

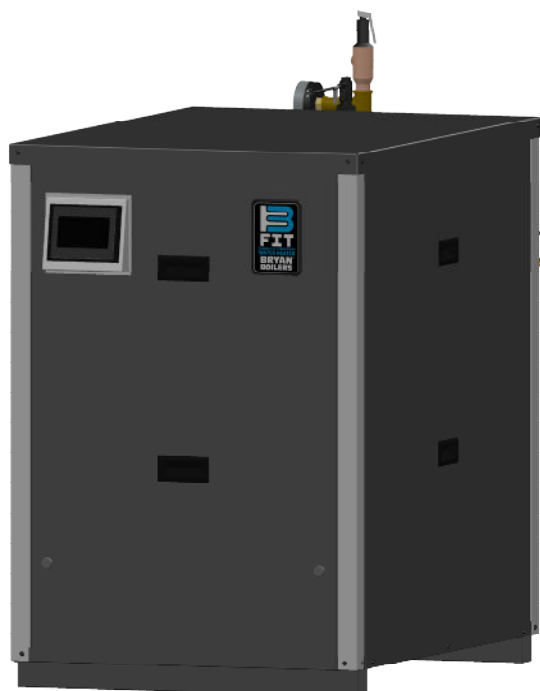


BRYAN® BOILERS

Condensing with the Power to FIT

REPAIR PARTS MANUAL

400-1000 MBH Indoor/Outdoor



PN: 110820-04 REV. 1
Save this manual for future reference.



Water Heater Models	Boiler Modes
BFITW 400	BFIT 400
BFITW 500	BFIT 500
BFITW 650	BFIT 650
BFITW 800	BFIT 800
BFITW 1000L	BFIT 1000L

NOTICE

The replacement parts noted in this manual are for a standard BFIT series appliance. Different features or components may have been supplied based on the requests of the customer. Consult Bryan Steam for repair parts on non-standard controls and components.

Repair parts can be ordered through your local Bryan Steam Representative.

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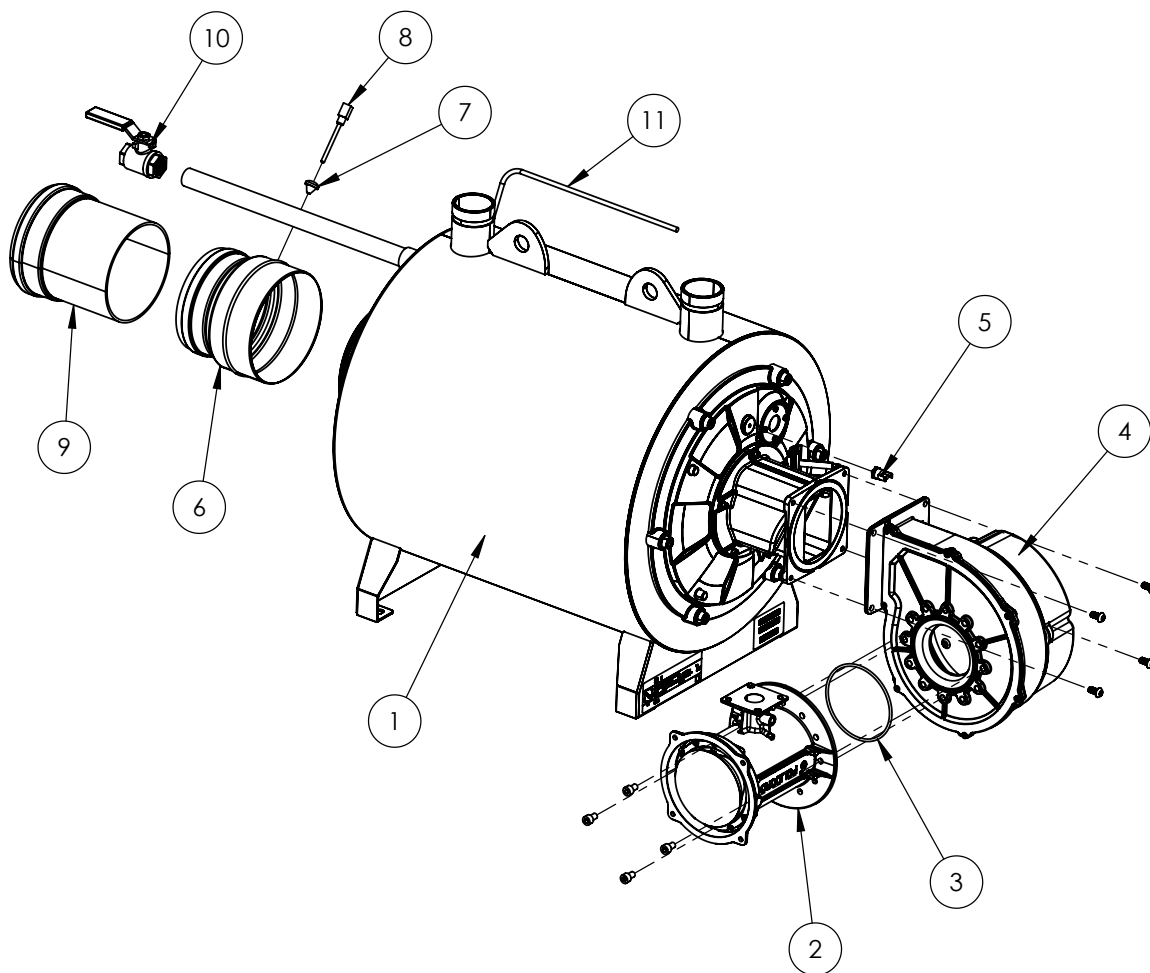


Table 1: BFIT 400-1000L Heat Exchanger Assembly Part Numbers

Item No.	Descriptions	BFIT Model Size				
		400	500	650	800	1000L
1	Heat Exchanger (WH)	108229-10	108229-12	108229-14	108229-16	108229-18
	Heat Exchanger (Boiler)	108229-09	108229-11	108229-13	108229-15	108229-17
2	Mixer (NG)	109548-08	109548-07	109548-06	109548-05	109548-04
	Mixer (LP)	111054-01	111054-02	111054-03	111054-04	111054-05
3	Mixer O-ring	107694-01		110202-01		
4	Blower	107525-01	111259-01	108262-06		
5	Thermal Fuse	108360-01				
6	HX Vent Adapter	105996-01		110446-01		
7	Flue Sensor Grommet	105997-01				
8	Flue Temp Sensor	106015-01				
9	Vent Adapter Extension	N/A		110446-03	110446-02	N/A
10	Drain Valve	101615-02 (WH), 101615-01 (Boiler)				
11	Block Vent line	109535-01 (Lock Nut, Bras), 822630 (Male Comp.), 92465560 (Tubing)				

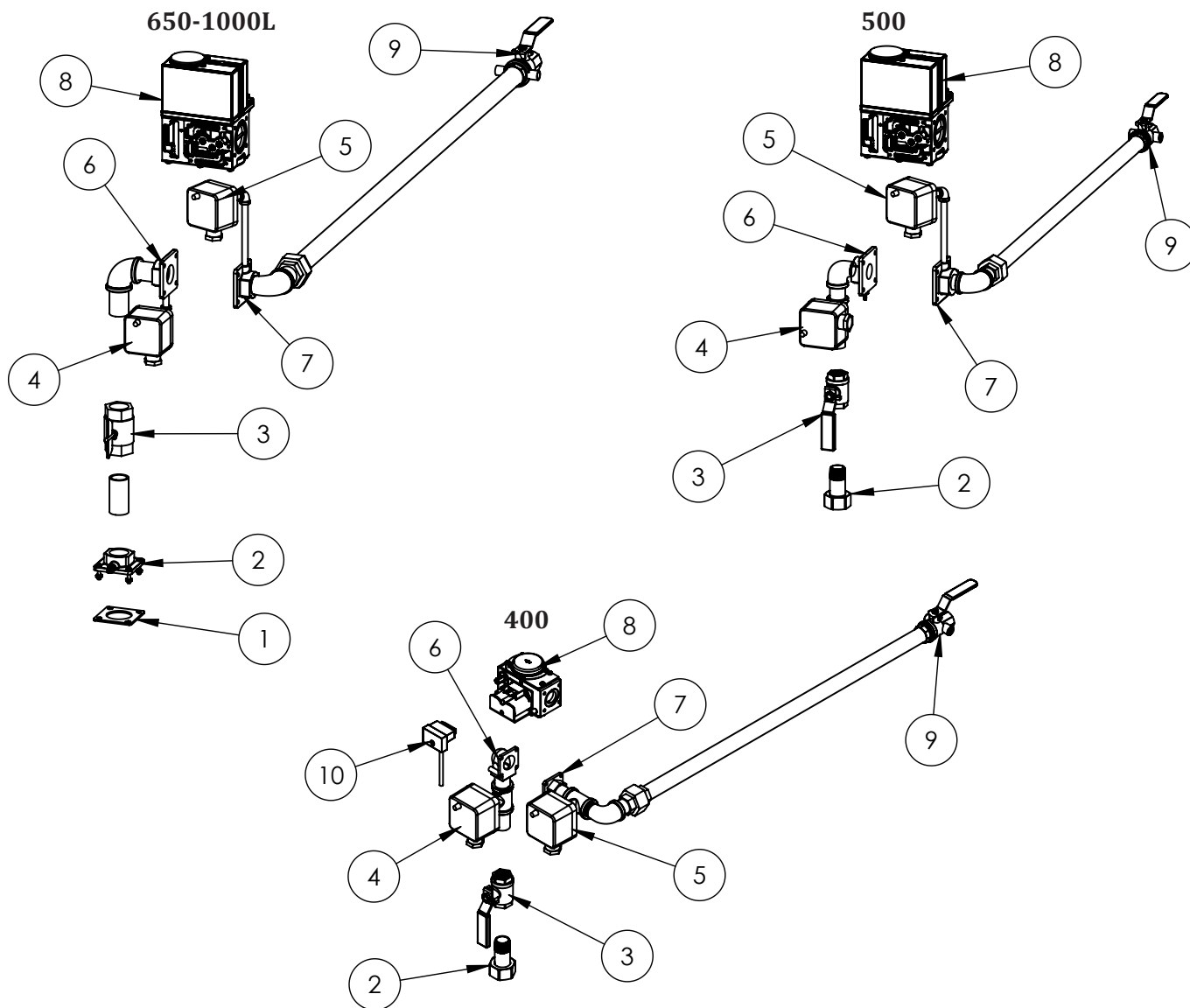


Table 2: BFIT 400-1000L Gas Train Part Numbers

Item No.	Descriptions	BFIT Model Size				
		400	500	650	800	1000L
1	Gasket, Gas Train to Mixer	106096-01		110056-02		
2	Mixer to NPT Adapter	107528-01		110444-01	110444-02	
3	Ball Valve, Secondary Shutoff	101615-01			105325-01	
4	High Gas Pres. SW	80160333				
5	Low Gas Pres. SW	80160332				
6	Gas Valve Flange, Outlet	102972-03	110444-01		110444-02	
7	Gas Valve Flange, Inlet	102972-02	110444-01	110444-02		
8	Gas Valve	107526-01	110443-04	110443-03		
9	Ball Valve, Main Shutoff	822653		806603055		
10	Gas Valve Harness Plug	102971-01	N/A			
*	Air Proving SW/Gas Valve Tubbing	9016007	9016007 (3/16"), 11048-02 (4mm)			

* Not shown in drawing

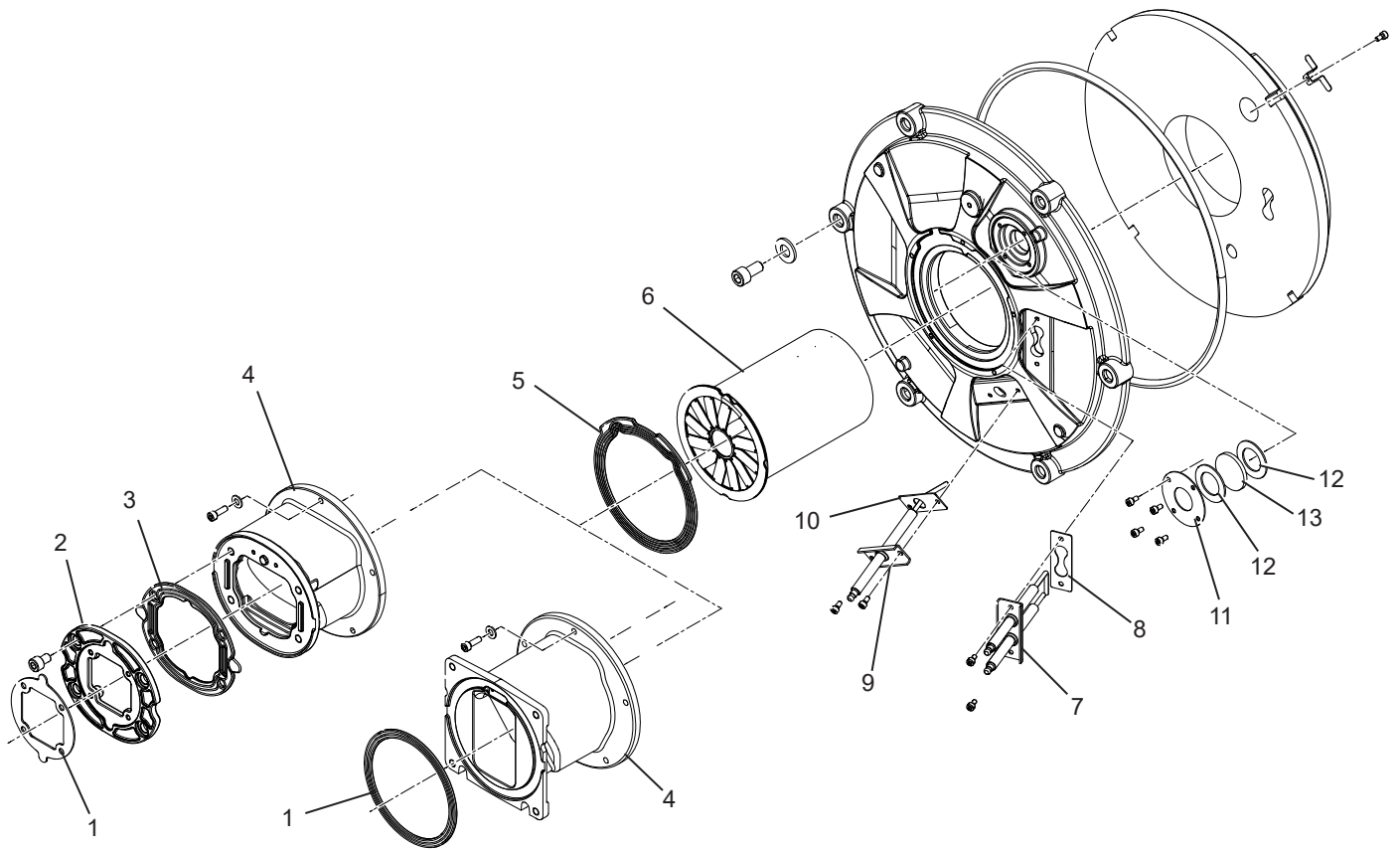


Table 3: BFIT 400-1000L Burner Door Assembly Part Numbers

Item No.	Descriptions	BFIT Model Size				
		400	500	650	800	1000L
1	Fan/Blower Gasket	111346-01		111346-02		
2	Blower Adapter	111346-03		N/A		
3	Blower Adapter Gasket	111346-04		N/A		
4	Blower Flange	111346-05		111346-06		
5	Burner Gasket	111346-07				
6	Burner	111346-08	111346-09	111346-10	111346-11	111346-12
7	Ignition Electrode	111346-13				
8	Ignition Electrode Gasket	108861-09				
9	Flame Sensor/Flame Rod	111346-15				
10	Flame Rod Gasket	111346-16				
11	Observation Port Plate	108861-36				
12	Observation Port Gasket	108861-35				
13	Observation Port Glass	108861-07				

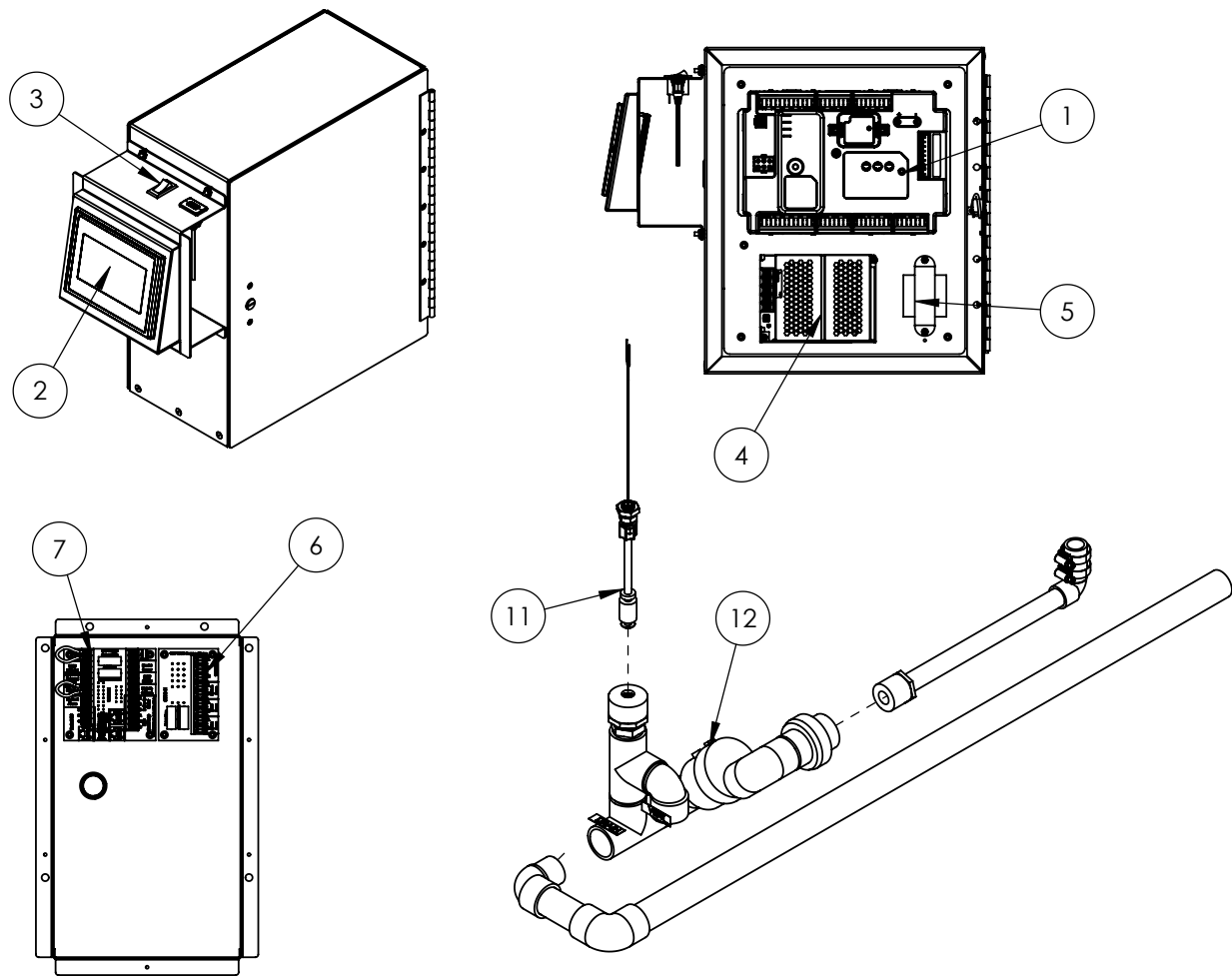


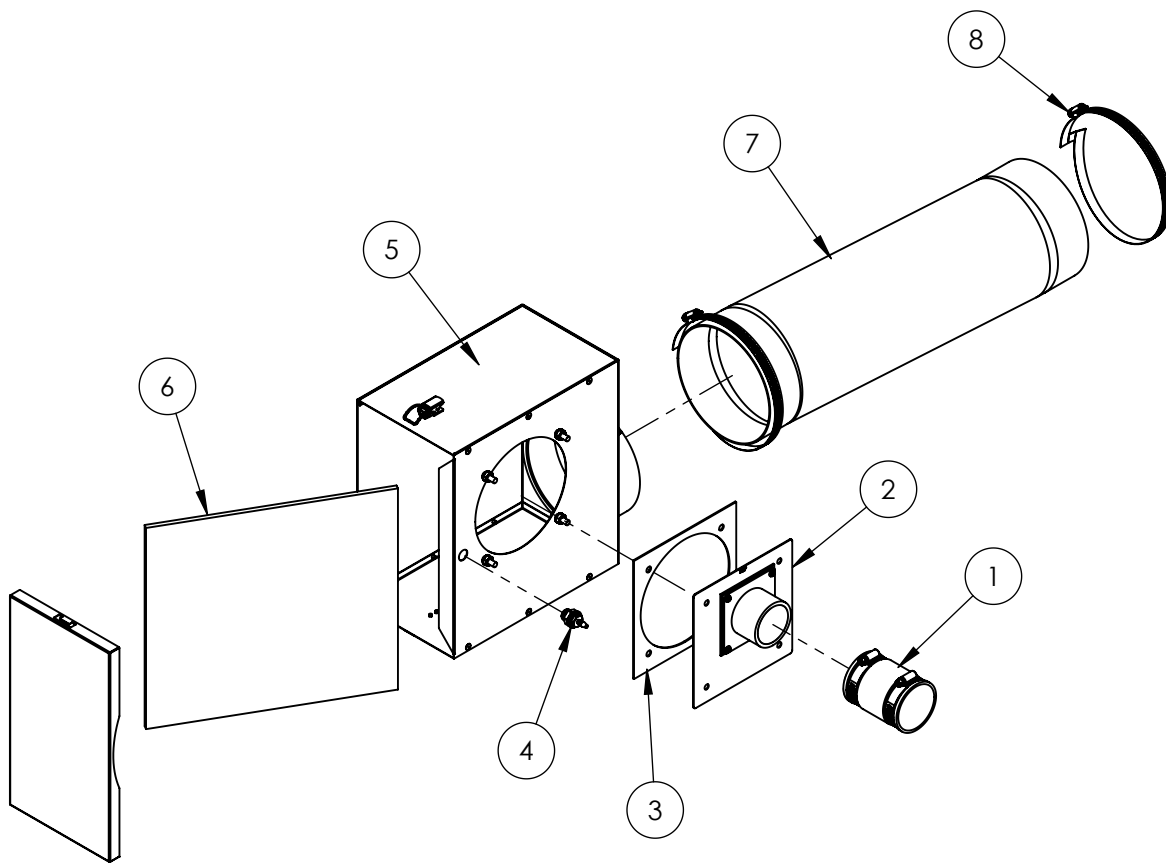
Table 4: BFIT 400-1000L Electronics and Controls Part Numbers

Item No.	Descriptions	BFIT Model Size				
		400	500	650	800	1000L
1	Main Boiler Control	107022-01				
2	Display	105993-02				
3	On/Off switch	108431-02				
4	Display Power Supply, 24VDC	105680-01				
5	24 VAC Transformer	111055-01		111055-02		
6	120V PCB	105613-01				
7	Low Voltage PCB	105614-01				
8*	Air Proving SW	108394-05				
9*	Blocked Vent SW	108395-03	108395-02	108395-03		108395-02
10*	Low Water Cut Off	28344.3				
11	Block Condensate Switch	108365-03				
12	Condensate Trap/Switch Assy.	108266-01				
13	Fuse for Low Voltage PCB	105299-01	106073-01			
14	Fuse for 120V PCB	105300-01				

*Not Shown in drawing

Table 5: BFIT 400-1000L Wire Harness Part Numbers

Item No.	Descriptions	BFIT Boiler Model Size				
		400	500	650	800	1000L
1	120 VAC Wire Harness	111063-01				
2	24 VAC Wire Harness	111062-01				
3	Flow Switch harness	111064-01 (indoor), 110064-02 (outdoor)				
4	Gas Valve Harness	111065-01	111066-01			
5	Ignition Harness	111067-01				

**Table 6: BFIT 400-1000L Combustion Air Intake Assembly**

Item No.	Descriptions	BFITW Model Size				
		400	500	650	800	1000L
1	Flex Coupling	106447-02			N/A	
2	Filter Box Adapter Assy.	110359-01			N/A	
3	Filter Box/Mixer gasket	110495-01				
4	Intake Signal Port	111010-01				
5	Filter Box Assembly	110348-01				
6	Intake Filter	T20215				
7	Intake Flex Duct	110399-01 (2 ft)			110399-01 (3 ft)	
8	Intake Duct Clamp	110426-01				

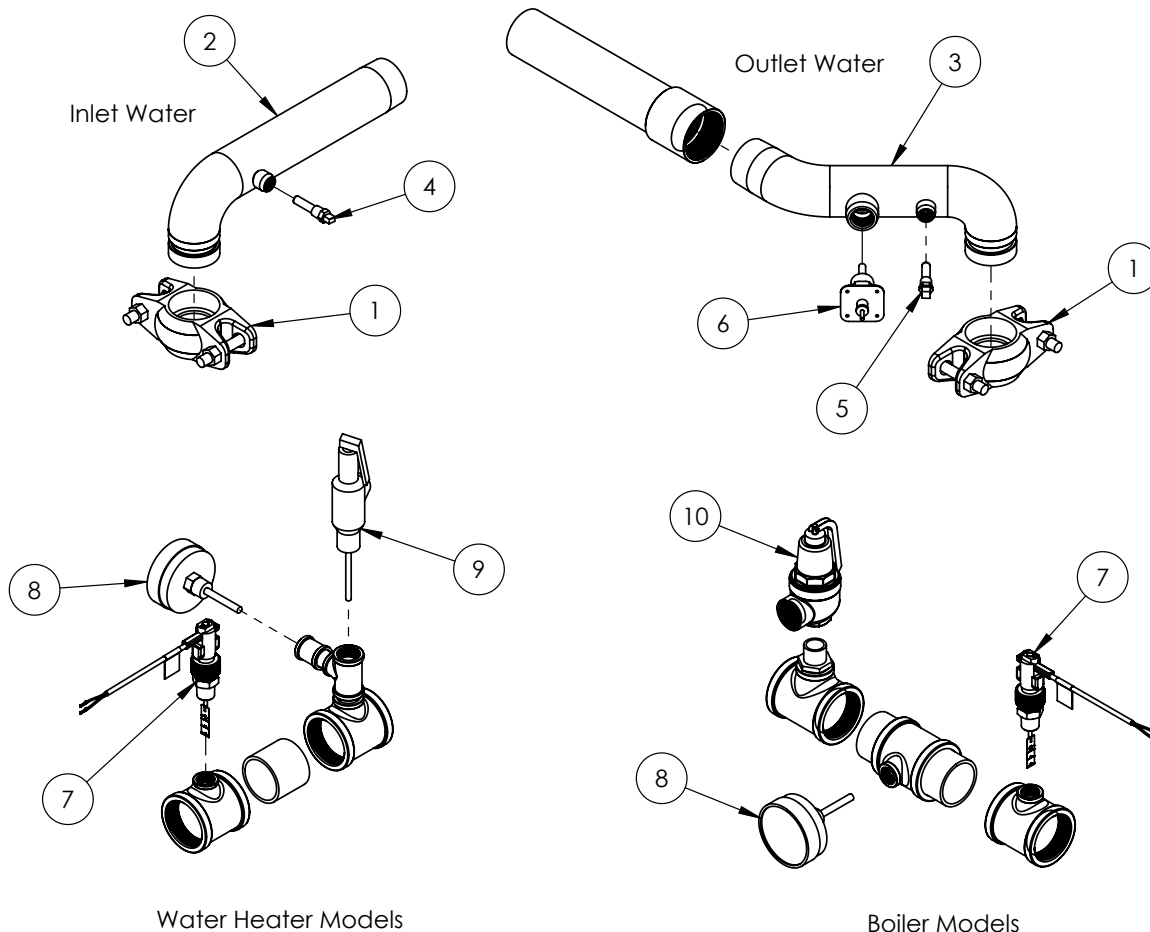


Table 7: BFIT 400-1000L Water Piping Assemblies

Item No.	Descriptions	BFIT Boiler Model Size				
		400	500	650	800	1000L
1	Victaulic Coupling	103987-01				
2	Inlet Manifold	110148-01				
3	Outlet Manifold	110148-02				
4	Inlet Temp Sensor	101685-01				
5	Outlet Temp Sensor	106014-01				
6	Low Water Cut Off	28344.3				
7	Water Flow Switch	108396-02 (indoor), 108396-05 (outdoor)				
8	T&P gauge (Water Heater)	103470-03 (indoor), 103470-05 (outdoor)				
	T&P gauge (Boiler)	103470-06 (30-60 psi RV), 103470-05 (75-125 psi RV)				
9	T&P Relief Valve (Water Heater)	109297-01				
10	Pressure Relief Valve (Boiler)					
	30 psi	81660332		81660338		
	50 psi	111602-02				81660359
	60 psi	111602-01				81660375
	75 psi	81660374				
	100 psi	81660377				
	125 psi	81660373				

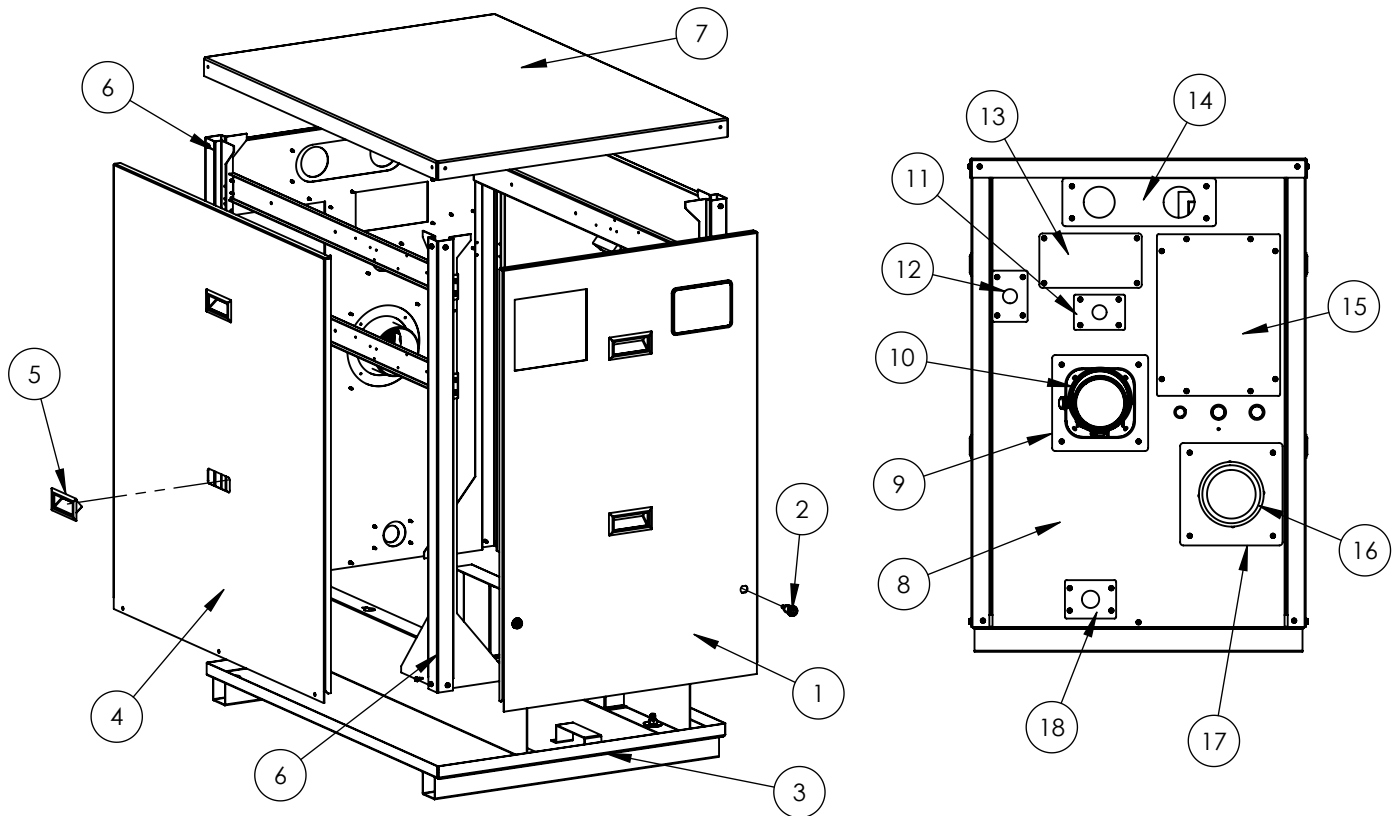


Table 8: BFIT 400-1000L Jacket Part Numbers

Item No.	Descriptions	BFIT Boiler Model Size				
		400	500	650	800	1000L
1	Front Panel	Indoor: 110570-01, Outdoor: 110675-08				
2	Front Panel Latch	80861722				
3	Base Assembly	110175-02			110175-01	
4	Side Panel (indoor)	110181-02			110181-01	
	Side Panel (outdoor)	110181-04			110181-03	
5	Panel Handle	8056256				
6	Corner Post	110182-01				
7	Top Panel	110180-02			110180-01	
8	Rear Panel	110179-01				
9	Vent Trim Panel	110531-06			N/A	
10	Vent Adapter	106017-01			106018-01	
11	Drain Trim Panel	110531-10				
12	Gas Train Trim Panel	110531-10			110531-11	
13	Access Trim Panel	110531-07				
14	Inlet/Outlet Trim Panel	110531-01				
15	Rear Control Box Panel	110531-02				
16	Intake Adapter	105991-01			81156106	
17	Intake Trim Panel	110531-03			N/A	
	Intake Cover (outdoor)	110531-09				

Notes



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