



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



## HIGH EFFICIENCY COMBI CONDENSING BOILERS

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



- **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:** Patented moisture management protocol. Protects and ensures long life for all components in the boiler.
- Easy to install and service.
- All models feature common parts

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

**IBC**®



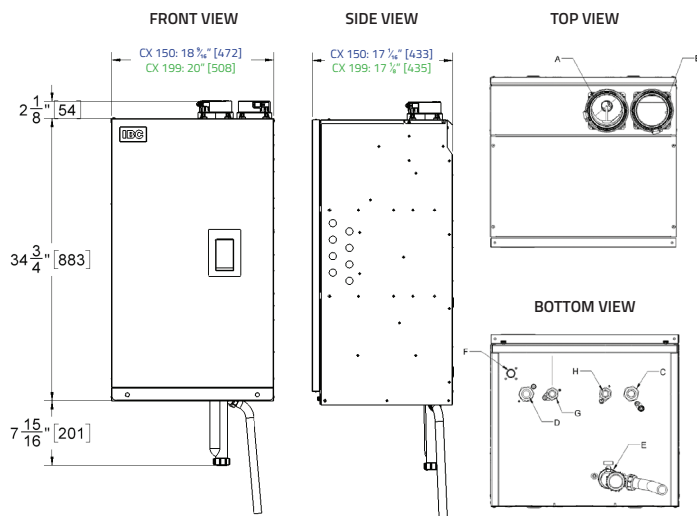
## Technical Information



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 (w/ 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
Relief Valve Pressure (Supplied) - psig	30	30
Approved Installation Altitude - ASL	0-12,000'	0-12,000'
Venting 2"	50'	N/A
Venting 3"	170'	100'



Choosing this product instead of a minimum efficiency alternative offsets CO<sub>2</sub> emissions equivalent to planting this number of trees over the product's lifetime. The CO<sub>2</sub> 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.



### PIPING CONNECTIONS

Description	CX 150	CX 199
A Flue Outlet	3" Sched. 40 or 3" PPs (80mm)	
B Combustion Air Inlet	3" Sched. 40 or 3" PPs (80mm)	
C Return Water Inlet (Tepid)	1" NPT-M	
D Supply Water Outlet (Hot)	1" NPT-M	
E Condensate Outlet	3/4" Hose	
F Gas Inlet	1/2" NPT-F	
G DHW Outlet (Hot Water)	3/4" NPT-M	
H DHW Inlet (Cold Water)	3/4" NPT-M	

### CLEARANCE FROM BOILER CABINET

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

## Accessories



FLOOR STAND  
Part No. P-267



PARTS KIT  
Part No. P-429



CONDENSATE TANK  
Part No. 180-048



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All information contained in this brochure is subject to change without notice.  
Due to clerical error, regulation change or product development please confirm all information with IBC.

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