

Ionic Submittal Sheet
Model
CB 3000F
CB 4000F

Ionic Water Tube Floor Standing Commercial Boilers

Job Name: Date:

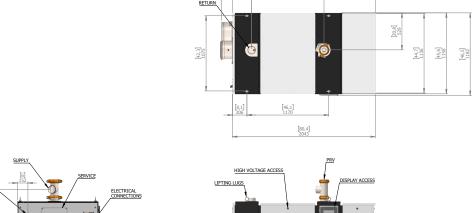
Location: Model No.:

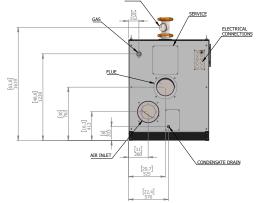
Engineer: Gas Type:

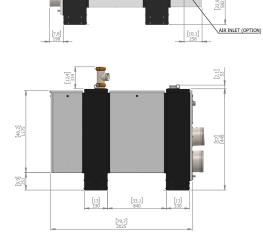
Wholesaler: Contractor:

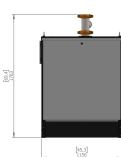
CB 3000 Dimensions

[40,7] 1035

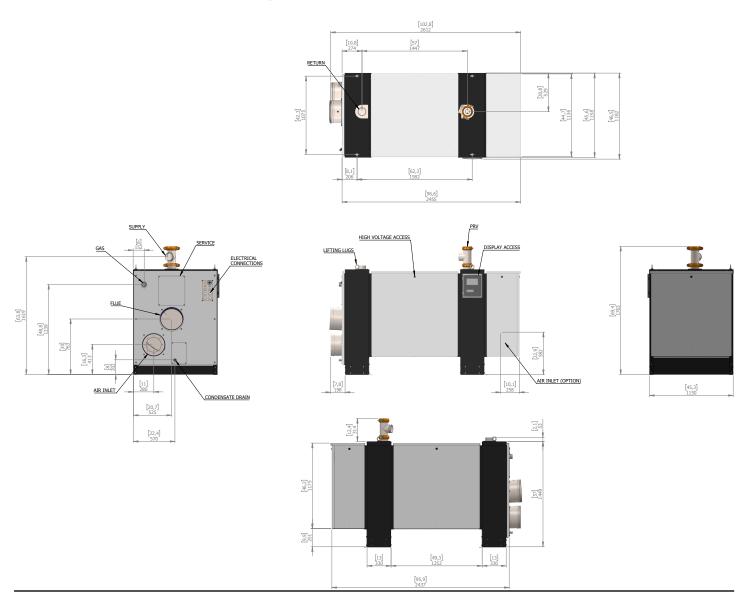








CB 4000 Dimensions



Dimensions and Specifications									
Product Selection	Model Number	S/R Water Vic. Conn.	Gas Conn. NPT	Flue Conn. Vent/Air	Vent Length	Height	Width	Depth	Weight lbs
	CB 3000F	4"	2"	10"/12"	150'	59"	78"	46"	1984
	CB 4000F	4"	2"	12"/12"	150'	59"	95-1/2"	46"	2314

Ionic Water Tube Commerical Boiler Performance Data								
Product Selection	Model Number	Input, MBH		Output, MBH	Maximum	Net AHRI	Thermal	Combustion
		Min	Max	Ошриі, МБП	Supply Temp., F	Rating, Water, MBH	Efficiency, %	Efficiency. %
	CB 3000F	420	3000	2858	194	2485	99.0%	97.5%
	CB 4000F	500	4000	3920	194	3409	99.9%	98.0%

Standard Features and Equipment

- ✓ Field convertible
- ✓ LCD display with easy to use controls
- ✓ On/Off Power Switch
- ✓ Laptop computer connection
- ✓ Supply and Return water temperature sensors
- ✓ Integrated pressure sensor
- √ Flue gas temperature sensor
- ✓ Burner door temperature clixon
- ✓ Up to 99.9% thermal efficiency
- √ Full stainless steel heat exchanger
- ✓ Premix burner
- ✓ Internal automatic air vent with drain connection
- ✓ Outdoor model (NEMA 4)
- ✓ Condensate trap
- ✓ External ignition transformer connection



Boiler and External Controls

- ✓ 7-inch graphical colored touchscreen
- ✓ Large backlit LCD with full text information programming and errors
- ✓ Modbus connection standard
- ✓ 0-10 VDC remote flow temperature set point control
- ✓ 0-10 VDC remote boiler power output
- ✓ Bacnet module for remote access available

Data Logging

- ✓ Real time and date clock
- ✓ Days of operation
- ✓ Successful ignition attempts
- ✓ Ignition failures
- ✓ Flame failures
- ✓ Up to 48 readable lockout errors
- ✓ Hours since last service
- ✓ Hours until next service
- ✓ Total days of boiler operation

Low Voltage Connections

- Outdoor temperature sensor
- System temperature sensor
- ✓ DHW temperature sensor
- ✓ Modbus
- Cascade connection
- On/Off thermostat or OpenTherm
- 0-10V VDC input
- ✓ Flow switch DHW
- ✓ PWM pump control
- ✓ External low water cut off
- Gas pressure switch
- Universal safety contact set 1 & 2

High Voltage Connections

- ✓ Boiler pump
- System pump
- ✓ DHW pump
- DHW twv (3-way valve)
- Alarm

Additional Features

- Two level frost protection
- Short cycle protection
- ✓ Adjustable minimum & maximum power
- Temperature boost function
- ✓ Multiple levels of security
- ✓ PWM control for variable speed pumps
- ✓ Domestic hot water priority time control
- Selectable priority for domestic hot water or heating

Cascade

- ✓ Integrated cascade control
- ✓ Cascade control of up to 16 boilers
- ✓ Remote operation and heat demand indication from each boiler
- ✓ Four cascade power program modes
- ✓ Boiler sequencing and rotation control
- ✓ Following boilers fully operational on failure of lead boiler

Accessories

External flow temperature sensor
Indirect tank temperature sensor
PC software+interface cable for programming boiler
BACNET module
0-10V Modulating circulator signal converter
Low water cutoff
Fixed speed high efficiency circulator
Fixed speed standard efficiency circulator
Variable speed high efficiency circulator
75 psi relief valve (3/4" & 1" & 1-1/4" & 1-1/2")
100 psi relief valve (3/4" & 1" & 1-1/4")
125 psi relief valve (3/4" & 1" & 1-1/4")
150 psi relief valve (3/4" & 1" & 1-1/4")
8"/10"/12" Motorized Flue Damper
Neutralizer 400MBH - 7000MBH













