



EZHIL ENERGIES

ENERGISING THE FUTURE

Manufacturers of Boilers



- ❖ **Designs as per IBR (Indian Boiler Regulations)**
- ❖ **Fully automatic Boiler**
- ❖ **Boiler Capacity ranging from 0.25 tons to 10 tons / Hr**
- ❖ **Centre furnace Design, Enabling uniform heat transfer around the Boiler**
- ❖ **Cast iron doors for wood fired boilers**
- ❖ **Square pitch tubes, enabling slag to reach the bottom of the boiler**
- ❖ **Capable of firing wood, Rice Husk, Briquette, Ground nut shell, Coffee husk, coal, oil / Gas fired internal package fired as well as external water wall cum shell combo boilers.**
- ❖ **Highly efficient and eco friendly boilers.**

No.65,66&67, Developed Plot Estate, Thuvakudi, Trichy -620015.
Tamil Nadu. **Ph : 0431-2500974 Mob : 98424-53309 | 9942153309**
E-Mail : ezhilenergy@gmail.com, ezhilindustries@gmail.com



EZHIL ENERGIES

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Agro Waste Fired Boilers



- ❖ Designs as per IBR (Indian Boiler Regulations)
- ❖ Unique Design to fire agro waste fuels like rice husk, coffee husk, ground nut shell
- ❖ Fully automatic Boiler
- ❖ Boiler Capacity ranging from 0.25 tons to 10 tons / Hr
- ❖ Centre furnace Design, Enabling uniform heat transfer around the Boiler
- ❖ SS Air Nozzles for firing in Agro Waste fired boilers
- ❖ Square pitch tubes, enabling slag to reach the bottom of the boiler
- ❖ Highly efficient and eco friendly boilers.

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AGRO WASTE BOILER (ASH ROOM MODEL)



* 3 PASS FULLY WET BACK DESIGN

* CAPACITY - 0.50 TON/HR TO 10 TON/HR

* UNIQUE DESIGN TO FIRE AGRO WASTE FUELS LIKE
RICE HUSK, COFFEE HUSK, GROUND NUT SHELL

* QUICK AND IMMEDIATE STEAM

* HIGH EFFICIENCY

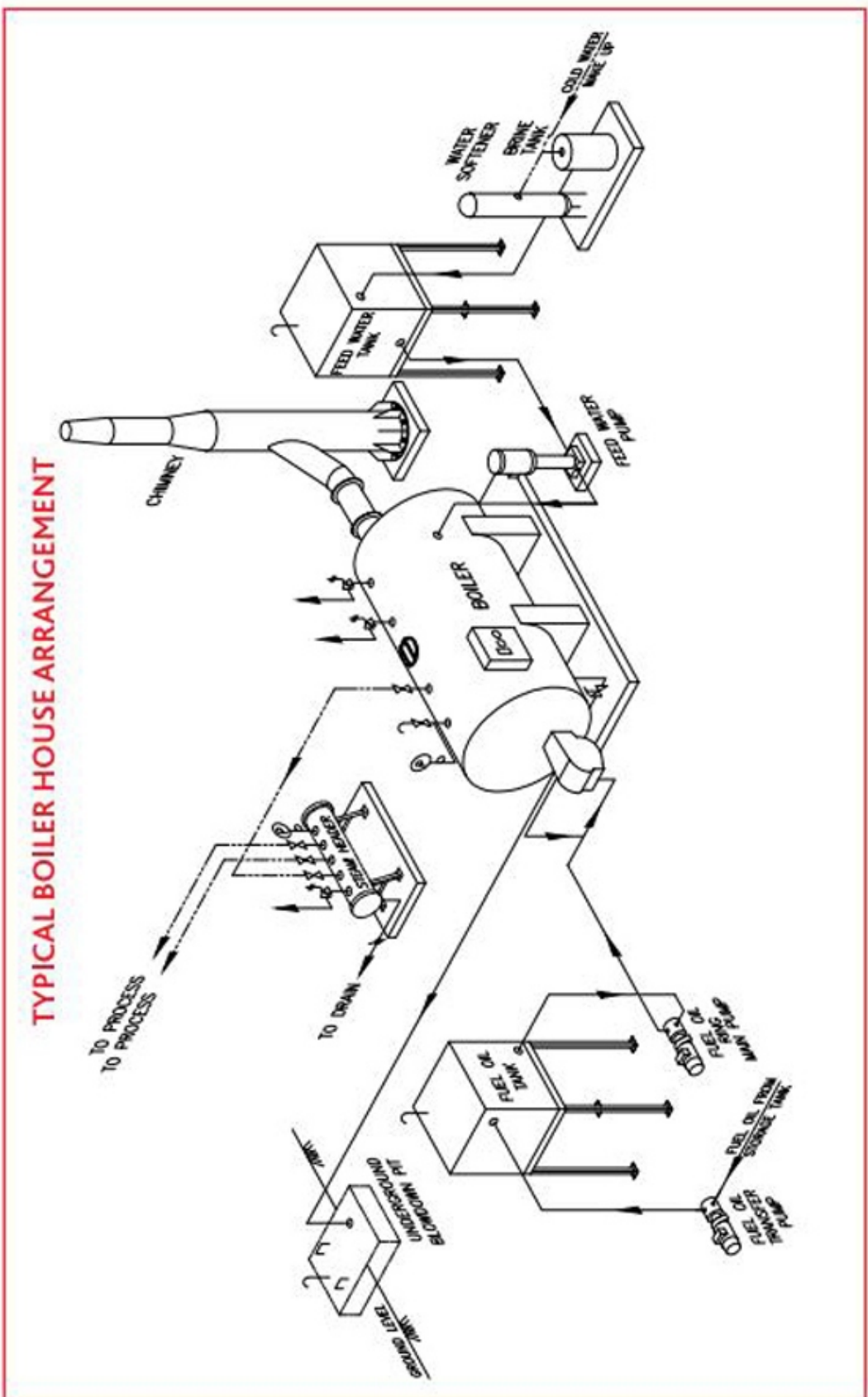
* LOW EMISSION

DESIGN, ENGG, MANUFACTURE, ERECTION & SERVICE OF BOILER

- ▶ 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 / WEISHAUP

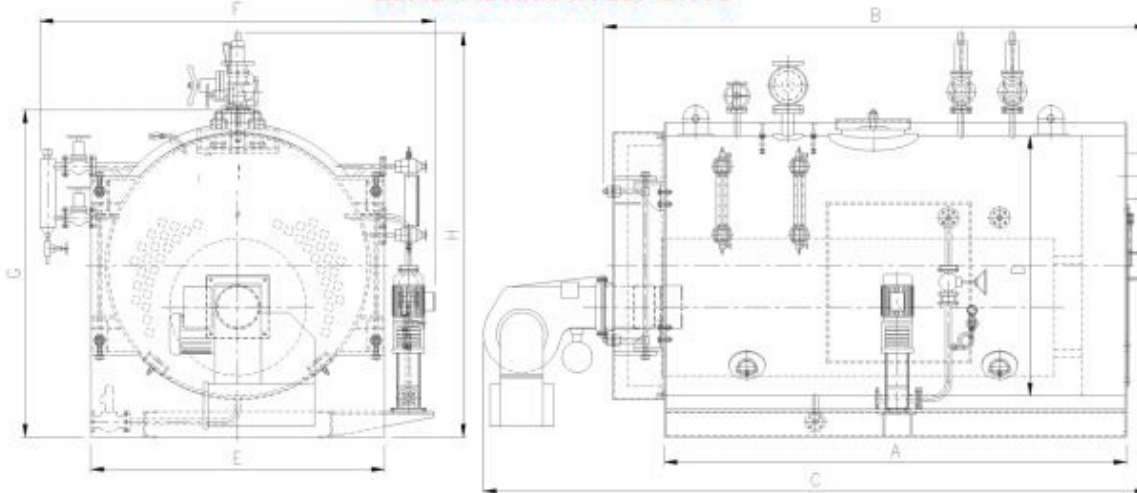


25 TONS BI DRUM STEAM BOILER



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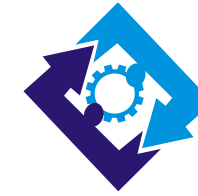
GENERAL ARRANGEMENTS



ESR / ESF BOILER DATA

SPECIFICATION		ESR						ESF		
Model	Unit	ESR05	ESR10	ESR15	ESR20	ESR25	ESR30	ESR40	ESR50	ESR60
Nominal Steam Output	kg/hr.	500	1000	1500	2000	2500	3000	4000	5000	6000
Operating Pressure	Kg/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	Kg/hr.	31	62.2	93.3	124.4	155.5	186.6	221.3	265.5	354.2
- Natural Gas	Kg/hr.	38.3	76.6	114.9	153.2	191.5	229.6	272.6	327.1	436.1
Water content (Full)	Ltrs	1.82	2.26	3.40	4.20	4.50	5.72	8000	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	1963	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 Req.										
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	Kgs	2000	3200	4200	5000	5600	6400	9500	11000	12000
Wet Weight of Boiler (Hydro)		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, 1lb = 0.454 kg, 1 US G = 3.787Ltrs., 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/Specification without prior notice.
4. MSR: MAXSTEAM Reverse Flue Boiler.
5. MSF: MAXSTEAM three pass wet back Boiler.



EZHIL ENERGIES

FULLY AUTOMATIC HORIZONTAL OIL / GAS FUEL IBR STEAM BOILER



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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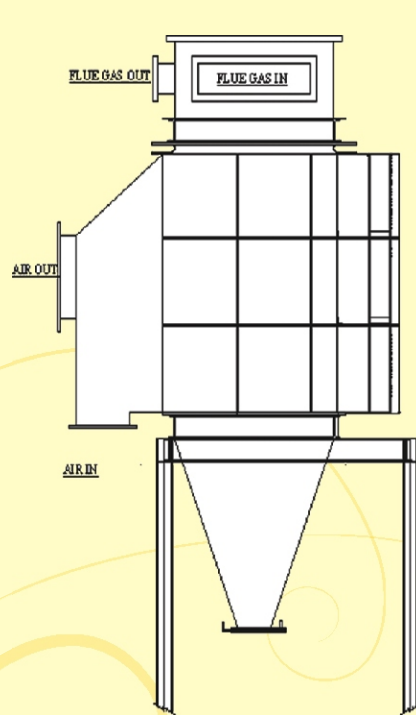
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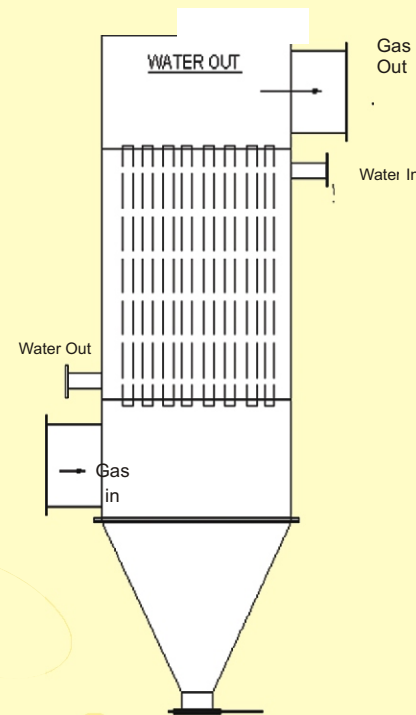
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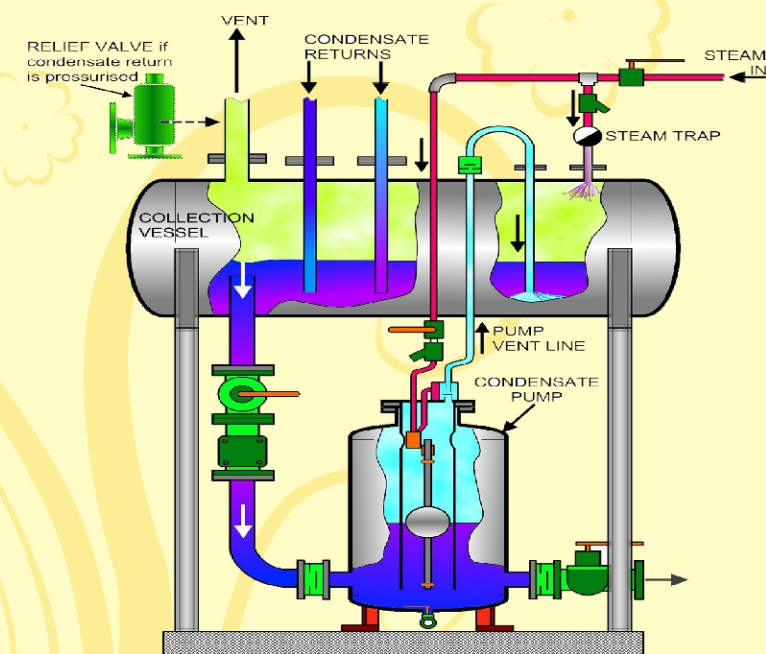
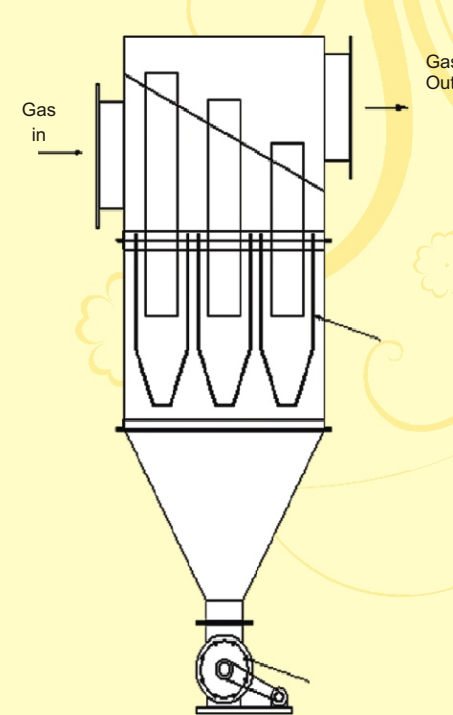
Air Pre Heater



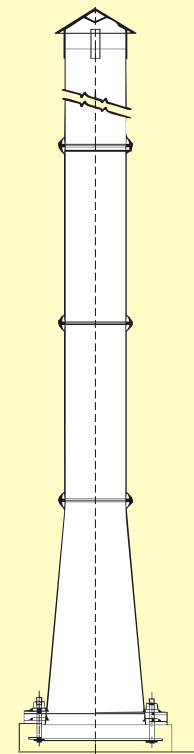
Feed Water Heater



Mechanical Dust Collector



Condensate Pump



SS & MS Chimney



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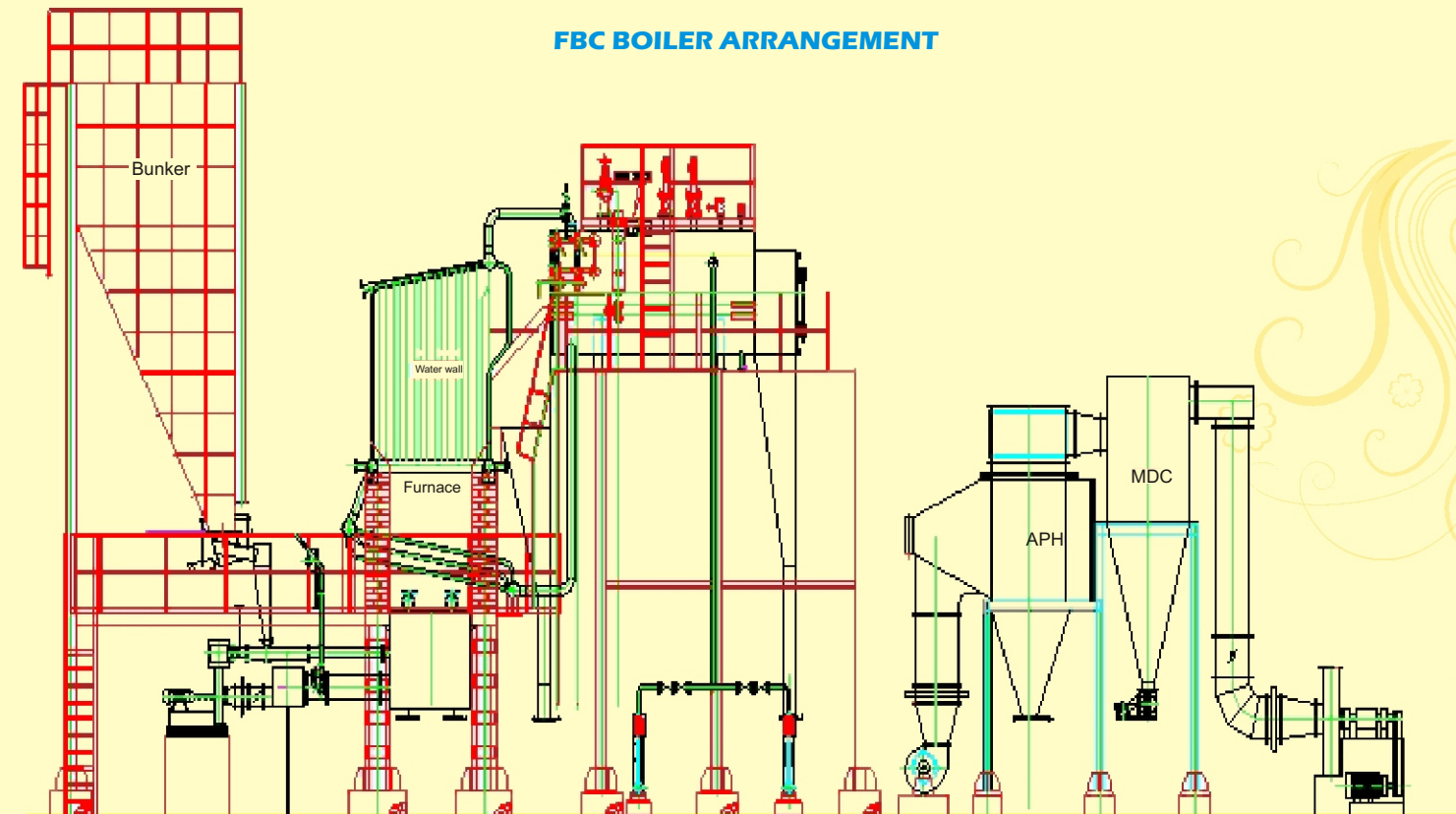
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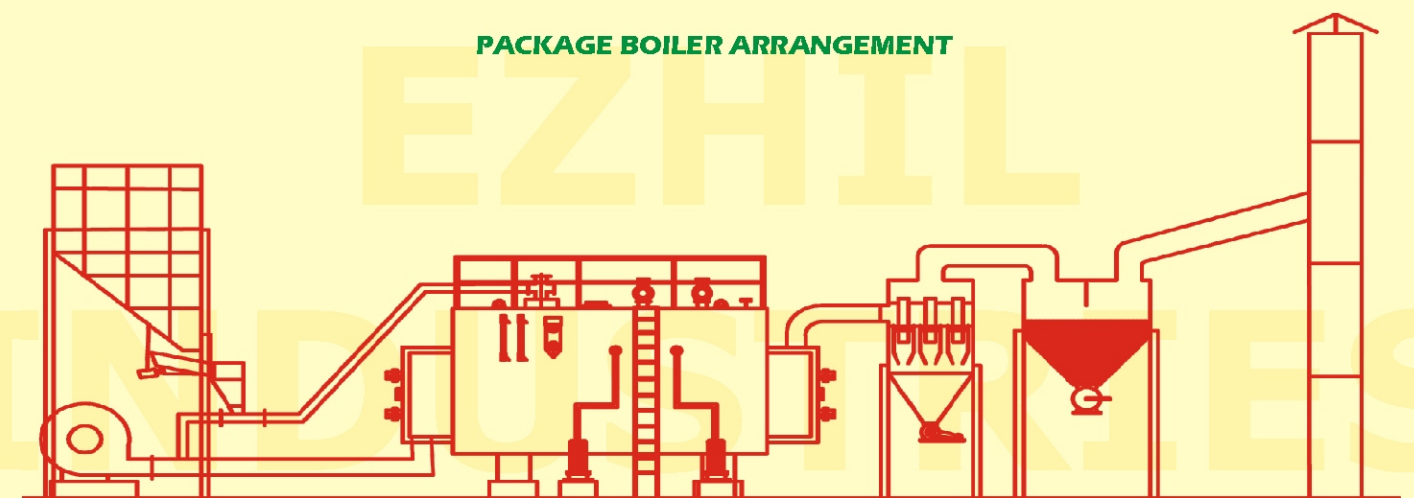
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FBC BOILER ARRANGEMENT

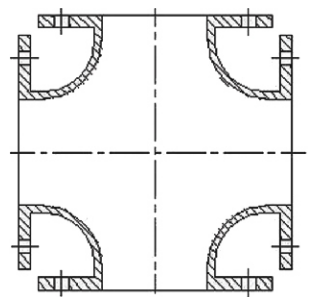


PACKAGE BOILER ARRANGEMENT

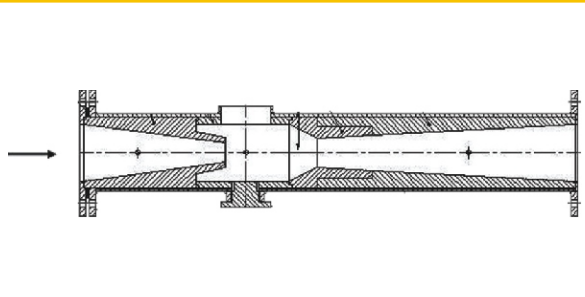


One Stop shop for all your Boiler Needs

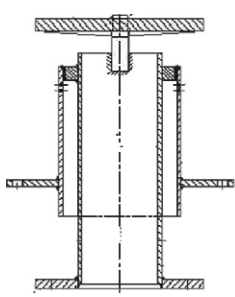
4,5 & 6" Cross



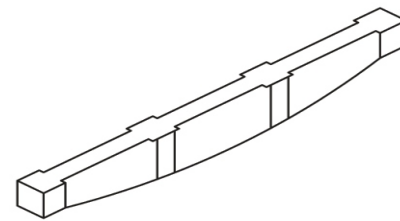
4,5 & 6" Mixing Nozzle



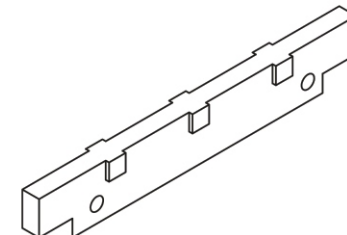
4,5 & 6" Fuel Nozzle



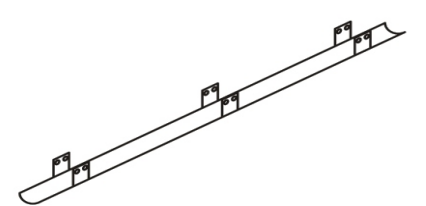
Fire Bar (Thermax)



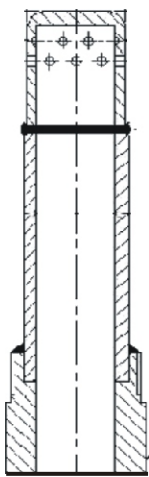
Fire Bar (Vecons)



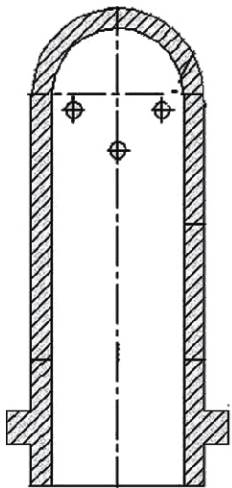
Bed Coil Shield



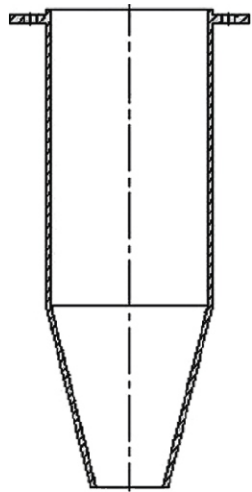
Air Nozzle (CVL)



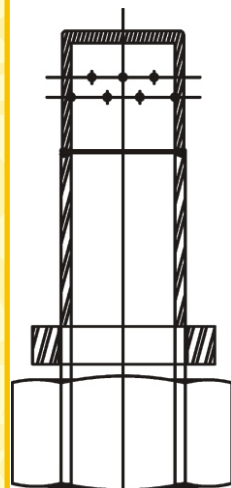
Air Nozzle (Thermax)



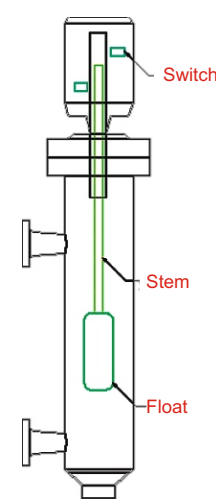
MDC Cone



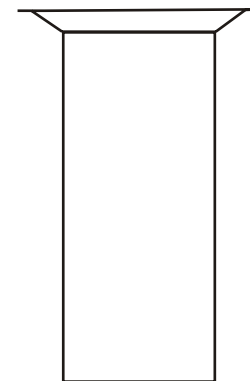
Air Nozzle (Vecons)



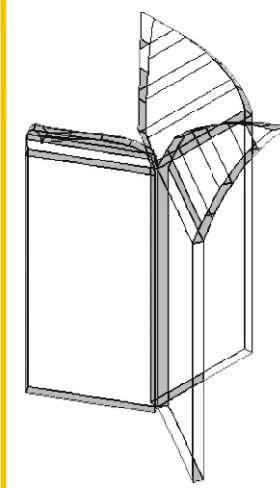
Mowbrey (AWLC)



SS304 Ferrules



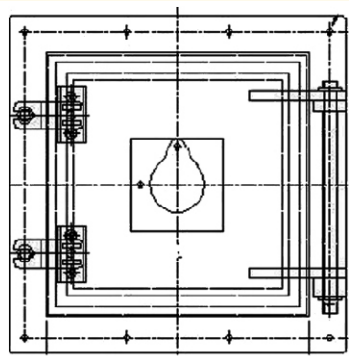
SS304 Turbulator



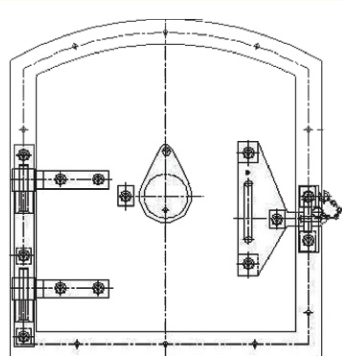
Thermo Couple



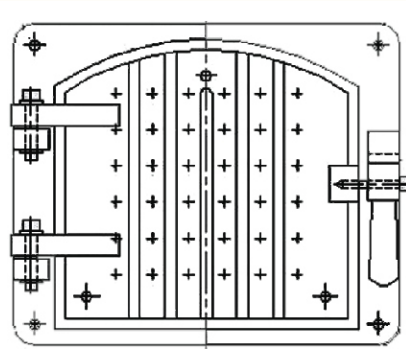
Fire Door (CVL)



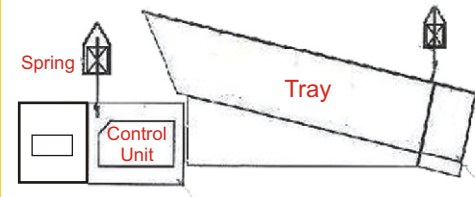
Fire Door (Vecons)



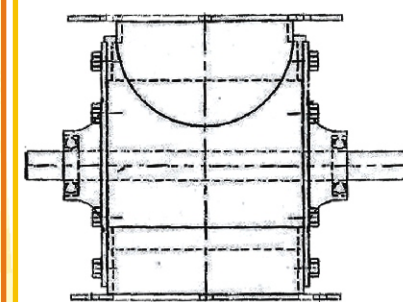
Fire Door (Thermax)



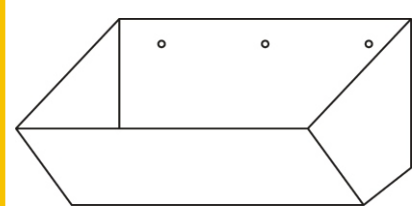
Vibratory Feeder



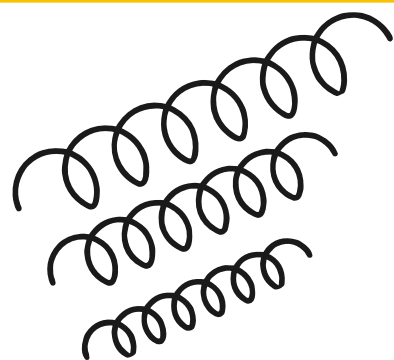
Ash Feeder



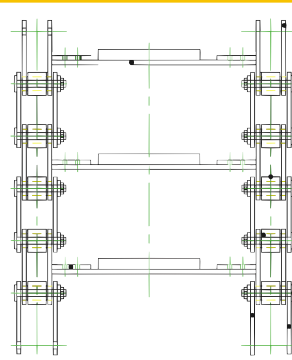
SS Elevator Bucket



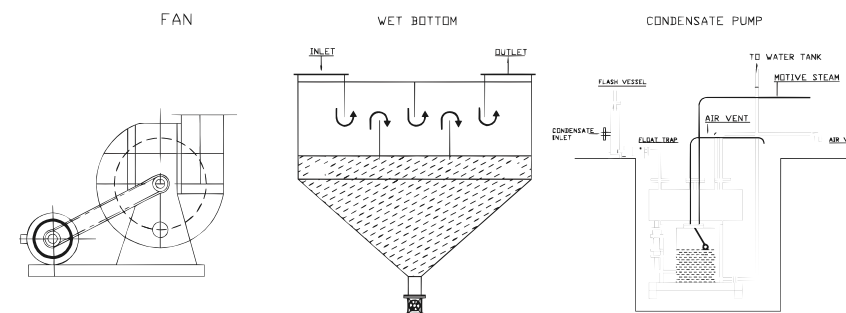
Spiral Spring



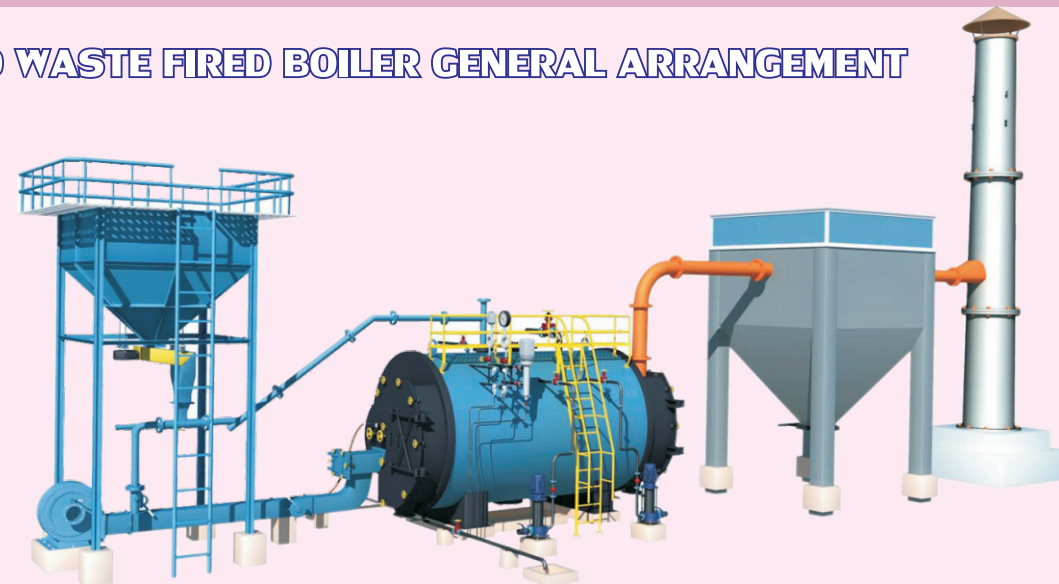
Drag Chain



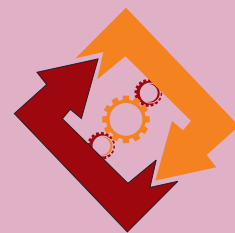
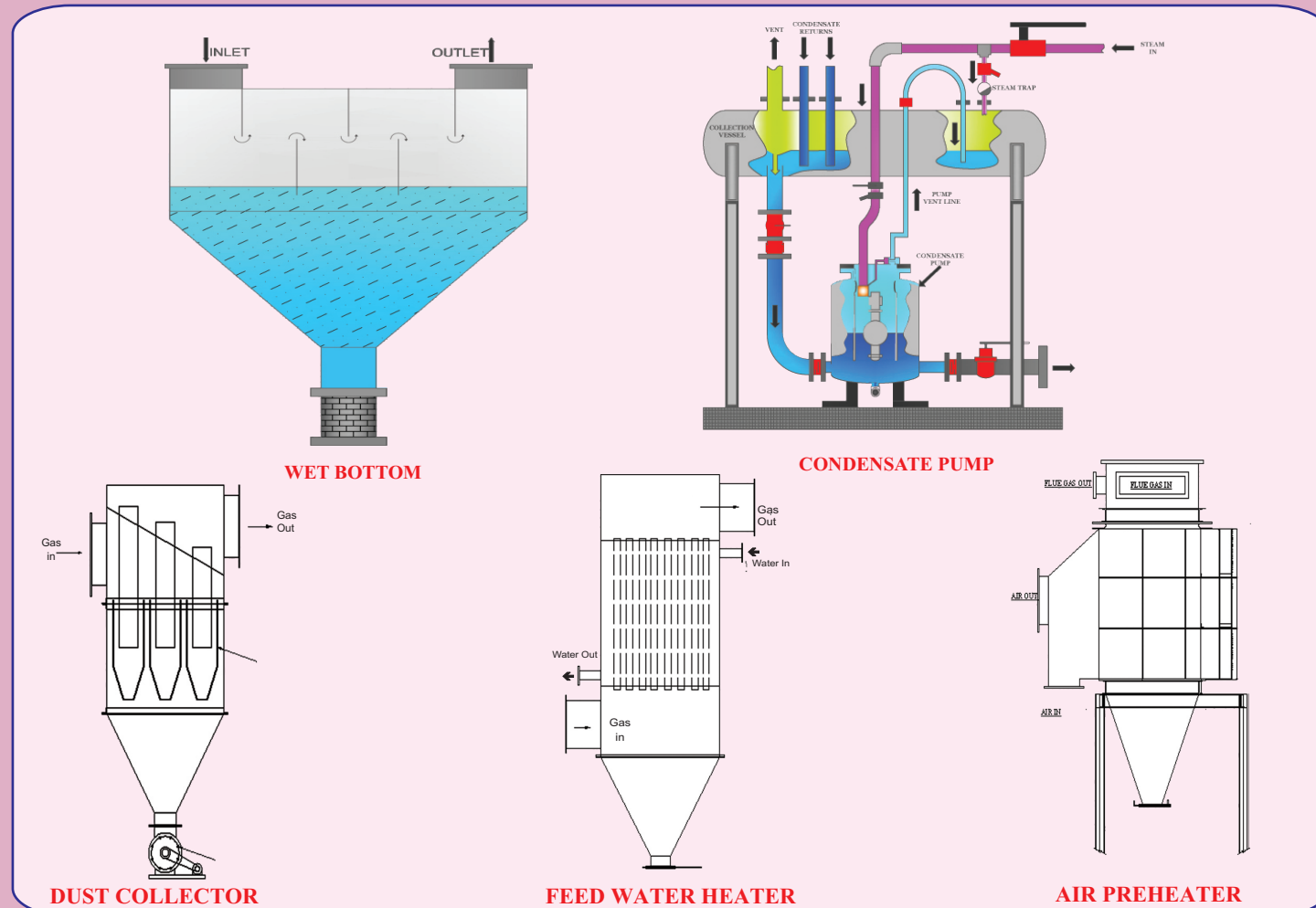
Gate Lock Pump Model



AGRO WASTE FIRED BOILER GENERAL ARRANGEMENT



OPTIONAL AUXILIARIES



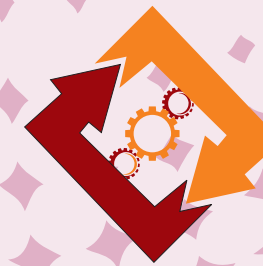
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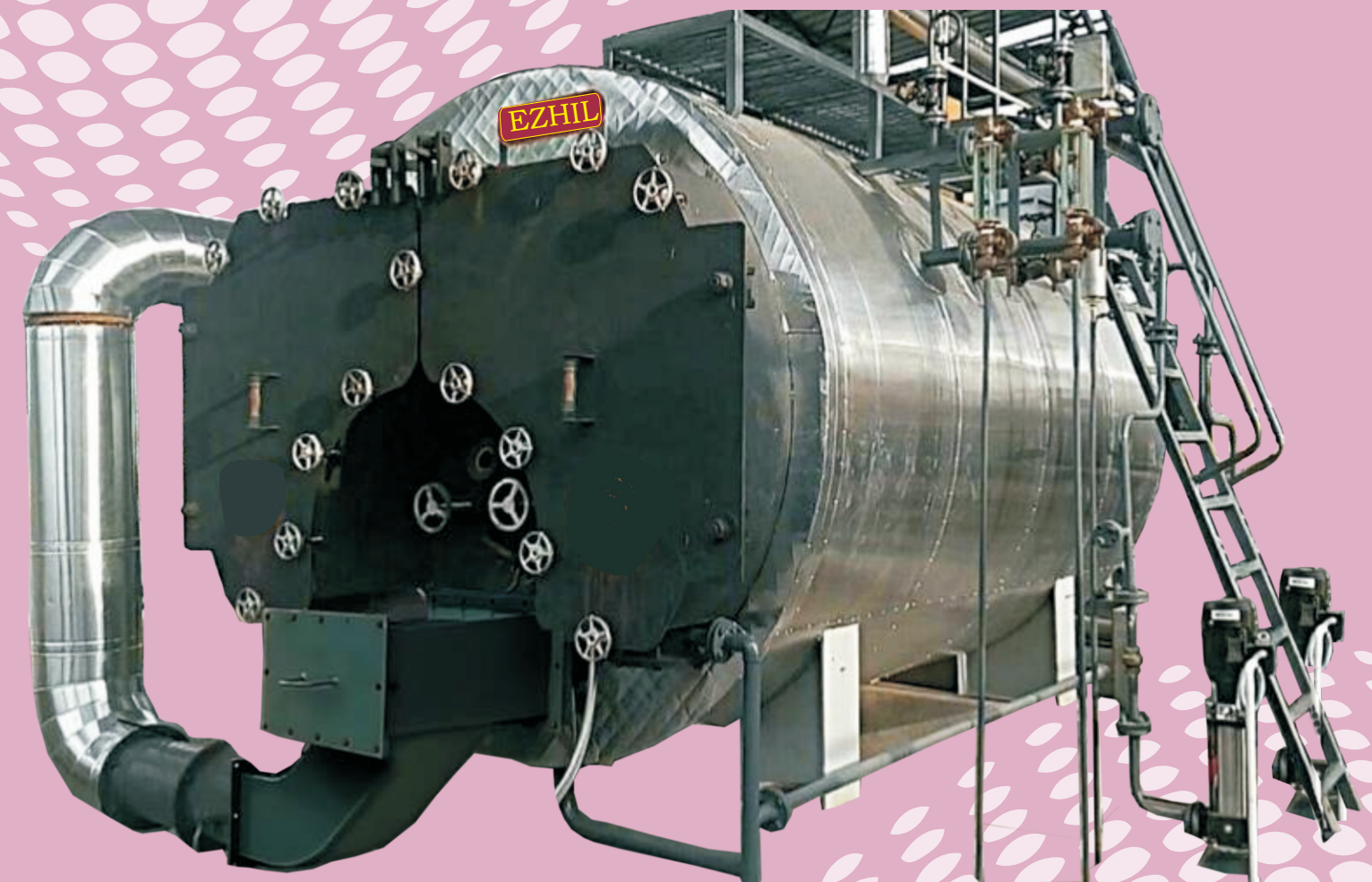
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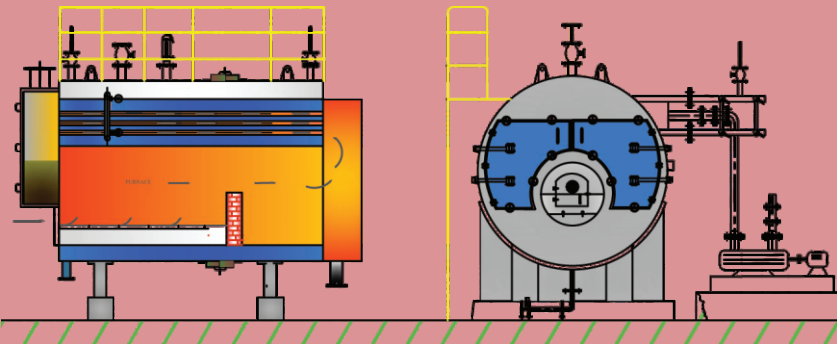
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SOLID FUEL FIRED INTERNAL FURNACE PACKAGED MODELS

TWO PASS DRY BACK BOILER



Range of Products

Capacity : 0.25TPH to 1TPH
Pressure : 7Kg/cm2 to 10.5 Kg/Cm2
Fuel : Solid Agro Waste & Fire Wood

Advantages

More steam space for meeting demand load
Huge Grate Area for more combustion

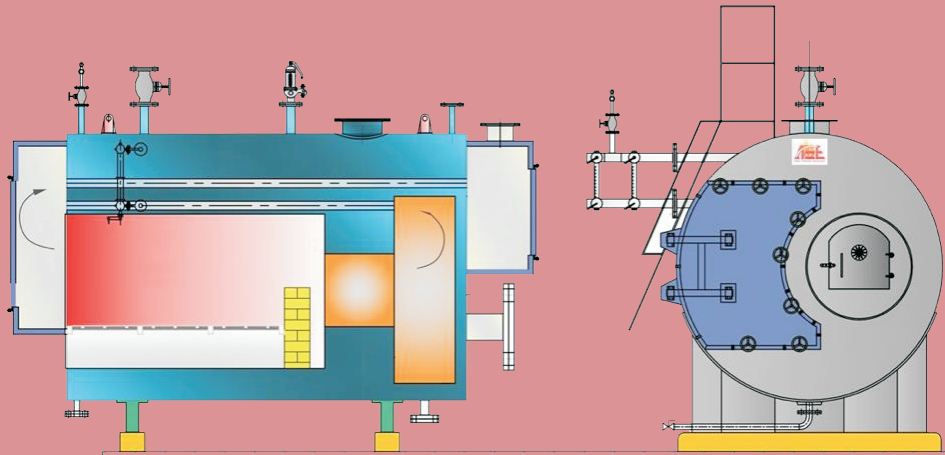
THREE PASS FULLY WET BACK BOILER

Range of Products

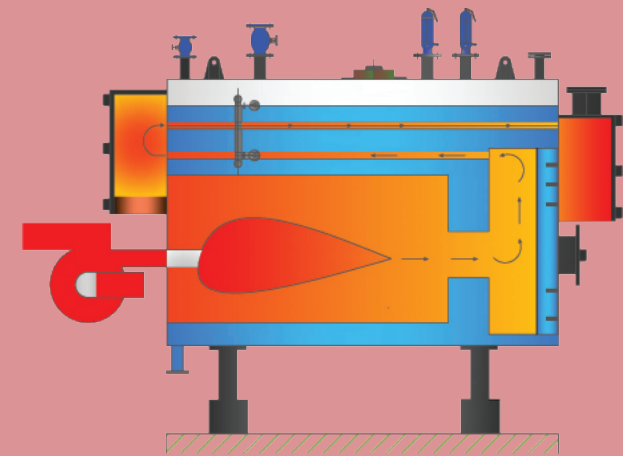
Capacity : 1TPH to 6TPH
Pressure : 7Kg/cm2 to 21Kg/Cm2
Fuel : Solid Agro Waste

Advantages

Centre Furnace enables uniform heat transfer.
Less fuel consumption.
Cast iron doors .
Square pitch tubes, ensures slag to reach the bottom of the boiler.



OIL FIRED PACKAGED BOILER



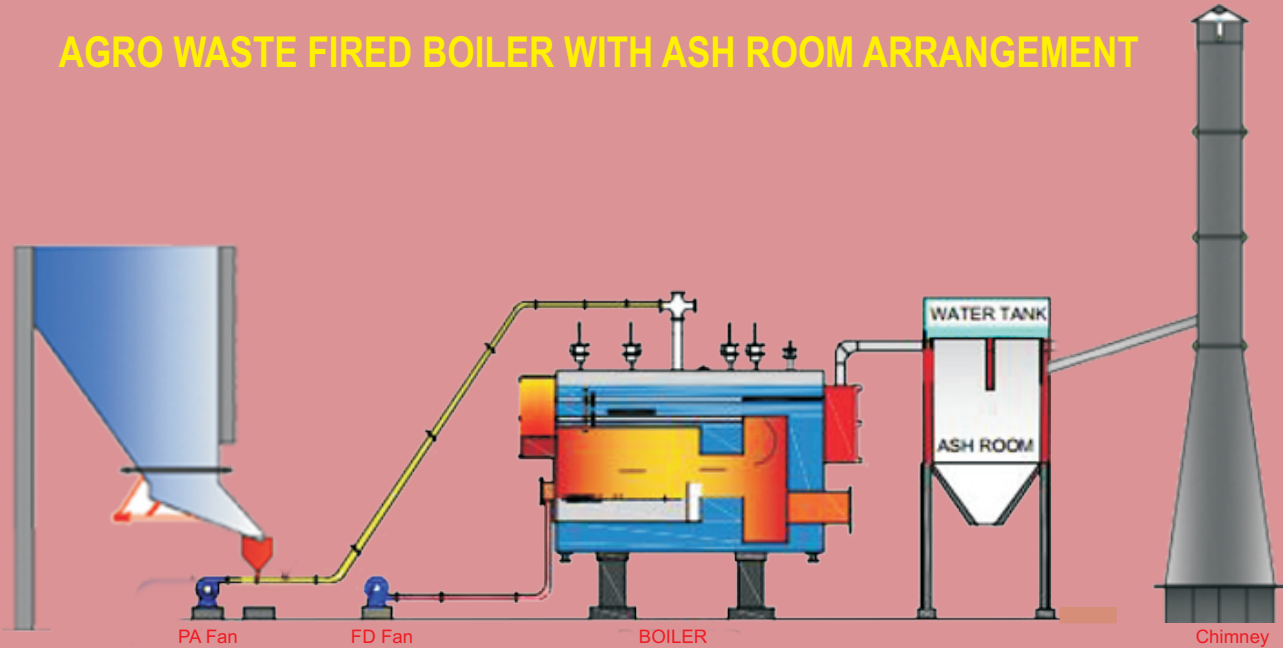
Range of Products

Capacity : 0.5TPH to 6TPH
Pressure : 7Kg/cm2 to 21 Kg/Cm2
Fuel : LDO/Furnace oil / Gas

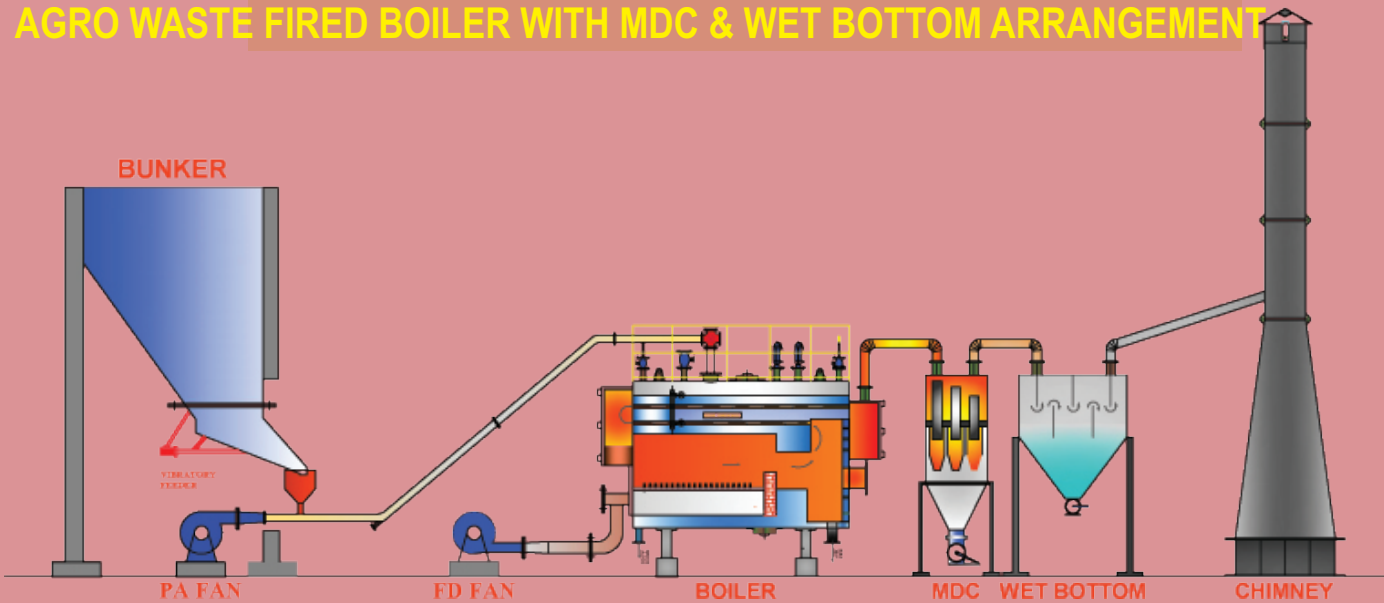
Advantages

Centre furnace, enables uniform heat transfer.
Square pitch tubes, ensures slag to reach the bottom of the boiler.
Fully automatic boiler.
Highly efficient and eco friendly design.

AGRO WASTE FIRED BOILER WITH ASH ROOM ARRANGEMENT



AGRO WASTE FIRED BOILER WITH MDC & WET BOTTOM ARRANGEMENT



BIOMASS FIRED BOILER WITH APH, MDC & WET BOTTOM

