe for intake and exhaust (solid core only) or Category III/IV Stainless Steel

## Warranty:

- 5-year parts warranty
- 15-year limited heat exchanger warranty residential applications
- 5-year limited warranty on heat exchanger

Model	DHW Input Range (btuh)	Flow Rate (GPM @ 80F rise)	Dimensions (HxWxD)
JWT-240H	15,000*-160,000	3.8	23-5/8"x17-3/4"x11-1/4"
JWT-340H	15,000*-180,000	4.3	23-5/8"x17-3/4"x11-1/4"
JWT-540H	15,000*-199,000	4.7	23-5/8"x17-3/4"x11-1/4"

\*13,000 btuh on LPG



# IBC®

Volume Water Heaters



### Features:

- Touch Screen Boiler Controller:
  - Fault history with full diagnostics
  - Three pump control
  - Modbus RTU BMS port
  - True native BACnet
  - Intuitive alert system
  - Simplified load pairing
  - Visible flame current.
- Up to 96.5% thermal efficiency
- Cascade up to 8 heaters
- 7:1 turn down
- Zero side clearances
- Forklift and pallet-jack accessible base
- Welded stainless steel heat exchanger
- Built-in service light

### Warranty:

- 2-year parts warranty
- 10-year limited heat exchanger warranty

Model	CH Output Range (btuh)	Dimensions (HxWxD)
IFIRE 300	289,500	35-3/8"X45-3/8"X37"
IFIRE 400	383,000	35-3/8"X45-3/8"X37"
IFIRE 500	480,000	35-3/8"X45-3/8"X37"
IFIRE 650	624,000	42-3/4"X54-5/8"X45-1/4"
IFIRE 800	768,000	42-3/4"X54-5/8"X45-1/4"
IFIRE 1000	960,000	48-1/2"X62-3/4"X50"

# WATER HEATERS



## Features:

- ENERGY STAR® qualified with a 96% thermal efficiency
- Higher recovery rate so you don't need to wait as long for the water to heat back up
- LCD screen with an easy-to-navigate menu providing precise temperature control, operating information, diagnostics and performance history
- Flexible venting options, so it can be vented as a power direct vent or power vent heater
- Hot and cold side taps allow for combination systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Two anode rods that provide superior protection against corrosion
- Commercial-grade glass lining protects all water side tank surfaces plus inside of internal heat exchanger
- Available in 50USG and 75USG capacities

## Warranty:

- 6 year limited tank warranty
- 6 year limited parts warranty



Direct Vent Water Heaters

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
6G50100NPDVH02*	50	100,000	128	96%	66-3/4	22
6G75100NPDVH02*	75	100,000	128	96%	65-1/4	27-3/4

Propane models sub N with P.

\*Model has side connections



## ENVIROSENSE®

### Features:

- ENERGY STAR® Qualified with a 90% thermal efficiency
- Hot and cold side taps allow for combination systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Two anode rods that provide superior protection against corrosion
- Commercial-grade glass lining protects all water side tank surfaces plus inside of internal heat exchanger
- Premium-grade hot surface ignitor eliminates standing pilot
- Flexible venting options—it can be vented with 2", 3" or 4" ULC S636 PVC, CPVC or polypropylene pipe up to 125 equivalent feet (see installation manual for full details)
- Available in a 50USG capacity
- Available in natural gas only

### Warranty:

- 6 year limited tank warranty
- 6 year limited parts warranty



Direct Vent Water Heaters

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
6G5076NVC02*	50	76,000	96	94%	71	22

Propane models sub N with P.

\*Model has side connections

# WATER HEATERS



## Features:

- Models are available from 120,000 to 499,900 BTU/h and all deliver thermal efficiencies of 95% and higher
- ENERGY STAR® qualified
- Advanced control system with touchscreen display and iCOMM™ remote monitoring capabilities
- Submerged combustion chamber with helical heat exchanger coil
- Intelligent Demand Response (IDR) senses large water draws and adjusts temperature
- Common vent up to three heaters with optional common vent kits
- Receive leak detection alerts with optional leak detection kit

## Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



(All models except BTHL-500A)



Direct Vent Water Heaters

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
BTH-150(A)	100	150,000	198	98%	76-1/2	27-3/4
BTH-199(A)	100	199,900	261	97%	76-1/2	27-3/4
BTH-250(A)	100	250,000	323	96%	76-1/2	27-3/4
BTH-300(A)	119	300,000	388	96%	75-3/4	33-1/8
BTH-400(A)	119	399,900	512	95%	75-3/4	33-1/8
BTH-500(A)	119	499,900	640	95%	75-3/4	33-1/8

Electrical characteristics - 120V-60HZ A.C., 5.0A  
 "A" in model represents ASME construction  
 Propane gas models available





# AO Smith

## CYCLONE®



### Features:

- Models are available from 150,000 to 499,900 BTU/h and deliver thermal efficiencies up to 96%
- Large volume 220 and 250 gallon storage capacities
- ENERGY STAR® qualified (all models except BTHL-500A)
- Advanced control system with colour touchscreen display and iCOMMTM remote monitoring capabilities
- Submerged combustion chamber with helical heat exchanger coil
- Intelligent Demand Response (IDR) senses large water draws and adjusts temperature
- Receive leak detection alerts with optional leak detection kit

### Warranty:

- 5 year limited tank warranty
- 1 year limited parts warranty



Direct Vent Water Heaters

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
BTHL-150A	250	150,000	194	96%	91-1/2	42-1/8
BTHL-199A	250	199,000	256	95%	91-1/2	42-1/8
BTHL-250A	250	250,000	316	94%	91-1/2	42-1/8
BTHL-300A	220	300,000	380	94%	91-1/2	42-1/8
BTHL-400A	220	399,900	501	93%	91-1/2	42-1/8
BTHL-500A	220	499,900	619	92%	91-1/2	42-1/8

Electrical characteristics - 120V-60HZ A.C., 5.0A  
 "A" in model represents ASME construction  
 Propane gas models available

# WATER HEATERS



## POLARIS™



### Features:

- Submerged combustion chamber with spiral flue provides up to 96% thermal efficiency
- Manufactured of refractory steel that resists corrosion and provides excellent resistance to thermal and mechanical shock, even at extreme temperatures
- Ultra-quiet blower and burner minimizes noise
- Self-diagnostic system with three external LED lights indicate operational status of water heater
- Full serviceability from the front allows for easy maintenance
- PR34-100-2NV model meets ENERGY STAR® requirements

### Warranty:

- 10 year limited tank warranty
- 10 year limited parts warranty



Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
PR 34-100 N	34	100,000	129	96%	48-1/2	22
PR 34-130 N	34	130,000	168	96%	48-1/2	22
PR 34-150 N	34	150,000	190	94%	48-1/2	22
PR 50-130 N	50	130,000	165	95%	62-3/8	22
PR 50-150 N	50	150,000	190	95%	63-3/4	22
PR 50-175 N	50	175,000	222	96%	63-3/4	22
PR 50-199 N	50	199,000	253	96%	63-3/4	22

Propane models sub N with P.

\*Model has side connections

Direct Vent Water Heaters




**John Wood**<sup>®</sup>  
Hot Water for Life<sup>™</sup>  
**PROLINE**<sup>®</sup> XE



**Features:**

- ProLine<sup>®</sup> XE models are residential water heaters with commercial-grade quality
- ENERGY STAR<sup>®</sup> qualified (except 75 gallon model) with an Energy Factor up to 0.71
- Sealed combustion chamber design prevents accidental ignition of flammable vapours
- Compact design - ideal as a replacement water heater and for closet installations
- Factory-installed heat trap nipples reduce the amount of heat lost through piping improving energy efficiency
- Exclusive TankSaver<sup>®</sup> design that prolongs tank life
- Flexible venting options as it can be vented with 2", 3" or 4" ULC S636 PVC, CPVC or polypropylene pipe up to 180 equivalent feet (see installation manual for full details)
- Conveniently located T&P, drain valve, junction box and anode allows for stress-free maintenance

**Warranty:**

- 6 year limited tank and parts
- 2 or 4 year tank warranty extension kits are available



Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	First Hour Rating (GPH)	UEF	Height (in.)	Diameter (in)
PDV40N	40	40,000	45	71	0.68	49-1/2	22
PDV50N	50	45,000	50	93	0.72	58-7/8	22
PDV50HIN	50	62,000	73	100	0.73	60-1/4	22
PDV75N	75	72,000	82	154	0.69	60-1/2	26

Propane models sub N with P.  
\*Model has side connections

# WATER HEATERS



## Features:

- ProLine® XE models are residential water heaters with commercial-grade quality
- ENERGY STAR® qualified (except 60 & 75 gallon models) with up to a 0.70 Energy Factor
- Factory-installed heat traps on the water inlet and outlet reduces the amount of heat lost through piping, improving energy efficiency
- Exclusive TankSaver® design prolongs tank life
- Robust air intake snorkel inhibits flammable vapours from entering the combustion chamber
- Sensor detects flammable vapours and automatically disables the unit to prevent their ignition
- Ideal as a replacement water heater in a variety of applications due the 3-position rotating blower
- State-of-the-art electronic gas control features advanced self-diagnostic capability that makes troubleshooting easy
- Flexible venting options: it can be vented with 2", 3" or 4" ULC S636 PVC, CPVC or polypropylene pipe up to 180 equivalent feet (see installation manual for full details)

## Warranty:

- 6 year limited tank and parts
- 2 or 4 year tank warranty extension kits are available

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	First Hour Rating (GPH)	EF	Height (in.)	Diameter (in)
PV40N	40	40,000	44	73	0.70	49-5/8	22
PV40TN	40	50,000	50	90	0.70	59-1/4	20
PV50N	50	40,000	44	90	0.70	50-3/4	24
PV50TN	50	50,000	50	96	0.70	58-3/4	22
PV50HIN*	50	62,000	69	110	0.70	52	24
PV60N	60	42,000	46	106	0.70	57-7/8	24
PV75N*	75	72,000	80	155	0.68	61-1/4	26
PV50NM	50	40,000	44	90	0.70	50-3/4	24
PV50HINM*	50	62,000	69	110	0.70	52	24

Propane models sub N with P.

\*Model has side connections



## PROLINE® MASTER

### Features:

- ProLine® and ProLine® Master models are residential water heaters with commercial-grade quality
- Turbulator dip tube reduces sediment build-up at the bottom of the tank
- Thermopile design provides robust pilot to withstand down drafts and environmental conditions
- Easy-to-access combustion chamber
- Piezoelectric ignitor allows for push-button pilot lighting
- LED indicator gives visual confirmation that the pilot is on, and provides diagnostics and troubleshooting information
- Top mounted heavy duty anode rod for added tank protection
- 3/4" side taps on 75 USG model for combination applications

### Warranty:

- 6 year limited tank and parts on ProLine® models
- 8 year limited tank and parts on ProLine® Master models
- 2 or 4 year tank warranty extension kits are available for 6 year models



Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	First Hour Rating (GPH)	UEF	Height (in.)	Diameter (in)
AV30NR	30	32,000	32	55	0.60	50-1/4	20
AV40N	40	40,000	41	67	0.58	51-1/2	22
AV40TN	40	40,000	42	70	0.66	61-3/4	20
AV50N	50	40,000	43	93	0.62	53-1/4	24
AV50TN	50	40,000	42	88	0.62	61	22
AV60N	60	52,200	54	104	0.59	62-3/4	24
AV75N*	75	75,100	80	N/A	N/A	61	26-1/2
AV40NM	40	40,000	41	67	0.62	51-1/2	22
AV50NM	50	40,000	43	93	0.61	53-1/4	24

Propane models sub N with P.

\*Model has side connections



# WATER HEATERS



## PROLINE® MASTER



### Features:

- ProLine® XE models are residential water heaters with commercial-grade quality
- Built-in heat traps on the water inlet and outlet reduce the amount of heat lost through piping
- Flue damper for increased energy efficiency and performance
- Turbulator dip tube reduces sediment build-up at bottom of the tank
- Glass lining provides superior protection against tank corrosion
- Plugs into a standard 110/120V outlet (10 ft. power cord included)

### Warranty:

- 6 year limited tank and parts



Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	First Hour Rating (GPH)	UEF	Height (in.)	Diameter (in)
JW640S40N-AV-E2S	40	40,000	41	67	0.67	47-3/4	22
JW640T40N-AV-E2S	40	40,000	41	67	0.67	64-1/4	24
JW650S40N-AV-E2S**	50	40,000	41	81	0.67	49-1/2	24
JW650T40N-AV-E2S	50	40,000	41	81	0.67	63-1/2	22

Propane models sub N with P.

\*Model has side connections

\*\*50 USG Short models are not available for Propane



# AC Smith

## CONSERVATIONIST®



### Features:

- 80% thermal efficiency
- Fully automatic controls with safety shut off
- Low profile diverter furnished as standard equipment
- Hand hole clean out allows for easy tank cleaning

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Atmospheric Water Heaters

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
BT-80	74	75,100	81	80%	61-1/8	26-1/2
BT-100	98	75,100	81	80%	68-5/8	27-3/4

# WATER HEATERS



PROLINE®



## Features:

- ProLine® models are residential water heaters with commercial-grade quality
- Thermopile system provides a robust pilot to withstand environmental conditions such as down drafts
- Suitable for closet installations due to direct-vent design not requiring an external power supply or chimney
- Sealed combustion chamber design, eliminating the need for a flammable vapour sensor
- 50 USG high input model available for combination applications
- 3/4" side taps available on 50 USG high input model for combination applications
- LED indicator gives visual confirmation that the pilot is on, and provides diagnostics and troubleshooting information
- Glass lining provides superior protection against tank corrosion
- Top-mounted heavy-duty anode rod for added tank protection
- Maintenance is simple with an easy-to-access combustion chamber and conveniently located drain valve

## Warranty:

- 6 year limited tank and parts
- 2 or 4 year tank warranty extension kits are available

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	First Hour Rating (GPH)	EF	Height (in.)	Diameter (in)
DV40N	40	38,000	42	72	0.63	49-5/8	22
DV50N	50	40,000	43	91	0.62	58-7/8	22
DV50HIN*	50	47,000	51	92	0.61	60	22

Propane models sub N with P.  
\*Model has side connections



# AC Smith

## MASTER FIT®



### Features:

- 80% thermal efficiency
- Fully automatic controls with safety shutoff
- Eliminator™ self cleaning device directs incoming cold water to sweep the bottom of the tank so sediment does not accumulate
- CoreGard™ long-life, stainless steel core anode rods protect the tank from the harmful effects of water

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90 °F Temp. Rise (GPH)	Thermal Efficiency	Height (in.)	Diameter (in)
BTRC-197	95	199,000	214	80%	75	27-3/4
BTRC-200A	100	199,000	214	80%	72	30-1/4
BTRC-250A	100	250,000	269	80%	72	30-1/4
BTRC-275A	100	275,000	296	80%	72	30-1/4
BTRC-400A	100	390,000	430	80%	75-1/2	30-1/4

"A" in model represents ASME construction  
 "(A)" suffix identifies optional ASME model available.  
 Propane gas models available

# WATER HEATERS



VOLTEX



### Features:

- Improved efficiency design to ensure available hot water at the lowest possible cost and up to a 3.45 Uniform Energy Factor (EF) Rating conserves energy and meets Energy Star qualifications.
- Control system checks to ensure the tank is full of water during start up to prevent dry firing the heating elements.
- Select from Efficiency, Hybrid, or Electric modes to match heating requirements.
- Temperature and pressure relief valve protects the tank against excessive temperature and pressure.
- Permits installation in confined places and allow using cool air discharge for cooling other areas at home

### Warranty:

- 10 year limited warranty



Heat Pump Water Heater

Model	Capacity (USG)	Backup Element Wattage	First Hour Rating GPH	UEF	Height (in.)	Diameter (in)
HPTU-50N	50	Upper 4.5kw Lower 4.5kw	79 Gal	3.45	63	22
HPTU-66N	66	Upper 4.5kw Lower 4.5kw	79 Gal	3.45	61	27
HPTU-80N	80	Upper 4.5kw Lower 4.5kw	79 Gal	3.45	69	27





## PROLINE® MASTER



### Features:

- ProLine® and ProLine® Master models are residential water heaters with commercial-grade quality
- Glass lining provides superior protection against tank corrosion
- Top-mounted heavy duty anode rod for added tank protection
- Styropour® base for added energy efficiency
- Tamper-resistant drain valve
- Thermostatically controlled long life heating elements
- Easy to install and maintain
- The exclusive TankSaver® design aids the glass lining process to ensure optimum coverage and guards tank openings for watertight connections

### Warranty:

- 6 year limited tank and parts on ProLine® models
- 8 year limited tank and parts on ProLine® Master models
- 2 or 4 year tank warranty extension kits are available for 6 year models



# WATER HEATERS

Model	Capacity (USG)	Watts	Volts	First Hour Rating (GPH)	EF	Height (in.)	Diameter (in)
<b>TOP ENTRY</b>							
E50TE-30208	50	3000	208	60	0.92	48-3/4	22
E50TE-30240	50	3000 <sup>+</sup>	240	60	0.92	48-3/4	22
E50TE38240	50	3800 <sup>**</sup>	240	60	0.92	48-3/4	22
E50TE-45208	50	4500	208	60	0.92	48-3/4	22
E50TE-45240	50	4500 <sup>***</sup>	240	60	0.92	48-3/4	22
E50TE-55208	50	5500	208	60	0.92	48-3/4	22
E50TE-60240	50	6000 <sup>****</sup>	240	60	0.92	48-3/4	22
E66TE-38240	66	3800 <sup>**</sup>	240	72	0.88	60-1/4	24
E66TE-45208	66	4500	208	72	0.88	60-1/4	24
E66TE-45240	66	4500 <sup>***</sup>	240	72	0.88	60-1/4	24
E80TE-30208	80	3000	208	81	0.90	60-1/2	24
E80TE-30240	80	3000 <sup>+</sup>	240	81	0.90	60-1/2	24
E80TE-38240	80	3800 <sup>**</sup>	240	60	0.90	60-1/2	24
E80TE-45208	80	4500	208	60	0.90	60-1/2	24
E80TE-45240	80	4500 <sup>***</sup>	240	81	0.90	60-1/2	24
E80TE-55208	80	5500	208	81	0.90	60-1/2	24
E80TE-60240	80	6000 <sup>****</sup>	240	81	0.90	60-1/2	24
<b>TOP ENTRY</b>							
E50TEM-30240*	50	3000 <sup>+</sup>	240	60	0.92	48	22
E50TEM-38240*	50	3800 <sup>**</sup>	240	60	0.92	48	22
E50TEM-45240*	50	4500 <sup>***</sup>	240	81	0.90	60-1/2	24
<b>BOTTOM ENTRY</b>							
E50BE-30208	50	3000	208	60	0.91	48	22
E50BE30240	50	3000 <sup>+</sup>	240	60	0.91	48	22
E50BE-45208	50	4500	208	60	0.91	48	22
E50BE-45240	50	4500 <sup>***</sup>	240	60	0.91	48	22
E80BE-30208	80	3000	208	81	0.90	60-1/2	24
E80BE-30240	80	3000 <sup>+</sup>	240	81	0.90	60-1/2	24
E80BE-45208	80	4500	208	81	0.90	60-1/2	24
E80BE-45240	80	4500 <sup>***</sup>	240	81	0.90	60-1/2	24

\*Model has incoloy elements

\*Model is dual-rated. At 208V wattage is 2253.

\*\*Model is dual-rated. At 208V wattage is 2854.

\*\*\*Model is dual-rated. At 208V wattage is 3380.

\*\*\*\*Model is dual-rated. At 208V wattage is 4507.



## SPACESAVER®

### Features:

- Available in 2.5, 4, 6, 12, 19, 30, 40, 50 and 80 USG capacities
- Tank is glass-lined to provide superior protection against the corrosive effects of hot water
- Replaceable anode rod for additional tank protection
- Factory-installed plastic-lined heat trap nipples and patented Styropour base for added energy efficiency
- Tamper-resistant drain valve
- Thermostatically controlled long life heating elements
- Easy to install and maintain
- The exclusive TankSaver® design aids the glass lining process to ensure optimum coverage and guards tank openings for watertight connections

### Warranty:

- 6 year limited tank warranty
- 1 year limited parts warranty



# WATER HEATERS

Model	Capacity (USG)	Watts	Volts	Recovery Rate at 90 °F Temp. Rise (GPH)	Height (in.)	Diameter (in)
<b>TOP ENTRY SINGLE ELEMENT MODELS</b>						
SS025SE15	2.5	1440	120**	7	14-1/2	10-3/8
SS04SE15	4	1440	120**	7	19-1/4	10-3/8
<b>BOTTOM ENTRY SINGLE ELEMENT MODELS</b>						
SS06SEB15	6	1500	120	7	15-1/4	14-1/4
SS06SEB30	6	3000*	240	14	15-1/4	14-1/4
SS12SEB15	12	1500	120	7	22-3/4	16
SS12SEB30	12	3000*	240	14	22-3/4	16
SS620SSEB-15K	19	1500	120	7	25-1/2	20
SS620SSEB-30	19	3000*	240	14	25-1/2	20
SS630SSEBN-15K	30	1500	120	7	30	22
SS630SSEBN-30	30	3000*	240	14	30	22
<b>TOP ENTRY DOUBLE ELEMENT MODELS</b>						
SS640SDE3-15K	40	1500	120	7	50	20
SS640SDE3-30X	40	3000	208	14	50	20
SS640SDE3-30	40	3000*	240	14	50	20
<b>LOWBOY TOP ENTRY DOUBLE ELEMENT MODELS</b>						
SS630LDE-45X	30	4500**	208	20	31	22
SS630LDE-45	30	4500**	240	20	31	22
SS640LDE-45X	40	4500**	208	20	33-1/2	24
SS640LDE-45	40	4500**	240	20	33-1/2	24
SS650LDEN-45	50	4500	240	20	37-3/4	26-1/2

\*Depth on model SS025SE15 and SS04SE15.

\*\*Plug-in model.

\*Model is dual-rated. At 208V wattage is 2253.

\*\*Model is dual-rated. At 208V wattage is 2854.



Enhancing everyday living



**Features:**

- Factory installed PRV
- Factory installed 3/4" NPT di-electric nipples
- Factory installed heat traps
- Automatic temperature control
- High quality magnesium anode
- Rustproof glass-lined inner coating

**Warranty:**

- 6 year limited tank warranty
- 1 year limited parts warranty



Electric Water Heaters

Model	Capacity (USG)	Volts (V)	Input (kw)	Input (btuh)	Height (in.)	Diameter (in)
142STE-3S8M-E8	36	208	3.0	10,326	36-1/4	22
152STE-3S8M-E8	49	208	3.0	10,326	49-1/4	22
172STE-3S8M-E8	60	208	4.5	15,354	59-7/8	24



# WATER HEATERS



### Features:

- Standard voltages: 120V, 277V single-phase, and 208V, 240V and 480V unbalanced three-phase delta
- Temperature control adjustable from 110°F to 170°F on single- element or 120°F to 180°F on dual element models
- Element options from 1.5 kW to 6 kW (non-simultaneous or simultaneous operation), recovers from 6 GPH to 49 GPH at 100°F rise

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Model	Capacity (USG)	Input (kw)	Input (btuh)	Height (in.)	Diameter (in)
DEN-120	113	1.5-12	5,118-40,944	62-7/16	29-3/8

Electric Water Heaters



# AC Smith

## GOLD SERIES



### Features:

- Surface mounted thermostats
- Standard voltages: 208, 240 and 480V single-phase and three-phase delta
- Convertible from three-phase to single-phase (in field) and vice versa
- Heavy-duty medium watt density elements (three/immersion heater) have incoloy sheathing providing excellent protection against oxidation and scaling
- Internal fusing for system protection that safeguards elements and contactors from short circuits, overloading and line surges

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Model	Capacity (USG)	Input (kw)	Input (btuh)	Height (in.)	Diameter (in)
DRE-120	119	6-54	20,472-184,248	62-1/4	29-1/2

# WATER HEATERS



### Features:

- Immersion style thermostats
- Advanced electronic control
- Standard voltages: 208, 240 and 480V single-phase and three-phase delta
- Convertible from three-phase to single-phase (in field) and vice versa (except 208/54 kW).
- BACnet and Modbus compatible using optional BMS Gateway module

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Model	Capacity (USG)	Input (kw)	Input (btuh)	Height (in.)	Diameter (in)
DVE-120	119	6-54	20,472-184,248	62-1/4	29-1/2



# ACSmith

## CUSTOM Xi™ SERIES



### Features:

- All tanks feature ASME tank construction
- Inputs ranging from 3 to 90 kW
- Standard voltages: 208, 240 and 480V single-phase and three-phase delta
- 277, 380, 415, 575 and 600 voltages also available
- Advanced electronic controls
- Connect to an existing building management system via BACnet or MODBUS with optional ICC gateway
- Operating set point is adjustable from 90° to 190°F

### Warranty:

- 3 year limited tank warranty
- 1 year limited parts warranty



Model	Capacity (USG)	Max. Input (kw)	Max. Input (btuh)	Height (in.)	Diameter (in)
DSE-100A	100	90	307,170	70-1/4	28
DSE-120A	120	90	307,170	70-1/4	30-1/8

# WATER HEATERS



## Features:

- Suitable for combination applications, potable water and space heating
- Supplied with a blocked flue safety switch
- Glass-lined inner tank and sacrificial magnesium anodes extend tank life
- Ceramic fiber combustion chamber maximizes heat retention
- Universal mounting design fits most burners

## Warranty:

- 6 Year Limited Tank Warranty\* \*
- 1 Year Limited Parts Warranty

Consult installation manual for terms and conditions or visit [www.johnwoodwaterheaters.com](http://www.johnwoodwaterheaters.com) for more information.

\*\*3 year warranty for commercial installations

Model	Capacity (USG)	Input (btuh)	Recovery Rate at 90°F Temp. Rise (GPH)	First Hour Rating (GPH)	EF	Height (in.)	Diameter (in)
<b>CENTER-FLUE RESIDENTIAL</b>							
JW6 F307	32	84,000-105,000	120	113	0.62	50-5/8	20
JW6 F507	50	105,000	126	145	0.62	58-1/2	22
<b>DIRECT VENT RESIDENTIAL**</b>							
JW6 F307V	32	91,000	103	113	0.62	50-5/8	20

\*\*Direct vent models must use vent kit and burner supplied by John Wood®. Burner must be model-specified with pre-purge and post-purge features. Burners are sold separately and warrantied by the burner manufacturer.





This versatile NSF 61 ASSE 1017 mixing valve provides the ultimate performance for domestic hot water installations. The 5000 Series allows for domestic hot water storage at temperatures high enough to increase the effective storage capacity of a water heater, kill harmful bacteria and still be delivered at a safe 120°F or less.

**Sizes:** 1/2"-1"

**Available in:** SWT, NPT, PEX, PRESS, CPVC

## 5000 Series

Lead Free Mixing Valve



This lead free hot water control valve is designed for installation on water heating equipment to provide tempered water to point-of-use fixtures and is ideal for radiant heat applications. The double throttling design combines hot and cold water control for a sensitive response to water temperature changes in the mixing chamber. It consists of a lead free brass body, union connections, solid wax hydraulic principle thermostat, integral filter washers and check valves, virtual shutoff upon loss of cold water supply, and a locking mechanism for the temperature setting. The maximum pressure is 150 psi (10.3 bar). The adjustable field range temperature is 90 to 160 degrees F (32 to 71 degrees C).

**Sizes:** 1/2"-1"

**Available in:** SWT, NPT, PEX, QUICK-CONNECT & CPVC

## LF1170

Lead Free Mixing Valve

# WATER HEATERS



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**520**  
AngleMix™ Thermostatic Mixing  
Valve

The Caleffi AngleMix™ is the industry's only thermostatic mixing valve with an angle-style body. This configuration minimizes the use of elbow fittings for reduced installation time and cost. The AngleMix delivers precise mixed temperature stability as low as .5 gpm for today's high efficiency fixtures. In domestic recirculation systems, the tight inlet close-off performance prevents temperature creep without the need for return water balancing valve(s).

**Sizes:** 1/2" - 1"

**Available in:** SWT, NPT, PRESS



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**520**  
Tank Mixer™ Thermostatic Mixing  
Valve

The Caleffi TankMixer™ is a perfect mixing valve solution to maximize the capacity of modern high efficiency water heaters and minimize installation time. It comes packaged in a kit with everything needed for fast installation including union fittings and industry-exclusive press connections.

**Sizes:** 3/4"

**Available in:** SWT



**Features:**

**WHV:**

These potable water expansion tanks feature a 100% butyl diaphragm combined with a copolymer lower water chamber for maximum water and air separation. There is no better way to separate the system water from the tank's air pre-charge. The system connection has a stainless steel elbow to prevent corrosion, and the tanks are finished with appliance-quality paint to help prevent external corrosion. Not to mention, every WHV tank is comprehensively tested and backed by Flexcon's five-year limited warranty.

**PH:**

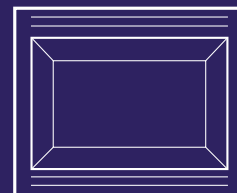
These potable water expansion tanks feature a 100% butyl diaphragm and plastic liner to separate the system water from the tanks air pre-charge. The system has a stainless steel sleeve to prevent corrosion, something no other manufacturer offers. And, the tanks are finished with appliance-quality paint to help prevent external corrosion. On top of all of this, every PH tank is comprehensively tested and backed by Flexcon's one-year limited warranty.



**PH & WHV**

Potable Expansion Tanks

Model	Capacity (USG)	Maximum Acceptance Volume (USG)	Connection	Height (in.)	Diameter (in.)
PH5	2.1	0.9	3/4"	11-5/8	8
PH12	4.8	2.2	3/4"	14-1/2	11
PH25	9.0	4.1	3/4"	19	12-1/2
WHV50	14.0	6.3	1"	16	21-3/4
WHV75	20.0	9.0	1"	16	29
WHV120	32.0	14.4	1"	21	28
WHV165	44.0	19.8	1-1/4"	21	36
WHV320	85.0	38.3	1-1/4"	26	44-1/2



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**HEARTH**

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## Direct Vent Fireplaces



The design of these Direct Vent Gas Fireplaces allows for a completely sealed system that does not compromise inside air quality of your home.

## Direct Vent Linear Fireplaces



Warm up your favourite room with the beauty of a Linear Fireplace.

The design of these Direct Vent Gas Fireplaces allows for a completely sealed system that does not compromise inside air quality of your home.

## Multi-Sided Fireplaces



Make the most of the best view in the house with our line of Direct Vent Multi-Sided Gas fireplaces. Ideally suited for new construction or renovations anywhere in your home.





## Direct Vent Freestanding Stoves



Safe and efficient heating appliances with the convenience of gas. Your best choice for installation anywhere throughout your home.

## Outdoor Living



A unique focal point for any deck or patio, our gas fire pits and fireplaces create an instant ambiance and a natural gathering place for friends and family.

## Gas Log sets



Enjoy the elegance and warmth of glowing embers and dancing flames around our oak log set. It is sure to be the focal point of your home.





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# INDOOR AIR QUALITY

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Model	Description	Rated Air Flow (cfm)	MERV Rating	Minimum Avg. % Eff. 1.0 to 3.0 Microns
GF-1625-11	Galvanized Cabinet/ Metal Door Replacement Media GF4541	1400	11	75%
GF-2025-11	Galvanized Cabinet/ Metal Door Replacement Media GF4551	2000	11	75%



Model	Description	Rated Air Flow (cfm)	MERV Rating	Minimum Avg. % Eff. 1.0 to 3.0 Microns
GF-MAC1400-11	Galvanized Cabinet/ Metal Door Replacement Media GF4541	1400	11	75%
GF-MAC2000-11	Galvanized Cabinet/ Metal Door Replacement Media GF4551	2000	11	75%
GF-MAC2020-11	Galvanized Cabinet/ Metal Door Replacement Media GF4551	1400	11	75%



Model	Description	Rated Air Flow (cfm)	MERV Rating	Minimum Avg. % Eff. 1.0 to 3.0 Microns
GF-MAC1200	Metal Cabinet/ Metal Door Replacement Media GF4521	1200	8	53.4%

# INDOOR AIR QUALITY



Model	Description	Rated Air Flow (cfm)	MERV Rating	Minimum Avg. % Eff. 1.0 to 3.0 Microns
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GF-MAC-L	Right Angle Galvanized Cabinet/ Metal Door Replacement Media GF4551	2000	11	75%
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Model	Description	Rated Air Flow (cfm)	MERV Rating	Minimum Avg. % Eff. 1.0 to 3.0 Microns
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AC22	Galvanized Cabinet/ Metal Door Replacement Media GF4551	Up to 20000	11	75%
AC24	Galvanized Cabinet/ Metal Door Replacement Media GF4551	Up to 20000	11	75%



## FILTER RACKS



Model	Dimensions (HxWxD)
GT16251	16"x25"x1"
GT12654	16"x25"x4"





Model	MERV Rating	Dimensions (HxWxD)
10364	8	10x20x1
10366	8	12x20x1
10369	8	14x20x1
10371	8	15x20x1
10375	8	20x20x1
10372	8	16x20x1
10416	8	20x24x1
10373	8	16x25x1
10376	8	20x25x1
10491	8	10x10x2
10451	8	10x20x2
10388	8	20x20x2
32064	8	20x30x2
10384	8	16x20x2
10452	8	12x24x2
10387	8	18x24x2
10386	8	16x25x2
10395	8	16x25x4

# INDOOR AIR QUALITY



## OPTI-CLEAN



### FEATURES

- 99.97% efficient long-life HEPA filter removes particles as small as 0.3 microns
- Standard MERV 7 or higher pre-filter
- Minimum 200 CFM, Maximum 1500 CFM
- Meets or exceeds ASHRAE Standard 170: Ventilation of Health Care Facilities
- Vertical design for smaller footprint compared to many competitors, and can be mounted and operated horizontally when necessary
- Portable and adaptable to nearly any location
- Heavy duty locking casters for easy and smooth transport
- HEPA filter rack and sealing design meet air leakage requirement
- Red lighted indicator to alert user when filters are overloaded (generally means pre-filter requires replacement)
- Green ON/OFF switch illuminates to verify when running
- 3-second motor start delay
- One year limited warranty

Air scrubbers

Model	Voltage	CFM	Dimensions (Height x Width x Depth)
FN1AAF001500	115V	500 minimum	49-5/8" x 22-1/16" x 17-5/8"



### FEATURES

Revolutionizing home air cleaning, combining two particle capture technologies to ensure clean, healthy air throughout your home. It allows air to circulate freely without putting any extra load on your air distribution system. The TFP removes 99.97% of health-threatening particles from the air in your home.

Warranty: 5 year replacement parts warranty. No warranty on collector/filter.

- Contains one replaceable TFP collector and one replaceable HEPA filter
- Easily removable cores for cleaning and replacement
- Filters spores and pollen

Model	Dimensions Inches (HxWxD)	Airflow High	Static Pressure
TFP3000HEPA	29x14.75x14.75	150 CFM	0" WG
TFP3000HEPA_RTO	29x14.75x14.75	150 CFM	0" WG

# INDOOR AIR QUALITY



## FEATURES

Fantech provides an added solution for better indoor air quality with the Whole House HEPA filtration unit. This small, compact unit can be installed on the existing ductwork of your furnace/air handler or can be used as an independent system mounted in the attic, crawl space or closet. HEPA filter is up to 99.97% effective to 0.3 microns.

Warranty: 7 year limited warranty on the motor, 5 year limited warranty on other components. Warranty does not cover filters

HEPA Filter

Model	Description	Dimensions Inches (HxWxD)	Airflow High
HERO HS300	Whole house HEPA filtration unit	14"x23"x19"	200/300 CFM
DM3000P	Duct mounted HEPA unit easily attached to furnace plenum. Built-in pressure switch for automatic activation	16"x23"x17"	240 CFM
CM3000P	Collar mount model comes with four collars, two pieces of UL Listed 8" flex duct and hanging chain.	20"x16-1/4"x13"	240 CFM



## 2000 SERIES



### FEATURES

- Improved air quality
- Reduces infectious disease
- Reduces mold, airborne allergens, bacteria, germs
- PCO module decreases off-gases and odors from air stream
- Improved air system efficiency
- FDA class II medical device K980745
- Safe and Effective
- Chemical-free disinfection
- Odour control

UV Lights

Model	System Capacity	Voltage	Number of Lamps	Lamp Size	Accessories
SF-2018	2.5 tons (1700 ft <sup>2</sup> )	110V	1	18"	Replacement Lamp(s) SF-1076R Replacement Ballast SF-1060E-R Optional Singlet Oxygen Lamp SF-1076R-03
SF-2000	5 tons (4000 ft <sup>2</sup> )	110V	2	18"	Replacement Lamp(s) SF-1076R Replacement Ballast SF-1060E-R Optional Singlet Oxygen Lamp SF-1076R-03
SF-2000-230	5 tons (4000 ft <sup>2</sup> )	230V	2	18"	Replacement Lamp(s) SF-1076R Replacement Ballast SF-1060E-R Optional Singlet Oxygen Lamp SF-1076R-03

SF-2018

SF-2000

SF-2000-230

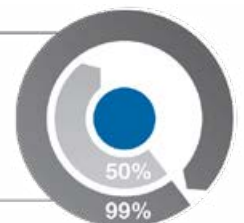
DEVICE UV INTENSITY (mW/cm<sup>2</sup>) 12" FROM SOURCE

1536

3072

3072

According to the Environmental Protection Agency (EPA), people spend approximately 90% of their time indoors and it has been found that indoor levels of pollutants may be between 50% and 99% higher than outdoor levels. Airborne problems contribute to allergies, asthma attacks, breathing difficulties, immune system failure, influenza, disease, sickness and even death.



### CENTER FOR DISEASE CONTROL ANALYSIS

Contributing Factors to Respiratory Problems  
(Allergies, Asthma and General Poor Health)



- 34% BIOAEROSOLS**  
Micro-organisms, mold, bacteria, virus.
- 31% VOCs**  
Chemical gases, solvents, odor causing contaminants.
- 35% PARTICULATES**  
Dust, dirt, pollen, spores, smoke, building materials.



# INDOOR AIR QUALITY



## ZEPHYR



### FEATURES

- Improved air quality
- Reduces infectious disease
- Reduces mold, airborne allergens, bacteria, germs
- PCO module decreases off-gases and odors from air-stream
- FDA class II medical device K980745
- Safe and Effective
- Chemical-free disinfection
- Odour control
- Device UV intensity 703 mW/cm<sup>3</sup>

Model	System Capacity	Voltage	Number of Lamps	Lamp Size	Accessories
SF-2124C	5 tons (4000 ft <sup>2</sup> )	24V	1	14"	Replacement Lamp(s) SF-1082LR-TC Replacement Ballast SF-010303 Optional Singlet Oxygen Lamp SF-1082-SIPT

## 2414 SERIES



### FEATURES

- Improved air quality
- Reduces infectious disease
- Reduces mold, airborne allergens, bacteria, germs
- PCO module decreases off-gases and odors from air-stream
- FDA class II medical device K980745
- Safe and Effective
- Chemical-free disinfection
- Odour control (Optional)
- Magnetic Mount
- Device UV intensity 704 mW/cm<sup>3</sup>

Model	System Capacity	Voltage	Number of Lamps	Lamp Size	Accessories
SF-2414	5 tons (4000 ft <sup>2</sup> )	24V	1	12"	Replacement Lamp(s) SF-1082LR-TC Replacement Ballast SF-010303 Optional Singlet Oxygen Lamp SF-1082-SIPT
SF-2414-Premium	5 tons (4000 ft <sup>2</sup> )	24V	1	12"	Replacement Lamp(s) SF-1082LR-TC Replacement Ballast SF-010303 Optional Singlet Oxygen Lamp SF-1082-SIPT



## LEGACY SERIES

Bypass Humidifiers



Model	Description	House Size	Dimensions (HxWxD)
1099LHS	Flow Through Humidifier/ manual humidistat included; Up to 3000 sq. ft. home	3000 sq.ft.	16"x16"x12-1/4"

# INDOOR AIR QUALITY



## EVAPORATIVE SERIES



Model	Description	House Size	Dimensions (HxWxD)
GF-3200DMM	Flow Through Humidifier/ manual humidistat included	3200 sq. ft.	12-1/4"x12"x8-1/2"
GF-4200DMM	Flow Through Humidifier/ manual humidistat included	4200 sq. ft.	15"x12"x8-1/2"
GF-1042DMM	Flow Through Humidifier/ manual humidistat included	2800 sq. ft.	14"x15-1/8" x 9"

## ELITE SERIES



Model	Description	House Size	Dimensions (HxWxD)
1000DMM	Fan Powered Flow Through Humidifier/ manual humidistat included; Up to 3000 sq. ft. home	3000 sq. ft.	16"x16-1/2"x10"
1000DMD	Fan Powered Flow Through Humidifier/ automatic humidistat included; Up to 3000 sq. ft. home	3000 sq. ft.	16"x16-1/2"x10"



## GF-5500



Steam Humidifiers

### FEATURES

- Built-in internal switch for either 115V or 230V selection (default factory setting 230V)
- Control board feature option to select either 11A or 14.5A (default factory setting 11A)
- GFX4 next generation humidistat controls the furnace blower motor
- 8" distribution manifold included that requires no condensate hose
- Drain hose included, no need for 1-1/2" ID field supplied ABS/PVC drain pipe
- Cylinder for use in regular or low conductivity water (125 to 1250  $\mu\text{s/cm}$ )
- Cylinder has a simple spark plug wire connection (no tools required for cylinder replacement)
- Produces up to 28.5 gallons per day (GPD)

	Part #	Description
		Duct Mount Kit (Included)
	7170	GFX4 Blower Motor Control (Included)
	7746	Replacement Cylinder
	GF-RMB35R	Room Fan Kit
	GF20:1	Steam Nozzle
	GF-12500	Air Proving Switch

# INDOOR AIR QUALITY



## LCD TOUCH SCREEN & WI-FI CONTROL



### FEATURES

- Touch-screen & Wi-Fi control
- Removes up to 75 & 100 pints per day
- Fan-only function
- Integrated handles
- Filter change reminder
- Compact design
- Equipped with the newest in safety standards
- Duct collars and hanging kits available separately

Dehumidifiers

Model	Capacity	Airflow	Voltage	Duct Connections	Dimensions (HxWxD)
DH75	Up to 75 pints per 24 hours @ 80°F - 60% RH	180 CFM	120V	8"	12.75"x12.6"x21"
DH100	Up to 100 pints per 24 hours @ 80°F - 60% RH	220 CFM	120V	10"	15.75"x12.6"x21"





# LIFEBREATH®

Indoor Air Systems

## RNC SERIES

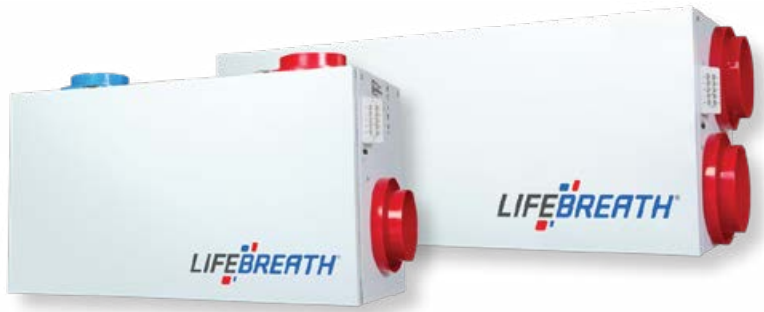


Applicable to models with an (\*) at end of model number

HRV

Model	Dimensions Inches (HxWxD)	Airflow CFM			Apparent Sensible Effectiveness (ASE) @32°F	Sensible Recovery Efficiency (SRE) @32°F	Performance Highlights
		.2" w.c.	.3" w.c.	.4" w.c.			
RNC6-ES*	Recirculating Defrost 17.25 x 22.75 x 14	176	164	152	73% 64 CFM	65% 64 CFM	
RNC6-HEX-TPD*	Recirculating Defrost 18.75 x 29.25 x 15	104	97	89	82% 64 CFM	75% 64 CFM	Featuring the patented HEX Core. The RNC6/RNC5-HEX units offer higher efficiency with all the same great features as the RNC5 units. The units exceed Energy Star requirements and exceeds SRE for energy efficient homes/ builder packages.
RNC 155	Recirculating Defrost 19 x 33.6 x 14.75	159	148	140	84% 64 CFM	75% 64 CFM	Horizontal model with door port balancing and 3 selectable high speed settings. Featuring a patented high efficiency HEX core.
RNC 205	Recirculating Defrost 18.75 x 33.62 x 15	193	182	172	85% 64 CFM	76% 64 CFM	New top port design for flexible installations with door port balancing and 3 selectable high speed settings. Featuring a patented high efficiency HEX core.

# INDOOR AIR QUALITY



HRV

Model	Dimensions Inches (HxWxD)	Airflow CFM			Apparent Sensible Effectiveness (ASE) @32°F	Sensible Recovery Efficiency (SRE) @32°F	Performance Highlights
		.2"w.c.	.3"w.c.	.4"w.c.			
155 MAX	Recirculating Defrost 18.75 x 33.62 x 14.75	159	148	140	84% 64 CFM	75% 64 CFM	Horizontal model with door port balancing. Featuring the high efficiency HEX core.
205 MAX	Recirculating Defrost 18.75 x 33.62 x 15	193	182	172	85% 64 CFM	76% 64 CFM	Top port design for flexible installations with door port balancing featuring the high efficiency HEX core.
267 MAX	Recirculating Defrost 18.75 x 33.62 x 15	273	267	261	80% 64 CFM	75% 64 CFM	Highest airflow available in a single core EC Motor powered HRV. Offers maximum heat recovery and efficiency. Ideal for large custom homes and fully dedicated installations.
195 DCS	Damper Defrost 18.75 x 49 x 14.75	210	195	176	86% 114 CFM	81% 64 CFM	Horizontal model with 5th port. Double core system for maximum heat recovery and energy efficiency. Side ducted.



## HERO SERIES



Model	Dimensions Inches (HxWxD)	Airflow (CFM)	Apparent Sensible Effectiveness (ASE) @32°F	Sensible Recovery Efficiency (SRE) @32°F
HERO 120H	26 x 25 x 13	119 @ 0.3" w.c.	86% @ 70 CFM	80% @ 70 CFM
HERO 150H	30 x 26 x 15	161 @ 0.4" w.c.	86% @ 70 CFM	80% @ 70 CFM
HERO 200H	30 x 26 x 17	218 @ 0.4" w.c.	87% @ 85 CFM	80% @ 85 CFM

HRV/ERV



## ERV SERIES



Model	Dimensions Inches (HxWxD)	Airflow CFM			Sensible Efficiency	Performance Highlights
		.2" w.c.	.3" w.c.	.4" w.c.		
130 ERVD*	17.25x22.75x14	155	146	138	75% 64 CFM	Top port, compact design. Unit features intelligent defrost damper motor HVI certified for cold weather, offers 3 selectable high speed settings and automatic frost prevention. SRE @ -25°C (-13°F): 60% 70 CFM (33 L/s)
170 ERVD	18.75x33.63x15	184	172	161	75% 66 CFM	Top port, high-efficiency unit features intelligent defrost damper motor exclusive to Lifebreath. Our premium ERV is HVI certified for cold weather, offers 3 selectable high-speed settings and automatic frost prevention. SRE @ -25°C (-13°F): 57% 65 CFM (31 L/s)

# INDOOR AIR QUALITY



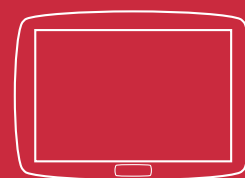
## ATMO SERIES



Model	Dimensions Inches (HxWxD)	Airflow (CFM)	Maximum Sensible recovery Efficiency
ATMO 150E	21-7/16 x 23-7/8 x 11-11/16	160 @ 0.4" w.c.	75%
ATMO 200E	21-7/16 x 23-7/8 x 16-5/8	200 @ 0.4" w.c.	75%







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# THERMOSTATS

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# tekmar®

A WATTS Brand

# Invita®

## WiFi Thermostat 564



Display color themes: black, white, espresso, latte & blue

Invita® WiFi Thermostat makes upgrading easy by using the existing 2 wires from any living space to connect to an HVAC Interface Module in the mechanical room. It works with most types of heating and cooling systems including conventional, heat pump and dual fuel while offering fan, relative humidity and ventilation control. The Invita Connect app provides secure WiFi adjustment, and can send email notifications when there are problems with the HVAC system. Adjust the temperature remotely using the Invita Connect app or use voice control with Google Assistant or Amazon Alexa devices. The Invita WiFi Thermostat offers a choice of five display screen color themes.

### FEATURES

- Voice control with Google Assistant or Amazon Alexa
- Relative humidity control
- Ventilation
- Water leak notification when connected to Watts FloodSafe Water Detector Shutoff
- Mobile and web app, warning email notifications
- Slim profile with multiple display color options
- Weather, outdoor temperature
- Programmable schedule with early start, energy monitoring

Model	System Type	Power Source	Program Style	Display Type	Colour
564	Universal - Single-Stage, Multi-Stage or Heat Pump	Hardwire	Programmable Geofencing	3-1/2" Touchscreen	White
564B	Universal - Single-Stage, Multi-Stage or Heat Pump	Hardwire	Programmable Geofencing	3-1/2" Touchscreen	Black

# THERMOSTATS



When connected to the Internet, the Watts® Home mobile app allows the thermostat to be controlled remotely. A 7-day, 4-event programmable schedule is available and the early start feature automatically learns to heat up the room by the scheduled time. An Away mode is quickly and easily accessed to provide energy savings when the space is unoccupied. The thermostat supports radiant floor heating and optional floor sensors can be installed to enhance comfort and protect floor coverings.

## FEATURES

- 3.5 inch color touchscreen
- English/French/Spanish languages
- Selectable background colors
- Mobile app for iOS and Android, supports optional floor sensor
- Energy monitoring
- Automatic software updates, outdoor temperature
- Local weather, email error and warning notifications
- Away energy savings mode, early start
- Time clock updated from Internet, 7 day programmable schedule

Model	System Type	Power Source	Program Style	Display Type
561	1H	Hardwire	Programmable Geofencing	3-1/2" Touchscreen
562	1H,2C, Fan	Hardwire	Programmable Geofencing	3-1/2" Touchscreen
563	Convention 2H,2C or Heat Pump 4H, 2C	Hardwire	Programmable Geofencing	3-1/2" Touchscreen

Wifi



# ecobee3 lite



## FEATURES

- Save money and reduce energy waste, automatically. If an entryway is left open for 5 minutes, your HVAC system will turn off and notify you, helping reduce your energy bill and help the environment
- Adjusts for comfort in high and low humidity
- Learns your routine and recommends changes to your thermostat schedule
- ecobee thermostats are optimized for one or two-stage heating and cooling equipment. Staging control lets you get the level of comfort you like while lowering energy use
- ecobee3 lite automatically runs the fan after a cycle to maximize heating, cooling, and dehumidification



WiFi

# THERMOSTATS



sen | si.  
Connect  
to Comfort



## FEATURES

- Easy to install & connect
- Contractor mode
- Contractor-on-call
- Smart alerts
- Humidity control
- Service reminders
- Usage reports
- Circulating Fan
- Keypad lockout & temperature limits
- Smart home compatible
- Dimensions 5.6" W x 3.4" H x 1.0" D



Wifi

MODEL NUMBER	PROGRAMS	STAGES BY SYSTEM	SYSTEM TYPE	APPLICATIONS	POWER SOURCE	SELECTABLE PERFORMANCE FEATURES
1F95U-42WF 1F95U-42WFB	7, NP, Geofencing	8 Max	1/1 2/2 4/2	Universal, Single Stage, Multi-Stage, Heat-Pump*	Gas/Oil/Electric 3 Wire Zone Valve Millivolt Compatible Economizer Humidity Control (H)-Humidity/ (D) - Dehumidify Dual Fuel Heat, Pump Control, Logic (L), Outdoor Sensor Options, Indoor (I), Outdoor (O) Remote Sensor Options, Indoor (I), Outdoor (O) Battery (B), Hardwire / Common (H), Power Sharing (PS) Auto Changeover	Programmable Fan (PF), Comfort Circulating Fan (CC) Filter Change Reminder Energy Mgt. Recovery / Early Start Total Keypad Lockout (T), Partial Keypad Lockout (P) Set-Point Temperature Limits Adjustable Min/Max Display Size, Backlight with Key Press (K), Continuous Backlight with Common (C)
			Universal Sensi Touch	✓ ✓ - - H, D L -	H	✓ CC ✓ ✓ T ✓ 8.0" Colour

\*Universal thermostats provide the flexibility to control single stage, multi-stage, or heat pump systems.



## SENSI SMART THERMOSTAT

WI-FI CONNECTED, PROGRAMMABLE



The award-winning Sensi Smart Thermostat keeps homeowners connected to comfort and keeps you connected to your customers. Our Contractor-On-Call feature puts your company information at your homeowners fingertips.

Programmable/ Non-Programmable

Model	System Type	Power Source	Program Style	Display Type
1F87U-42F	Universal - Single-Stage, Multi-Stage or Heat Pump	Hardwire, Battery	Programmable Geofencing	5 sq.in.

## 80 SERIES



The 80 Series thermostats are the perfect fit for every application with universal, conventional and heat pump models. The standard footprint makes replacements and upgrades easier than ever without leaving visible marks on the wall from the old thermostat.

Model	System Type	Power Source	Program Style	Display Type
1F85U-22PR	Universal - Single-Stage, Multi-Stage or Heat Pump	Hardwire, Battery	7,5+1+1,NP	5 sq.in.
1F83H-21PR	Heat Pump	Hardwire, Battery	Non-Programmable	4.5 sq.in.
1F83C-11NP	Single Stage	Hardwire, Battery	Non-Programmable	4.5 sq.in.



# THERMOSTATS



## 70 SERIES



The perfect upgrade from mechanical thermostat available as Heat Pump or Single Stage offering economy and value with proven reliability.

Model	System Type	Power Source	Program Style	Display Type
1E78-140	Single-Stage	Battery	Non-Programmable	1.2 sq.in.
1E78-144	Single Stage	Battery	Non-Programmable	1.2 sq.in.
1F72-151	Heat Pump	Hardwired	Programmable	1.2 sq.in.
1F78-144	Single-Stage	Battery	Non-Programmable	1.2 sq.in.
1F78-151	Single Stage	Battery	Programmable	1.2 sq.in.
1F79-111	Heat Pump	Hardwired	Non-Programmable	1.2 sq.in.

## BLUE SERIES

12" TOUCHSCREEN



Universal, Commercial, Humidity Control and Single Stage Thermostats provide ultimate comfort, features and performance.

Model	System Type	Power Source	Program Style	Display Type
1F95-1277	Universal, Single-Stage, Multi-Stage Heat Pump	Hardwired, Battery, Power Sharing	7,5+1+1, NP	12 sq.in.
1F95-1291	Universal, Single-Stage, Heat Pump, Humidity Control	Hardwired, Battery, Power Sharing	7,5+1+1, NP	12 sq.in.

Programmable/ Non-Programmable



## BLUE SERIES

6" SCREEN



Universal, Commercial and Easy Reader Thermostats offering more premium features than higher priced competitive models.

Programmable / Non-Programmable

Model	System Type	Power Source	Program Style	Display Type
1F95-0671	Universal - Single-Stage, Multi-Stage or Heat Pump, Commercial	Hardwire, Battery, Power Sharing	7, 5+1+1, NP	6 sq.in.
1F95EZ-0671	Universal - Single-Stage, Multi-Stage or Heat Pump, Easy Reader	Hardwire, Battery, Power Sharing	7, NP	6 sq.in.



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# TOOLS & ACCESSORIES

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QUALITY TOOLS THAT GO TO WORK WITH YOU<sup>®</sup>



# HVAC AND REFRIGERATION TOOLS



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# TWISTER<sup>®</sup> HAND TORCHES

## SILVER BULLET

RP3T6 Hand Torch with Self Igniting Silver Bullet<sup>®</sup> Tip

Open Regulator and pull down on the tip's bullet casing to activate the piezo electric spark ignitor.

Includes: RP3E Unitorch<sup>®</sup> regulator with swivel elbow and UT6 Twister<sup>®</sup> Silver Bullet<sup>®</sup> tip



RP3T6

	Propane	ZAPP GAS™
Soft Solder	3"	4"
Silver Braze	1"	1 1/4"



## TWISTER IGNITE HAND TORCH

HT44 Twister<sup>®</sup> Ignite Self Igniting Hand Torch

360° Swivel Tip

Operates in any position, even upside down.

Trigger Safety Lock

	HT44	
	Propane	ZAPP GAS™
Soft Solder	3"	4"
Silver Braze	1"	1 1/4"



## PENCIL FLAME

PCV25 Pencil Flame "Economy" Hand Torch

All brass construction. Operates efficiently on Propane or ZAPP GAS™. Adjustable pencil point flame. For soldering copper tubing and thawing out frozen pipes.

PCV25

	Propane	ZAPP GAS™
Soft Solder	7/8"	1"
Silver Braze	3/8"	5/8"



## HAND TORCH & ZAPP GAS™ KIT

MKT-4L  
RP3T5 hand torch with ZAPP GAS™ disposable cylinder kit for soldering and brazing. The UT5 Twister Tip swivels 360° and operates in any position even upside down for soldering and brazing in the most difficult positions.

RP3T5

	RP3T5	
	Propane	ZAPP GAS™
Soft Solder	3"	3 1/2"
Silver Braze	1"	1 3/4"



The Unitorch<sup>®</sup> Regulator is the safest regulator available for disposable cylinders. It has a piston inside the regulator that eliminates leakage problems.



RP3A  
Regulator with "A" Fitting Outlet



RP3B  
Regulator with "B" Fitting Outlet



RP3E  
Regulator with 360° swivel elbow for use with UT2, UT3, UT5, and UT6 Replacement tips





## DEDICATION TO THE TRADES

Since the company began in 1924, Milwaukee Tool has led the industry in both durability and performance. With an unwavering commitment to the trades, MILWAUKEE® continues to lead with a focus on providing innovative, cordless, trade-specific solutions. MILWAUKEE® is dedicated to delivering a steady stream of advanced solutions for the trades that offer increased productivity and unmatched durability.

## GAME-CHANGING SOLUTIONS

At MILWAUKEE® the phrase "good enough" doesn't exist in our vocabulary. Our goal is to solve problems in ways that have never been done before. The result: tools and equipment that offer unmatched levels of performance, productivity and durability.



## BUILT ON THE BEST FOUNDATION



### REDLITHIUM™ BATTERIES

They last longer, think faster and work harder than all other professional LITHIUM-ION batteries. Built to withstand even the harshest environments, REDLITHIUM™ Batteries deliver more work over the life of the battery, no matter what the job.



### MILWAUKEE® HIGH PERFORMANCE MOTORS

Highly advanced motor technology boosts efficiency, generating more power from a compact power source. That means the ultimate performance, durability and run-time comes in a smaller, lighter package.



### REDLINK™ INTELLIGENCE

An advanced combination of hardware and software, REDLINK™ Intelligence enables full-circle communication between our batteries and tools, allowing for unmatched levels of performance, protection and productivity.





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PIPE TOOLS & VISES  
SINCE 1896



## 183A Digital Multimeter

### Features:

- Measure Temperature
- Low pass filter for noisy environments
- Up to 4,000 micro farads
- CAT II 1000V CAT III 600V rated: cULus
- 3-year limited warranty



## 265 Digital Clamp-On Multimeter

### Features:

- 400 Amps AC
- Measure Temp. differential
- Frequency, Min/Max/Hold/Record, Data hold and Peak hold
- Up to 4,000 micro farads
- CAT III 600V rated: cULus
- 3-year limited warranty



## 270 Digital Clamp-On Multimeter

### Features:

- 400 Amps AC
- Measure Temp. differential
- Frequency, Min/Max/Hold/Record, Data hold and Peak hold
- Up to 40,000 micro farads
- Up to 400 micro amps
- CAT III 600V rated: cULus
- 3-year limited warranty



#### Features:

- Dual input with +/-120" H2O range
- 0.001" H2O maximum resolution
- Seven units of measure (mbar, kPa, PSI, mmHg, inHg, mmH2O, inH2O)
- Display – 4 digit with backlight

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## 621 Digital Manometer



#### Features:

- Smart probe functionality
- 0.01 inH2O resolution
- High accuracy +/-0.02 inH2O less than 1 inH2O; 1.5% above 1 inH2O
- Temperature compensated
- Trim mode to stabilize fluctuating readings
- Seven units of measure: mbar, inH2O, kPa, PSI, mmHg, inHg, and mmH2O.

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## SP620C1 Smart Manometer



#### Includes:

- 621 manometer
- A774 6' tubing
- A776 static tips (2)
- A603 barbed fitting (2)
- A605 T fitting (2)
- A613 protective rubber boot with magnets
- A901CP carrying case

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## 621C3 Digital Manometer



## DC580 Anemometer

### Features:

- Measure air velocity and temperature simultaneously
- Measure cubic meters per minute (CMM) without an air-balance hood
- Field replaceable smart hot wire and vane probes
- Communicate with Android & iOS Smart Phones using Bluetooth LE and TPI App
- Record minimum, maximum & average
- Multiple measuring units: m/s, km/h, ft/min, knots, mile/h
- Rubberized boot with magnets for hands-free operation
- Dual display with backlight

DC580C1 includes Vane Air Probe

DC580C2 includes Hotwire Probe

DC580C3 includes both Vane Air and Hotwire Probe

### Features:

- Measure air velocity and temperature simultaneously
- Communicate with smartphone using Bluetooth LE and TPI View App
- Record minimum, maximum & average readings
- Multiple measuring units: m/s, km/h, ft/min, knots, mile/h
- Automatically calculates and displays CFM through the View app average



## SP555 Wireless Air Velocity Probe

### Features:

- Measure air velocity and temperature simultaneously
- Communicate with smartphone using Bluetooth LE and TPI View App
- Record minimum, maximum & average readings
- Multiple measuring units: m/s, km/h, ft/min, knots, mile/h
- Automatically calculates and displays CFM through the View app average



## SP565 Wireless Thermal Anemometer



# TOOLS & ACCESSORIES



**708**  
**Combustion Analyzer**

**Features:**

- Pump driven for fast response time
- Will not shutoff if 15 ppm CO is present for increased safety
- Stores up to 50 readings
- 1 ppm sensitivity (CO)
- Push on fittings for fast easy use
- Selectable Fuels
- Large easy to read back-lit display
- Protective rubber boot, flue probe, and soft padded carrying case with shoulder strap.



**709**  
**Combustion Analyzer**

**Features:**

- Pressure differential manometer built-in
- Pump driven for fast response time
- Will not shutoff if 15 ppm CO is present for increased safety
- Stores up to 50 readings
- 1 ppm sensitivity (CO)
- Push on fittings for fast easy use
- Selectable Fuels
- Large easy to read back-lit display
- Protective rubber boot, flue probe, and soft padded carrying case with shoulder strap.



**DC710**  
**Smart Combustion Analyzer**

**Features:**

- Remote operation with FREE TPI App and your smartphone.
- Pump driven for fast response time
- Will not shutoff if 15 ppm CO is present for increased safety
- Stores up to 50 readings
- 1 ppm sensitivity (CO)
- Push on fittings for fast easy use
- Selectable Fuels
- Protective rubber boot, flue probe, and soft padded carrying case with shoulder strap.





## 719 Combustible Gas Leak Detector

### Features:

Testing for combustible gas leaks should be a part of any routine maintenance schedule. TPI analyzers have the ability to nullify background gas concentrations to more easily pinpoint gas leaks.

- >30 PPM Methane
- Visual & Audible leak confirmation
- 16" Gooseneck probe



## 777 Personal Carbon Monoxide Monitor

### Features:

Durable, Always-On, CO Monitor

Easy operation with audible, visual and vibrating alarm for STEL and TWA. Two-year battery life. Designed for personal safety, and useful in these areas and more:

Fire Departments; Industrial Workers; Home Inspectors; HVACR; Residential Appliance Repair, Property Management and Housekeeping



## 395 Refractometer

### Features:

Get accurate reading of the freezing point of fluids used in hydronic heating system.

- Measure propylene, ethylene, glycol, and battery fluid



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## EVERLOC+

### Power Tool Standard Kit

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#### Includes:

- Everloc+ 1/2, 3/4, 1 in. expander heads
- Everloc+ power tool base
- Everloc+ expander heads
- Everloc+ 1/2, 3/4, 1 in. compression jaws
- 2 DeWalt 12V Li-ion batteries
- DeWalt Li-ion battery charger
- Raucutter
- Tool case
- Grease and cleaning brush



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## EVERLOC+ XL

### XL Power Tool Standard Kit

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#### Includes:

- Everloc+ 1-1/4, 1-1/2, 2 in. expander heads
- Everloc+ XL power tool base
- Everloc+ XL expander heads
- Everloc+ XL 1/2, 3/4, 1 in. compression jaws
- 2 Makita 18V Li-ion batteries
- DeWalt Li-ion battery charger
- Large ratchet cutter
- Tool case
- Grease and cleaning brush

**FlashShield+**  
ENHANCED PROTECTION



FLEXIBLE GAS PIPING SYSTEM

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**Gastite**  
The System is the Solution™

# TOOLS & ACCESSORIES



Thermostat Wire

Model	Description
T2149-15-08	18-2 thermostat wire 75M
T2152-15-08	18-3 thermostat wire 75M
T2151-15-08	18-4 thermostat wire 75M
T2153-15-08	18-5 thermostat wire 75M
T2154-15-08	18-6 thermostat wire 75M
T2156-15-08	18-8 thermostat wire 75M
T2158-15-10	18-10 thermostat wire 75M



Communication Wire

Model	Description
IM100561	14-4C Mini-Split Tray Cable 600V-105C UV Rated 75M



Standard Switching Relays

Model	Coil Voltage	Switch Action	Contact Rating	Coil Cont. Current
90-290Q	24	SPNO	125/250 VAC	8 A
90-293Q	24	SPDT	125/250 VAC	8 A
90-291Q	120	SPNO	125/250 VAC	8 A
90-294Q	120	SPDT	125/250 VAC	8 A
90-292Q	208/240	SPNO	125/250 VAC	8 A
90-295Q	208/240	SPDT	125/250 VAC	8 A



Heavy Duty Switching Relays

Model	Coil Voltage	Switch Action	Contact Rating	Coil Cont. Current
90-360	24	SPNO	125/250 VAC	12 A / 8 A*
90-370	24	SPDT	125/250 VAC	12 A / 8 A*
90-380	24	SPNO/NC	125/250 VAC	12 A / 8 A*
90-362	120	SPNO	125/250 VAC	12 A / 8 A*
90-372	120	SPDT	125/250 VAC	12 A / 8 A*
90-374	208/240	SPDT	125/250 VAC	12 A / 8 A*
90-384	208/240	SPNO/NC	125/250 VAC	12 A / 8 A*

\* 12 Amps. Continuous, 60 @ 125 VAC/ 8 Amps. Continuous, 48 Amps. Inrush @ 250 VAC



DPDT Relay

Model	Coil Voltage	Switch Action	Contact Rating	Coil Cont. Current
90-340	24	DPDT	125/250 VAC	12 A / 6 A*
90-341	120	DPDT	125/250 VAC	12 A / 6 A*
90-342	208/240	DPDT	125/250 VAC	12 A / 6 A*

\* 12 Amps. Continuous, 60 @ 125 VAC/ 6 Amps. Continuous, 35 Amps. Inrush @ 250 VAC



Transformers

Model	Primary	Secondary	VA	Primary/ Sec. Connections
S84-11	120 VAC	24 VAC	40 VA	Lead/ Screw Terminals
S84Z-90	120/208/240 VAC	24 VAC	40 VA	Lead/ Screw Terminals



Vinyl Tubing

Model	Description
7-14P	1/4" ID 100' clear vinyl
7-38P	3/8" ID 100' clear vinyl
7-12P	1/2" ID 100' clear vinyl
7-58P	5/8" ID 100' clear vinyl
7-78P	7/8" ID 50' clear vinyl



Heat Pump Stand

Model	Description
ACSE2438	Aluminum snow stand for heat pumps 24" x 24" to 36" x 36"

Relays/ Transformers/ Tubing/ Stands







**Carson Supply**

t: 519.389.6245 | f: 519.389.4079 | [sales@carsonsupply.com](mailto:sales@carsonsupply.com) | [www.carsonsupply.com](http://www.carsonsupply.com)  
1071 Goderich St. Port Elgin, ON N0H 2C0