



VXTM SERIES

VX 110
VX 150
VX 199



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

HEAT

HIGH EFFICIENCY
CONDENSING BOILERS



IBC[®]

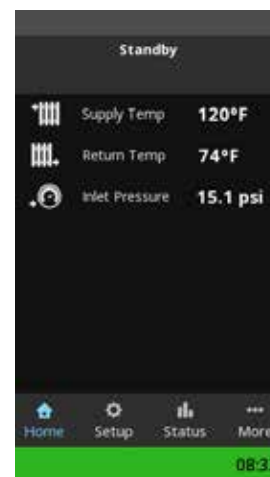
IBC Control At Your Fingertips

All VX™ Boilers use our V-10 Touch Screen boiler control which features the latest in advance control technology and software.

Easy to set up and monitor. Features include: Express Setup, Diagnostics & Intuitive Alert System with plain English Warnings & Error Messages. No boiler has ever been easier to use!



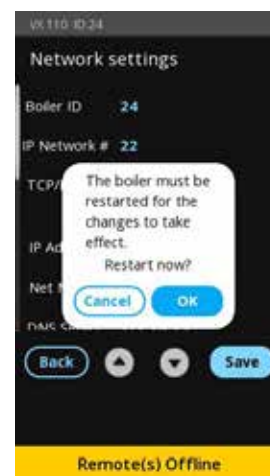
Easy To Use Boiler Control



Home Screen



Load Settings



Network Settings



Error Screen

Interior

- A) Intake Duct
- B) Exhaust Duct
- C) Heat Exchanger
- D) Ignition Module
- E) Fan
- F) Terminal Block Cover
- G) Gas Valve
- H) Gas Line
- I) Supply Water Pipe
- J) Ignitor
- K) V-10 Touch Screen
- L) Low Water Cutoff



A Unique Balance of **Performance, Efficiency and Value**

NEW V-10 CONTROL INTERFACE

- Express Setup – Program your boiler in seconds
- Remote Monitoring & Diagnostics
- Easy USB programmability
- Instant Visibility – Intuitive Alert System with detailed error messages
- Visible flame current data for troubleshooting
- Simplified load combining
- Cascade up to 4 units

MAXIMUM PERFORMANCE

- 95% A.F.U.E. – Reduce operating costs and heat your home faster
- State-of-the-art, fully automated, ASME, 439 grade, SS firetube heat exchanger
- 100% factory tested
- Turndown ratio 6.5:1 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 VX™ models are designed, engineered and assembled in British Columbia



MORE BUILT-IN FEATURES

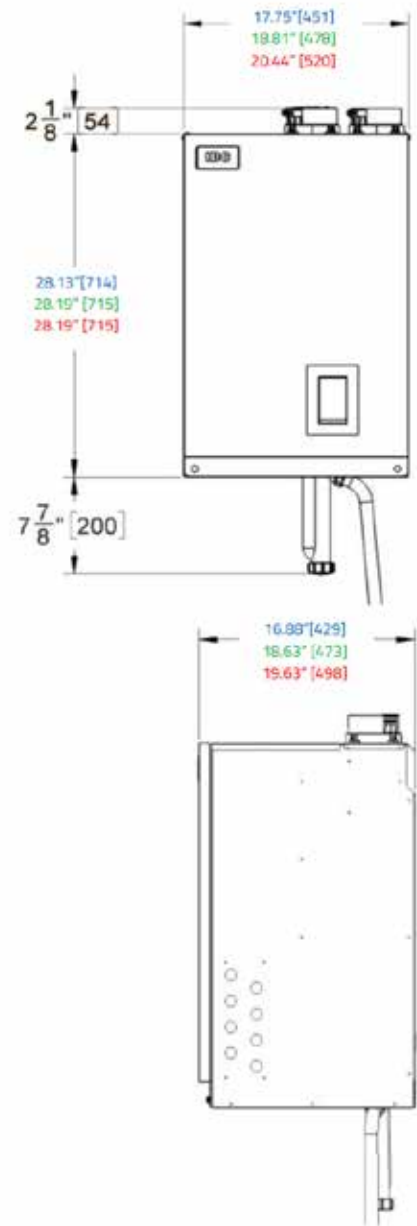
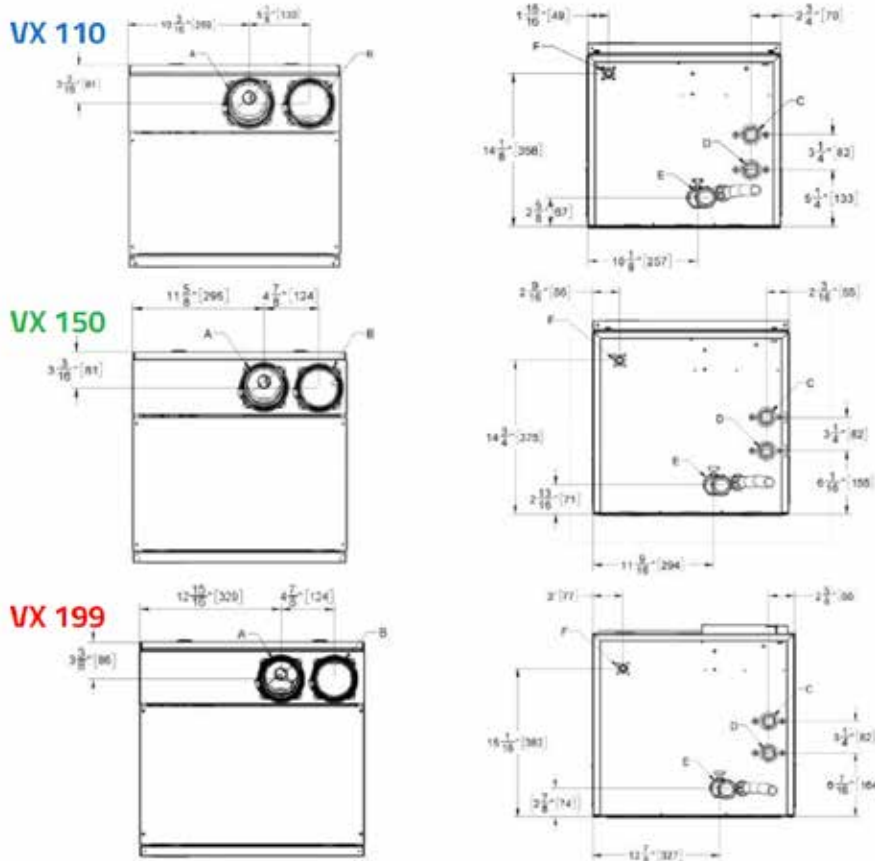
- Built-in 4 zone pump or valve control
 - In addition to the primary control – 5 pumps
 - Replaces the need for external zone control
- **MFZ Technology:** Patented moisture management system. Protects and ensures long life for all boiler components
- Reverse flow detection
- Built-in outdoor reset control of water temperature
- Built-in CSA/UL approved low water cut-off and manual reset high limit
- Unmatched safety features
- Connect your IBC Indirect Water Heater to the VX™ for all your home heating needs

EASY TO INSTALL AND SERVICE

- Universal parts. With only one fan and one controller, servicing all models just got a lot easier.
- PVC/CPVC/PPs approved
- Longest combined vent lengths – Up to 200 ft. with 2" and 480 ft. 3"
- Fuel conversion kits included in all models
- Easy to inspect Heat exchanger featuring a condensate draining system that cleans as it heats

VX SERIES

Dimensions



PIPING CONNECTIONS

Description	VX 110	VX 150	VX 199
A Flue Outlet	3" Schedule 40 or 3" PPs (80mm)		
B Combustion Air Inlet	3" Schedule 40 or 3" PPs (80mm)		
C Return Water Outlet (tepid water)		1" NPT-M	
D Supply Water Inlet (hot water)		1" NPT-M	
E Condensate Outlet		3/4" Hose	
F Gas Inlet		1/2" NPT-F	

CLEARANCE FROM BOILER CABINET

Surface	Min. Distance From Combustible	Recommended Distance For Installation
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (allow access to water connections)
Right Side	1"	4" (allow access to water connections)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and piping)

CLEARANCE FROM BOILER CABINET

Sched. 40; Rigid PPs	VX 110	VX 150	VX 199
2"	100'	50'	Not Allowed
3"	240'	170'	100'
90° Vent Elbow	Allow 8' Equivalent	Allow 8' Equivalent	Allow 8' Equivalent
90° Long Sweep Elbow	Allow 5' Equivalent	Allow 5' Equivalent	Allow 5' Equivalent
45° Elbow	Allow 3' Equivalent	Allow 3' Equivalent	Allow 3' Equivalent
PPs 87-90° Elbows	Use 8' Equivalent	Use 8' Equivalent	Use 8' Equivalent
2" SS Sidewall Terminal	No Additional Allowance	Not Allowed	Not Allowed
3" SS Sidewall Terminal - Exhaust Vent	Allow 20' Equiv. of 3" Sched. 40	Not Allowed	Not Allowed
3" SS Sidewall Terminal - Air Intake	No Additional Allowances		
Flexible PPs 3" Flexible	45' (max.) Lineal x 1.2 = Equiv.		30' (max.) Lineal x 3.33 = Equiv.





Technical Information



SPECIFICATIONS	VX 110	VX 150	VX 199
CSA Input (Natural Gas or Propane) – MBH	16.9-110	23-150	30.6-199
CSA Input (Natural Gas or Propane) – kW	5-32.2	6.7-44	8.8-58.3
CSA Output (Natural Gas or Propane) – MBH	16.2-101.5	22-138.5	29.2-183.7
CSA Output (Natural Gas or Propane) – kW	4.74-29.8	6.5-40.6	8.6-53.8
A.F.U.E.	95%	95%	95%
Min. Gas Supply Pressure (Natural Gas or Propane) – inch w.c.	4	4	4
Max. Gas Supply Pressure (Natural Gas or Propane) – 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 (without 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



FLOOR STAND
Part No. P-267



PARTS KIT
Part No. P-429



CONDENSATE TANK
Part No. 180-048



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. The CO₂ Impact Score is internally calculated using a proprietary point system based on a typical product lifetime and does not denote a third party certification/seal. *See website for further information.*