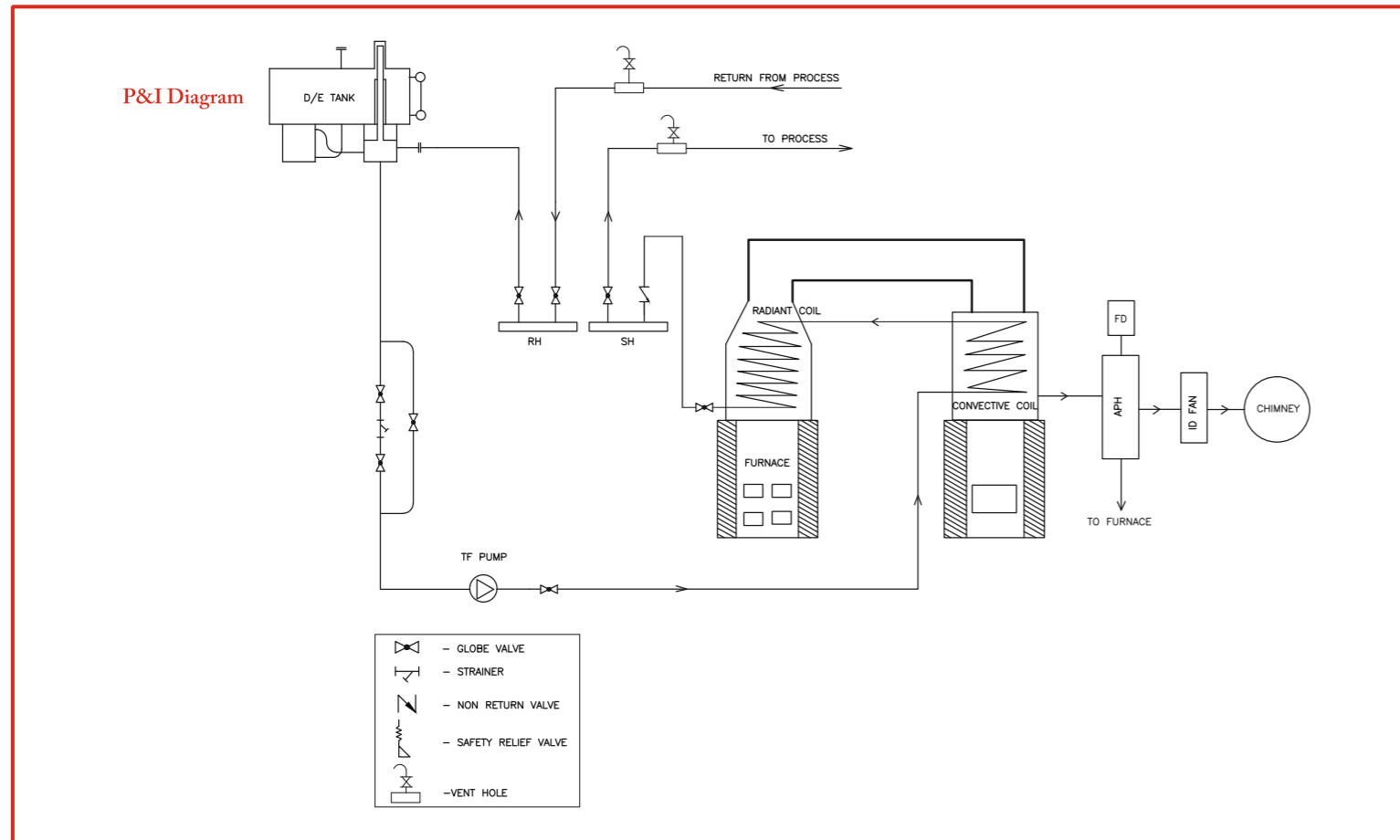


TECHNICAL SPECIFICATIONS

Description	Unit	MPW-02	MPW-04	MPW-06	MPW-10	MPW-15	MPW-20	MPW-25	MPW-30
Rated Output	Kcal / hr	2,00,000	4,00,000	6,00,000	10,00,000	15,00,000	20,00,000	25,00,000	30,00,000
Max Fluid Outlet Temp	Deg. C	← 300 →							
Fuel		← Husk / Wood / Coal →							
Thermal Efficiency									
On Coal	%	← 80% →							
On Wood / Husk	%	← 76% →							
Fuel Consumption									
Coal	Kgs / hr	50	100	150	250	375	500	625	750
Briquette / Husk / Wood	Kgs / hr	66	131	197	328	493	658	822	987
Electrical Supply		AC 3 phase 415 Volts 50H ² 4 wire system							
Thermic Fluid Pump	HP	10	10	12.5	15	25	40	50	60
Induced Draught Fan	HP	3	5	7.5	12.5	15	20	30	30
Forced Draught Fan	HP	1.0	2	3	5	7.5	10	12.5	15
Total Connected Load	HP	14	17	23	32.5	48	70	92.5	105

■ GCV on Coal - 5000 kcal/kgs , Briquette/husk/Wood - 4000 kcal/kgs

Note: We have already manufactured & supplied up to 60 Lakh Kcal/hr



**FULL FLEDGED SALES AND SERVICE NETWORK
IN INDIA & ABROAD**

Erode - Madurai - Tirupur - Trichy - Bangalore - Cochin - Hyderabad - Mumbai
New Delhi - Pune - Bhubaneswar - Burdwan - Kolkata - Raipur - Guwahati - Vizag
Srilanka - Myanmar - Malaysia - Bangladesh - Thailand - UAE



MAXPAC

SOLID FUEL FIRED VERTICAL THERMIC FLUID HEATER



SKID MOUNTED THERMIC FLUID HEATER

MAXTHERM (INDIA) PRIVATE LIMITED

MAXTHERM HOUSE

New No: 28/1 Old No: 38/1 Ganpathraj Nagar Main Road, Virugambakkam, Chennai - 600 092.
Tele: 044 - 2377 5911 / Mobile: +91 94983 70061 Email : sales@maxthermindia.com / info@maxthermindia.com
Web : www.maxthermindia.com



PIONEERS IN PROCESS HEAT

MAXPAC SOLID FUEL THERMIC FLUID HEATER



Salient Features

- ▶ Proven Design
- ▶ Fully Automatic
- ▶ Maximum Outlet Temp. of 300° C.
- ▶ Consistent Efficiency of 76%
- ▶ High Unit Dependability
- ▶ Suitable for Multi Fuel (Husk / Firewood / Coal / Imported Coal)
- ▶ Combustion Type
(Fixed Grate / Multi Fuel Bar / Dumping Grate / Bubbling Bed / FBC / Travelling Grate)
- ▶ Prompt Service and Spares Support

Built In Safeties and Controls

- ▶ **Fluid Level Low**
Magnetic Level Switch Ensures Minimum Thermic Fluid level in the De-aerator cum Expansion Tank.
- ▶ **Fluid Level Low**
Different Pressure Switch Ensures Sufficient Flow of Thermic Fluid across the coil and thus prevent coil chocking, over heating and coil failure.
- ▶ **Outlet Temperature High**
Temperature Indicator cum Controller prevents over heating of Thermic Fluid.
- ▶ **Return Temperature High**
Temperature Indicator cum Controller Ensure Constant Temperature for the process and control ID & FD Fan Operation according to the set temperature.
- ▶ **Spring Loaded Safety Valve**



60 LAKH KCAL THERMIC FLUID HEATER

HIGH EFFICIENCY VERTICAL THERMIC FLUID HEATER



**Quality Assured Manufacturing
Designed as per DIN 4754 Ensures**

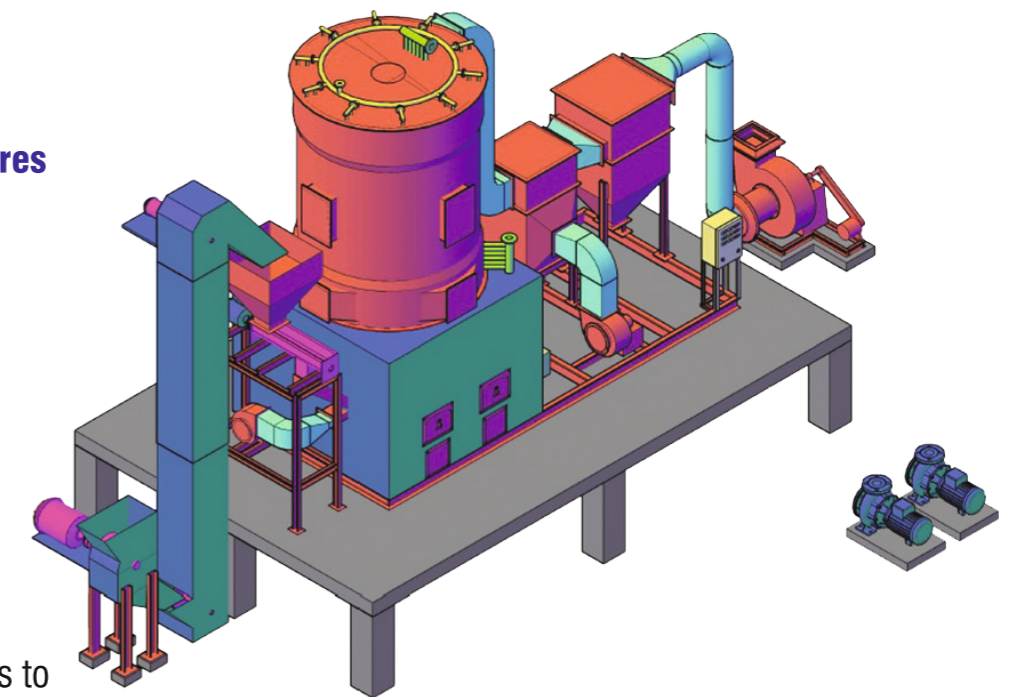
- ▶ Optimum Heat Transfer
- ▶ Larger Furnace Volume
- ▶ Larger Distance Between Flame and Coil
- ▶ Low Film Temperature
- ▶ Low Tube Wall Temperature

**Machine Wound Coil
Manufacturing Facility Ensures**

- ▶ No Hot Spot in the Coil
- ▶ Longer Heater Coil Life
- ▶ Longer Thermic Fluid Life

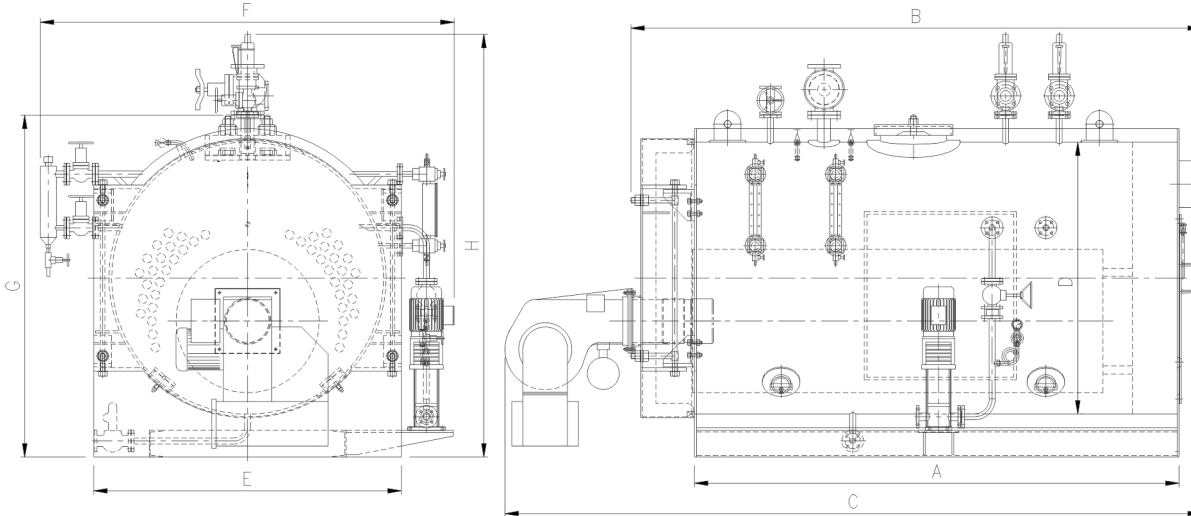
High Quality Materials Input

- ▶ Boiler Quality Tubes Conforms to BS 3059 Part I from TATA & TI Group
- ▶ All Components are of Reputed Make.



AUTO FUEL FEEDING THERMIC FLUID HEATER

GENERAL ARRANGEMENTS



MSR / MSF BOILER DATA

SPECIFICATION		MSR						MSF		
Model	Unit	MSR 05	MSR 10	MSR 15	MSR 20	MSR 25	MSR 30	MSF 40	MSF 50	MSF 60
Nominal Steam Output	kg/hr.	500	1000	1500	2000	2500	3000	4000	5000	6000
Operating Pressure	Kgf/cm ²	10.54	10.54	10	10	10	10	10	10	10
Operating Temperature (Steam)	°C	185	185	185	185	185	185	185	185	185
Heating Surface Area	Sq.M	15	25	35	48	58	75	98	122	144
Fuel Consumption - Light Diesel Oil	Kg/hr.	30.1	60.9	91.4	121.8	152.3	182.7	216.6	260	346.6
- Heavy Diesel Oil		31	62.2	93.3	124.4	155.5	186.6	221.3	265.5	354.2
- Natural Gas		38.3	76.6	114.9	153.2	191.5	229.8	272.6	327.1	436.1
Water content (Full)	Lits	1.82	2.26	3.40	4.20	4.50	5.72	6000	7200	8300
Connection										
Steam Outlet		25	65	65	80	100	100	100	100	150
Safety Valve Exhaust		50	50	50	50	50	50	80	80	100
Water Inlet		25	25	25	40	40	40	40	40	40
Drain Outlet	mm	25	25	25	40	40	40	40	40	40
Diesel Oil inlet		25	25	25	25	25	25	65	65	80
Natural Gas Inlet		25	25	25	25	25	25	65	80	100
Flue Gas Outlet		250	250	300	350	400	450	500	500	550
Dimension										
Shell Length - A		1550	2480	3200	3676	4045	4045	4500	5100	6750
Boiler Overall (Excl. Burner) - B		2250	3190	3700	4156	4545	4545	4755	6541	6250
Boiler Overall (Incl. Burner) - C		3000	3900	4470	4860	5260	5650	6190	7385	7279
Shell Diameter - D	mm	1270	1520	1520	1620	1670	1820	1983	1983	2395
Width Overall (Excl. Fittings) - E		1410	1720	1720	1800	1900	2020	2340	2352	2403
Width Overall (Incl. Fittings) - F		1910	2250	2350	2315	2425	2540	2940	3390	3910
Height overall (Excl. Fittings) - G		1635	1910	1910	2015	2080	2270	2470	2470	2711
Height overall (Incl. Fittings) - H		2200	2365	2365	2470	2550	2760	3370	3370	3611
Power Reqd.										
Feed Pump Motor		1.1	1.5	1.5	2.2	2.2	3	3	4	4
Burner Fan Motor - Diesel Oil Fired		2	2.2	3	4	5.5	5.5	12.1	12.1	12.1
Burner Fan Motor - Natural Gas Fired	KW	1	1.1	2.2	3	4	5.5	7.5	11.25	11.25
Burner Fan Motor - Combination		1	2.2	1.5	2.2	2.2	3	4	5.2	6.1
Weight										
Dry Weight of Boiler		2000	3200	4200	5000	5600	6400	9500	11000	12000
Wet Weight of Boiler (Hydro)	Kgs	3280	6200	8750	9950	10950	13150	23000	26500	32000
Operating weight of Boiler		2950	5600	7950	9100	9850	12000	19500	21000	24000

1. Conversion: 1"=25.4mm, 1b = 0.454 kg, 1 US Gal = 3.787xLits., 1Kg = 197 Kgf/cm², 1oF=[(oC-32)/1.8] 1Kbtu/hr=2.137Kg/hr.
2. Fuel Consumption based on light oil 20, 160 Btu/lb (1120 Kcal/kg), Heavy Oil 19,729 btu/lb [10960 Kcal/kg], Natural Gas 1000 Btu/ft³ [8900 Kcal/m³]
3. Specified Data's are for your reference only, The Company reserve the right to change the Data's/Specifica-cation without prior notice.
4. MSR: MAXSTEAM Reverse Flue Boiler.
5. MSF: MAXSTEAM three pass wet back Boiler.

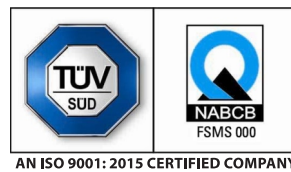
MAXSTEAM

FULLY AUTOMATIC HORIZONTAL OIL / GAS FUEL IBR STEAM BOILER



FULL FLEDGED SALES AND SERVICE NETWORK
IN INDIA & ABROAD

Erode - Madurai - Tirupur - Bangalore - Cochin - Hyderabad - Mumbai
New Delhi - Kolakatta - Pune - Bhubaneswar - Guwahati - Srilanka - Myanmar - Malaysia



AN ISO 9001: 2015 CERTIFIED COMPANY

Capacity Range

0.5 Ton / hr to 25 Tons / hr

Standard Operating Pressure

10.54 / 14.5 / 17.5 / 21 / 28 / 32 kgs / sq.cm

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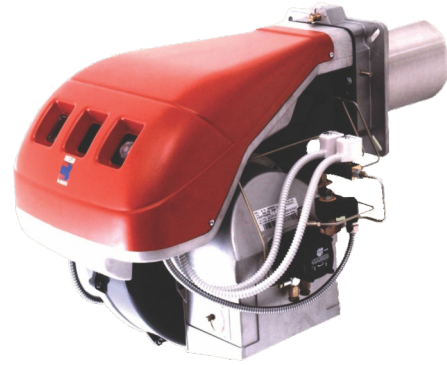
Email : sales@maxthermindia.com web : www.maxthermindia.com



PIONEERS IN ENERGY AND ENVIRONMENT

DESIGN FEATURES

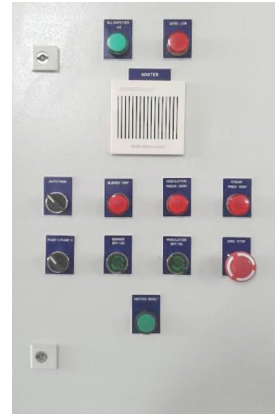
- ▶ Designed as per IBR / ASME
- ▶ Three pass full wet back design
- ▶ Capacity - 0.5 Ton/hr to 25 Tons/hr
- ▶ Maximum Working Pressure - 10.54 / 14.5 / 17.5 / 21.0 / 28 / 32 kgs/sq.com
- ▶ Alternative Fuel Options - Light Oil, Heavy Oil, Natural Gas and LPG.
- ▶ Generous Heating Surface
- ▶ **COMPACT** Design
- ▶ **THIRD PARTY INSPECTION** Certificate available.
- ▶ **CHOICE** of make of Burners available RIELLO / ECOFLAM / WEISHAAPT



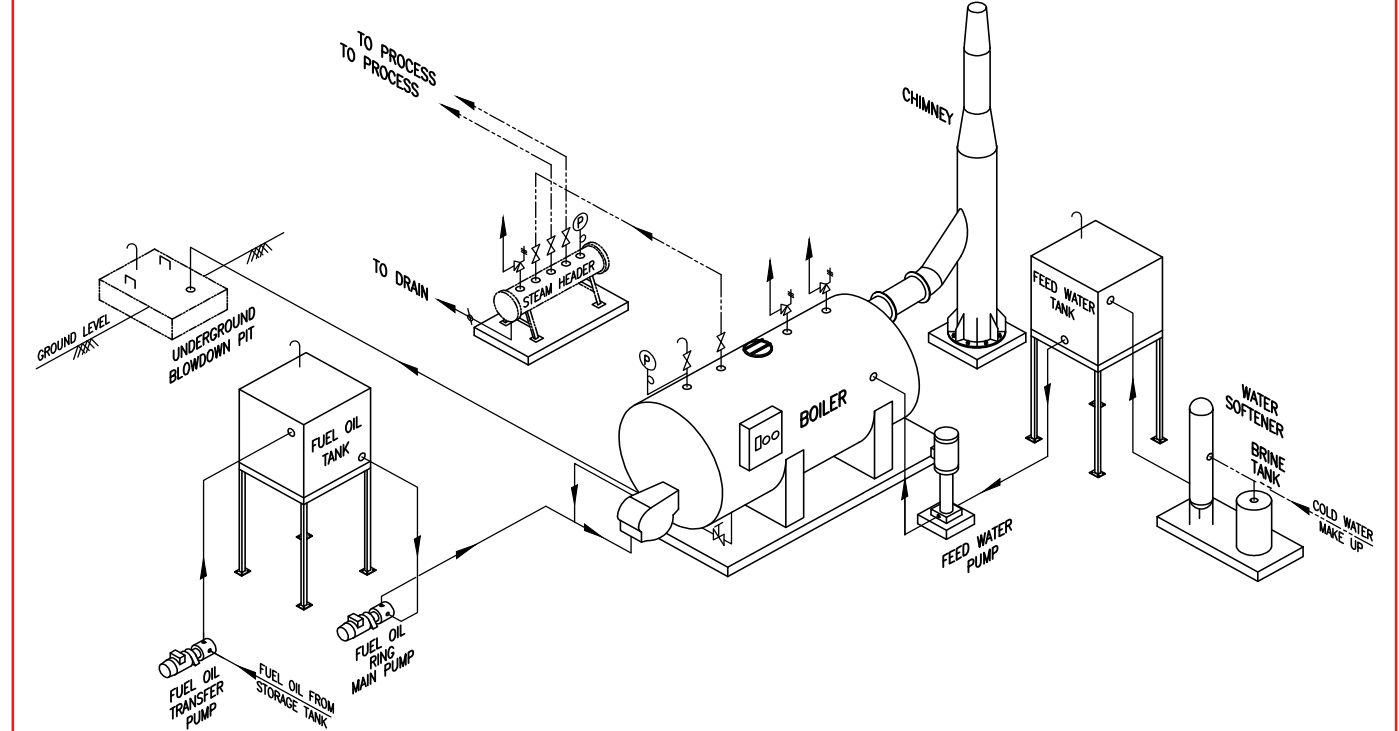
BURNER



CONTROL PANEL



TYPICAL BOILER HOUSE ARRANGEMENT



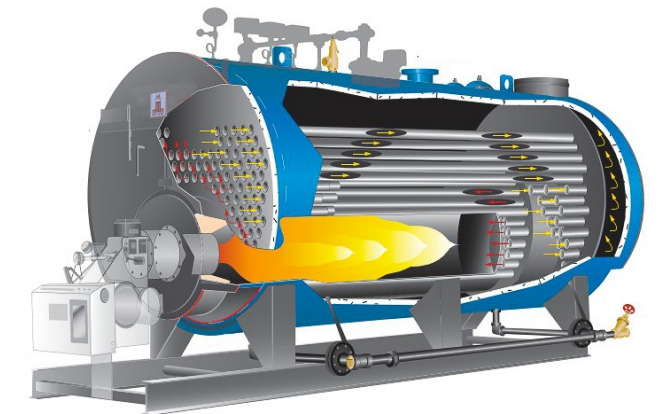
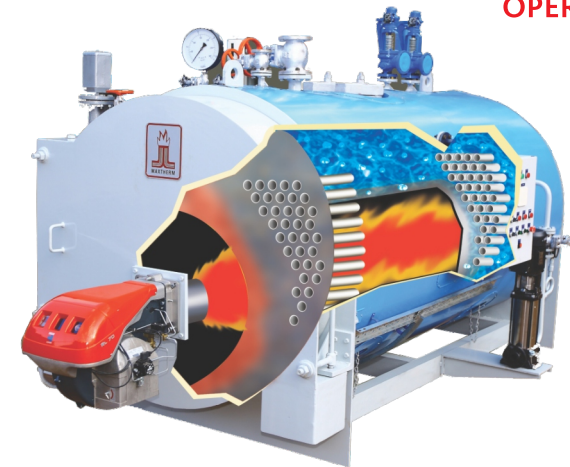
MSR STEAM BOILER



MSF STEAM BOILER



OPERATING PRINCIPLE



MAXSTEAM MSR REVERSE FLAME HORIZONTAL STEAM BOILER

MAXSTEAM MSR Boiler is a reverse flame horizontal boiler, in which fuel is injected from the burner into the combustion chamber, hence producing the steam as output. Heat transfer is done by radiation through long and narrow flame to the walls of combustion chamber. After hitting the furnace end plate, flue gas with high temperature recoils or reverse back. Convection and conduction process takes place to transfer the heat from flue gas to the boiler water. Then the flue gas flows into the fire tubes through front chamber, transferring residual heat to boiler water. Finally the low temperature flue gas vents out via rear chamber.

MAXSTEAM MSF THREE PASS / WET-BACK HORIZONTAL STEAM BOILER.

MAXSTEAM MSF is a three pass, wet back boiler with bowling hoop furnace. Flame and high temperature flue gas passes from front to end of the furnace through first pass. The high temperature flue gas flows from back to front chamber, through the second pass tubes. Finally, the flue gas passes through the third pass tubes to the back of the boiler and vents out via rear chamber and ducts.

25 TONS BI DRUM STEAM BOILER

