Commodore Water Tube Floor Standing Commercial Boilers

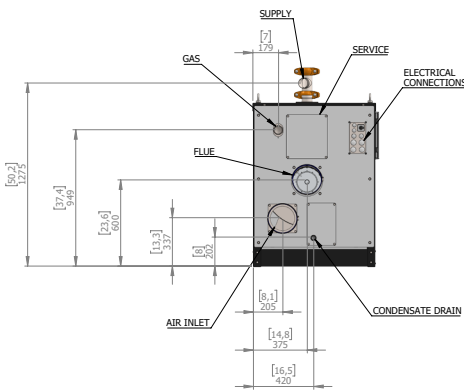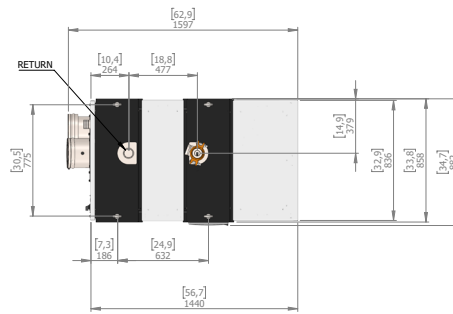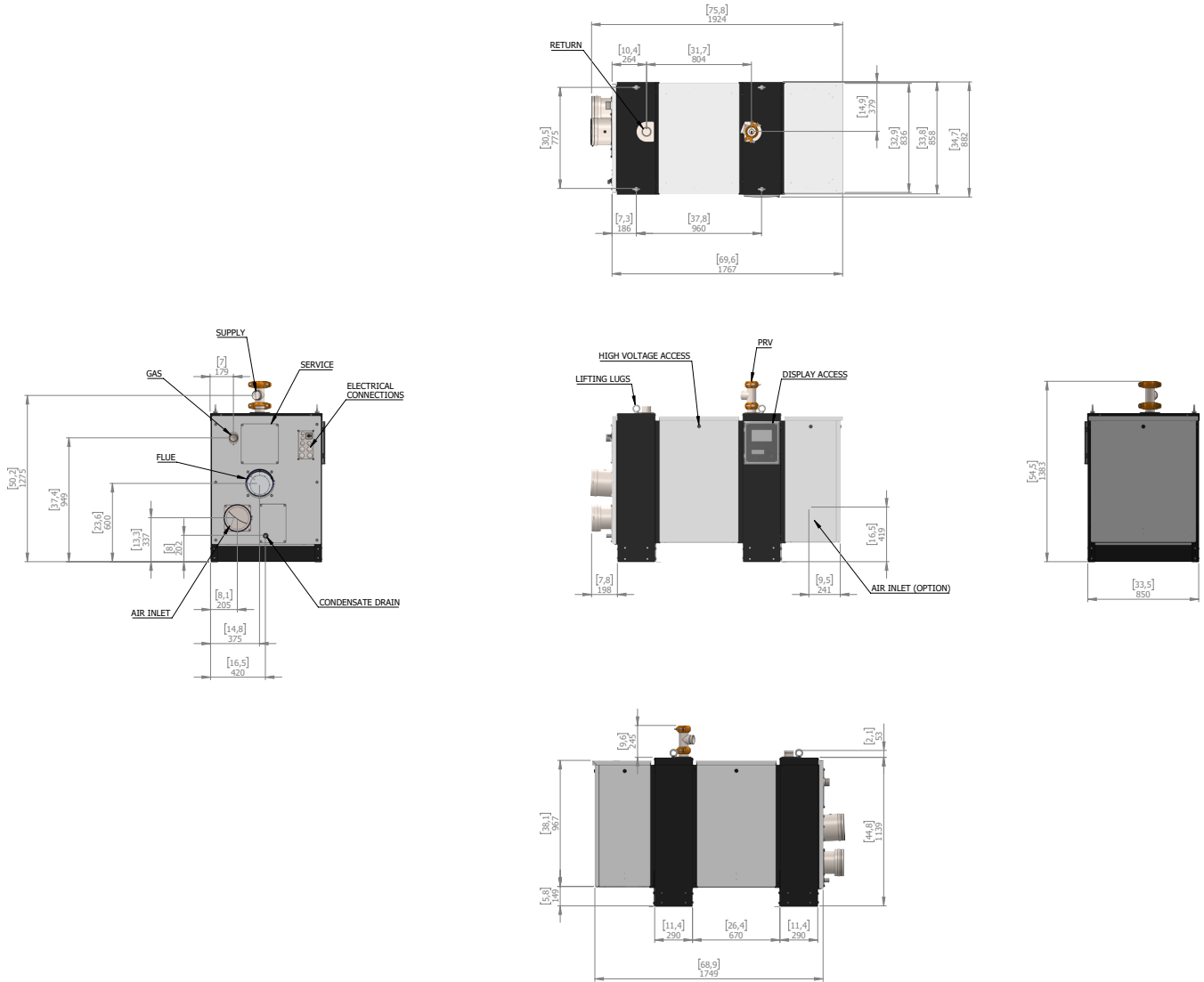|	
Job Name:	Date:
Location:	Model No.:
Engineer:	Gas Type:
Wholesaler:	Contractor:

CB 1250 Dimensions
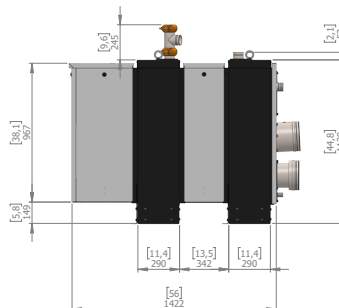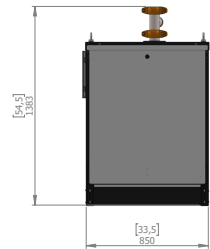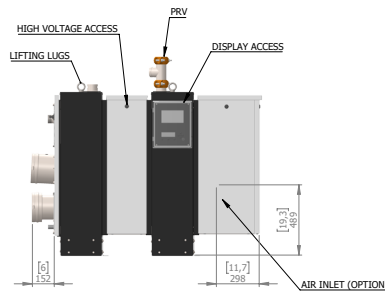
CB 2000 Dimensions

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 1250F	2-1/2"	2"	8"/8"	150'	47"	55"	34"	992
	CB 2000F	2-1/2"	2"	8"/8"	115'	47"	68"	34"	1213

Commodore Water Tube Commerical Boiler Performance Data

Product Selection	Model Number	Input, MBH		Output, MBH	Maximum Supply Temp., F	Net AHRI Rating, Water, MBH	Thermal Efficiency, %	Combustion Efficiency. %
		Min	Max					
	CB 1250F	156	1250	1200	194	1043	97.0%	96.6%
	CB 2000F	236	2000	1945	194	1691	98.0%	97.0%

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