SF Series
Solid Fuel Boiler

rima®
warmth of life

17 - 41 kW

- Four output range 3 to 6 Sections
- High efficiency
- Cast Iron Sections
- Suitable for safety heat exchanger use
- Compatible with fan controlled operation
- Easy to use & maintenance

Önmetal

FULL TEST

ISO 9001:2008

SPECIAL EN GJL 200 CAST IRON SECTIONS EU - EN 1561 DIN 1691

3 YEARS

Technical Data

Series Name		SF-03	SF-04	SF-05	SF-06
Number Of Elements	Pcs.	3	4	5	6
Nominal Heat Output (Black Coal - Walnut)	kW	15 - 17	24 - 27	31 - 34	38 - 41
Nominal Heat Output (Hardwood - Split Logs)	kW	12 - 14	18 - 20	25 - 27	30 - 33
Minimum Heat Output	kW	9,2	12,1	14,6	18,5
Heating Water Maximum Temp.	^{0}C	90			
Heating Return Water Minimum Temp.	^{0}C	50			
Burning Time For Nominal Output(B.Coal)	hr	>4			
Burning Time For Nominal Output(H .Wood)	hr	>2			
Range Of Temperature Control	^{0}C	30-90			
Maximum Pressure of System	bar	4			
Minimum Pressure of System	bar	0,4			
Boiler Water Content	L	16,33	20,30	24,27	28,24
	m^3	0,01633	0,0203	0,02427	0,02824
Exit Flue Connection Diameter	mm	180			
Combustion Chamber Dimensions (W x H)	mm	300 x 380			
Combustion Chamber Dimensions (L)	mm	245	345	445	545
Water Inlet- Outlet Connection	(")	G 2 "			
Inlet-Outlet Safety Cooling Loop Connection	(")	G 3/4 "			
Minimum Chimney Depression	mbar	0,12	0,14	0,17	0,20
Safety Valve Temperature Limit	^{0}C	95			
Boiler Category (according to EN 303-5)	Class	1			
Boiler Dimensions (W x H)	mm	450 x 947			
(L)	mm	609	709	809	909
Exit Flue GasTemperature	^{0}C	190 - 260			
Maximum Noise Level acc. to Valid Norms	dB	45-60 (A)			
Boiler Net Weight	kg	177	207	237	267

General Features

. Four output range 17 to 41 kW

. Cast iron parts produced with flexible casting technique

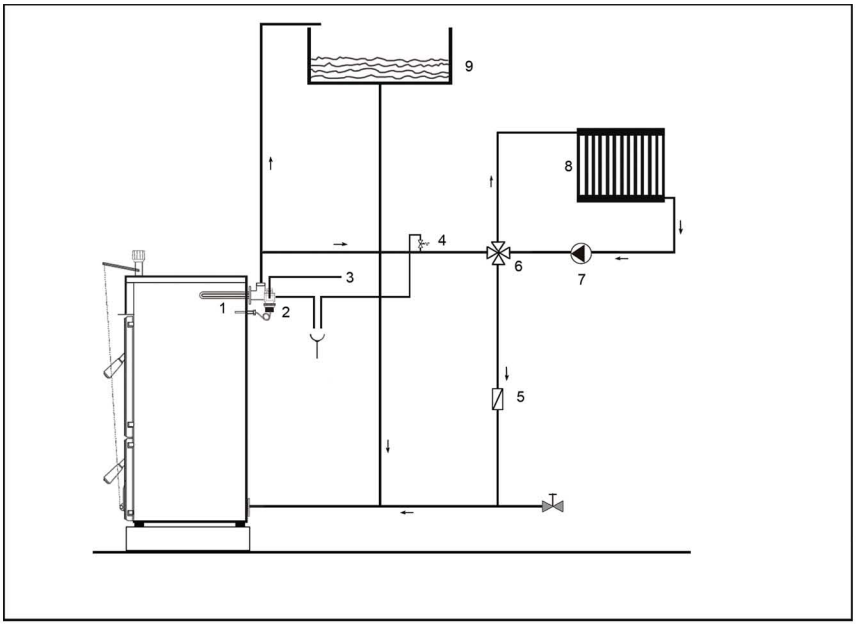
. 3 years producer warranty for cast iron parts

. Big cast iron combustion chamber provides balanced combustion with low gas exhaust emission

. 80 mm glasswool insulation on the cast iron boiler body

. Easy to install, use and maintenance

. Reliable control and safety components



Temperature Safety Valve :

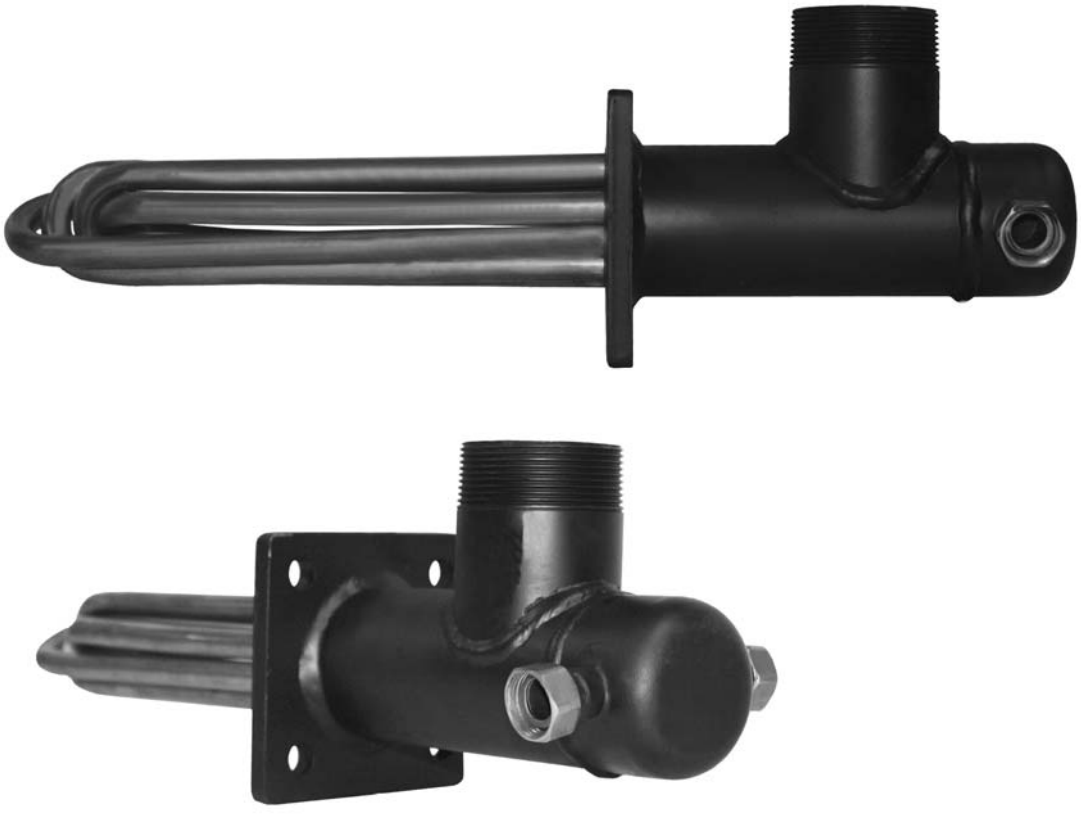
1. Safety Heat Exchanger (SHT)
2. Safety Valve (TS 131)
3. Water Supply
4. System Safety Valve (3 bar - 1/2")
5. Check Valve
6. Four Way Mixing Valve
7. System Pump
8. Heating System
9. Open Expansion Tank

Önmetal Döküm San. ve Tic. Ltd. Şti.
İkitelli Organize Sanayi Bölgesi
Atatürk Bulvarı 17. Cad. No: 5
PK: 34306 Başakşehir
İstanbul / TÜRKİYE
T: +90 212 485 4874 | pbx
F: +90 212 485 4873
www.rima.com.tr
www.onmetal.com.tr

rima®
heating systems

SHT Series

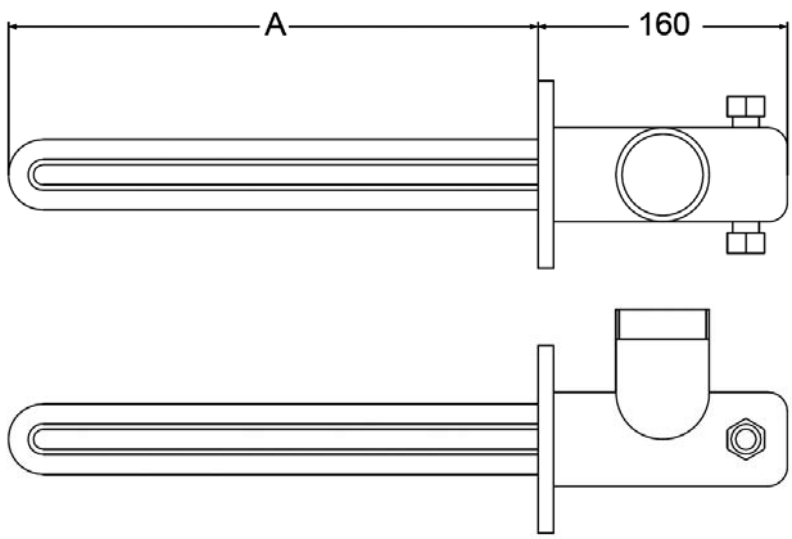
Safety Heat Exchanger



REV.00 / 2009-SHT

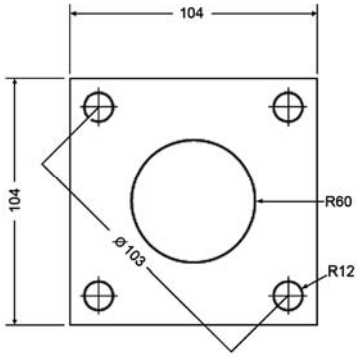
Method of Operation

The safety heat exchanger is used to save the boiler in case of overheating. In case of electricity cut, pump defect, etc. the boiler water temperature can be overheated. If the boiler water temperature exceeds 95 °C, thermostat of the of the safety valve lets cold sanitary water flows through the serpantine of the safety heat exchanger. Serpantine with cold water circulating in side cools down the boiler water temperature. When the boiler temperature decreases below the safe degree, safety valve shuts the cold sanitary water circulation and the boiler goes back to normal operation.

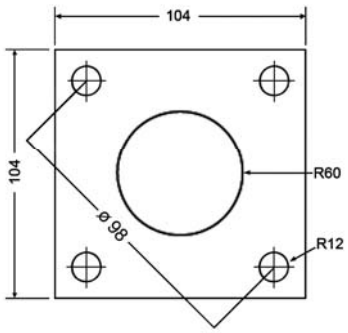


Product Code	A (mm)
SHT - KY.250	250
SHT - KY.350	350
SHT - KY.450	450
SHT - SF.250	250
SHT - SF.350	350
SHT - SF.450	450
SHT - SMAX.250	250
SHT - SMAX.350	350
SHT - SMAX.450	450
SHT - SMAX.550	550
SHT - SMAX.650	650

KY SERIES



SF, SMAX SERIES



Honeywell

TS 131

Temperature Relief Valve

Application

The TS 131 temperature relief valve for heating systems to EN 12828 is a self - acting valve which is activated by the flow temperature of the heat generator. It opens and discharges water from the heat generator or condensing coil at a flow temperature of 95 °C and thereby prevents a s ignificant temperature rise in the heat generator.

Special Features

Construction tested to EN 14597
Immersion pocket with double heat sensors
Test facility
Capillary tube protected against kinking by steel sheath
Immersion pocket with external thread
CE-certified to DGR 97/23/EG

Range of Application

Multi-fuel boilers with integral water heating or condensing coils
in closed solid-fuel fired heating systems to EN 12828.

Technical Data

Heating system capacity	Max. 100 kW
Opening temperature	95 °C
Flow capacity	2100 kg/h water at a minimum flow pressure of 1.0 bar (1 capillary tube)
Connection size	Rp ¾ " (DIN EN 10226)
Operating Pressure	Max. 5 bar

Construction

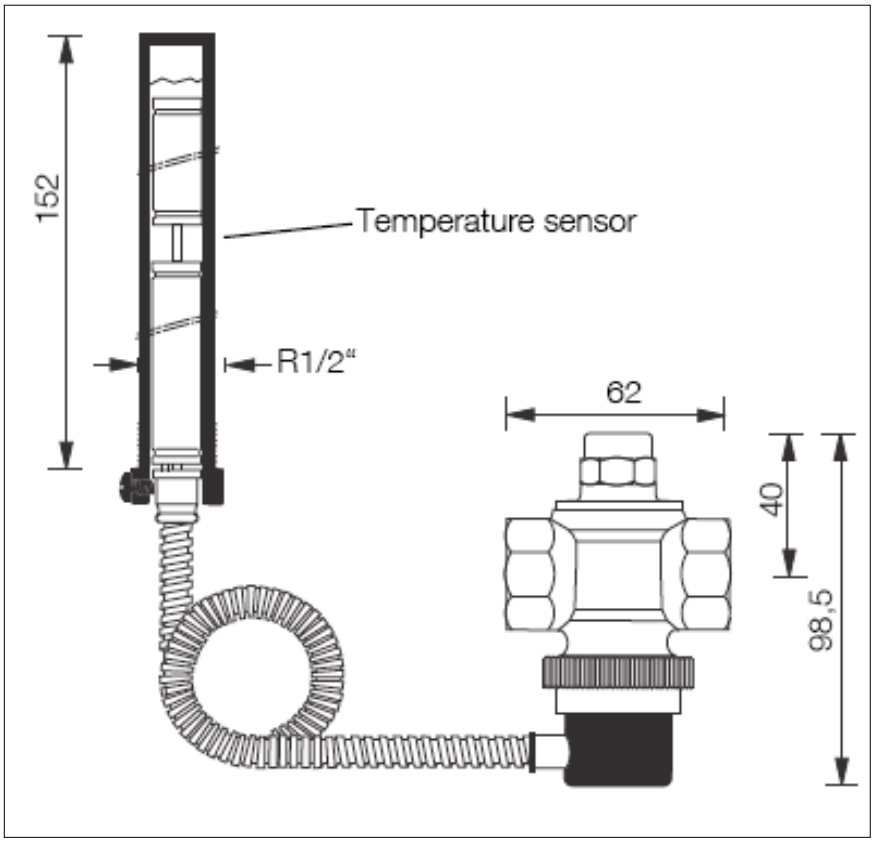
The temperature relief valve comprises:
- Housing with internal thread
- Bonnet
- Valve piston with form seal
- Spring
- Remote double temperature sensor with capillary tube
- Immersion pocket G ½ " (ISO 228)

Materials

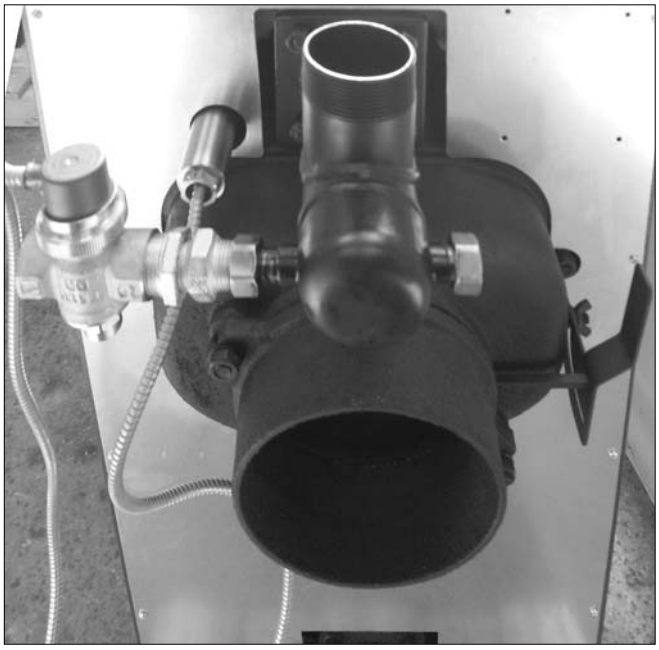
- Brass housing, bonnet and immersion pocket
- Copper temperature sensor
- Copper capillary tube
- Brass valve piston
- Hot-water-resistant elastomer seals

Method of Operation

The temperature relief valve is actuated by the flow temperature of the heat generator. It comprises a spring-loaded valve and a bellows operated temperature sensor. When a boiler flow temperature of 95 °C is reached the force exerted by the bellows system becomes greater than the force of the spring and the valve opens. Heated potable water then flows out and this is replaced by cold water from the supply network. This absorbs excess heat from the heat generator and prevents overheating.



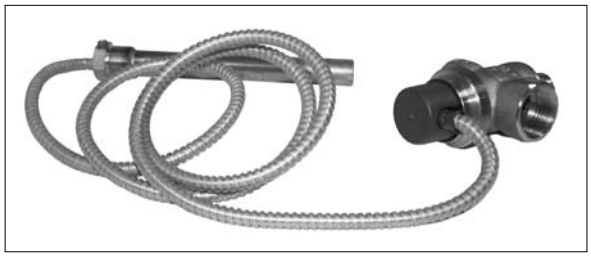
Installation Examples



Package Content

Safety Heat Exchanger

Temperature Relief Valve
Honeywell TS 131



Gasket for flanged

Brass Relief Valve Bulb
(Only for KY and SF series)

I. ½ " - ¾ " hex reducer

II. ½ " nipple

Product Codes

Codes	Boiler Type							
	KY - 03	KY - 04	KY - 05	KY - 06	KY - 07	KY - 08	KY - 09	KY - 10
SHT - KY.250								
SHT - KY.350								
SHT - KY.450								

Codes	Boiler Type							
	SF - 03	SF - 04	SF - 05	SF - 06	SF - 07	SF - 08	SF - 09	SF - 10
SHT - SF.250								
SHT - SF.350								
SHT - SF.450								

Product Code	Boiler Type							
	SMAX-04	SMAX-05	SMAX-06	SMAX-07	SMAX-08	SMAX-09	SMAX-10	SMAX-12
SHT - SMAX.250								
SHT - SMAX.350								
SHT - SMAX.450								
SHT - SMAX.550								
SHT - SMAX.650								

Address:
Ikitelli Organize Sanayi Bolgesi, Ataturk Bulvari, 17. Cad. No: 5
ISTANBUL - TURKEY
Phone:+90 212 485 48 74 - Fax : +90 212 485 48 73

Web: www.rima.com.tr e-mail : info@rima.com.tr
www.onmetal.com.tr

SF SERIES - SOLID FUEL BOILER

SPARE PARTS LIST

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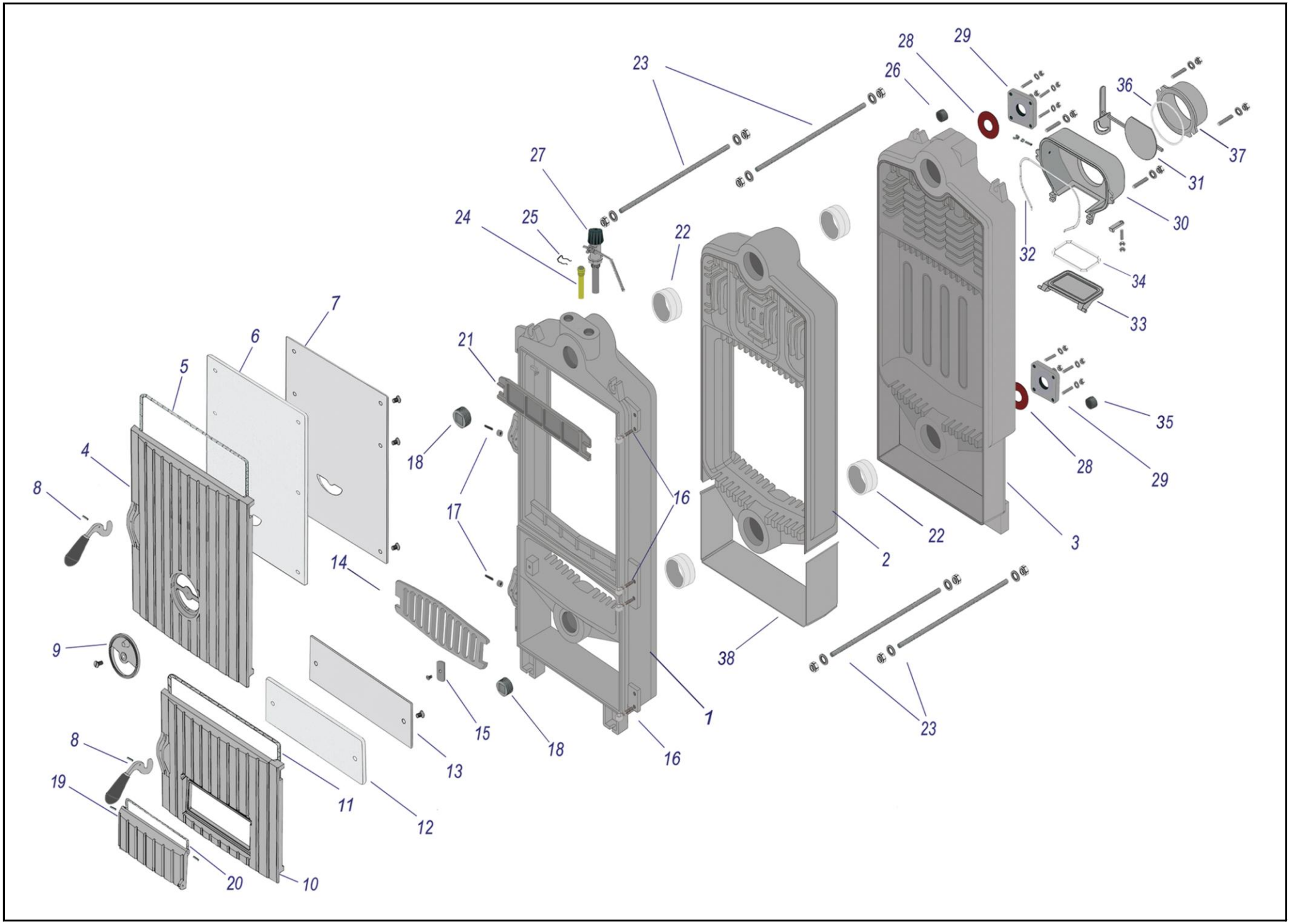
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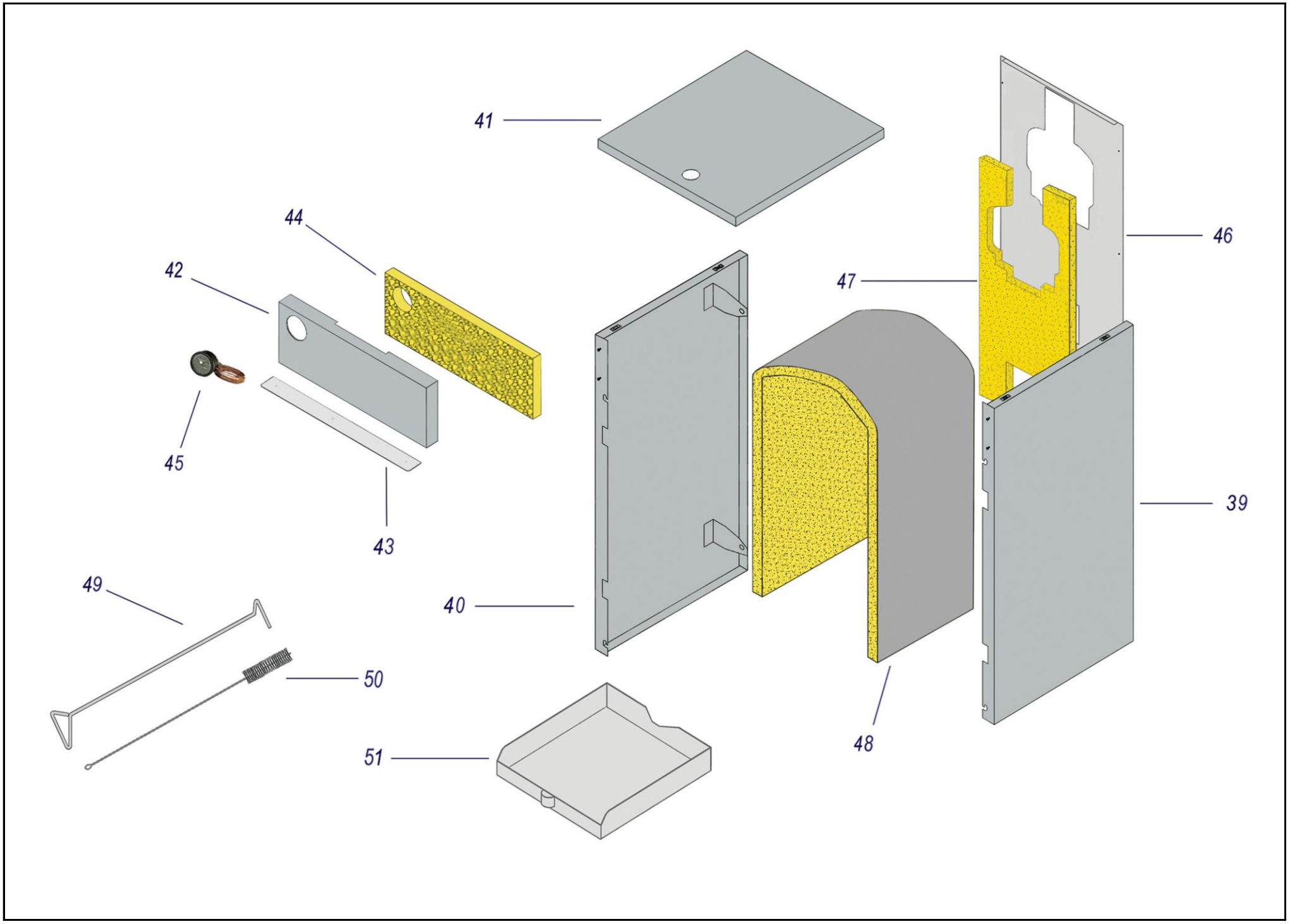
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SPARE PARTS

ITEM	DESCRIPTION	DRAWING NO	PART NUMBER			
			SF - 03	SF - 04	SF - 05	SF - 06
1	FRONT SECTION	SF 20080100	SF - MD.060	SF - MD.060	SF - MD.060	SF - MD.060
2	MIDDLE SECTION	SF 20080101	SF - MD.050	SF - MD.050	SF - MD.050	SF - MD.050
3	BACK SECTION	SF 20080102	SF - MD.070	SF - MD.070	SF - MD.070	SF - MD.070
4	STOKING DOOR	SF 20080103	SF - PD.010	SF - PD.010	SF - PD.010	SF - PD.010
5	STOKING DOOR ISOLATION ROPE	SF 20080104	SF - CY. 011	SF - CY.011	SF - CY.011	SF - CY.011
6	STOKING DOOR ISOLATION	SF 20080105	SF - SE.012	SF - SE.012	SF - SE.012	SF - SE.012
7	STOKING DOOR ISOLATION COVER	SF 20080106	SF - ST.013	SF - ST. 013	SF - ST.013	SF - ST.013
8	DOOR HANDLE	SF 20080107	SF - BD.014	SF - BD.014	SF - BD.014	SF - BD.014
9	AIR ROSETTE	SF 20080108	SF - PD.015	SF - PD.015	SF - PD.015	SF - PD.015
10	ASHTRAY DOOR	SF 20080109	SF - PD.020	SF - PD.020	SF - PD.020	SF - PD.020
11	ASHTRAY DOOR ISOLATION ROPE	SF 20080110	SF - CY.021	SF - CY.021	SF - CY.021	SF - CY.021
12	ASHTRAY DOOR ISOLATION	SF 20080111	SF - SE.022	SF - SE.022	SF - SE.022	SF - SE.022
13	ASHTRAY DOOR ISOLATION COVER	SF 20080112	SF - ST.023	SF - ST.023	SF - ST.023	SF - ST.023
14	GRID	SF 20080113	SF - PD.030	SF - PD.030	SF - PD.030	SF - PD.030
15	GRID LOCK HINGE	SF 20080114	SF - PD.031	SF - PD.031	SF - PD.031	SF - PD.031
16	LOCK HINGE (24)	SF 20080115	SF - ST. 090	SF - ST.090	SF - ST.090	SF - ST.090
17	DOOR LOCK CYLINDER	SF 20080116	SF - ST. 041	SF - ST.041	SF - ST.041	SF - ST.041
18	STOPPER 1 ¼ "	SF 20080117	SF - SD.080	SF - SD.080	SF - SD.080	SF - SD.080
19	REGULATION HATCH	SF 20080118	SF - PD.024	SF - PD.024	SF - PD.024	SF - PD.024
20	REGULATION HATCH ISOLATION ROPE	SF 20080119	SF - CY.025	SF - CY.025	SF - CY.025	SF - CY.025
21	FRONT SECTION CLEANING PLATE	SF 20080120	SF - ST.200	SF - ST.200	SF - ST.200	SF - ST.200
22	NIPPLE	SF 20080121	SF - ST.110	SF - ST.110	SF - ST.110	SF - ST.110
23	CONNECTION ROD	SF 20080122	SF - ST. 123	SF - ST.124	SF - ST.125	SF - ST.126
24	THERMOSTAT BULB	SF 20080123	SF - PM.140	SF - PM.140	SF - PM.140	SF - PM.140
25	THERMOSTAT BULB SEGMENT	SF 20080124	SF - ST.141	SF - ST.141	SF - ST.141	SF - ST.141
26	STOPPER 3/4 "	SF 20080125	SF - PM.131	SF - PM.131	SF - PM.131	SF - PM.131
27	THERMOSTATIC REGULATOR	SF 20080126	SF - IM. 150	SF - IM. 150	SF - IM. 150	SF - IM. 150
28	FLANGE GASKET	SF 20080127	SF - KC.300	SF - KC.300	SF - KC.300	SF - KC.300
29	WATER INLET - OUTLET FLANGE	SF 20080128	SF - PD.215	SF - PD.215	SF - PD.215	SF - PD.215
30	CHIMNEY ADAPTER	SF 20080129	SF - PD.450	SF - PD.450	SF - PD.450	SF - PD.450
31	CHIMNEY FLAP	SF 20080130	SF - PD.405	SF - PD.405	SF - PD.405	SF - PD.405
32	CHIMNEY ADAPTER ISOLATION ROPE	SF 20080131	SF - CY.451	SF - CY.451	SF - CY.451	SF - CY.451
33	CHIMNEY CLEANING DOOR	SF 20080132	SF - PD.402	SF - PD.402	SF - PD.402	SF - PD.402
34	CHIMNEY CLEANING DOOR ISOLATION ROPE	SF 20080133	SF - CY.403	SF - CY.403	SF - CY.403	SF - CY.403
35	STOPPER ½ "	SF 20080134	SF - SD.085	SF - SD.085	SF - SD.085	SF - SD.085
36	CHIMNEY ISOLATION ROPE	SF 20080148	SF - CY.503	SF - CY.503	SF - CY.503	SF - CY.503
37	CHIMNEY	SF 20080149	SF - PD.500	SF - PD.500	SF - PD.500	SF - PD.500
38	MIDDLE SECTION COVER	SF 20080150	SF - GS.503	SF - GS.504	SF - GS.505	SF - GS.506
39	RIGHT SIDE COVER PANEL	SF 20080135	SF - ST.603	SF - ST.604	SF - ST.605	SF - ST.606
40	LEFT SIDE COVER PANEL	SF 20080136	SF - ST.653	SF - ST.654	SF - ST.655	SF - ST.656
41	TOP COVER PANEL	SF 20080137	SF - ST.703	SF - ST.704	SF - ST.705	SF - ST.706
42	FRONT COVER PANEL	SF 20080138	SF - ST.753	SF - ST.753	SF - ST.753	SF - ST.753
43	PROTECTION STEEL SHEET	SF 20080139	SF - ST.773	SF - ST.773	SF - ST.773	SF - ST.773
44	FRONT COVER PANEL ISOLATION	SF 20080140	SF - CY.763	SF - CY.763	SF - CY.763	SF - CY.763
45	THERMOMETER	SF 20080141	SF - IM.160	SF - IM.160	SF - IM.160	SF - IM.160
46	REAR COVER PANEL	SF 20080142	SF - ST.900	SF - ST.900	SF - ST.900	SF - ST.900
47	REAR COVER PANEL ISOLATION	SF 20080143	SF - CY.901	SF - CY.901	SF - CY.901	SF - CY.901
48	CASTING BODY INSULATION	SF 20080144	SF - CY.553	SF - CY.554	SF - CY.555	SF - CY.556
49	MIXING ROD	SF 20080145	SF - ST.903	SF - ST.904	SF - ST.905	SF - ST.906
50	CLEANING BRUSH	SF 20080146	SF - ST.803	SF - ST.804	SF - ST.805	SF - ST.806
51	ASHTRAY	SF 20080147	SF - ST.503	SF - ST.504	SF - ST.505	SF - ST.506