

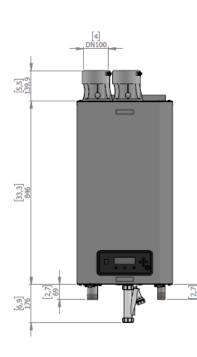
NORTH AMERICA

Commodore Submittal Sheet
Model
WH 299W
WH 399W
WH 470W
WH 499W

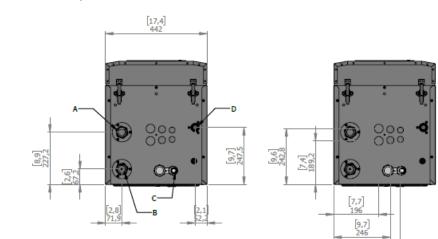
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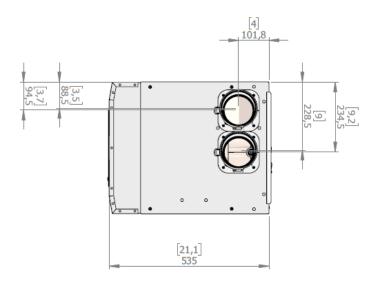
# Commodore Water Tube Commercial Water Heaters

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

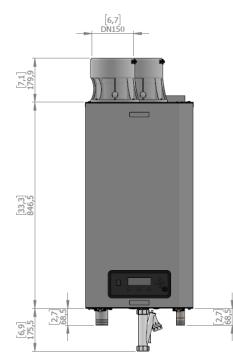


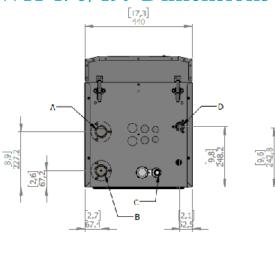
## WH 299/399 Dimensions

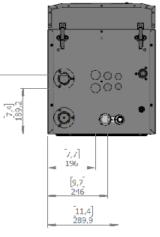


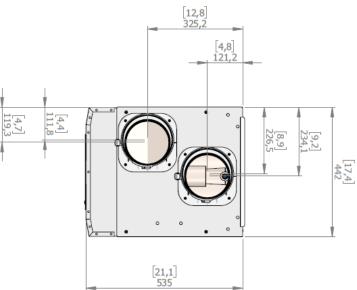


WH 470/499 Dimensions









Dimensions and Specifications													
Product Selection	Model Number	S/R Wate Vic. Cont			Vent Conn.	Vent Length	Height	Width		Depth		Weight lbs	
	WH 299W	1-1/2"	1-1/2" 1"		4"	200'	33-1/3"	17-1/3"		21-1/5"		174	
	WH 399W 1-1/2"		1"		4"	121'	33-1/3"	17	-1/3"	21-1/5	"	183	
	WH 470W	1-1/2"	1"		6"	200'	33-1/3"	17-1/3"		21-1/5"		187	
	WH 499W	1-1/2"	1"		6"	200'	33-1/3"	17	-1/3"	21-1/5"		187	
Commodore Water Tube Commerical Water Heater Performance Data													
Product		Model		Input, MBH		Output, MBH	Maximum			00F Rise		Thermal	
Selection Nun		er	Min		Max	0 alp al, 1121	ply Temp., F				Efficiency, %		
	WH 299	9W	46		299	289	185		346		96.0%		
	WH 399	9W	72		399	381	185		457		96.0%		
WH		ow	83		470	453	185	185		549		96.0%	
	WH 499W 83 500 475 185			583			96.0%						

#### Standard Features and Equipment

- ✓ Fold out panel with boiler control and display
- ✓ Graphic 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 sensor
- ✓ Rear wall thermal fuse
- ✓ Integrated flue gas check valve (non-return valve)
- ✓ Full stainless steel heat exchanger
- Premix burner
- ✓ Internal automatic air vent with drain connection
- ✓ Integrated low water cutoff
- ✓ Condensate trap
- ✓ External ignition transformer connection

### **Boiler and External Controls**

- ✓ Large backlit LCD with full text information programming and errors
- $\checkmark$  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

#### <u>Cabinet</u>

- Removable stainless steel side panels for easy access
- ✓ Compact design with small footprint
- Light weight design for wall hung applications (187lbs)
- ✓ Narrow width of 17.4 inches

#### 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
Propane conversion kit
Air filter kit
 Gas pressure kit
0-10V Modulating circulator signal converter
1 Circulator relay kit
2 Circulators relay kit
3 Circulators relay kit
ASME CSD-1 kit option 1
(Flow switch + manual reset high limit)
ASME CSD-1 kit option 2
(Option 1 + high + low gas pressure switches)
Low water cutoff
Fixed speed high efficiency circulator
Fixed speed standard efficiency circulator
Variable speed high efficiency circulator
75 psi relief valve 3/4"
85 psi relief valve 3/4"
 Neutralizer 400MBH - 7000MBH



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