



PRODUCT GUIDE

FEBRUARY 2025



THE **SMART CHOICE** FOR
HEAT AND HOT WATER

IBC[®]

SUSTAINABILITY STANDOUTS



Sustainability Standout Seal

While many IBC products have sustainable features, certain products stand out as a cut above – and those products earn the Sustainability Standout™ Seal. It is given based on a number of our company's internally designed factors relating to product attributes like energy efficiency, longevity, carbon reduction, and more. We have added this seal in places like product information pages, marketing and training materials – all to help professionals recommend responsible products and consumers make smart purchasing decisions.

How The Seal Is Earned

To determine which products stand out among our sustainable offerings and have earned the right to bear the Sustainability Standout™ Seal, we created a proprietary point system. In our Sustainability Strategy Sessions during our product development process, we look at the Earth-friendly attributes of the product – such as efficiency, packaging, performance, features, and recyclability. We assign each sustainable attribute a point value and products that earn enough points bear the seal. Those that have not earned enough points may still be environmentally friendly. However, this seal is simply a way to make finding the best of the best easier.

Sustainable Standouts

We are working to bring the Sustainability Standout™ Seal to all the products that qualify. Look for it on upcoming product pages, videos, and other marketing materials to help you identify the product solutions that have earned a closer look.

CO₂ IMPACT SCORE



Choosing this product instead of a minimum efficiency alternative offsets CO₂ emissions equivalent to planting this number of trees over the product's lifetime.

*Based on a typical 15-year product lifetime.

Making a Difference by Design

One of the key considerations in the development of any sustainable product is how much it reduces the emissions of CO₂, a greenhouse gas, into the environment. Lowering our products' carbon footprint begins with the initial product design. IBC products are designed from the beginning to be innovative and amongst the most efficient with minimal CO₂ impact.

The CO₂ Impact Score

The reduced CO₂ impact of selecting a high efficiency IBC product instead of a minimal efficiency alternative is reflected in the product's CO₂ impact score. This score provides a simple means of measuring the reduced CO₂ emissions compared with a minimal efficiency alternative. The CO₂ Impact Score is internally calculated based on a typical product lifetime and does not denote a third party certification/seal.

How are Trees Related to CO₂?

When trees grow, they convert CO₂ to carbohydrates (sugar). They do this by photosynthesis and this process forms the building blocks of the tree. Choosing an IBC product instead of a minimum efficiency alternative yields an environmental benefit equivalent to planting a specific number of trees over the product's lifetime.

The CO₂ Impact Tree Icon

Throughout this brochure you will see the CO₂ Impact Tree Icon displayed. It will highlight the environmental benefit of choosing this high efficiency product saving you money, protecting natural resources, making your home a healthy place to live, and – perhaps most importantly – reducing your carbon footprint.

Max efficiency is assumed for all units at all times for all Treescore calculations. Total environment benefit numbers are achieved by multiplying benefit/yr with Heat-exchanger or Thermal-shock warranty to get total benefit over the course of life of the product. Values used for CO₂ emitted per million BTUs are 117lb for NAT GAS, 139lb for PROPANE. US electrical grid's average carbon footprint of 270lb/million BTUs is used as electricity carbon footprint. Runtime for units is assumed to be: Pool=1600hrs/year, Commercial=2000hrs/year. All products are compared to their min. efficiency counterparts based on application/use. (Example: HPPH is compared to NAT GAS Pool heater). For all calculations heaters with same BTU rating (heating capacity) are compared to baseline heaters with min. efficiency as per US regulatory authorities. Treescore is calculated based on lesser CO₂ emitted by our products vs CO₂ absorbed by trees. (CO₂ absorbed over 10years by a new average seedling planted today is 132.27lb). Lesser CO₂ emitted calculations exclude CO₂ footprint of building and recycling the product. Environmental benefit is only applicable for the time for which the higher efficiency product is used by customer.

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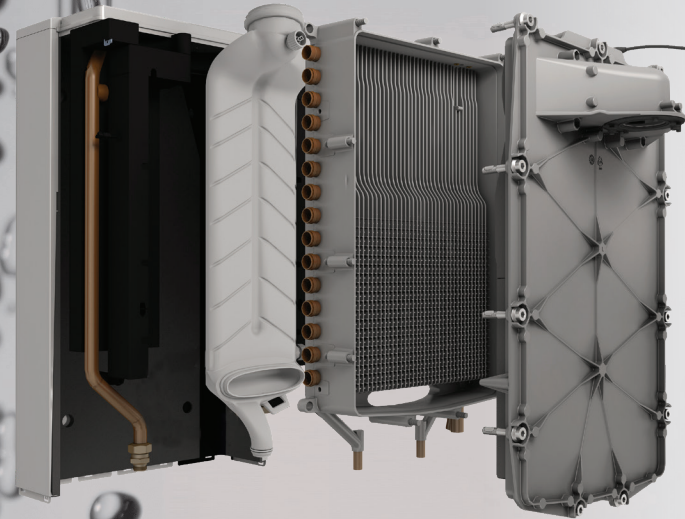
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SFCTM SUPERFLOW COMBI



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



EUROPEAN DESIGN MEETS AMERICAN SERVICEABILITY

You expect your combi boiler to provide enough hot water for both your kitchen and bathroom, as well as enough heat to make your home cozy and warm. Our SFC Combi is designed to do just that. Whatever your exact heating and hot water requirements may be, our SFC Combi boiler is sure to be a perfect match for you.

SUPERFLOW SFC-1: COMBI BOILER

SFC 125-1

16,500 to 99,000 BTU/H

SFC 160-1

23,000 to 125,000 BTU/H

SFC 199-1

28,500 to 125,000 BTU/H

SIMPLE

- 2 independent copper waterways embedded in a cast aluminum block
- A total of 5 moving parts - Unparalleled in the industry
- Illuminated touchscreen control display panel with built-in DHW recirculation pump relay means no need for external pump relays or timers
- Factory installed domestic water strainer saves installation time
- Contractor friendly: 2" venting up to 65 ft., and 2" vent adapter, standard pipe size connections, and extended pipe fittings

RELIABLE

- 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 199-1)
- No need for a 3-way valve or secondary DHW plate heat exchanger
- Will accept a 0-10 VDC signal

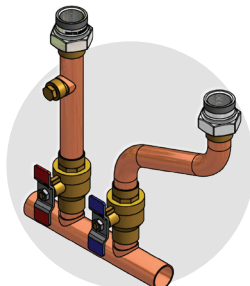
EFFICIENT

- Up to 96% AFUE with full ASME-rated heat exchanger
- Wireless cascade up to 8 units
- Packaged with a high efficiency variable speed pump (ECM)
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Advanced modulating temperature control



VENT KIT

See Page 53



EZ PIPE MANIFOLD

See Page 52



FLOOR STAND

Part No. P-267



SPECIFICATIONS	SFC 125-1	SFC 160-1	SFC 199-1
CSA Input (Natural Gas or Propane) - MBH	16.5-99	23-125	28.5-125
CSA Input (Natural Gas or Propane) - KW	4.8-29.0	6.7-36.6	8.4-36.6
CSA Output - MBH	15.8-89	22-111	27.1-111
CSA Output - KW	4.6-26.1	6.4-32.5	7.9-32.5
DHW - CSA Input (Natural Gas or Propane) - MBH	16.5-125	23-160	28.5-199
DHW - CSA Input (Natural Gas or Propane) - KW	4.8-36.6	6.7-46.9	8.4-58.3
A.F.U.E.	95%	94%	95%
Min. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	4	4	4
Max. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	14	14	14
Power (120Vac/60Hz) - Watts at Full Fire w/ Int. Pump	120	120	120
Weight (empty) - lbs/Kg	85/39	84/38	84/38
Pressure Vessel Water Content - USG/Liters	0.5-1.9	0.19/0.72	0.19/0.72
Max. Boiler Flow Rate - GPM/LPM	10/37.9	11 (41.6)	12/45.4
Min. Boiler Flow Rate - GPM/LPM	2/7.6	2/7.6	2/7.6
Max. Operating Pressure - Space Heating Coil - psig	43.5	43.5	43.5
Max. Operating Pressure - DHW Coil - psig	150	150	150
Min. Water Pressure - psig	8	8	8
Approved Installation Altitude - ASL	10,000 ft	10,000 ft	10,000 ft
Ambient Temperature - Low (°F/°C)	32/0	32/0	32/0
Ambient Temperature - High (°F/°C)	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%
Min. Water Temperature - Space Heating (°F/°C)	51/10	51/10	51/10
Max. Water Temperature - Space Heating (°F/°C)	194/90	194/90	194/90
Min. Water Temperature - DHW (°F/°C)	105/40	105/40	105/40
Max. Water Temperature - DHW (°F/°C)	149/65	149/65	149/65
Min. Flow Rate to Activate DHW Heating - GPM/LPM	0.5/1.9	0.5/1.9	0.5/1.9
Max. Flow Rate DHW Heating - GPM/LPM	4/15.1	7/26.5	7/26.5
Max. Equiv. Vent Length 2" (each side) CAN: ULC-S636	65'*	65'*	65'*
Max. Equiv. Vent Length 3" (each side) CAN: ULC-S636	120'	120'	120'
DHW Delivery: At 67°F/37.2°C Temp. Rise - GPM/LPM	3.2/12.1	4.1/15.5	5.0/18.9

* Approximate input derate of 10-16% at 2" maximum vent length.

CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.

CXTM COMBI



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



A UNIQUE SOLUTION FOR YOUR HOME HEAT AND HOT WATER NEEDS

Combining IBC's proven condensing technology with a revolutionary intuitive V10-control and compact SS heat exchanger design, the CXTM continues in the footsteps of the VX Series with the same quality, control features and efficiency you expect but with tankless DHW production built-in for all of your home heat and hot water needs.



CX SERIES: HIGH-EFFICIENCY COMBI BOILER

COMBI

CX 150

15,000 to 150,000 BTU/H

CX 199

20,000 to 199,000 BTU/H

FEATURES

- **Touchscreen Boiler Control:** Express Setup ▪ Remote Monitoring & Diagnostics ▪ Easy USB Programmability ▪ Intuitive Alert System ▪ Simplified Load Combining ▪ Visible Flame Current
- 95% A.F.U.E.
- ASME, 439 grade, SS firetube HX
- Brazed plate HX for DHW production
- Cascade up to 4 units
- Full boiler capacity available for both DHW and space heating
- 10:1 turndown ratio
- PVC/CPVC/PPs approved, vent lengths up to 50 ft. with 2" and 170 ft. with 3"
- Built-in combi block for easy supply of DHW and easy service from front of unit
- 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 CSA/UL approved LWCO and manual reset high limit
- Includes outdoor reset control of water temperature
- **MFZ Technology:** Moisture management protocol that protects and ensures long life for all components in the boiler.
- Easy to install and service. All combi block components can be easily replaced one at a time.
- All models feature common parts for easy servicing



VENT KIT

See Page 53



CONDENSATE TANK

See Page 54



FLOOR STAND

Part No. P-267



SPECIFICATIONS

	CX 150	CX 199
CSA Input (Nat. Gas or Propane) - MBH	15-150	20-199
CSA Input (Nat. Gas or Propane) - kW	4.4-44	5.9-58.3
CSA Output - MBH	14.3-138.5	19.1-183.7
CSA Output - kW	4.2-40.6	5.6-53.8
DHW - CSA Input (Nat. Gas or Propane) - MBH	15-150	20-199
DHW - CSA Input (Nat. Gas or Propane) - kW	4.4-44	5.9-58.3
A.F.U.E.	95%	95%
Min. Gas Supply Pressure (Nat. Gas or Propane) - Inch w.c.	4	4
Max. Gas Supply Pressure (Nat. Gas or Propane) - Inch w.c.	14	14
Ambient Temperature - Low	32°F/0°C	32°F/0°C
Ambient Temperature - High	122°F/50°C	122°F/50°C
Max. Relative Humidity (Non-Condensing)	90%	90%
Min. Water Temperature	34°F/1°C	34°F/1°C
Max. Water Temperature (Electronic Hi-Limit)	190°F/88°C	190°F/88°C
Max. ΔT - Supply/Return (Electronic Fence)	40°F/22.2°C	40°F/22.2°C
Max. Water Temperature Lockout Limit	201°F/94°C	201°F/94°C
Power Use (120 Vac/60 Hz) @ Full Fire - Watts (with pump)	94.8	106.9
Weight (Empty) - lbs/Kg	100/45.4	113/51.3
Pressure Vessel Water Content - USG/Liters	2.79/10.56	3.51/13.29
Max. Boiler Flow Rate - US gpm	19	25
Min. Boiler Flow Rate - US gpm	3	4
Max. Boiler Operating Water Pressure* - psig	50	50
Min. Boiler Water Pressure - psig	8	8
Max. DHW Water Pressure - psig	150	150
Min. DHW Water Pressure - psig	40	40
DHW Delivery at 70°F/39°C Temperature Rise - US gpm	4.1	5.5
Relief Valve Pressure (Supplied) - psig	30	30
Approved Installation Altitude - ASL	0-12,000'	0-12,000'
	2"	50'
	3"	170'
		100'

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SFTTM SUPERFLOW TANKLESS



THE LATEST IN TANKLESS TECHNOLOGY

If you'd like to shower with an uninterrupted hot water supply or run hot water from multiple taps at the same time, then the SFT Superflow is the perfect solution. The SFT is the latest innovation in high efficiency tankless water heaters. A continuous supply of hot water at a constant temperature guaranteed. And no water tank in sight!



SUPERFLOW SFT-1: TANKLESS WATER HEATER

SFT 199-1

28,500 to 199,000 BTU/H

SIMPLE

- A total of 4 moving parts - Unparalleled in the industry
- Illuminated touchscreen control display panel
- Built-in bypass valve to prevent temperature fluctuations
- Superior performance in hard water areas
- Contractor friendly: 2" venting up to 65 ft., and 2" vent adapter, and extended pipe connections
- Universal internal parts

RELIABLE

- Proven patented single pass Labyrinth heat exchanger with fully integrated copper waterways
- No flow reduction in hard water conditions
- Innovative state of the art electronic control

EFFICIENT

- Fully condensing one-piece heat exchanger
- Wireless cascade of up to 8 units. Multiple cascade configurations available.
- DHW recirculation pump control eliminates the need for an external timer
- Qualifies for top-tier energy rebates. Check your local utility for rebate opportunities.
- Ultra low NOx / low greenhouse gases
- Up to 5.2 GPM continuous at a 70°F rise
- Advanced temperature control



VENT KIT
See Page 53



FLOOR STAND
Part No. P-267

SPECIFICATIONS

SFT 199-1

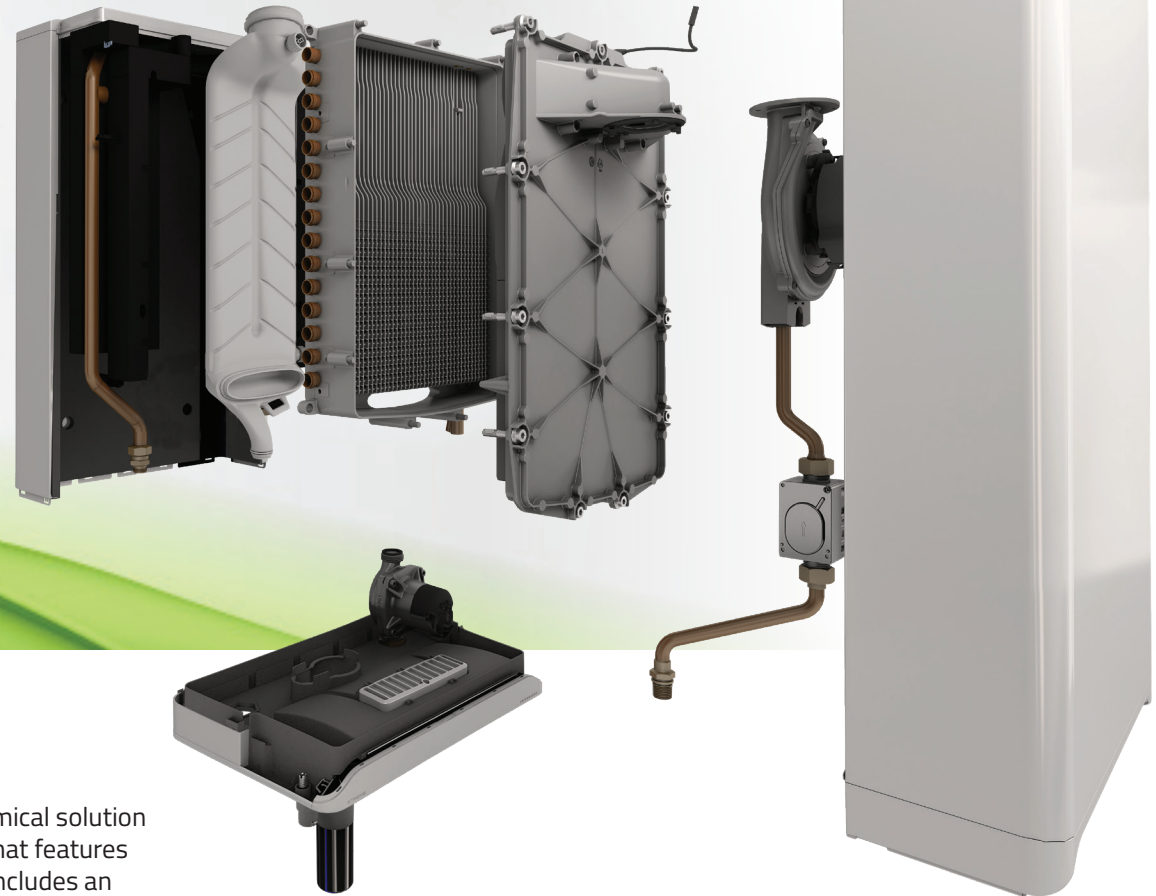
Heat Capacity (Input)	Natural Gas/Propane - 28,500-199,000 BTU/H
Efficiency Ratings (NG & LP)	U.E.F. - 0.9
Flow Rate (DHW): 35°F (19°C) Temp. Rise	10.1 GPM (38 LPM)
Flow Rate (DHW): 45°F (25°C) Temp. Rise	7.9 GPM (30 LPM)
Flow Rate (DHW): 67°F (36°C) Temp. Rise	5.4 GPM (20 LPM)
Dimensions (W/H/D)	17.7 in. x 29.8 in. x 10.9 in. (450 mm x 757 mm x 277 mm)
Weight (empty)	68 lb/31 kg
Installation Type	Indoor only wall-hung
Venting Type	Forced Draft Direct Vent
Ignition Type	Electronic Ignition
Water Pressure	40 psig - 150 psig
Gas Pressure (NG or LP*)	4 inch w.c. - 14 inch w.c.
Min. Flow Rate to Activate DHW Heating	0.5 GPM (1.9 LPM)
Pressure Vessel Water Content	0.19 USG / 0.72 L
Ambient Temperature - Low	32 °F / 0 °C
Ambient Temperature - High	122 °F / 50 °C
Max. Relative Humidity (Non-Condensing)	90%
Power Supply: Main Supply	120Vac. 60Hz
Power Supply: Watts at Full Fire	100 watts
Materials: Casing	Painted Steel and Plastic
Materials: Heat Exchangers	Copper Tubes in AL Block
Venting (Canada venting must meet ULC S636)	2" or 3" PVC, CPVC, Polypropylene
Vent Clearances	0" to combustibles
Safety Devices	Flame Proving Module, Flue Gas Temperature Sensor, Protective Fuse
Certified Design	ANSI Z21.10.3 CSA 4.3
Freeze Protection	Yes

** Units ship configured for Natural Gas (NG) with a Propane (LP) conversion kit included.*

SFB SUPERFLOW™ BOILER



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



HIGH-EFFICIENCY CONDENSING BOILER

Excellent value for money, the Superflow™ SFB Boiler offers an economical solution to all home heating needs. A compact, reliable, high-efficiency boiler that features a unique aluminum heat exchanger with copper waterways. The SFB includes an innovative wireless cascade feature which allows up to 8 Superflow™ units to operate together for any new or retrofit application.

SUPERFLOW SFB-1: CONDENSING BOILER

SFB 99-1

15,500 to 99,000 BTU/H

SFB 120-1

13,600 to 120,000 BTU/H



SIMPLE

- Copper waterways embedded in a cast aluminum block
- Universal parts for all models
- Intuitive touchscreen control display panel
- Easy-access component layout for servicing
- 2" vent lengths up to 65' each side
- Extended pipe connection fittings
- Built-in primary/boiler pump

RELIABLE

- Proven patented single pass Labyrinth HX w/ full integrated copper waterways
- A total of only 4 moving parts (Fan, Pump, Gas Valve, and Damper)
- Innovative state-of-the-art electronic controller
- Compatible with standard Propylene Glycol

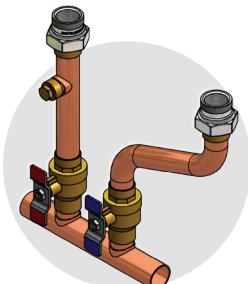
EFFICIENT

- Up to 96% AFUE with full ASME-rated heat exchanger
- Wireless cascade up to 8 units. Multiple cascade configurations available.
- Advanced modulating temperature control
- Outdoor reset technology increases efficiency by lowering the water temp. automatically
- Packaged with a high efficiency variable speed ECM pump
- Qualifies for high efficiency energy rebates



VENT KIT

See Page 47



EZ PIPE MANIFOLD

Part No. 251-063B



FLOOR STAND

Part No. P-267

SPECIFICATIONS

	SFB 99-1	SFB 120-1
CSA Input (Natural Gas or Propane) - MBH	15.5-99	13.6-120
CSA Input (Natural Gas or Propane) - KW	4.5-29	4-35.2
CSA Output - MBH	14.8-89	13-108
CSA Output - KW	4.3-26.1	3.8-31.7
A.F.U.E.	96%	95%
Min. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	4	4
Max. Gas Pressure (Nat. Gas or Propane) - Inch W.C.	14	14
Power (120Vac/60Hz) - Watts at Full Fire (w/ Pump)	126	126
Weight (empty) - lbs/Kg	85/39	85/39
Pressure Vessel Water Content - USG/Liters	0.5/1.9	0.5/1.9
Max. Boiler Flow Rate - GPM/LPM	10/37.8	11/41.6
Min. Boiler Flow Rate - GPM/LPM	2/7.6	2/7.6
Max. Operating Pressure - Space Heating Coil - psig	43.5	43.5
Approved Installation Altitude - ASL	10,000	10,000
Ambient Temperature - Low (°F/°C)	32/0	32/0
Ambient Temperature - High (°F/°C)	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%
Min. Water Temperature (°F/°C)	51/10	51/10
Max. Water Temperature (°F/°C)	194/90	194/90
Max. Equivalent Vent Length 2" (each side)	65' *	65' *
Max. Equivalent Vent Length 3" (each side)	120'	120'

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HC SERIES BOILER



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



ENERGY-EFFICIENT HEATING

Excellent value for the money, the HC Series offers an economical solution to all your home heating needs without sacrificing reliability. Same great features as the DC Series without tankless DHW. DHW demand priority standard on all HC models. Pair with one of our IBC indirect water heaters for a complete home heating system.



HC SERIES: HIGH-EFFICIENCY CONDENSING BOILER

HC 13-50

13,500 to 51,000 BTU/H

HC 33-160

33,000 to 160,000 BTU/H



FEATURES

- Unique and innovative single pass copper/aluminum heat exchanger ensures greater efficiency and eliminates water side corrosion
- Up to 95% A.F.U.E. with full ASME-rated vessel
- Built-in boiler pump
- PVC/CPVC/PPs approved
- 2" and 3" venting options available
- Contractor friendly. Easy to install, maintain, and service
- Up to 6.25:1 turndown ratio for better load matching
- Fewer parts ensure greater reliability
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- Reset heating - set point - DHW
- Includes air vent, outdoor sensor, and relief valve
- Exceptional value and longevity. Over 1.5 million installed
- Better reliability and durability
- 5-Year Manufacturer's Parts Warranty
- 10-Year Limited Heat Exchanger Warranty

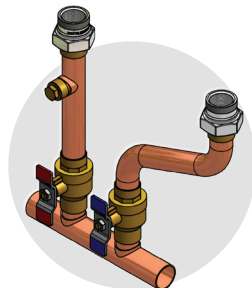
SPECIFICATIONS

	HC 13-50	HC 33-160
CSA Input (NG or LP) – MBH	13.5-51	33-160
CSA Input (NG or LP) – kW	3.95-14.94	9.7-46.9
CSA Output – MBH	12.4-45.4	30.4-140.0
CSA Output – kW	3.64-13.3	8.9-41.0
A.F.U.E.	95%	94%
Min. Gas Pressure (NG or LP) – inch w.c.	5	5
Max. Gas Pressure (NG or LP) – inch w.c.	14	14
Power (120Vac/60Hz) at Full Fire - Watts (w/o pumps)	126	164
Weight (empty) – lbs/kg	84/38	96/44
Pressure Vessel Water Content – USG/Liters	0.37/1.4	0.5/1.9
Max. Boiler Flow Rate – USgpm	9	11
Min. Boiler Flow Rate – USgpm	2	3
Max. Operating Pressure – Space Heating Coil – psig	43.5	43.5
Approved Installation Altitude – ASL – ft	10,000	10,000
Min. Water Temperature – Space Heating (°F/°C)	86/30	86/30
Max. Water Temperature – Space Heating (°F/°C)	194/90	194/90
Max. Equivalent Vent Length 2" (each side) – ft	35	35
Max. Equivalent Vent Length 3" (each side) – ft	120	120



VENT KIT

See Page 53



EZ PIPE MANIFOLD

Part No. 251-063B



FLOOR STAND

Part No. P-267

* CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.

SLTM SERIES G3



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



THE MOST ADVANCED STAINLESS STEEL FIRE TUBE BOILER ON THE MARKET

The SL Series G3 retains all the key features of past models and adds many extra including: Supply and return connections on both sides of residential models, up to 96% AFUE, turndown ratio of up to 10:1, built-in CSA/UL approved LWCO and manual reset high limit and PVC/CPVC/PPs approved venting. The V-10 intuitive touchscreen control features include load zoning for up to 4 pumps, reverse flow detection, simplified load pairing and built-in flame current measurement.



SL SERIES G3: HIGH-EFFICIENCY CONDENSING BOILER - RESIDENTIAL

SL 10-85 G3

10,600 to 85,000 BTU/H

SL 14-115 G3

14,000 to 115,000 BTU/H

SL 20-160 G3

20,000 to 160,000 BTU/H

SL 30-199 G3

32,000 to 199,000 BTU/H



FEATURES

- **Touchscreen Boiler Control:** Express Setup ▪ Remote Monitoring & Diagnostics ▪ Easy USB Programmability ▪ Optional True Native BACnet ▪ Intuitive Alert System ▪ Simplified Load Combining ▪ Visible Flame Current
- Better efficiency up to 96% A.F.U.E.
- All SL residential models feature supply and return connections on both sides.
- Multiple zone pump control - up to 4 zones. Replaces the need for external pump controls.
- PVC/CPVC/PPs approved - Combined venting up to 480 ft. on the SL 10-85G3 and SL 14-115 G3
- **MFZ Technology:** Moisture management protocol that 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 water heater directly to the boiler without primary loop.
- Turndown 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.
- Includes outdoor reset control of water temperature.
- Reverse flow detection.
- 10-Year Extended Parts & Labor Warranty for Residential models if registered within 90 days of the installation date (*See website for details*)

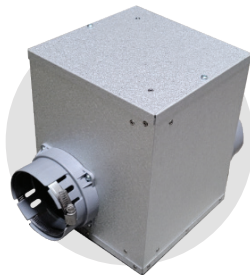
SPECIFICATIONS

	SL 10-85G3	SL 14-115G3	SL 20-160G3	SL 30-199G3
CSA Input (NG or LP) – MBH	10.6-85	14-115	20-160	32-199
CSA Input (NG or LP) – kW	3.10-24.9	4.10-33.7	5.86-46.9	9.37-58.3
CSA Output – MBH	10.1-79	13.3-109	19.0-147	30-181.3
CSA Output – kW	2.96-23	3.90-32	5.57-43.1	8.8-53.1
A.F.U.E.	96%	95%	95%	95%
Min. Gas Pressure (NG or LP)– inch w.c.	4	4	4	4
Max. Gas Pressure (NG or LP) – inch w.c.	14	14	14	14
Power (120Vac/60Hz) – at Full Fire – Watts (w/o pumps)	54	72	82	100
Weight (empty) – lbs/kg	85/39	85/39	102/46.3	152/69
Pressure Vessel Water Content – USG/Liters	2.47/9.35	2.47/9.35	1.72/6.51	5.09/19.3
Max. Boiler Flow Rate – USgpm	14	14	19	22
Min. Boiler Flow Rate – USgpm	2	2	4	6
Max. Operating Pressure – psig	30	30	30	30
Min. Water Pressure – psig	8	8	8	8
Approved Installation Altitude - ASL – ft	0-12,000	0-12,000	0-12,000	0-12,000
Ambient Temperature - Low (°F/°C)	32/0	32/0	32/0	32/0
Ambient Temperature - High (°F/°C)	122/50	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1	34/1
Max. Water Temperature (Electronic Limit) (°F/°C)	190/88	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F)	40	40	40	40
Max. Equivalent Vent Length 2" (each side) – ft	100	100	35	--
Max. Equivalent Vent Length 3" (each side) – ft	240	240	170	150



PARTS KIT

Part No. P-429



AIR FILTER KIT

Part No. P-357



FLOOR STAND

Part No. P-267

* CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.

SLTM SERIES GB



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



SUITABLE FOR NEW AND RETROFIT PROJECTS

Combining the SL 260/399 high efficiency condensing boilers with the flexibility of the Multiplex Racking System or Piping Kit ensures that there is an IBC solution for every application. This is the perfect cost-effective solution to any large residential or light commercial application, whether retrofit or new construction.



SL SERIES G3: HIGH-EFFICIENCY CONDENSING BOILER - LIGHT COMMERCIAL

SL 26-260 G3

26,000 to 260,000 BTU/H

SL 40-399 G3

40,000 to 399,000 BTU/H

FEATURES

- **Touchscreen Boiler Control:** Express Setup ▪ Remote Monitoring & Diagnostics ▪ Easy USB Programmability ▪ Optional True Native BACnet ▪ Intuitive Alert System ▪ Simplified Load Combining ▪ Visible Flame Current
- Better efficiency up to 95% A.F.U.E. with SL 26-260 G3
- 96% thermal efficiency with the SL 40-399 G3
- Multi-boiler communication allows up to 24 SL boilers to operate together without additional controls
- 10:1 turndown ratio
- Multiple zone pump control - up to 4 zones. Replaces the need for external pump controls
- PVC/CPVC/PPs approved - venting up to 400' combined
- **MFZ Technology:** Moisture management protocol that protects and ensures long life for all components in the boiler.
- DDC Control 0-10 VDC or 4-20 mA without additional controls
- Optional SL 40-399 316Ti Titanium enhanced heat exchanger available
- DHW opt-out priority multiple boiler systems
- Reverse flow detection
- Up to 10-Year Commercial Heat Exchanger Warranty (*See website for details*)



PIPING KIT

Part No. P-273



FLOOR STAND

Part No. P-266



MULTIPLEX RACKING

See Pages 48-49



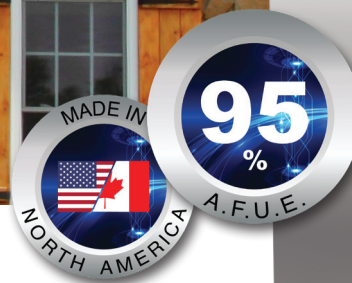
SPECIFICATIONS

	SL 26-260G3	SL 40-399G3
CSA Input (NG or LP) – MBH	26-260	40-399
CSA Input (NG or LP) – kW	7.6-76.2	11.7-117
CSA Output – MBH	24.9-239	38.4-383
CSA Output – kW	7.31-70.0	11.2-112
Efficiency	95% A.F.U.E.	96% CE/TE
Min. Gas Pressure (NG or LP) – inch w.c.	4	4
Max. Gas Pressure (NG or LP) – inch w.c.	14	14
Power (120Vac/60Hz) – at Full Fire – Watts (w/o pumps)	127	190
Weight (empty) – lbs/kg	162/74	240/110
Pressure Vessel Water Content – USG/Liters	4.64/17.6	6.66/25.2
Max. Boiler Flow Rate – USgpm	25	45
Min. Boiler Flow Rate – USgpm	6	20
Max. Operating Pressure – psig	30	80
Min. Water Pressure – psig	8	8
Approved Installation Altitude – ASL – ft	0-12,000	0-12,000
Ambient Temperature – Low (°F/°C)	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%
Min. Water Temperature – Space Heating (°F/°C)	34/1	34/1
Heating Surface Area – ft²/m²	22.71/2.11	36.56/3.40
Max. Water Temperature (Electronic Limit) (°F/°C)	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F)	40	40
Max. Equivalent Vent Length 3" (each side) – ft	200	--
Max. Equivalent Vent Length 4" (each side) – ft	--	200

* CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.



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



A UNIQUE BALANCE OF PERFORMANCE, EFFICIENCY, AND VALUE

Combining our proven condensing technology with a revolutionary updated intuitive V-10 control, the VX™ comes with the same quality, serviceability, and efficiency you expect from IBC but with a compact heat exchanger design saving time, space, and money.

VX SERIES: HIGH-EFFICIENCY RESIDENTIAL CONDENSING BOILER

VX 110

16,900-110,000 BTU/H

VX 150

23,000-150,000 BTU/H

VX 199

30,600-199,000 BTU/H

FEATURES

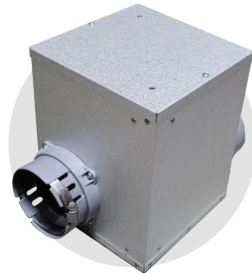
- **Touchscreen Boiler Control:** Express Setup ▪ Remote Monitoring & Diagnostics ▪ Easy USB Programmability ▪ Intuitive Alert System ▪ Simplified Load Combining ▪ Visible Flame Current
- State-of-the-art, fully automated manufactured, ASME, 439 grade, SS firetube heat exchanger
- 95% A.F.U.E.
- Cascade up to four units
- PVC/CPVC/PPs approved, combined vent lengths up to 480 ft.
- Built-in CSA/UL approved LWCO and manual reset high limit
- 6.5 turndown ratio
- Built-in 4-zone pump or valve control
- Includes outdoor reset control of water temperature
- **MFZ Technology:** Moisture management protocol that protects and ensures long life for all components in the boiler.
- All models feature common parts
- Unmatched safety features
- 5-Year Limited Manufacturer's Parts Warranty
- 15-Year Limited Heat Exchanger Warranty



FLOOR STAND
Part No. P-267



VENT KIT
See Page 53



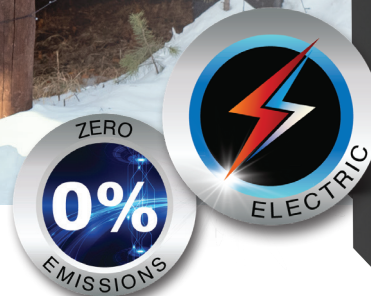
AIR FILTER KIT
Part No. P-357



SPECIFICATIONS	VX 110	VX 150	VX 199
CSA Input (NG or LP) – MBH	16.9-110	23-150	30.6-199
CSA Input (NG or LP) – kW	5-32.2	6.7-44	8.8-58.3
CSA Output (NG or LP) – MBH	16.2-101.5	22-138.5	29.2-183.7
CSA Output (NG or LP) – kW	4.74-29.8	6.5-40.6	8.6-53.8
A.F.U.E.	95%	95%	95%
Min. Gas Supply Pressure (NG or LP) – inch w.c.	4	4	4
Max. Gas Supply Pressure (NG or LP) – inch w.c.	14	14	14
Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1
Max. Water Temperature – (Electronic High Limit) (°F/°C)	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/22	40/22	40/22
Max. Water Temperature Lockout Limit (°F/°C)	201/94	201/94	201/94
Power (120Vac/60Hz) at Full Fire – Watts (w/o pumps)	90	79	90
Weight (Empty) – lbs/kg	67/30.4	78/35.4	88/39.9
Pressure Vessel Water Content – USG/Liters	1.88/7.12	2.7/10.56	3.51/13.29
Max. Boiler Flow Rate – USgpm	14	19	25
Min. Boiler Flow Rate – USgpm	2	3	4
Max. Operating Water Pressure – psig	50	50	50
Min. Operating Water Pressure – psig	8	8	8
Relief Valve Pressure – psig	30	30	30
Approved Installation Altitude – ASL – ft	0-12,000	0-12,000	0-12,000

* CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.

EBXTM SERIES



A CONVENIENT, 100% ENERGY-EFFICIENT HEATING SOLUTION

The EBXTM offers a sustainable heating solution as a primary or secondary heat source for space heating needs up to 41 MBH. It can also be used as backup for heat pump or solar heating applications. Its simple, compact design is easy and economical to install. Ideal for locations where the feasibility of fossil fuel (NG/LP) or venting is unavailable. The EBXTM requires little or no maintenance and is 100% energy-efficient with no carbon emissions produced.

EBX SERIES: HIGH-EFFICIENCY MODULATING ELECTRIC BOILER

EBX 4K-240
1,300-13,700 BTU/H

EBX 8K-240
2,700-27,300 BTU/H

EBX 10K-240
3,400-34,100 BTU/H

EBX 12K-240
4,100-41,000 BTU/H

FEATURES

- Easy set-up for either Set-Point or Outdoor Reset operation
- User-friendly interface with plain English
- Outdoor reset capable with outdoor sensor (sold separately)
- Modulating electric elements provide better temp control
- Full modulation control of heating elements (0-100%)
- Built-in 3-speed boiler pump
- Built-in flow sensor and high-limit safety
- No venting is required. No combustion means no greenhouse gas emissions.
- Top cover comes off for easy element replacement
- Only 2 moving parts (pump and flow meter)
- Compatible with IBC AHU Series air handlers
- Propylene Glycol compatible
- Low upfront cost
- Flexible installation
- Integrated drain port
- Aligned side supply and return water connections for series multi-unit operation
- Little infrastructure means low installation cost
- No greenhouse gas production means zero CO₂ emissions
- 100% efficient
- Dual Titanium heating elements for long life
- Can be used in high temp applications up to 190°F
- 5 year parts warranty
- 1 year element / pump warranty

SPECIFICATIONS	EBX 4K-240	EBX 8K-240	EBX 10K-240	EBX 12K-240
Power @ 240V	1.3-13.7 MBH (0.4-4.4kW)	2.7-27.3 MBH (0.8-8 kW)	3.4-34.1 MBH (1.0-10 kW)	4.1-41.0 MBH (1.2-12 kW)
Power @ 208V	1.0-10.2 MBH (0.3-3 kW)	2.1-20.5 MBH (0.6-6 kW)	2.6-25.6 MBH (0.8-7.5 kW)	3.1-30.7 MBH (0.9-9.0 kW)
Max. Current Draw (w/ pump) @ 240V	17.6 A	34.2 A	42.6 A	50.9 A
Max. Current Draw (w/ pump) @ 208V	15.4 A	30.0 A	37.1 A	44.3 A
Breaker Size	30 A	45 A	60 A	70 A
Copper Wire Size	10 AWG	8 AWG	8 AWG	6 AWG
Min. Ambient Temperature	32°F (0°C)	32°F (0°C)	32°F (0°C)	32°F (0°C)
Max. Ambient Temperature	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)
Max. Relative Humidity - Non-Condensing	90%	90%	90%	90%
Min. Water Temp.	34°F (1°C)	34°F (1°C)	34°F (1°C)	34°F (1°C)
Max. Water Temp. - Electronic Hi-Limit	190°F (88°C)	190°F (88°C)	190°F (88°C)	190°F (88°C)
Max. Water Temperature Lockout Limit	210°F (99°C)	210°F (99°C)	210°F (99°C)	210°F (99°C)
Weight - Empty	29 lb (3.2 kg)	29 lb (13.2 kg)	29 lb (13.2 kg)	29 lb (13.2 kg)
Min. Boiler Flow Rate	0.7 USgpm (2.6 Lpm)	1.4 USgpm (5.3 Lpm)	1.7 USgpm (6.4 Lpm)	2.1 USgpm (8.0 Lpm)
Max. Boiler Flow Rate	4.2 USgpm (16 Lpm)	4.2 USgpm (16 Lpm)	4.2 USgpm (16 Lpm)	4.2 USgpm (16 Lpm)
Max. Operating Water Pressure*	50 psig (345 kPa)	50 psig (345 kPa)	50 psig (345 kPa)	50 psig (345 kPa)
Min. Water Pressure	8 psig (55 kPa)	8 psig (55 kPa)	8 psig (55 kPa)	8 psig (55 kPa)
Element Construction	Titanium	Titanium	Titanium	Titanium

*Boiler ships with a 30 psi Pressure Relief Valve

4 Sizes: Space heating
up to 41 MBH
4KW 8KW
10KW 12KW

Primary or
supplemental heat
to existing hydronic
systems

A backup for heat
pump / solar heating
applications
up to 41 MBH

HPXTM HEAT PUMP



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



THE EASY-TO-INSTALL DECARB SOLUTION FOR YEAR-ROUND COMFORT

Backed by IBC's industry-leading hydronic technology, the HPXTM Air-to-Water Heat Pump is the perfect eco-friendly solution for year-round comfort without the need for fossil fuels. Catering to residential and light commercial applications, the HPXTM offers exceptional performance in a variety of climates. The first to be produced by a boiler manufacturer, HPXTM boasts a self-contained, refrigerant-based monobloc unit that is easy to install and service without the need for refrigeration licenses.

HPX SERIES: HIGH-EFFICIENCY MODULATING HEAT PUMP

HEAT
& COOL

HPX 3

HPX 5

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 to as low as -22°F/-30°C, and increases maximum supply water temperature.
- Compared to traditional heating and cooling systems, the HPX™ operates so quietly it can be likened to the sound emitted by a residential refrigerator. 38-53 dB operational sound level.
- 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.
- 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.



SPECIFICATIONS	HPX 3 (3 Ton)	HPX 5 (5 Ton)
Rated Voltage / Frequency / Phase	208/230V 60Hz 1Ph	208/230V 60Hz 1Ph
Heating Capacity Range *	9.6 - 44.2 MBH	14.4 - 56.6 MBH
Heating Capacity Range *	2.8 - 12.9 kW	4.2 - 16.6 kW
Cooling Capacity Range **	15.5 - 34.5 MBH	21.4 - 47.6 MBH
Cooling Capacity Range **	4.55 - 10.1 kW	6.3 - 14.0 kW
Total Load (@240V)	20.3 A	26.6 A
Noise measured at 1 meter	38 - 52 dB (A)	42 - 53 dB (A)
Weight (empty)	220 lb / 100 kg	320 lb / 145 kg
Compressor Rating Load	19.5 A	25 A
Fan Motor Rating Load	0.8 A	2 x 0.8 A
Minimum Circuit Ampacity	25.2 A	33 A
Max Fuse Size	40 A	50 A
Rated Water Flow	6.6 gpm / 1.5 m3/h	7.5 gpm / 1.7 m3/h
Water Pressure Drop (Head Loss)	7 feet / 2.1 m	9 feet / 2.7 m
Maximum Outlet Water Temp. (electronic hi-limit)	140°F/ 60°C	140°F/ 60°C
Design Water Pressure	30 psig / 207 kPa	30 psig / 207 kPa
Maximum Water Pressure	145 psig / 1,000 kPa	145 psig / 1,000 kPa
Minimum Water Pressure	8 psig / 55 kPa	8 psig / 55 kPa
Minimum Ambient Temperature	-22°F / -30°C	-22°F / -30°C
Maximum Refrigerant Pressure (low side)	305 psig / 2.1 MPa	305 psig / 2.1 MPa
Maximum Refrigerant Pressure (high side)	638 psig / 4.4 MPa	638 psig / 4.4 MPa
Maximum Allowable Refrigerant Pressure	696 psig / 4.8 MPa	725 psig / 5.0 MPa
Refrigerant Type and Charge	R410a / 2.2 kg	R410a / 2.5 kg
Refrigerant Safety Group Classification	A1	A1
Moisture Resistance	IPX4	IPX4
Model Number	HPX 3, IHEXXF1-003T	HPX 5, IHEXXF1-005T
Part Number	016-101 A1	016-106 A1

*for conditions Ambient Temp = 45°F (7°C), Outlet Water Temp = 106°F (41°C)

**for conditions Ambient Temp = 95°F (35°C), Outlet Water Temp = 54°F (12°C)

Whisper quiet operation can be compared to the hum of a residential refrigerator.

The perfect decarb solution for year-round comfort with zero CO₂ emissions.

Refrigerant stays outside the home for easy installation with no refrigerant license required.

SKY-35

HYBRID SYSTEM CONTROL



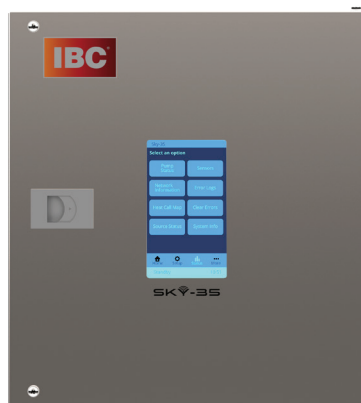
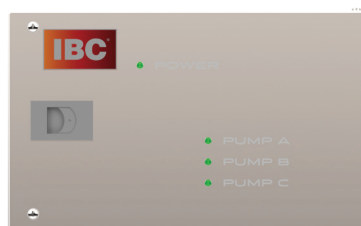
AN INTEGRATED CONTROL FOR HYBRID CONTROL

The Sky-35 Controller provides easy and versatile management of multiple heat sources (heat pumps, gas boilers, electric boilers, etc.), serving a variety of loads. It allows you to set up primary and backup heat sources to complement each other, whether strictly priority or more dynamically, to optimize comfort, operating cost, or energy consumption.

SKY-35 HYBRID SYSTEMS CONTROLLER

BUILT-IN FEATURES

- Intuitive user interface for easy and smart configuration
- Flexible options for a wide spectrum of hydronic applications
- Control and monitor up to 6 IBC HPX heat pumps, 4 IBC EBX electric boilers, 24 IBC gas boilers with V-10 control, and 3 third-party heat sources
- Adaptable hardware connections for easy updates as technologies change and systems are added
- Supply, return, and outdoor temperature sensors included
- Control up to 6 ECM pumps
- Conventional ON/OFF control for 3 pumps with included pump relay unit
- Remote connectivity through IBC's online portal
- Heat Pump overtemp protection
- 24V AC thermostat outputs
- Heat loop and buffer tank monitoring and control



Control and
monitor up to:

6 IBC HPX
Heat Pumps

4 IBC EBX
Electric Boilers

24 IBC Gas Boilers
(EX, VX, CX, SL)

3 Third-Party
Heat Sources

SKY-35 CONTROLLER SPECIFICATIONS

Rated Voltage / Frequency / Phase	24V / 60Hz / 1Ph
Total Load (Less Pumps)	10VA (0.42 A)
Weight	3.2 lb (1.45 kg)
Max. Fuse Size	2 A
Min. Ambient Temperature	32°F (0°C)
Max. Ambient Temperature	131°F (55°C)
Height	11.375" (288.5 mm)
Width	10.125" (256.7 mm)
Depth	1.75" (43.7 mm)
Part No.	016-201

PUMP RELAY MODULE ACCESSORY SPECIFICATIONS

Rated Voltage / Frequency / Phase	24V / 60Hz / 1Ph
3 x Relays 120V AC / 4.4 A Max each	12.0 A Total
Total Load (Less Pumps)	0.1 A
Weight	2.4 lb / 1.09 kg
Max. Fuse Size	15 A
Min. Ambient Temperature	32°F (0°C)
Max. Ambient Temperature	131°F (55°C)
Height	6.125" (156 mm)
Width	10.125" (257 mm)
Depth	2.125" / 49 mm



V-10

TOUCHSCREEN BOILER CONTROL



IBC CONTROL AT YOUR FINGERTIPS

All VX™, CX™, SL™ and EX™ models currently use the IBC V-10 Touch Screen boiler controller which features the latest in advanced control technology and software. Easy to set up and monitor, features include Express Setup, Advanced Diagnostics & Intuitive Alert System. With plain English warnings & error messages, no controller has ever been easier to use.

V-10 TOUCH SCREEN BOILER CONTROLLER

See www.ibcboiler.com for the latest software download.

EXPRESS SETUP

- Program your boiler in seconds with an interview-style quick start menu
- User-friendly interface for contractor and homeowner

ZONING

- Featuring multiple zone pump control - up to 4 zones. Replaces the need for external pump controls
- Simplified load pairing

FREE REMOTE ACCESS

- Built-in internet connectivity. Monitor your boiler's operation in real time from your smartphone.
- Remote monitoring and diagnostics

EASY USB PROGRAMMABILITY

- USB port for software updates and copying parameter settings to another boiler

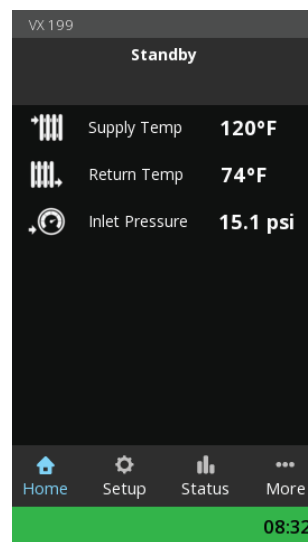
TRUE NATIVE BACnet

- Seamlessly integrate IBC BACnet enabled boilers (SL™, EX™) into your current building automation system

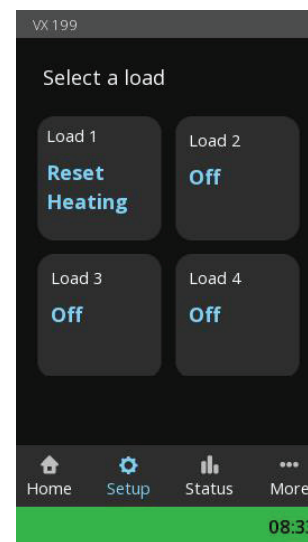
EXPRESS SETUP

- Intuitive alert system with plain English warnings and error messages
- Built-in alarm notification relay
- Reverse flow detection
- Automatic altitude adjustment
- Pre-programmed values for all load types

Updated screen graphics coming soon.



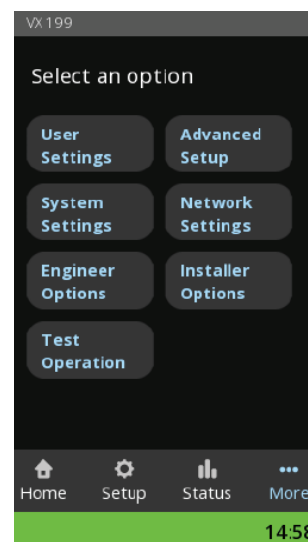
Home Screen



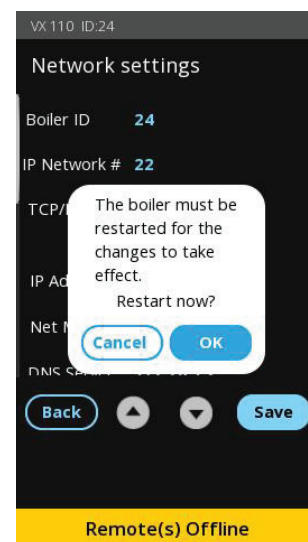
Easy Load Programming



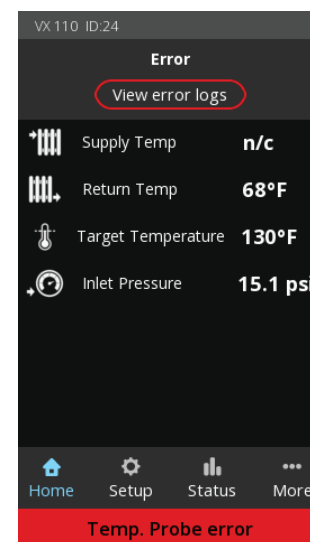
Large Clear Display



Settings



Remote(s) Offline
Network Information



Temp. Probe error
Plain English Error Codes

INTERSTOR[®]

BTI
IWT



MORE DHW THAN CONVENTIONAL GAS OR ELECTRIC WATER HEATERS

Combine the INTERSTOR Indirect Water Heater with any IBC condensing boiler for an unlimited supply of Domestic Hot Water. Since an indirect water heater works with the existing boiler heating system, hot water can be provided instantly whenever you need it and it is heated with the same high efficiency you've come to expect from your home space heating. Regular and MAX options available.

INTERSTOR INDIRECT WATER HEATERS

30, 40, 55, 65 USG
BTI

80 USG
IWT

80-MAX, 119-MAX
IWT

FEATURES

- High performance domestic hot water
- Stainless steel construction, pickled & passivated for the highest possible resistance to corrosion
- High-capacity smooth wall stainless steel coil
- Regular and Max options available
- Maintenance-free design
- Lightweight for easy installation
- 2" of polystyrene foam insulation for an extremely low standby heat loss
- Removable inspection port for easy access to coil and tank
- Standard Aquastat & 10K Ω temperature sensor

Model	Tank Capacity	Dimensions		Piping Connections NPT		Recirculation Connection	Relief Valve Connection	Approx. Shipping Weight
	USG	Height	Diameter	DHW In/Out	Boiler In/Out			
BTI 30	26.7	39.6"	20"	3/4"	1"	n/a	3/4"	50.7 lb
BTI 40	39.9	47.0"	21.4"	3/4"	1"	n/a	3/4"	66.2 lb
BTI 55	56.5	62.8"	21.4"	3/4"	1"	n/a	3/4"	91.5 lb
BTI 65	64.5	70.3"	21.4"	3/4"	1"	n/a	3/4"	97.5 lb
IWT 80	77.4	64.5"	24.5"	1"	1"	n/a	3/4"	166 lb
Commercial Options								
IWT 80-MAX	75	64.5"	28.0"	1 1/2"	1 1/2"	n/a	1"	188 lb
IWT 119-MAX	111	65.75"	28.0"	1 1/2"	1 1/2"	n/a	1"	246 lb

Model	Max. First Hour Rating @ 135°F	Continuous Rating @ 135°F	Boiler Output Required	Boiler Water Flow	Pressure Drop Through Coil
Based on 180°F boiler supply & 58°F entering cold water					
BTI 30	159 USG/Hr	137 USG/Hr	88,000 BTU/Hr	8 GPM	3 Ft. Water
BTI 40	188 USG/Hr	156 USG/Hr	100,000 BTU/Hr	8 GPM	3 Ft. Water
BTI 55	200 USG/Hr	156 USG/Hr	100,000 BTU/Hr	8 GPM	3 Ft. Water
BTI 65	325 USG/Hr	269 USG/Hr	172,000 BTU/Hr	13 GPM	4 Ft. Water
IWT 80	440 USG/Hr	374 USG/Hr	240,000 BTU/Hr	15 GPM	10.1 Ft. Water
Commercial Options					
IWT 80-MAX	719 USG/Hr	653 USG/Hr	420,000 BTU/Hr	25 GPM	16.7 Ft. Water
IWT 119-MAX	753 USG/Hr	653 USG/Hr	420,000 BTU/Hr	25 GPM	16.7 Ft. Water





CONTRACTOR TRAINING

The smart choice for training, IBC offers a variety of training methods to help you increase your product knowledge and stay at the top of your game. In-person classes, online training or training on the go, the choice is yours – depending on your needs and availability.





Boiler: SL G3 Series and JWT Indirect Tank
Application: Private Residence
Installed By: Acorn Service Group | Delta, BC



Products: SL 80-399 x 5
Application: Hydronic Heat to Forced Air Radiators
Installed By: Gleeson Plumbing, Inc. | Moorefield, ON



Boiler: DC 20-125
Application: Private Residence
Installed By: Mertz Plumbing & Heating | Edmonton, AB

These photos were shared on all IBC social media accounts as part of our "Feature Friday" spotlight series. If you would like to be featured, email your installation photos to marketing@ibcboiler.com



**FEATURE
FRIDAY**



DESIGNED WITH VERSATILITY IN MIND

The IBT buffer tank is designed for use with geothermal heat pumps/ chillers/ low mass boilers to reduce short cycling. They are used primarily in systems operating below the design load condition, or in systems having several low BTU cooling or heating loads calling at different times.



BUFFER TANKS

WATER

IBT 25

23.2 USG/88L

IBT 52

52.6 USG/199L

QUALITY CONSTRUCTION

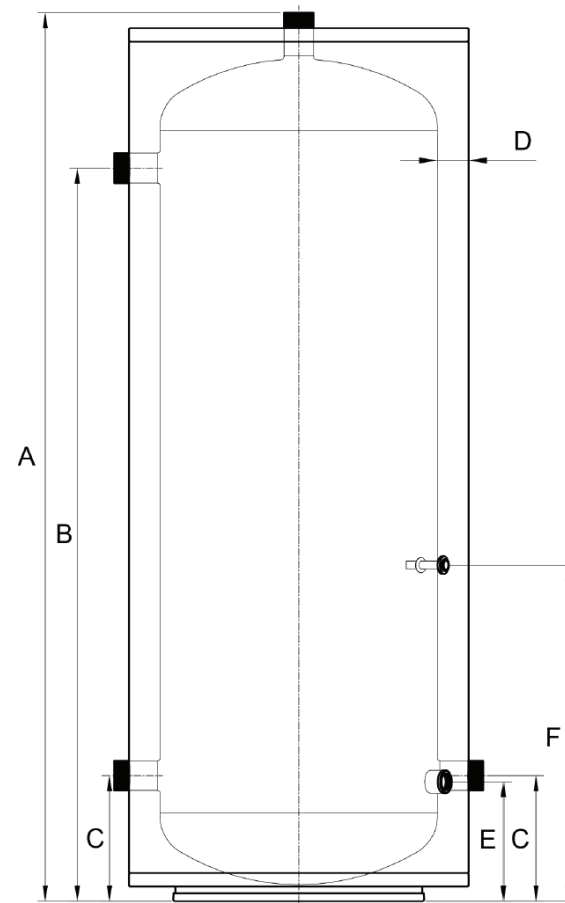
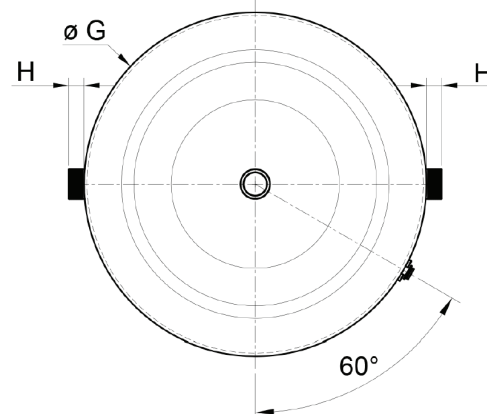
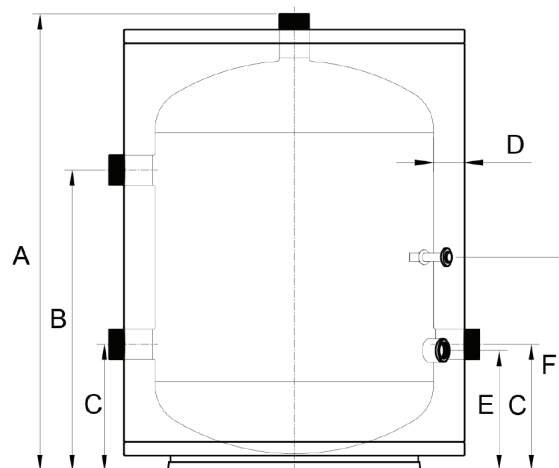
- AISI 444 grade Stainless Steel vessel
- 316L grade Stainless Steel connection fittings
 - Two 1.5" NPT ports for boiler circuit
 - Two 1.5" NPT ports for system circuit
- 3/8" ID thermal well for temperature control
- 2" thick polyurethane foam insulation, reducing standby tank temperature losses
- Top hot and side cold heating loop connections
- Front heating connections for a flexible installation
- Galvanized and powder-coated steel jacket

DURABILITY

- All welds are made by a high quality, automated TIG welding process which eliminates the possibility of crevice corrosion. The entire tank is then pickled and passivated both inside and outside to improve overall corrosion resistance. There is no substitute for Stainless Steel when it comes to water heating and storage.

BUFFER TANK DIMENSIONS

Model	A Height	B	C	D	E	F	G Diameter	H
IBT 25	74 cm / 29.1"	48.3 cm / 19"	20.3 cm / 8"	5 cm / 2"	19.3 cm / 7.6"	34.3 cm / 13.5"	55 cm / 21.7"	2.5 cm / 1"
IBT 52	144 cm / 56.7"	118.3 cm / 46.6"	20.3 cm / 8"	5 cm / 2"	19.3 cm / 7.6"	54.3 cm / 21.4"	55 cm / 21.7"	2.5 cm / 1"



BUFFER TANK SPECIFICATIONS

Model	Storage Volume	Piping Connections	Drain Size	Max. Tank Working Pressure
IBT 25	23.2 USG/88L	1.5" NPT	3/4" NPT	150 psi
IBT 52	52.6 USG/199 L	1.5" NPT	3/4" NPT	150 psi

EXTM SERIES



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



A MODEL FOR EVERY COMMERCIAL APPLICATION

Choosing the right heating system is crucial to maximizing a building's energy savings and environmental impact. The new floor standing EX Series model can help you do just that. Floor mounted with an intuitive touchscreen control, remote access, up to 97.9% thermal efficiency, multi-boiler communication, 10:1 turn-down and unrivaled safety features. Your installation can't get any easier.

EX SERIES: COMMERCIAL HIGH-EFFICIENCY CONDENSING BOILER

EX 400

40,000-399,000 BTU/H

EX 500

50,000-500,000 BTU/H

EX 700

70,000-700,000 BTU/H

EX 850

85,000-850,000 BTU/H



FEATURES

- **Touchscreen Boiler Control:** Express Setup ▪ Remote Monitoring & Diagnostics ▪ Easy USB Programmability ▪ Intuitive Alert System ▪ Simplified Load Combining ▪ Visible Flame Current
- Better thermal efficiency - up to 97.9%
- Turndown ratio of 10:1 means you have the power to heat the building in the coldest weather, and reduce short cycling when the weather is mild
- Multi-boiler communication allows up to 24 EX boilers to operate together without additional controls
- True Native BACnet enabled
- **MFZ Technology:** Moisture management protocol that protects and ensures long life for all components in the boiler.
- Reverse flow detection
- Outdoor reset technology increases efficiency by lowering the water temperature automatically
- CSA/UL approved low water cutoff and manual reset high limit
- CSD-1 compliant
- Unmatched safety features
- The most advanced stainless steel fire tube boiler on the market
- Condensed flue gasses clean vertical flue tubes while draining
- Custom water flow baffling to ensure even heat transfer and long life



Multiplex Racking

See Page 50

SPECIFICATIONS

	EX 400	EX 500	EX 700	EX 850
CSA Input (NG or LP) – MBH	40-399	50-500	70-700	85-850
CSA Input (NG or LP) – kW	11.7-117	14.6-146.5	20.5-205	24.9-249
CSA Output (NG or LP) – MBH	391	488	679	824
CSA Output (NG or LP) – kW	114.6	143	199	241.6
Thermal Efficiency	97.9%	97.5%	97%	97.1%
Min. Gas Supply Pressure (NG or LP) – inch w.c.	4	4	4	4
Max. Gas Supply Pressure (NG or LP) – inch w.c.	14	14	14	14
Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50	122/50	122/50°
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1	34/1
Max. Water Temperature – (Electronic High Limit) (°F/°C)	190/88	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	80/44	80/44	80/44	80/44
Max. Water Temperature Lockout Limit (°F/°C)	201/94	201/94	201/94	201/94
Power (120Vac/60Hz) at Full Fire – Watts (w/o pumps)	150	210	195	228
Weight (empty) – lbs/kg	414/188	441/200	486/220	510/231
Heating Surface Area – ft ² / m ²	55.3/5.14	72.9/6.77	84.6/7.86	99.88/9.28
Pressure Vessel water content – USG/Liters	13.5/51.1	12.3/46.6	17.5/66.3	16.5/62.5
Max. Boiler Flow Rate - USgpm	100	100	100	100
Min. Boiler Flow Rate - USgpm	10	15	18	21
Max. Operating Water Pressure - psig	160	160	160	160
Min. Operating Water Pressure - psig	8	8	8	8
Relief Valve Pressure - psig	50	50	50	50
Approved Installation Altitude – ASL – ft	12,000	12,000	12,000	12,000
Max. Equivalent Vent Length (each side) – ft	170	170	120	120

* CO₂ Impact Scores are internally calculated on a proprietary point system based on a typical product lifetime, by the methodology described/detailed on page 2 and does not denote a third party certification/seal.

IFIRE™



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



**ENGINEERED FOR
MAXIMUM HEATING
PERFORMANCE**



IFIRE-B: HIGH-EFFICIENCY CONDENSING BOILER

IFIRE 300B

IFIRE 400B

IFIRE 500B

IFIRE 650B

IFIRE 800B

IFIRE 1000B

Engineered for maximum performance, the IFIRE-B offers unprecedented value in the commercial new project or retrofit marketplace by providing stainless steel water-tube construction, versatile design, and adaptive controls on an intuitive Versa IC® self-learning touchscreen controller.

- Intuitive VERSA IC® modulating controller with 4.3" touchscreen display
- Instant Visibility - Built-in service light
Multifunction status light not only adds to the IFIRE's sleek design, but it also allows for instant visibility of boiler status
- Cascade up to 8 boilers in parallel or sequential modulation modes
- Maximum Performance - Reduce operating costs and heat your water quickly with up to 96.5% thermal efficiency
- 7:1 turndown ratio
- Quality stainless steel water-tube heat exchanger
- Weatherproof jacket allows for indoor or outdoor installation
- SQAQMD certified ultra-low NOx, <20PPM
- Designed, engineered, and assembled in USA



SPECIFICATIONS	300B	400B	500B	650B	800B	1000B
CSA Input (NG or LP) – MBH	42.8-300	57.1-399	71.4-500	92.8-650	114.2-800	142.8-1000
CSA Input (NG or LP) – kW	12.5-88	16.7-117	20.9-147	27.2-190	33.5-234	41.9-293
CSA Output (NG or LP) – MBH	41.3-289	54.7-383	68.6-480	89.1-624	109.7-768	137.1-960
CSA Output (NG or LP) – kW	12.1-85	16.1-113	21.2-141	26.2-184	32.3-226	40.3-282.4
Thermal Efficiency	96.5%	96%	96%	96%	96%	96%
Min. Gas Supply Pressure (NG or LP) – inch w.c.	4/8	4/8	4/8	4/8	4/8	4/8
Max. Gas Supply Pressure (NG or LP) – inch w.c.	10.5/13	10.5/13	10.5/13	10.5/13	10.5/13	10.5/13
Ambient Temperature – High (°F/°C)	150/65.56	150/65.56	150/65.56	150/65.56	150/65.56	150/65.56
Min. Water Temperature – (°F/°C)	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44
Max. Water Temperature – (Electronic High Limit) (°F/°C)	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44
Max. Water Temperature Lockout Limit (°F/°C)	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33
Power (120Vac/60Hz) at Full Fire – Watts (w/o pumps)	<7.5A	<7.5A	<7.5A	<7.5A	<7.5A	<7.5A
Weight (empty) – lbs/kg	441/200	441/200	416/189	501/227	547/248	627/284
Heating Surface Area – ft²/m²	34.8/3.23	34.8/3.23	39.1/3.64	52.2/4.85	60.9/5.66	75.4/7
Pressure Vessel Water Content – USG/Liters	3.8/14.38	3.8/14.38	4.3/16.28	5.6/21.20	6.6/24.98	8.1/30.66
Max. Boiler Flow Rate – USgpm	38	50	62	80	90	90
Min. Boiler Flow Rate – USgpm	15	20	25	32	39	49
Max. Operating Water Pressure – psig	160	160	160	160	160	160
Min. Operating Water Pressure – psig	14.5	14.5	14.5	14.5	14.5	14.5
Standard Relief Valve Pressure – psig	60	60	60	60	60	60
CSA Certified Installation Altitude – ft	4,500	4,500	4,500	4,500	4,500	4,500
Max. Equivalent Vent Length (each side) – ft	100	100	100	100	100	100

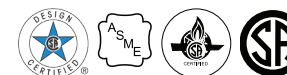
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IFIRE™



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

**BUILT-IN SERVICE LIGHT
PROVIDES INSTANT VISIBILITY
OF WATER HEATER STATUS**



IFIRE: COMMERCIAL VOLUME WATER HEATER

IFIRE 300

IFIRE 400

IFIRE 500

IFIRE 650

IFIRE 800

IFIRE 1000

Engineered for maximum performance, the IFIRE offers unprecedented value in the commercial new project or retrofit marketplace by providing stainless steel water-tube construction, versatile design, and adaptive controls on an intuitive Versa IC® self-learning touchscreen controller.

- Intuitive VERSA IC® modulating controller with 4.3" touchscreen display
- **Instant Visibility - Built-in service light**
- Cascade up to 8 water heaters in parallel or sequential modulation modes
- The multi-function status light not only adds to the IFIRE sleek design, it also allows for instant visibility of water heater status
- Reduce operating costs and heat your water quickly with up to 96.5% efficiency for maximum performance
- 7:1 turndown ratio
- Quality stainless steel water-tube heat exchanger
- Weatherproof jacket allows for indoor or outdoor installation
- SQAQMD certified ultra-low NOx, <20PPM
- Designed, engineered, and assembled in USA



SPECIFICATIONS	300	400	500	650	800	1000
CSA Input (NG or LP) – MBH	42.8-300	57.1-399	71.4-500	92.8-650	114.2-800	142.8-1,000
CSA Input (NG or LP) – kW	12.5-88	16.7-117	20.9-147	27.2-190	33.5-234	41.9-293
CSA Output (NG or LP) – MBH	41.3-289	54.7-383	68.6-480	89.1-624	109.7-768	137.1-960
CSA Output (NG or LP) – kW	12.1-85	16.1-113	21.2-141	26.2-184	32.3-226	40.3-282.4
Thermal Efficiency	96.5%	96%	96%	96%	96%	96%
Min Gas Supply Pressure (NG or LP) – inch w.c.	4/8	4/8	4/8	4/8	4/8	4/8
Max Gas Supply Pressure (NG or LP) – inch w.c.	10.5/13	10.5/13	10.5/13	10.5/13	10.5/13	10.5/13
Ambient Temperature – High (°F/°C)	150/ 65.56	150/65.56	150/65.56	150/65.56	150/65.56	150/65.56
Min. Water Temperature – (°F/°C)	41/5	41/5	41/5	41/5	41/5	41/5
Max. Water Temperature – (Electronic High Limit) (°F/°C)	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44	40/4.44
Max. Water Temperature Lockout Limit (°F/°C)	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33	200/93.33
Power (120Vac/60Hz) at Full Fire – Watts (w/o pumps)	<7.5A	<7.5A	<7.5A	<7.5A	<7.5A	<7.5A
Weight (empty) – lbs/Kg	441/200	441/200	416/189	501/227	547/248	627/284
Heating Surface Area – ft²/m²	34.8/3.23	34.8/3.23	39.1/3.64	52.2/4.85	60.9/5.66	75.4/7
Pressure Vessel Water Content – USG/Liters	3.8/14.38	3.8/14.38	4.3/16.28	5.6/21.20	6.6/24.98	8.1/30.66
Max. Flow Rate – USgpm	38	50	62	80	90	90
Min. Flow Rate – USgpm	28	28	33	44	55	66
Flow Rate at Water Hardness 4-12 GPG – USgpm	27.3	27.3	32.8	43.7	54.6	65.5
Flow Rate at Water Hardness 12-15 GPG – USgpm	36.7	36.7	44	58.6	73.3	80
Water pH	6.0 - 8.5	6.0 - 8.5	6.0 - 8.5	6.0 - 8.5	6.0 - 8.5	6.0 - 8.5
Max. Operating Water Pressure – psig	160	160	160	160	160	160
Min. Operating Water Pressure – psig	14.5	14.5	14.5	14.5	14.5	14.5
Standard Relief Valve Pressure – psig	125	125	125	125	125	125
CSA Certified Installation Altitude – ft	4,500	4,500	4,500	4,500	4,500	4,500
Max. Equivalent Vent Length (each side) – ft	100	100	100	100	100	100

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T SERIES POOL + SPA



SUPERIOR STRENGTH, UNPARALLELED QUALITY

The T Series heat exchanger is a one-piece welded masterpiece. An ultra-light shell and coil optimizes flow turbulence and increase the heat transfer coefficient. With exceptional material strength and the highest corrosion resistance, the T Series heat exchanger has been specifically designed for the most aggressive water conditions. Its comprehensive range of capacities and unparalleled quality make it the perfect choice for any residential or commercial pool applications.



T SERIES: TITANIUM POOL + SPA HEAT EXCHANGER

T 100

T 200

T 300

T 400

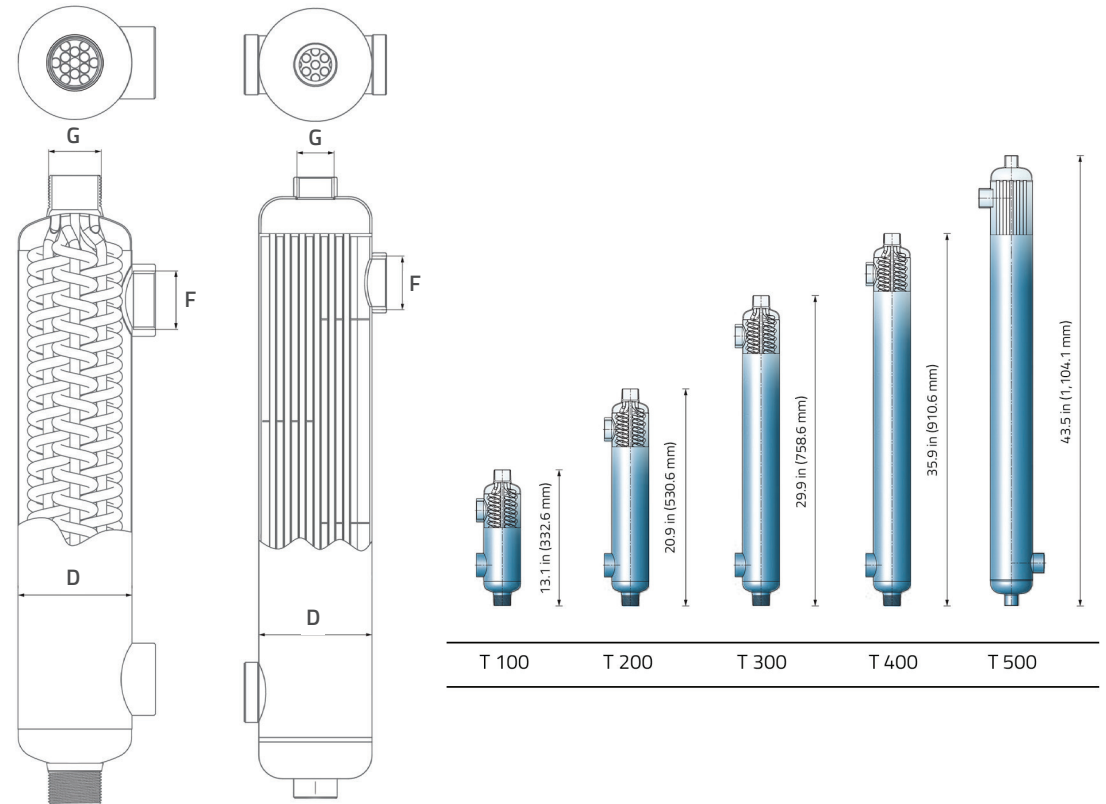
T 500

DISTINCT ADVANTAGES

- Total immunity to salt corrosion at high temperatures
- Ultra-high thermal exchange
- Coil expansion withstands extreme temperature differences
- Swimming pools heated with high temperature sources
- Lightweight
- Robust and compact design requires minimal installation space
- Suitable with high fluid flows and low temperature variances
- Self-cleaning, self-descaling design
- Can be connected to boilers, heat pumps, or solar panels

TYPICAL APPLICATIONS

- Saltwater chlorinators
- Corrosive fluids
- Pool heating with gas or oil-fired boilers, heat pumps, or solar panels



Model	Nominal Capacity		Hot Water Side				Cold Water Side				Heat Transfer Area		Connections		
			Flow		Pressure Drop		Flow		Pressure Drop				Shell	Tubes	
									F	G			Diameter		
T 100	29 kW	100,000 BTU/h	75 l/min	20 USGPM	22,3 kPa	3.2 PSIG	227 l/min	60 USGPM	37,2 kPa	5.4 PSIG	2.24 sq ft	0.21 m²	1 ½"	1 ¼"	3.6"
T 200	57 kW	200,000 BTU/h	75 l/min	20 USGPM	32,3 kPa	4.7 PSIG	227 l/min	60 USGPM	40,5 kPa	5.9 PSIG	4.15 sq ft	0.38 m²	1 ½"	1 ¼"	3.6"
T 300	87 kW	300,000 BTU/h	75 l/min	20 USGPM	44,3 kPa	6.4 PSIG	227 l/min	60 USGPM	44,1 kPa	6.4 PSIG	6.26 sq ft	0.58 m²	1 ½"	1 ¼"	3.6"
T 400	113 kW	400,000 BTU/h	75 l/min	20 USGPM	52,7 kPa	7.6 PSIG	227 l/min	60 USGPM	46,2 kPa	6.7 PSIG	7.71 sq ft	0.72 m²	1 ½"	1 ¼"	3.6"
T 500	146 kW	500,000 BTU/h	150 l/min	40 USGPM	27,0 kPa	3.9 PSIG	227 l/min	60 USGPM	24,8 kPa	3.6 PSIG	16.8 sq ft	1.56 m²	1 ½"	1 ¼"	4.1"

Nominal capacity values are based on heating 180°F (82.2°C) and return pool water 80°F (26.7°C)

S SERIES POOL + SPA



EXCELLENT THERMAL EFFICIENCY

The S Series heat exchangers are made entirely of high quality, specially treated 316L stainless steel to ensure superior corrosion resistance and long life. Fabricated with a helically corrugated tube design that will deliver excellent thermal performance even with fouled heating media. Intended for use with high fluid flows and low temperature variances, these robust, compact heat exchangers are ideal for many residential and industrial applications.

S SERIES: 316L SS POOL + SPA HEAT EXCHANGER

S 70

S 130

S 180

S 250

S 300

S 500

S 1000

PERFORMANCE AT THE RIGHT PRICE

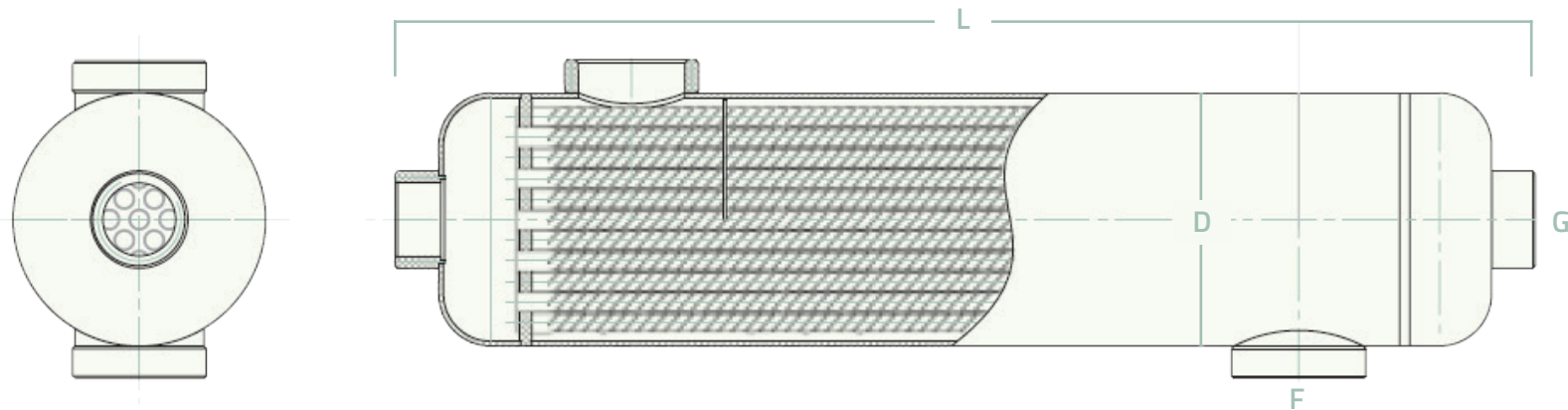
- Robust and compact SS design requires minimal installation space
- Suitable with high fluid flows and low temperature variances
- Self-cleaning, self-descaling design

TYPICAL RESIDENTIAL APPLICATIONS

- Standard chlorinated pools, spas, and hot tubs
- Fresh water applications
- Pool heating with gas or oil-fired boilers
- In-floor heating/snowmelt

TYPICAL INDUSTRIAL APPLICATIONS

- Public swimming pools
- Wastewater heat recovery systems
- Condensate sub-cooling



Model	Nominal Capacity			Hot Water Side		Cold Water Side		Heat Transfer Area	Connections			
	140°F ΔT	100°F ΔT	70°F ΔT	Flow	Pressure Drop	Flow	Pressure Drop		Shell F	Tubes G	D	L
S70	70,000 BTU/h	62,000 BTU/h	50,000 BTU/h	6.60 USGPM	1.09 PSIG	44.91 USGPM	1.33 PSIG	2.79 sq ft	1 1/2"	3/4"	3.15"	13.58"
S130	130,000 BTU/h	116,000 BTU/h	93,000 BTU/h	7.13 USGPM	1.17 PSIG	52.83 USGPM	1.65 PSIG	3.3 sq ft	1 1/2"	3/4"	3.15"	15.55"
S180	180,000 BTU/h	156,000 BTU/h	120,000 BTU/h	7.93 USGPM	0.40 PSIG	55.48 USGPM	1.10 PSIG	4.91 sq ft	1 1/2"	1"	4"	15.08"
S250	250,000 BTU/h	220,000 BTU/h	165,000 BTU/h	9.25 USGPM	0.60 PSIG	71.33 USGPM	1.70 PSIG	7.29 sq ft	1 1/2"	1"	4"	20.20"
S300	300,000 BTU/h	260,000 BTU/h	200,000 BTU/h	10.57 USGPM	0.90 PSIG	49.25 USGPM	2.50 PSIG	9.38 sq ft	1 1/2"	1"	4"	24.88"
S500	500,000 BTU/h	410,000 BTU/h	315,000 BTU/h	14.53 USGPM	1.30 PSIG	95.10 USGPM	3.20 PSIG	17.32 sq ft	2"	1"	4"	42.72"
S1000	1,000,000 BTU/h	805,000 BTU/h	620,000 BTU/h	25.10 USGPM	2.35 PSIG	185.24 USGPM	4.22 PSIG	23.68 sq ft	2"	2"	5.5"	36.10"

AHU™

AIR HANDLER



EXTREMELY QUIET

The AHU Air Handler pairs perfectly with any hot water heat source to allow for warm air heating throughout the building. With six position mounting and return air openings on the left, right, and bottom of the unit, the AHU has the flexibility to accommodate a wide range of application requirements.



AHU: AIR HANDLER

AHU 800

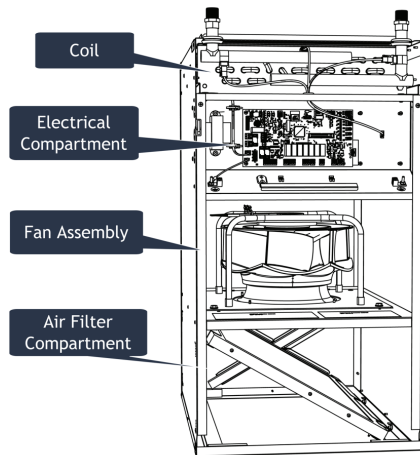
AHU 1200

AHU 1600

AHU 2000 LV

FEATURES

- Whisper quiet blower operation
- Up to 68,000 BTU at 180°F
- High efficiency ECM motor with centrifugal fan
- Use with any hot water appliance with pressures to 150 PSI
- High efficiency fin tube coils
- Internet capable controller
- Easy service access
- Can manage external pump
- OpenTherm control compatible
- Standard filter



DIMENSIONS	AHU 800	AHU 1200	AHU 1600	AHU 2000 LV
Width (inches)	17.5	21	24.6	24.6
Depth (inches)	26	26	26	26
Height (inches)	32	38	42	42
Weight (Boxed)	98 lb	111 lb	130 lb	130 lb

SPECIFICATIONS	AHU 800	AHU 1200	AHU 1600	AHU 2000 Low Velocity
Max. Water Temperature (*F/*C)	195/90	195/90	195/90	195/90
Coil Performance at 180°F (BTU/Hr)	66,800	80,600	99,300	110,300
Water Pipe Connections (inches)	3/4 MPT	3/4 MPT	3/4 MPT	3/4 MPT
External Static Pressure (WC) low/med/high	0.5/1.0/1.5	0.5/1.0/1.5	0.5/1.0/1.5	0.5
Maximum Operating Water Pressure (PSI)	150	150	150	150
Supply Air Opening Width (inches)	16	19.6	23	23
Supply Air Opening Depth (inches)	19.6	19.6	19.6	19.6
Side Return Air Opening Height (inches)	7	10.5	13	13
Side Return Air Opening Depth (inches)	23	23	23	23
Bottom Return Air Opening Width (inches)	13	10.5	14	14
Bottom Return Air Opening Depth (inches)	23	23	23	23
Max. Internal Current Power Rating 120 Volts	2.4 Amp	3.2 Amp	3.3 Amp	3.3 Amp
External Pump Supply 120 Volts	4 Amp	4 Amp	4 Amp	4 Amp
Voltage (V)	120 V	120 V	120 V	120 V
Max. Air Flow @ 0.5" Rated Static Pressure	1,134 CFM	1,707 CFM	2,219 CFM	2,219 CFM
Max. Return Air Temperature (*F/*C)	122/50	122/50	122/50	122/50
Filter Size (inches) - Not Supplied	16 x 25 x 1	25 x 20 x 1	25 x 20 x 1	25 x 20 x 1

Entering Water Temp	HEATING CAPACITY (Entering Dry Bulb Temp 70°F)								
	3 GPM - MBH			4 GPM - MBH			5 GPM		
	AHU 800	AHU 1200	AHU 1600	AHU 800	AHU 1200	AHU 1600	AHU 800	AHU 1200	AHU 1600
195°F (90°C)	68.6	81.3	96.9	73.2	87.7	106.7	76.2	91.8	113.2
190°F (88°C)	65.7	78.0	92.9	70.2	85.1	102.3	73.0	88.1	108.6
180°F (82°C)	60.0	71.3	84.9	64.1	76.9	93.5	66.8	80.6	99.3
170°F (82°C)	54.4	64.6	77.0	58.1	69.8	84.8	60.5	73.1	90.0
160°F (71°C)	48.7	58.0	69.1	52.1	62.6	76.1	54.3	65.6	80.8
150°F (66°C)	43.1	51.4	61.2	46.2	55.5	67.4	48.1	58.2	71.6
140°F (60°C)	37.6	44.8	53.3	40.2	48.4	58.8	41.9	50.8	62.5
130°F (54°C)	32.0	38.3	45.5	34.3	41.4	50.2	35.8	43.4	53.4
120°F (49°C)	26.5	31.8	37.7	28.5	34.3	41.6	29.7	36.0	44.3
110°F (43°C)	21.2	25.3	30.0	21.2	27.4	33.2	23.7	28.7	35.3



SL 40-399 G3 x 12 with Multiplex Racking System
Application: Radiant Heat and DHW for School Building
Surrey, BC



SL 40-399 G3 x 10 with Multiplex Racking System
Application: Radiant Heat and DHW for School Building
Surrey, BC

MULTIPLEx[™] RACKING

SYSTEM INCLUDES

Isolation Ball Valves ▪ Check Valves ▪ UPS 43-44F Pumps ▪ Boiler
Drains ▪ Unions ▪ Welded Steel Supply & Return Headers ▪ Connection
Points for Optional Accessories ▪ All necessary Nipples & Fittings ▪
Assembly Instructions ▪ Support Legs

ENGINEERED ▪ EASY TO INSTALL ▪ TURNKEY

A modular freestanding system for commercial and multi-family applications. The Multiplex Racking System components fit through standard doorways - reducing the need for specialized transport equipment. Our easy to set up boiler networks also provide for precise load matching through wide turndown ratios.



MULTIPLEX RACKING - SL SERIES

Designed for SL 26-260 G3, SL 40-399 G3

COMPACT DESIGN

- **Quick Installation: 4 x SL 399's x 2 people = 8 hrs**
- Easy to get into small spaces and around existing equipment
- Flat pack design reduces shipping costs

MULTIPLE OPTIONS AVAILABLE

- Inline, back-to-back, or rack only
- Header sizes include 3", 4", and 6"
- Left or right header connections include one set of blind flanges
- Combinations from 2 to 12 boilers on a single racking systems

SUPERIOR QUALITY

- Low head loss is better for flow rates
- Flanged headers for easy expansion
- Seismic ratable

Multiplex Racking System	SL 26-260 G3 Part No.	SL 40-399 G3 Part No.	Width in (mm)	Height in (mm)	Depth in (mm)
In-Line Rack					
3" Header					
2 Boiler In-Line	M02-L-3"-2	M02-L-3"	70 (1,778)	76.25 (1,937)	35.5 (902)
3 Boiler In-Line	M03-L-3"-3	M03-L-3"	102 (2,590)	76.25 (1,937)	35.5 (902)
4" Header					
2 Boiler In-Line	M02-L-4"-2	M02-L-4"	70 (1,778)	76.25 (1,937)	35.75 (908)
3 Boiler In-Line	M03-L-4"-3	M03-L-4"	102 (2,590)	76.25 (1,937)	35.75 (908)
4 Boiler In-Line	M04-L-4"-4	M04-L-4"	134 (3,404)	776.25 (1,937)	35.75 (908)
5 Boiler In-Line	M05-L-4"-5	M05-L-4"	166 (4,217)	76.25 (1,937)	35.75 (908)
6 Boiler In-Line	M06-L-4"-6	M06-L-4"	198 (5,030)	76.25 (1,937)	35.75 (908)
6" Header					
4 Boiler In-Line	M04-L-6"-4	M04-L-6"	134 (3,404)	76.25 (1,937)	38 (965)
5 Boiler In-Line	M05-L-6"-5	M05-L-6"	166 (4,217)	76.25 (1,937)	38 (965)
6 Boiler In-Line	M06-L-6"-6	M06-L-6"	198 (5,030)	76.25 (1,937)	38 (965)
8 Boiler In-Line	M08-L-6"-8	M08-L-6"	262 (6,656)	76.25 (1,937)	38 (965)
10 Boiler In-Line	M010-L-6"-10	M010-L-6"	326 (8,280)	76.25 (1,937)	38 (965)
12 Boiler In-Line	M012-L-6"-12	M012-L-6"	390 (9,906)	76.25 (1,937)	38 (965)

Multiplex Racking System	SL 26-260 G3 Part No.	SL 40-399 G3 Part No.	Width in (mm)	Height in (mm)	Depth in (mm)
Back-To-Back Rack					
4" Header					
2 + 2 Boiler Back to Back	M04-B-4"-4	M04-B-4"	70 (1,778)	76.25 (1,937)	58.5 (1,486)
3 + 3 Boiler Back to Back	M06-B-4"-6	M06-B-4"	102 (2,590)	76.25 (1,937)	58.5 (1,486)
6" Header					
3 + 3 Boiler Back to Back	M06-B-6"-6	M06-B-6"	102 (2,590)	76.25 (1,937)	60.5 (1,537)
4 + 4 Boiler Back to Back	M08-B-6"-8	M08-B-6"	134 (3,404)	76.25 (1,937)	60.5 (1,537)
5 + 5 Boiler Back to Back	M010-B-6"-10	M010-B-6"	166 (4,217)	76.25 (1,937)	60.5 (1,537)
6 + 6 Boiler Back to Back	M012-B-6"-12	M012-B-6"	198 (5,030)	76.25 (1,937)	60.5 (1,537)
Rack Only					
1 Boiler Rack	R-01		38 (965)	76.25 (1,937)	26.5 (673)
2 Boiler Rack	R-02		70 (1,778)	76.25 (1,937)	26.5 (673)
3 Boiler Rack	R-03		102 (2,590)	76.25 (1,937)	26.5 (673)
4 Boiler Rack	R-04		134 (3,404)	76.25 (1,937)	26.5 (673)
5 Boiler Rack	R-05		166 (4,217)	76.25 (1,937)	26.5 (673)
6 Boiler Rack	R-06		198 (5,030)	76.25 (1,937)	26.5 (673)
7 Boiler Rack	R-07		230 (5,843)	76.25 (1,937)	26.5 (673)
8 Boiler Rack	R-08		262 (6,656)	76.25 (1,937)	26.5 (673)

For racking options see pages 58-59

MULTIPLEx[™]

RACKING

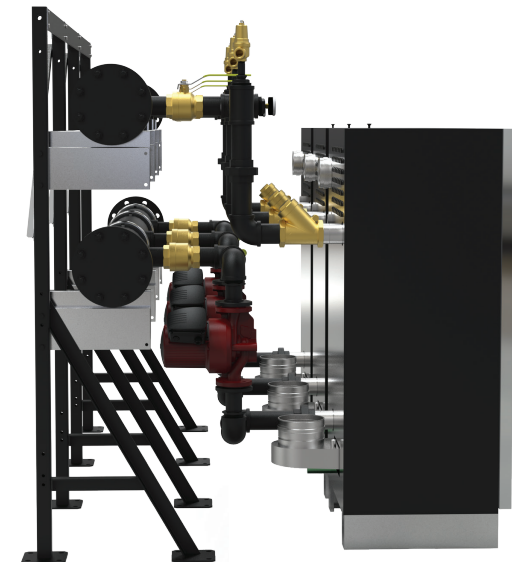


SYSTEM INCLUDES

- Isolation Ball Valves
- Check Valves
- UPS 43-44F Pumps
- Boiler Drains
- Unions
- Welded Steel Supply & Return Headers
- Connection Points for Optional Accessories
- All necessary Nipples & Fittings
- Assembly Instructions
- Support Legs

ENGINEERED ▪ EASY TO INSTALL ▪ TURNKEY

A modular freestanding system for commercial applications. The EX Multiplex Racking System components fit through standard doorways - reducing the need for specialized transport equipment. Our easy to set up boiler networks also provide for precise load matching through wide turndown ratios.



MULTIPLEX RACKING - EX SERIES

Designed for EX SERIES

SUPERIOR QUALITY

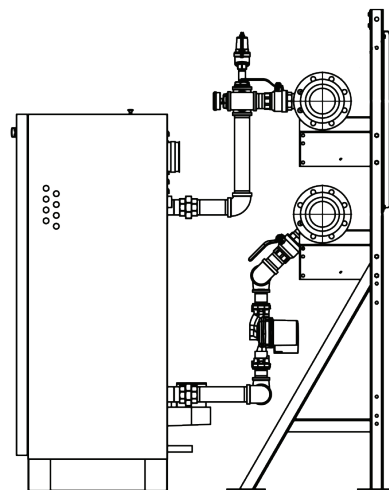
- Low head loss is better for flow rates
- Flanged headers for easy expansion
- Seismic ratable

COMPACT DESIGN

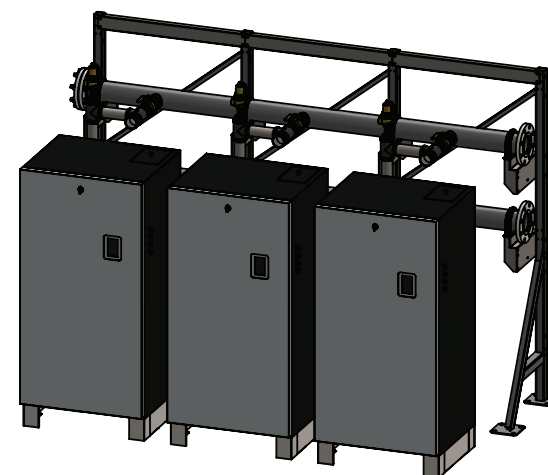
- Quick Installation
- Easy to get into small spaces and around existing equipment
- Flat pack design reduces shipping costs

MULTIPLE OPTIONS AVAILABLE

- Header sizes include 4" and 6"
- Left or right header connections include one set of blind flanges
- Combinations from 2 to 6 boilers on a single racking systems

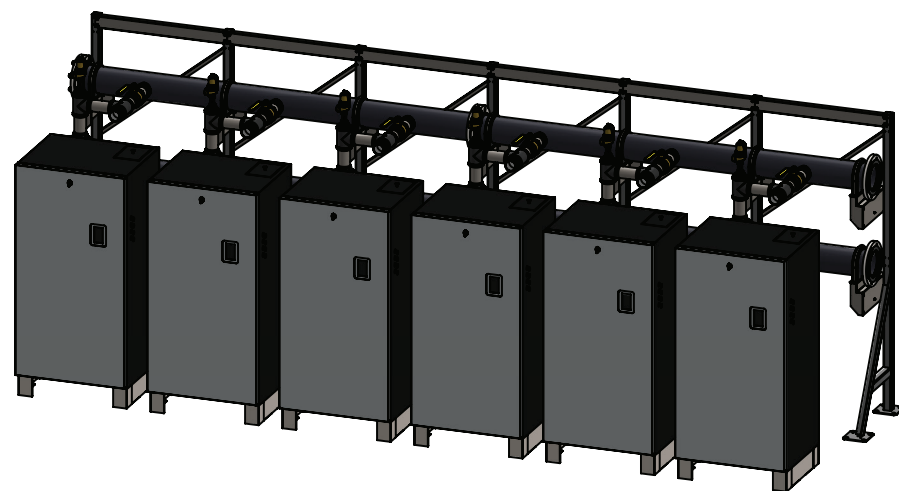


EX Side View: Inline



EX 3 Boiler Inline (MX03-L-4")

Multiplex Racking System (EX)	Part No.	Width in (mm)	Height in (mm)	Depth in (mm)
4" Header (EX 400, EX 500)				
2 Boiler In-Line	MX02-L-4"	74 (1,880)	75.5 (1,918)	60 (1,525)
3 Boiler In-Line	MX03-L-4"	108 (2,743)	75.5 (1,918)	60 (1,525)
4 Boiler In-Line	MX04-L-4"	142 (3,607)	75.5 (1,918)	60 (1,525)
6" Header (EX 700, EX 850)				
2 Boiler In-Line	MX02-L-6"	74 (1,880)	75.5 (1,918)	69 (1,753)
3 Boiler In-Line	MX03-L-6"	108 (2,743)	75.5 (1,918)	69 (1,753)
4 Boiler In-Line	MX04-L-6"	142 (3,607)	75.5 (1,918)	69 (1,753)
5 Boiler In-Line	MX05-L-6"	176 (4,470)	75.5 (1,918)	69 (1,753)
6 Boiler In-Line	MX06-L-6"	210 (5,334)	75.5 (1,918)	69 (1,753)



EX 6 Boiler Inline (MX06-L-6")

For racking options see pages 58-59

FLOOR STANDS

■ **P-266 Expandable Floor Stand**
SL 26-260, SL 40-399

■ **P-267 Vertical Floor Stand**
VX, CX, HC, Superflow, SL Residential Models

PIPING KITS

■ **P-273 Piping Kit**
SL 26-260, SL 40-399

PIPING KIT PAIRS WITH P-266
ADJUSTABLE FLOOR STAND
FOR EASY INSTALLATION



PIPING KIT INCLUDES

Manifolds ■ Opt-out Piping Connections ■ Check Valve ■
Grundfos 3-Speed Pump ■ Boiler Drain Valve ■ Isolation Valves
■ External Tridicator ■ Flexible SS Connections

PARTS KITS



- P-429 VX/SL Residential Parts Kit
- P-430 SL Commercial Parts Kit
- P-911D Superflow-1 Parts Kit
- P-911BX Superflow-1 Parts Kit
- P-1632 CX Parts Kit

AN EASY & COST-EFFECTIVE WAY TO MAINTAIN AND SERVICE IBC BOILERS

Our parts service kits contain high-quality IBC replacement parts tailored specifically to the requirements of that your model series. Reduce service time and downtime while keeping inventory costs low by eliminating the need for multiple part orders.

All parts come in a convenient compact case for easy transport.

EZ PIPE MANIFOLDS

PRIMARY / SECONDARY PIPING MANIFOLD

251-063C

SFB 99-1 | SFB 120-1 | SFC 125 | SFC 125-1 | HC Series

251-064C

SFC 160-1 | SFC 199 | SFC 199-1

MULTI-FAMILY EZ PIPE MANIFOLDS

190-306 Boiler Loop Manifold

SFC 125 | SFC 125-1

190-307 DHW Manifold

SFC 125 | SFC 125-1 | SFC 199 | SFC 199-1

CONDENSATE NEUTRALIZATION KIT

P-9126 (180-048) Condensate Tank

P-9127 (180-049) Replacement Media



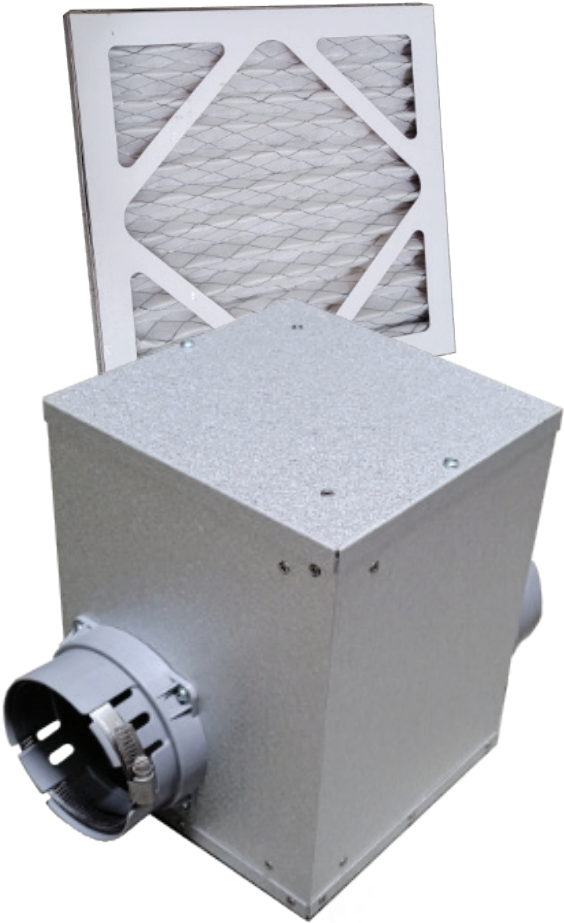
Primary / Secondary Piping Manifold



AIR FILTERS

P-357 Air Filter Kit
SL Series, VX Series

P-381 Replacement Filter
Air Filter 3-Pack for P-357



VENT KITS

P-741 Vent Terminal Kit
2" PVC

P-742 Vent Terminal Kit
3" PVC

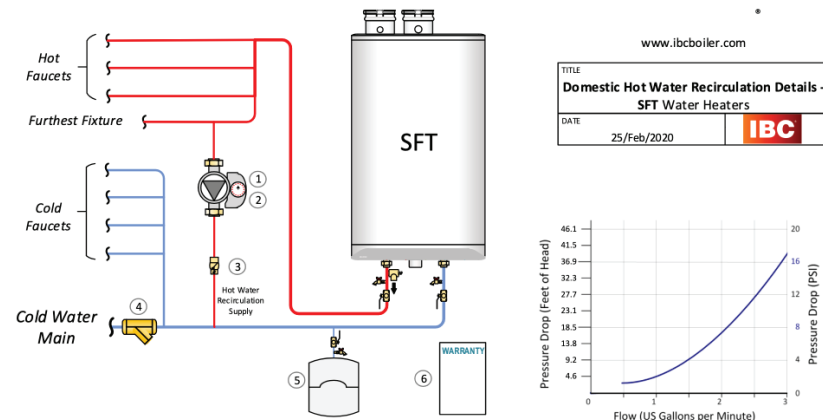
P-751 Vent Terminal Kit
4" PVC



MODELS: HC/DC/SFT/SFC/SL			
Flush mount horizontal termination for two-pipe PVC systems			
Model	2"	3"	4"
	P-741	P-742	P-751
CX Series	■	■	
VX Series	■	■	
HC Series - All Models	■	■	
Superflow - All Models	■	■	
SL 85/115/160	■	■	
SL 199/260		■	
SL 399			■

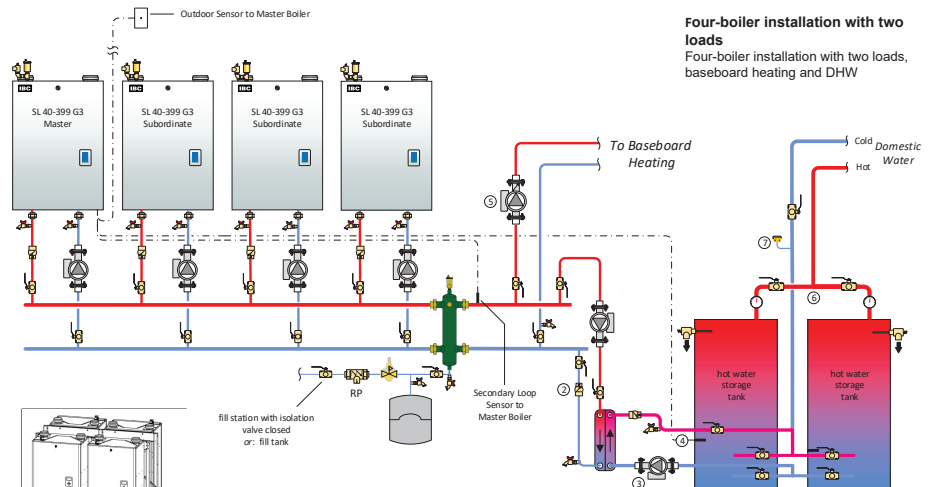
APPLICATION DRAWINGS

For more application drawings, visit the Tech Portal on our website.



Notes

- It is recommended that the domestic hot water recirculation pump be activated by a timer and / or a temperature sensor connected to the pump: two or three 5 min. cycles per hour recommended for peak use periods. The pump must be designed for use in potable water systems. The recirc pump must be powered using an independent power source, not drawing power from the boiler.
- Recirc Pump Sizing: the recirc pump should not operate continuously above 0.3 gpm, as this would keep the water heater in on-demand mode. Approximately 3 ft-head from the recirc pump activates the on-demand heating: see above for head loss of SFT 199 water heater. When pump is sized below the trigger flow rate, the water heater should be placed into Comfort Mode (see Installation Manual, § 2.4). A globe valve can ensure recirc flow doesn't trigger DHW operation.
- If the recirc pump does not contain a check valve, an external check valve must be added to the recirc line.
- Y-strainer or cartridge-type filter recommended (required on well systems). See install manual Table 5: Water Quality.
- Potable Expansion Tank: required where backflow check valves are installed
- Using a recirc line affects the terms of your Warranty: see Warranty document for details.



Notes

- 4-Boiler back-to-back Multiplex racking system shown, IBC part 90-167. System comes complete with floor stands, boiler-internal piping, check valves, 4" manifold headers and UPS 43-44 boiler pumps.
- Note integral or external check valves for each pump.
- Pump on domestic side is stainless steel or bronze, and activated by boiler through a 2-pole line-voltage relay to simultaneously pull on heat exchanger pump.
- Hot water tank sensor to master boiler; recommend that DHW tank sensors be run from each tank, but only one is connected; other is to be labelled a spare.
- Boiler network serves space heating demand when hot water load is satisfied.
- Storage tank piping is symmetrical for equal flow and matching tank temperatures.
- Vacuum relief valve; thermal expansion tank for domestic water also recommended.

CAUTION: This drawing is a simple schematic guide to a successful installation. There may be many necessary components not shown here. We require that our boilers be installed by licensed and experienced trades people who are familiar with the applicable local and national codes. System design is to be completed by an experienced hydronic designer or engineer. It is necessary to carefully read and follow the installation instructions that come with the boiler along with the application drawing that fits your system.

Reverse-return primary loop
Two-boiler network serving two indirect tanks and space heating through a reverse-return primary loop

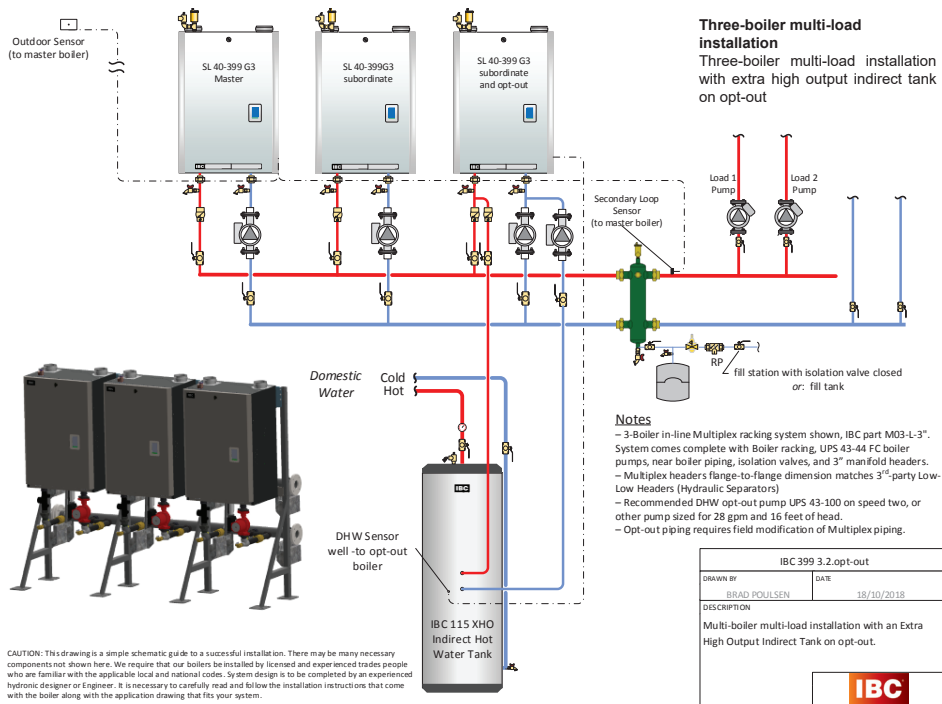
Notes

- Pump sizing by others according to boiler piping length and pipe diameter. At 45gpm the boiler heat exchanger has a pressure drop of 6 feet.
- Expansion tank sizing by others.
- Inlet and outlet connections 1 1/2" NPT; minimum flow 20 gpm through each boiler.
- Closely spaced tees are maximum four primary circuit piping diameters apart, with a minimum of eight pipe diameters of straight tubing upstream of first tee and a minimum four pipe diameters straight tubing downstream of second tee.

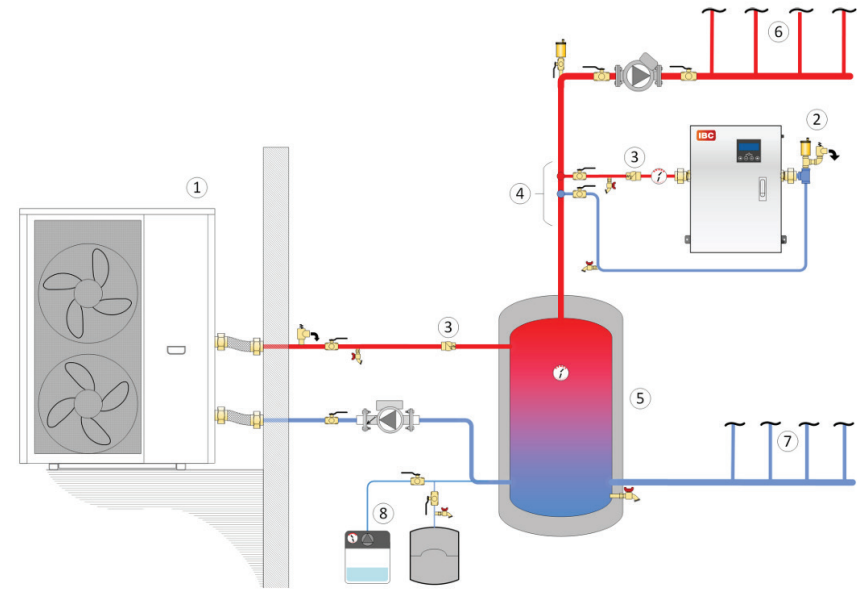
IBC 399 2.2.reverse-return	
DRAWN BY	DATE
BRAD POULSEN	2017/07/06
DESCRIPTION	
Two-boiler network serving two indirect tanks and space heating through a reverse-return primary loop.	
IBC	

Four-boiler installation with two loads
Four-boiler installation with two loads, baseboard heating and DHW

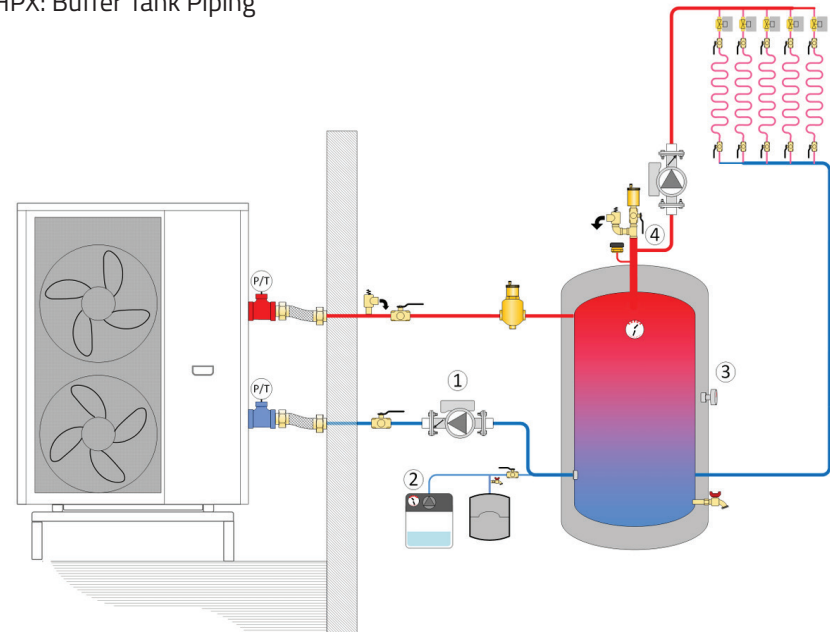
IBC 399 4.2.base.dhw	
DRAWN BY	DATE
BRAD POULSEN	19/10/2017
DESCRIPTION	
Four-boiler installation with two loads, Baseboard heating and DHW.	
IBC	



HPX: Multiple Heat Sources with Buffer Tank



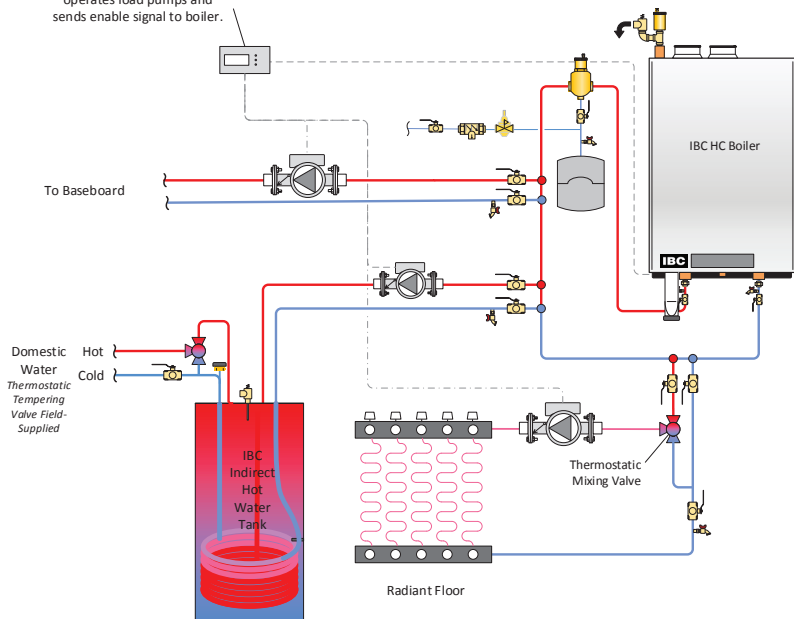
HPX: Buffer Tank Piping



External Controller or Relays—
operates load pumps and
sends enable signal to boiler.

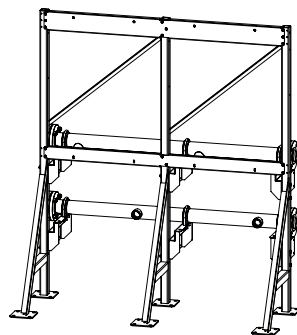
Two-zone installation

Two-zone installation with
indirect water heater

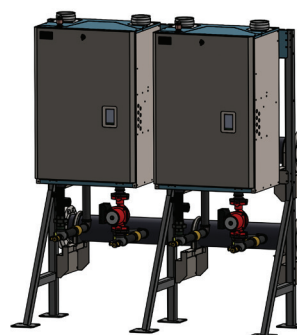


MULTIPLY RACKING OPTIONS

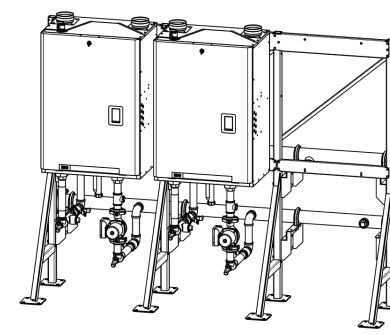
For more racking options,
visit the Tech Portal on our website.



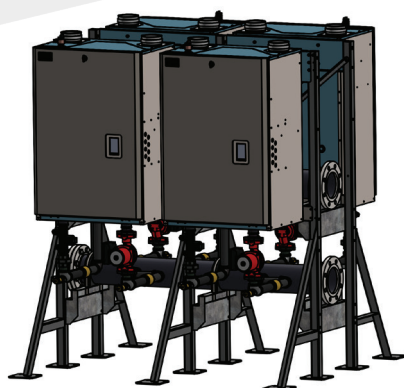
SL 2-Boiler Inline Rack



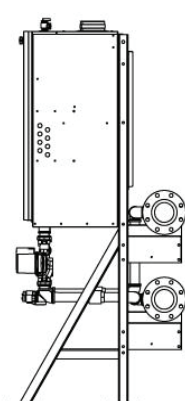
SL 2-Boiler Inline



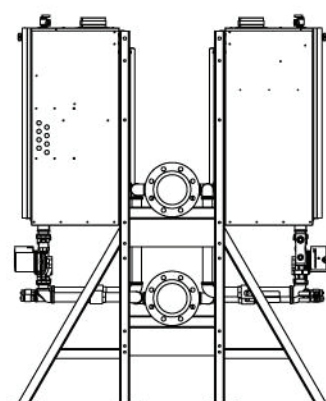
SL 3-Boiler In-Line w/ 1 Opt-Out



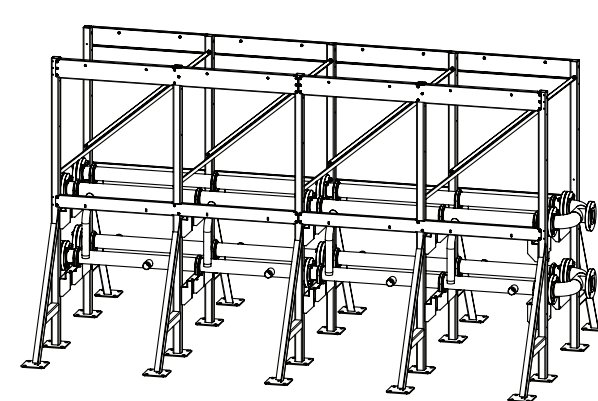
SL 2+2 Back-To-Back



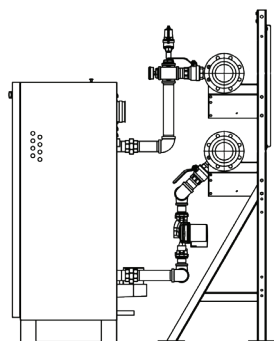
Side View: SL Inline



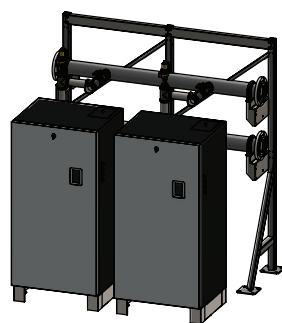
Side View: SL Back-To-Back



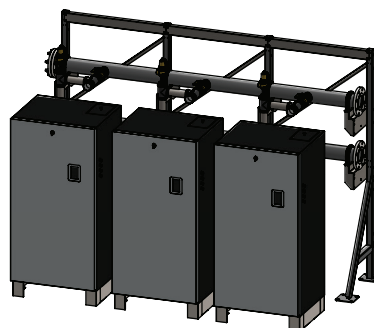
SL 4+4 Back-To-Back



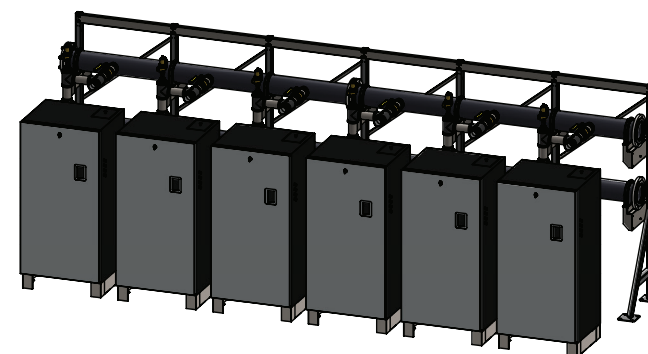
EX Side View: Inline



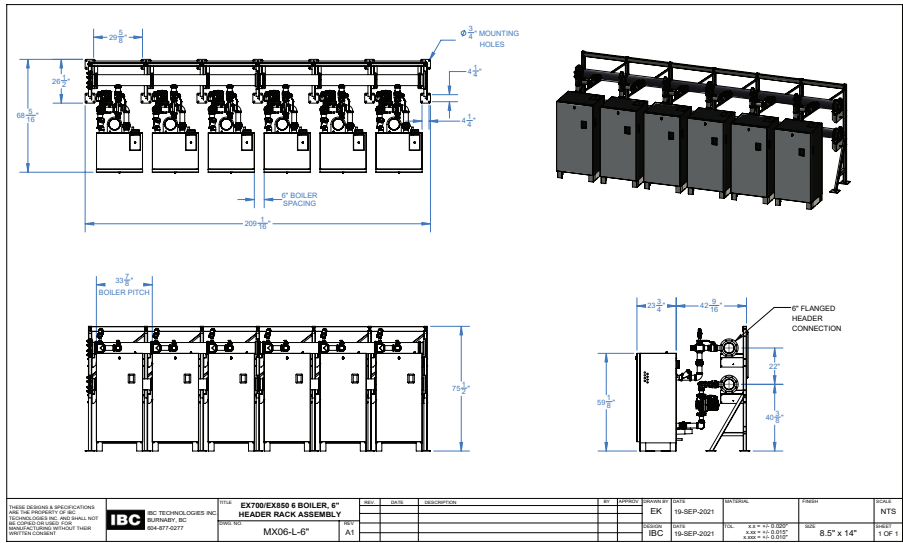
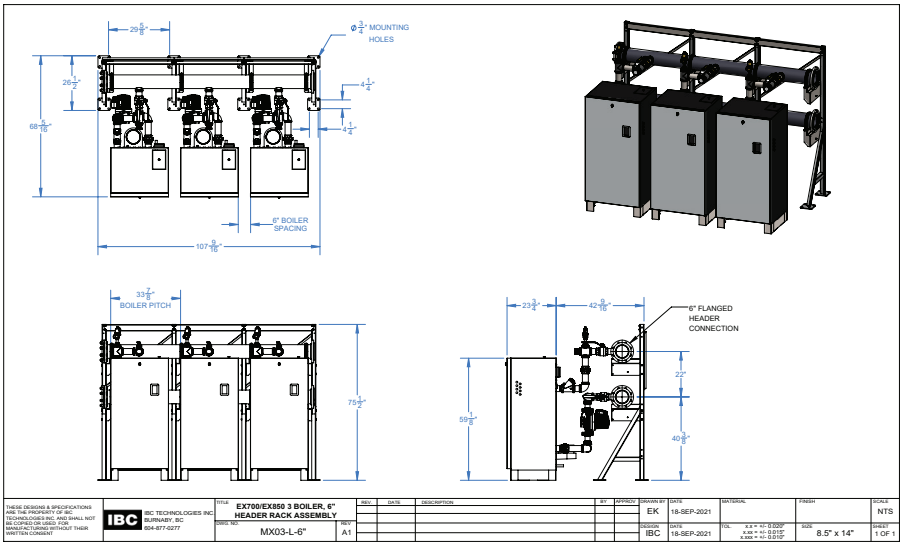
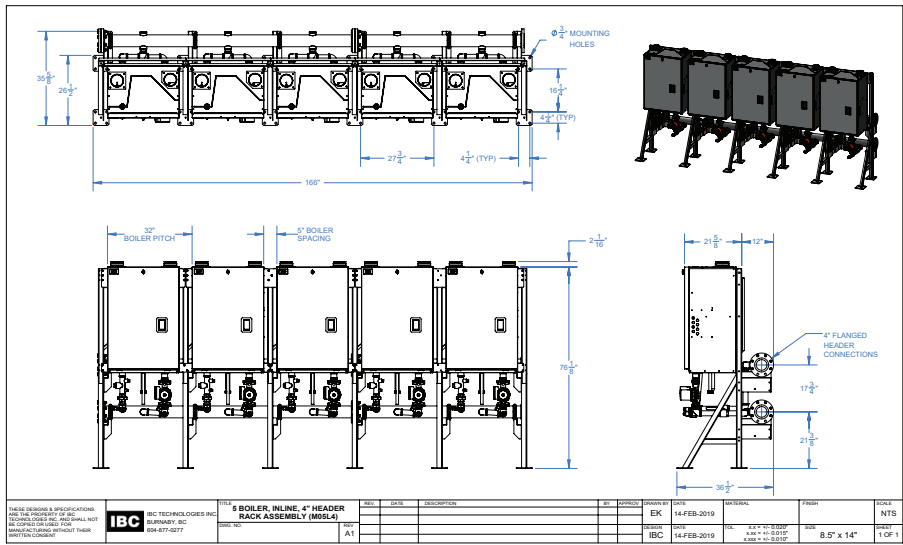
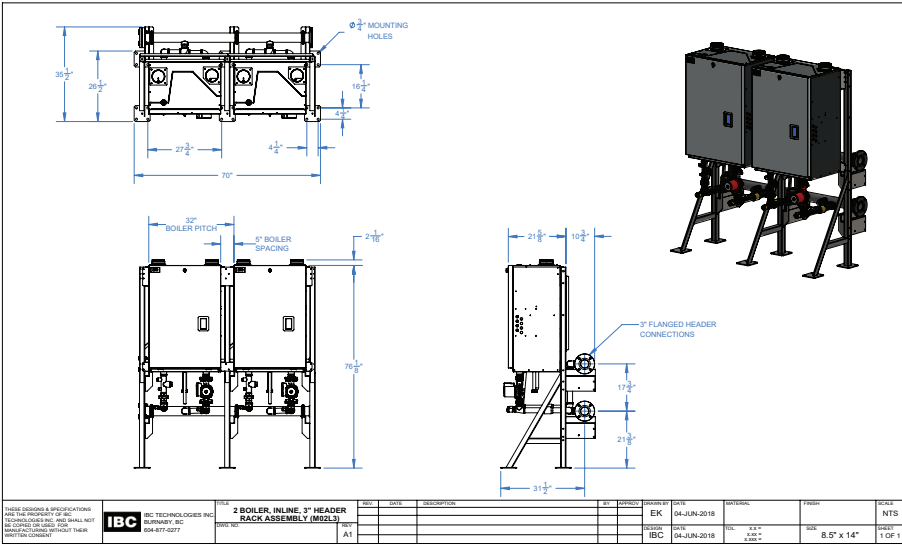
EX 2-Boiler Inline



EX 3-Boiler Inline



EX 6-Boiler Inline





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