COMMODORE FLOOR STANDING COMMERCIAL BOILERS: CB 3000 & CB 4000

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JOB NAME: _____

DATE: _____

LOCATION: _____

ENGINEER: _____

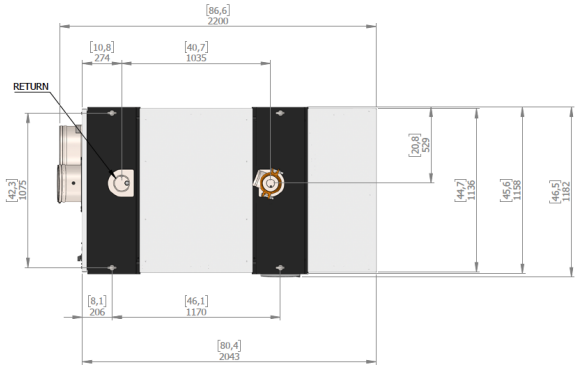
WHOLESALER: _____

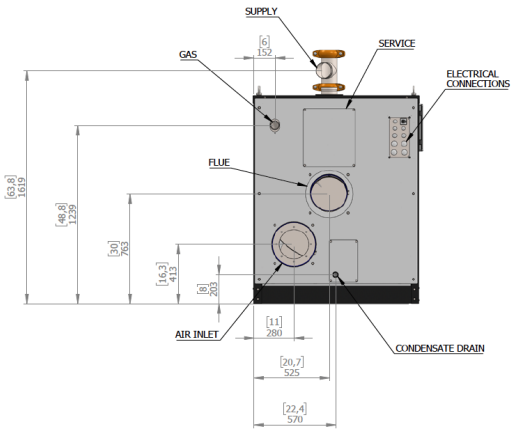
MODEL NUMBER: _____

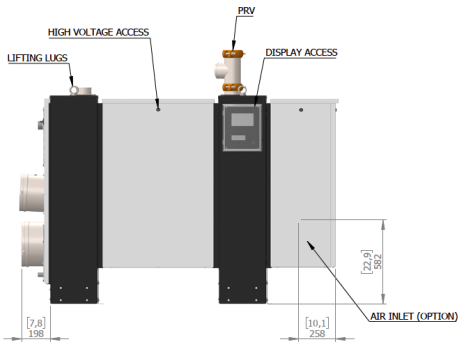
GAS TYPE: _____

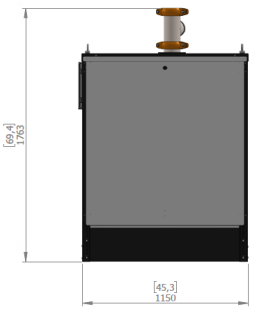
CONTRACTOR: _____

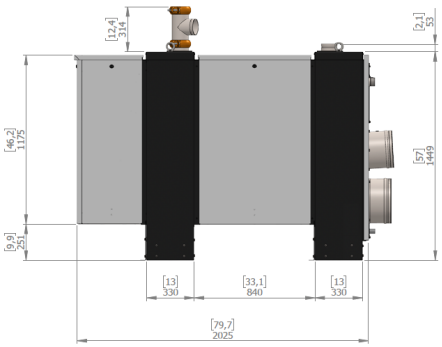
CB 3000 Dimensions











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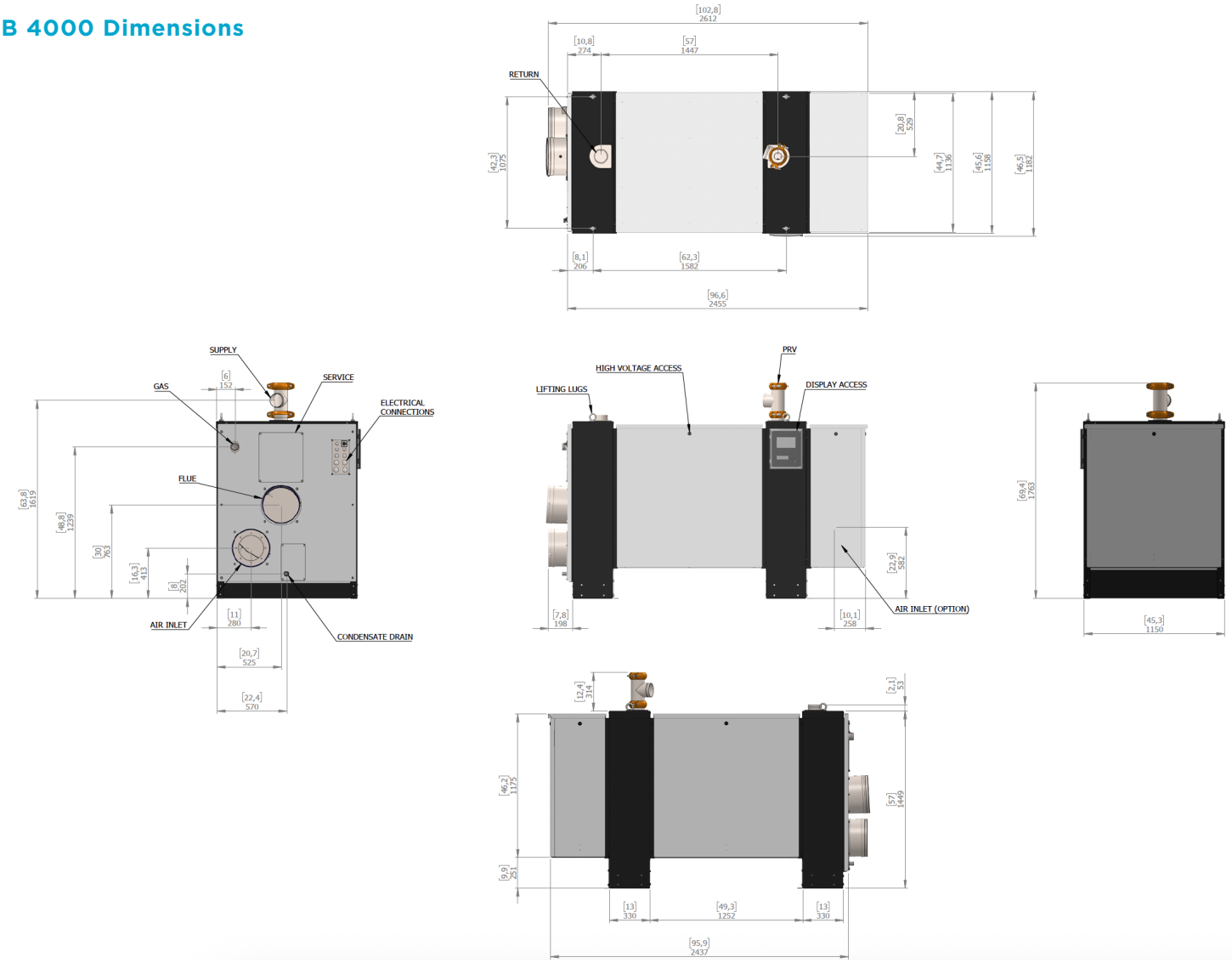
CB 4000 Dimensions



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

Commodore Water Tube Commercial Boiler Performance Data

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

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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 99.0% 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

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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

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

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

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

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AHRI CERTIFIED

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