

# Smith

CAST IRON BOILERS

## BOILER

# Shipping Information

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This manual is a complete, practical guide which shows you the shipping information required to stock and reship Smith Cast Iron Boilers from your warehouse.

Please note that on all boilers an initial page or pages lists the castings, boxes, bundles and crates required to ship a complete boiler of the type and style shown at the top of the page. The number of sections in the boiler are listed in the right hand column. For example, locate the sheet for the style of boiler required, then locate the size of the boiler in the right hand column. Now read down this column and you will find the number of castings, boxes bundles, etc., necessary to ship that particular boiler. On the following page(s) is shown the contents of each box, bundle, crate, etc.



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—STEAM OR WATER—

CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF			PART NUMBER	NUMBER OF PIECES PER BOILER												
				3	4	5	6	7	8	9	10	11	12			
Front Section			3638	1	1	1	1	1	1	1	1	1	1	1		
Plain Intermediate Section			3637	1	2	3	4	5	6	7	8	9	10			
Heater Intermediate Section (Optional)			3641	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Back Section			3639	1	1	1	1	1	1	1	1	1	1	1		
X1 Carton			71888	1												
			76500		1											
			76501			1										
			76502				1									
			76503					1								
			76504						1							
			76505							1						
			76506								1					
			76507									1				
			76508										1			
X2 Carton*			70386													
Smokehood Assembly		#3579	7"	70338	1	1										
		#3576	8"	70339			1	1								
		#3577	9"	70340					1							
		#3578	10"	70341						1	1	1	1	1		
Smokehood Adapter			70013									1	1			
Cleanout Cover Plate Carton			72587	1			1					1				
			72588		1		1	2	1			1	2	1		
			72589			1			1	2	1	1	1	2		
Burner Mounting Plate #3565 6 1/8" Opening: All Carlin Burners Oil & Gas, Beckett CF500, CF800, CF1400, CG10(B),15			70465	1	1	1	1	1	1	1	1	1	1			
Burner Mounting Plate #3566 7 3/4" Opening: Powerflame CR1-O, JR15A-10, JR30A-10/12, CR1-GO-10/12, Beckett CF2300, CF2500			70466	1	1	1	1	1	1	1	1	1	1			
Burner Mounting Plate #3640 9 1/8" Opening: Powerflame JR50A-15, CR2-GO-15/20A,B, Beckett CG25			70491	1	1	1	1	1	1	1	1	1	1			
Burner Insulating Block		Beckett		60430	1	1	1									
		All Others		60434	1	1	1	1	1	1	1	1	1			
Steam Trim Carton			70123	1	1	1										
			70124				1	1	1							
			70365							1	1	1	1			
Water Trim Carton			70122	1	1	1	1	1	1							
			70153							1	1	1				
			70130										1			
Steam Control Carton			70615	1	1	1	1	1	1	1	1	1	1			
Water Control Carton			70617	1	1	1	1	1	1	1	1	1	1			

Notes: (1) When used, reduce quantity of Plain Intermediate Section by the number of Heater Intermediate Sections shipped.

\* Used when adding a section to an existing X1 box.

# 19HE SERIES SMITH BOILER BURNER UNIT

—STEAM OR WATER—

## CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF		PART NUMBER	3	4	5	6	7	8	9	10	11	12
Complete Jacket 19HE		55199	1									
		55384		1								
		55385			1							
		55386				1						
		55387					1					
		55388						1				
		55389							1			
		55390								1		
		55391									1	
		55392										1
Angle Floor Rails	18"	69180	2									
	24"	69410		2								
	30"	69411			2							
	36"	69412				2						
	42"	69413					2					
	48"	69414						2				
	54"	69415							2			
	60"	69416								2		
	66"	69417									2	
	72"	69418										2
Target Wall		69761	1	1	1	1						

# 19HE SERIES SMITH BOILER BURNER UNIT

—STEAM OR WATER—

## COMPLETE CARTON CONTENTS

19HE SERIES X1 CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
Can Spray Adhesive	70492	1	1	1	1	1	1	1	1	1	1
Burner Mtg. Plate - Insul Rope 1/4" x 57"	78105	1	1	1	1	1	1	1	1	1	1
Rope Ins. 3/8" x 10'4"	78100	2	3	4	5	6	7	8	9	10	11
Flue Brush and Handle	60090	1	1	1	1	1	1	1	1	1	1
4" Round Lower Gasket	60340	2	3	4	5	6	7	8	9	10	11
10" Oval Upper Gasket	60339	2	3	4	5	6	7	8	9	10	11
Rear Observation Port Plate	3679	1	1	1	1						
Rear Observation Port Assembly	70614					1	1	1	1	1	1
Bag of hardware	70269					1	1	1	1	1	1
Bag of hardware	70268	1	1	1	1						
Fitter Envelope (Serial Number Label IOM)	70490	1	1	1	1	1	1	1	1	1	1
Bolt Hole Tape 24-1/2"	74304	1	1	1	1	1	1	1	1	1	1
Bolt Hole Tape 3.5'	74300	1	1	1	1	1	1	1	1	1	1
Knit Tape 11"	74302	1	1	1	1	1	1	1	1	1	1
10.3 oz. Cartridge of Silicone	61924	1	1	1	1	1	2	2	2	2	2
5/8" x 9" Draw Rods	60101	8	12	16	20	24	28	32	36	40	44
5/8" Hex Nuts	60877	16	24	32	40	48	56	64	72	80	88
5/8" Flat Washers	62099	8	12	16	20	24	28	32	36	40	44

19HE SERIES X2 CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
5/8" X 9" Draw Rods	60101	4	4	4	4	4	4	4	4	4	4
10" Oval Upper Gasket	60339	1	1	1	1	1	1	1	1	1	1
4" Round Lower Gasket	60340	1	1	1	1	1	1	1	1	1	1
Cleanout Cover Plate	70361	1	1	1	1	1	1	1	1	1	1
Bag of Hardware 19HE/28HE	70650	1	1	1	1	1	1	1	1	1	1
Rope Ins. 3/8" X 10'4"	78100	1	1	1	1	1	1	1	1	1	1

19HE SERIES CLEANOUT COVER PLATE CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
Cleanout Cover Plate	70361	2	3	4	5	6	7	8	9	10	11
3/8" x 2" Cleanout Cover Bolt	57-4001	4	6	8	10	12	14	16	18	20	22
3/8" Hex Nut	57-1001	4	6	8	10	12	14	16	18	20	22
3/8" Washer	62097	4	6	8	10	12	14	16	18	20	22
3/8" Rope (3.75' per Plate)	76538	2	3	4	5	6	7	8	9	10	11
1/8 x 2 Tape	61938	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

19HE SERIES STEAM TRIM CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
3-1/2" Steam Gauge	60269	1	1	1	1	1	1	1	1	1	1
1" Steel Close Nipple	60753	1	1	1	1	1	1	1	1	1	1
1" x 1/4" Reducing Coupling	61297	1	1	1	1	1	1	1	1	1	1
1/4" 90° Syphon	61683	1	1	1	1	1	1				
1/4" 180° Syphon	61684							1	1	1	1
5/8" x 9-7/8" Sight Glass	61862	1	1	1	1	1	1	1	1	1	1
Instruction Tag	69140	1	1	1	1	1	1	1	1	1	1
Control Tree Piping	74149	1	1	1	1	1	1	1	1	1	1
1" x 3-1/2" Pipe Nipple	60774	1	1	1							
15# Safety Valve #13-213	1"	61982	1	1	1						
1-1/4" x 1" Hex Bushing	61166	1	1	1							
1" Pipe Coupling	61293	1	1	1							
1-1/4" x 3-1/2" Pipe Nipple	60787				1	1	1				
15# Safety Valve #13-213	1-1/4"	61983			1	1	1				
1-1/4" Union	60122				1	1	1			1	1
1-1/2" x 2-1/2" Pipe Nipple	60797							1	1	1	1
1" x 1/4" Reducing Coupling	61297							1	1	1	1
15# Safety Valve #13-214	1-1/2"	61984						1	1	1	1
1-1/2 Brass Plug Socket	61635							1	1	1	1
1-1/2 CI Tee	61894							1	1	1	1

# 19HE SERIES SMITH BOILER BURNER UNIT

—STEAM OR WATER—

## COMPLETE CARTON CONTENTS

19HE SERIES WATER TRIM CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
3-1/2" Press/Temp Gauge	60267	1	1	1	1	1	1	1	1	1	1
1/2" Pipe Plug	61542	1	1	1	1	1	1	1	1	1	1
3/4" x 3 1/2" Pipe Nipple	60901	1	1	1	1	1	1	1	1		
1-1/4" x 3/4" Hex Bushing	61165	1	1	1	1	1	1	1	1		
40# Relief Valve #740 3/4"	61997	1	1	1	1	1	1				
1" x 3-1/2" Pipe Nipple	61774							1	1	1	
1-1/4" x 3-1/2" Pipe Nipple	60787										1
1-1/4" x 1" Hex Bushing	61166							1	1	1	
40# Relief Valve #740 1"	61998							1	1	1	
40# Relief Valve #740 1-1/4"	61999										1

19HE SERIES STEAM CONTROL CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
PA404A-1009	50493	1	1	1	1	1	1	1	1	1	1
L4079B-1033	50495	1	1	1	1	1	1	1	1	1	1
Syphon 1/4" 180°	61684	1	1	1	1	1	1	1	1	1	1

19HE SERIES WATER CONTROL CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
L40006E-1133	14-1001	1	1	1	1	1	1	1	1	1	1
L4006A-1827	50511	1	1	1	1	1	1	1	1	1	1
Well 3SE 3/4 NPT	50502	2	2	2	2	2	2	2	2	2	2

19HE SERIES JACKET CARTON	PART NUMBER	3	4	5	6	7	8	9	10	11	12
J1 Jacket Carton	55365	1	1	1	1	1	1	1	1	1	1
J2 Jacket Carton	55366		1								
	55367			1							
	55368				1						
	55369					1					
	55370						1				
	55371							1			
	55372								1		
	55373									1	
J3 Jacket Carton	55374										1
	55375		1								
	55376			1							
	55377				1						
	55378					1					
	55379						1				
	55380							1			
	55381								1		
J4 Jacket Carton	55382									1	
	55383										1
	55398	1									

# RTS-HE SERIES SMITH BOILER BURNER UNIT

MEA#273-89-E

VOL II

—WATER—

## CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF	PART NUMBER	NUMBER OF PIECES PER BOILER															
		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Front Section	01-3702	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Plain Intermediate Section - less boss	3658	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Heater Intermediate Section (optional)	3623	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	
Plain Intermediate Section - with boss (used w/1" tap and inspection taps)	3622	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)		
Back Section	01-3700	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
X1 Carton	76470	1															
	76471		1														
	76472			1													
	76473				1												
	76474					1											
	76475						1										
	76476							1									
	76477								1								
	76478									1							
	76479										1						
	76480											1					
	76481												1				
	76482													1			
	76483														1		
76484															1		
X2 Carton* (Less Port Connectors)	70682																
Graphite Port Connector Carton	72577	1															
	72578		1														
	72579			1					2	1							
	72580				1						1	2	1				
	72581					1						1	2	1			
	72582						1						1	2	1		
	72583							1							1		
RTS Carton	70-1207	1															
	70-1208		1														
	70-1209			1													
	70-1210				1												
	70-1211					1											
	70-1212						1										
	70-1213							1									
	70-1214								1								
	70-1215									1							
	70-1216										1						
	70-1217											1					
	70-1218												1				
	70-1219													1			
70-1220														1			
70-1221															1		
Water Trim Carton	70623	1															
	70619		1	1													
	70620				1	1	1	1									
	70621								1	1	1	1					
	70622												1	1	1	1	
	Complete Jacket 28HE	55596	1														
55597		1															
55598			1														
55599				1													
55600					1												
55601						1											
55602							1										
55603								1									
55604									1								
55605										1							
55606											1						
55607												1					
55608													1				
55609														1			
55610															1		

Notes: (A) When used, reduce quantity of Plain Intermediate Section by the number of Heater Intermediate Sections shipped.

(B) When used, reduce quantity of Plain Intermediate Section by the number of Tapped Intermediate Sections shipped.

\* Used when adding a section to an existing X1 box.

# RTS-HE SERIES SMITH BOILER BURNER UNIT

—WATER—

## CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF			PART NUMBER	NUMBER OF PIECES PER BOILER																
				4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Angle Floor Rails	34"	69629	2																	
	42"	69630		2																
	51"	69631			2															
	59"	69632				2														
	67"	69633					2													
	75"	69634						2												
	83"	69635							2											
	91"	69636								2										
	99"	69637									2									
	107"	69638										2								
	115"	69639											2							
	123"	69683												2						
	131"	69684													2					
	139"	69685														2				
147"	69686															2				
Water Control Carton			70617	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Burner Insulating Block Carton			69645	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Cleanout Cover Plate Carton			72584	1			2	1				2	1	1				2	1	
			72585		1			1	2	1			1		1					1
			72586			1					1	2	1	1	2	2	3	2	2	
Flue Rod Bundle			70063	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Smokehood Assembly	#3514	10"	70633	1	1	1														
	#3428	12"	70611				1	1												
	#3429	14"	70612						1	1	1	1	1							
	#3430	16"	70613											1	1	1	1	1		
Smokehood Adapter			18"	70016													1	1		
Burner Mounting Plate #3552 12 1/2" Opening: Powerflame C4			70510	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Burner Mounting Plate #3410 10 1/4" Opening: Carlin 1150FFD Beckett CF3500, CG50 Powerflame C3			70640	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Burner Mounting Plate #3411 9" Opening: Carlin 702CRD/801CRD/1050FFD Powerflame C2/J50A-15 Beckett CF1400/2300/2500, CG15, CG25			70641	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Burner Mounting Plate #3517 7 3/4" Opening: Powerflame C1, J30A			70669	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

# RTS-HE SERIES SMITH BOILER BURNER UNIT

—WATER—

## COMPLETE CARTON CONTENTS

<b>28HE X1 CARTON</b>	<b>PART NUMBER</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
3" Stack Thermometer	51383	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flue Brush and Handle	60090	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.3 oz. Cartridge of Silicone	61924	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3
Rear Observation Port Assembly	70614	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/2" Rope Wicking 12-1/2" length	70660	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Can Spray Adhesive	70492	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Bolt Hole Tape 86 in.	74301	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Knit Tape 18 in.	74303	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fitter Envelope (Serial Number Label)	70402	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3/8" Rope wicking 7 ft. length	76540	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Draw Rods	70818	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
5/8" Hex Nuts	60877	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
5/8" Flat Steel Washers	62099	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
Bag Misc. hardware	70240	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bolt Hole Tape 24-1/2"	74304	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

<b>28HE X2 CARTON</b>	<b>PART NUMBER</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
Draw Rod 5/8" X 11"	60102	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Cleanout Cover Plate	70360	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bag of Hardware 19HE/28HE	70650	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/2" Rope Wicking 12-1/2'	70660	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

<b>GRAPHITE PORT CONNECTOR CARTON</b>	<b>PART NUMBER</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
Graphite Port Connector Set	60375	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

<b>RTS CARTON</b>	<b>PART NUMBER</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
Flanged End	70-1201	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 Hole Int.	70-1202				1	1	1	2	2	2	3	3	3	4	4	4
2 Hole End	70-1203	1			1			1			1			1		
3 Hole End	70-1204		1			1			1			1			1	
4 Hole End	70-1205			1			1			1			1			1
Support Bracket	03-1059	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Flange Gasket	06-1007	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bag of Hardware	70-1206	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RTS Label	82-1205	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



# RTS-HE SERIES SMITH BOILER BURNER UNIT

—WATER—

## COMPLETE CARTON CONTENTS

28HE WATER TRIM CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3-1/2" Press/Temp Gauge	60290	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3/4" x 3-1/2" Pipe Nipple	60901	1														
3/4" x 1/2" Hex Bushing	61160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3" x 3/4" Hex Bushing	61219	1														
40# Relief Valve #740                      3/4"	61997	1														
1" x 3-1/2" Pipe Nipple	60774		1	1												
3" x 1" Hex Bushing	61183		1	1												
40# Relief Valve #740                      1"	61998		1	1												
1-1/4" x 3-1/2" Pipe Nipple	60787				1	1	1	1								
3" x 1-1/4" Hex Bushing	61184				1	1	1	1								
40# Relief Valve #740                      1-1/4"	61999				1	1	1	1								
1-1/2" x 3-1/2" Pipe Nipple	60799								1	1	1	1				
3" x 1-1/2" Hex Bushing	61185								1	1	1	1				
40# Relief Valve #740                      1-1/2"	62000								1	1	1	1				
2" x 4" Pipe Nipple	60809												1	1	1	1
3" x 2" Hex Bushing	61186												1	1	1	1
40# Relief Valve #740                      2"	62002												1	1	1	1
RTS-HE Installation and Operating Instructions	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

28HE JACKET CARTONS	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H1 Jacket Carton	72-0053	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H2 Jacket Carton	55545	1														
	55546		1													
	55547			1												
	55548				1											
	55549					1										
	55550						1									
	55551							1								
	55552								1							
	55553									1						
	55554										1					
	55555											1				
	55556												1			
	55557													1		
	55558														1	
	55559															1

# RTS-HE SERIES SMITH BOILER BURNER UNIT

—WATER—

## COMPLETE CARTON CONTENTS

28HE JACKET CARTONS continued	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H3-C Jacket Carton	55560	1														
	55561		1													
	55562			1												
	55563				1											
	55564					1										
	55565						1									
	55566							1								
	55567								1							
	55568									1						
	55569										1					
	55570											1				
	55571												1			
	55572													1		
	55573														1	
55574															1	
H4-1 Jacket Carton	55575	1														
	55576		1													
	55577			1												
	55578				1											
	55579					1										
	55580						1									
	55581							1								
	55582								1							
	55583									1						
	55584										1					
	55585											1				
	55586												1			
	55587													1		
	55588														1	
55589															1	
H4-2 Jacket Carton	55590										1					
	55591											1				
	55592												1			
	55593													1		
	55594														1	
	55595															1

28HE WATER CONTROL CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L4006E - 1133	14-1001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L4006A - 1827	50511	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Well 3/4" NPT	50502	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

# RTS-HE SERIES SMITH BOILER BURNER UNIT

—WATER—

## COMPLETE CARTON CONTENTS

<b>28 HE CLEANOUT COVER PLATE CARTON</b>	<b>PART NUMBER</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
Cleanout Cover Plate	<b>70360</b>	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3/8" X 2" Cleanout Cover Bolt	<b>57-4001</b>	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Hex Nut	<b>57-1001</b>	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Washer	<b>62097</b>	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Rope (3.75' per Plate)	<b>76538</b>	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1/8 x 2 Tape	<b>61938</b>	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25

## —STEAM—

### CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF	PART NUMBER	NUMBER OF PIECES PER BOILER															
		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Front Section	<b>01-3702</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Plain Intermediates Section - less boss	<b>3658</b>	1	2	2	3	4	5	6	6	7	8	9	10	11	12	13	
Tapped Intermediate Section - Steam	<b>3624</b>	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	
Heater Intermediate section (optional)	<b>3623</b>	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	
Plain Intermediate Section - with boss (used w/1" tap and inspection taps)	<b>3622</b>	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	
Back Section	<b>01-3700</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X1 Carton	<b>76470</b>	1															
	<b>76471</b>		1														
	<b>76472</b>			1													
	<b>76473</b>				1												
	<b>76474</b>					1											
	<b>76475</b>						1										
	<b>76476</b>							1									
	<b>76477</b>								1								
	<b>76478</b>									1							
	<b>76479</b>										1						
	<b>76480</b>											1					
	<b>76481</b>												1				
	<b>76482</b>													1			
	<b>76483</b>														1		
<b>76484</b>															1		
X2 Carton* (Less Port Connectors)	<b>70682</b>																
Graphite Port Connector Carton	<b>72577</b>	1															
	<b>72578</b>		1														
	<b>72579</b>			1					2	1							
	<b>72580</b>				1					1	2	1					
	<b>72581</b>					1						1	2	1			
	<b>72582</b>						1							1	2	1	
	<b>72583</b>							1								1	
Steam Trim Carton	<b>70599</b>	1	1														
	<b>70600</b>			1	1												
	<b>70601</b>					1	1	1	1	1							
	<b>70602</b>										1	1	1	1	1		
	<b>70495</b>															1	
Complete Jacket 28HE	<b>55596</b>	1															
	<b>55597</b>		1														
	<b>55598</b>			1													
	<b>55599</b>				1												
	<b>55600</b>					1											
	<b>55601</b>						1										
	<b>55602</b>							1									
	<b>55603</b>								1								
	<b>55604</b>									1							
	<b>55605</b>										1						
	<b>55606</b>											1					
	<b>55607</b>												1				
	<b>55608</b>													1			
<b>55609</b>														1			
<b>55610</b>															1		

**NOTES:** (A) When used, reduce quantity of Plain Intermediate Sections by the number of Heater Intermediate Sections shipped.  
 (B) When used, reduce quantity of Plain Intermediate Sections by the number of Tapped Intermediate Sections shipped.  
 \* Used when adding a section to an existing X1 box.

# 28HE SERIES SMITH BOILER BURNER UNIT

—STEAM—

## CONTENTS OF CARTONS LISTED ON FOLLOWING PAGES

COMPLETE BOILERS CONSIST OF			PART NUMBER	NUMBER OF PIECES PER BOILER													
				4	5	6	7	8	9	10	11	12	13	14	15	16	17
Angle Floor Rails	34"	69629	2														
	42"	69630		2													
	51"	69631			2												
	59"	69632				2											
	67"	69633					2										
	75"	69634						2									
	83"	69635							2								
	91"	69636								2							
	99"	69637									2						
	107"	69638										2					
	115"	69639											2				
	123"	69683												2			
	131"	69684													2		
	139"	69685														2	
147"	69686															2	
Steam Flange Carton		70-1225	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Steam Control Carton		70615	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Burner Insulating Block Carton		69645	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cleanout Cover Plate Carton		72584	1			2	1				2	1	1			2	1
		72585		1			1	2	1			1		1			1
		72586			1				1	2	1	1	2	2	3	2	2
Flue Rod Bundle		70063	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Smokehood Assembly	#3514	10"	70633	1	1	1											
	#3428	12"	70611				1	1									
	#3429	14"	70612						1	1	1	1	1				
	#3430	16"	70613											1	1	1	1
Smokehood Adapter	18"	70016														1	1
Burner Mounting Plate #3552 12 1/2" Opening: Powerflame C4		70510	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Burner Mounting Plate #3410 10 1/4" Opening: Carlin 1150FFD Beckett CF3500, CG50 Powerflame C3		70640	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Burner Mounting Plate #3411 9" Opening: Carlin 702CRD/801CRD/1050FFD Powerflame C2/J50A-15 Beckett CF1400/2300/2500, CG15, CG25		70641	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Burner Mounting Plate #3517 7 3/4" Opening: Powerflame CI, J30A		70669	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

# 28HE SERIES SMITH BOILER BURNER UNIT

—STEAM—

## COMPLETE CARTON CONTENTS

28HE X1 CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3" Stack Thermometer	51383	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flue Brush and Handle	60090	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.3 oz. Cartridge of Silicone	61924	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3
Rear Observation Port Assembly	70614	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/2" Rope Wicking 12-1/2" length	70660	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Can Spray Adhesive	70492	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Bolt Hole Tape 86 in.	74301	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Knit Tape 18 in.	74303	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fitter Envelope (Serial Number Label)	70402	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3/8" Rope wicking 7 ft. length	76540	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Draw Rods	70818	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
5/8" Hex Nuts	60877	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136
5/8" Flat Steel Washers	62099	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
Bag Misc. hardware	70240	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bolt Hole Tape 24-1/2"	74304	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

28HE X2 CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Draw Rod 5/8" X 11"	60102	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Cleanout Cover Plate	70360	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bag of Hardware 19HE/28HE	70650	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/2" Rope Wicking 12-1/2'	70660	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

GRAPHITE PORT CONNECTOR CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Graphite Port Connector Set	60375	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

28HE STEAM TRIM CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3-1/2" Round Steam Gauge	60269	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1-1/4" Close Nipple	60754	1	1													
3/4" x 1/2" Hex Bushing	61160	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1" x 1/4" Hex Bushing	61161	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3" x 1-1/4" Hex Bushing	61184	1	1													
1-1/4" Pipe Coupling	61376	1	1													
1/4" 180° Syphon	61684	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5/8" x 11-1/2" Gauge Glass	61931	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15# Valve #13-213	1-1/4"	61983	1	1												
Instruction Tag	69140	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Control Tree Piping	74130	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1-1/2" Close Nipple	60755			1	1											
3" x 1-1/2" Hex Bushing	61185			1	1											
1-1/2" Pipe Coupling	61294			1	1											
15# Safety Valve #14-214	1-1/2"	61984			1	1										
2" Close Nipple	60756					1	1	1	1	1						
3" x 2" Hex Bushing	61186					1	1	1	1	1						
2" Pipe Coupling	61295					1	1	1	1	1						
15# Safety Valve #14-205	2"	61985				1	1	1	1	1						
2-1/2" Close Nipple	60894										1	1	1	1	1	
3" x 2-1/2" Hex Bushing	61187										1	1	1	1	1	
2-1/2" Pipe Coupling	61296										1	1	1	1	1	
15# Safety Valve #14-206	2-1/2"	61986									1	1	1	1	1	
3" x 6" Pipe Nipple	60823															1
3" Pipe Coupling	61397															1
15# Safety Valve #14-207	3"	61987														1
28HE Installation and Operating Instructions	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

# 28HE SERIES SMITH BOILER BURNER UNIT

—STEAM—

## COMPLETE CARTON CONTENTS

28HE JACKET CARTONS	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H1 Jacket Carton	72-0053	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H2 Jacket Carton	55545	1														
	55546		1													
	55547			1												
	55548				1											
	55549					1										
	55550						1									
	55551							1								
	55552								1							
	55553									1						
	55554										1					
	55555											1				
	55556												1			
	55557													1		
	55558														1	
	55559															1
H3-C Jacket Carton	55560	1														
	55561		1													
	55562			1												
	55563				1											
	55564					1										
	55565						1									
	55566							1								
	55567								1							
	55568									1						
	55569										1					
	55570											1				
	55571												1			
	55572													1		
	55573														1	
	55574															1

# 28HE SERIES SMITH BOILER BURNER UNIT

—STEAM—

## COMPLETE CARTON CONTENTS

28HE JACKET CARTONS continued	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H4-1 Jacket Carton	55575	1														
	55576		1													
	55577			1												
	55578				1											
	55579					1										
	55580						1									
	55581							1								
	55582								1							
	55583									1						
	55584										1					
	55585											1				
	55586												1			
	55587													1		
	55588														1	
55589															1	
H4-2 Jacket Carton	55590										1					
	55591											1				
	55592												1			
	55593													1		
	55594														1	
	55595															1

28HE STEAM CONTROL CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PA404A - 1009	50493	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L4079B - 1033	50495	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

28HE CLEANOUT COVER PLATE CARTON	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Cleanout Cover Plate	70360	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3/8" x 2" Cleanout Cover Bolt	57-4001	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Hex Nut	57-1001	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Washer	62097	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
3/8" Rope (3.75' per Plate)	60026	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1/8 x 2 Tape	61938	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25

STEAM FLANGE CARTON REAR/FRONT	PART NUMBER	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Flange Gasket	06-1007	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Rear Blank Plate	53-1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Front Plate	53-1401	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hardware Kit	70-1227	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2









**Smith**  
CAST IRON BOILERS

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