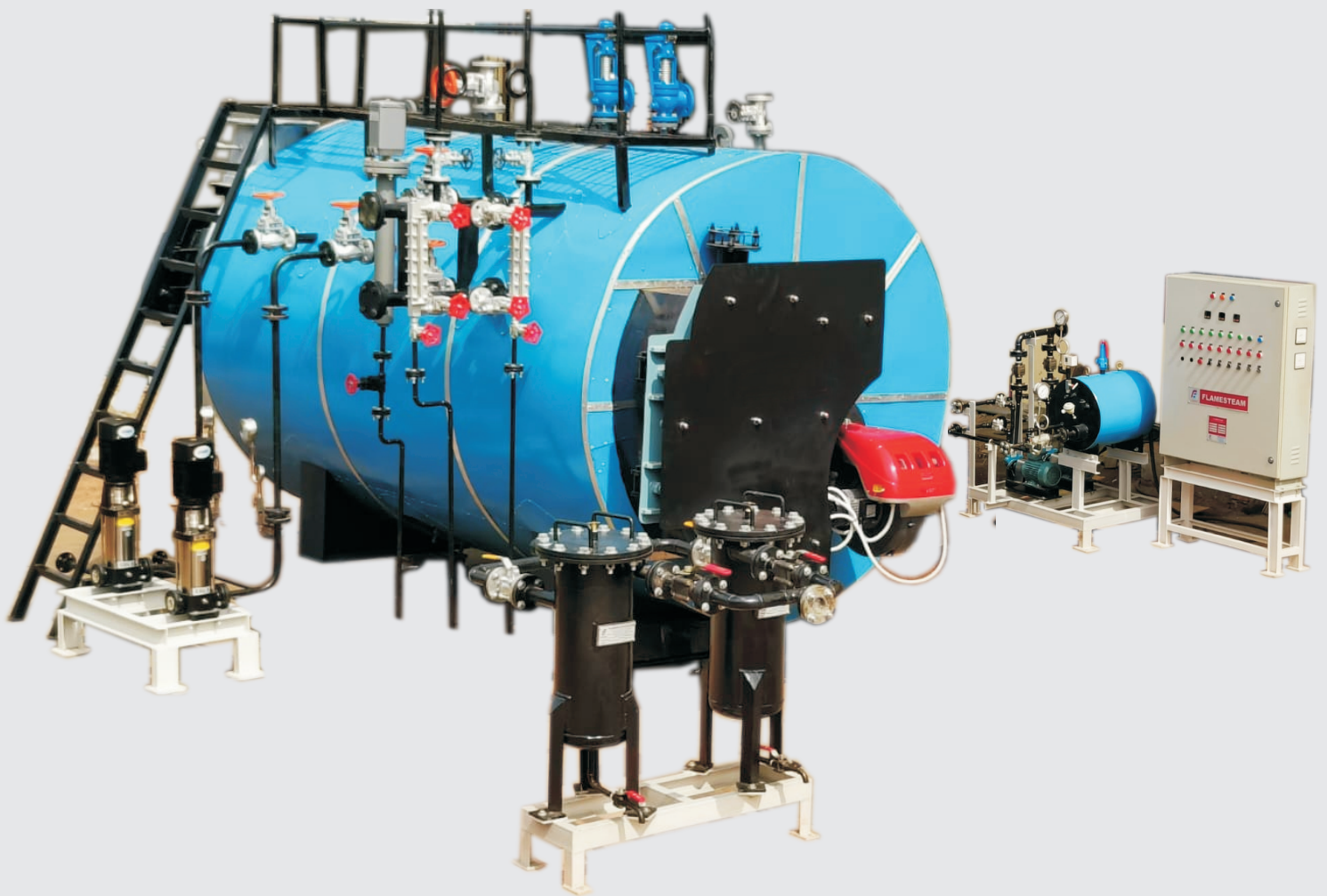




EZHIL ENERGIES

ENERGISING THE FUTURE



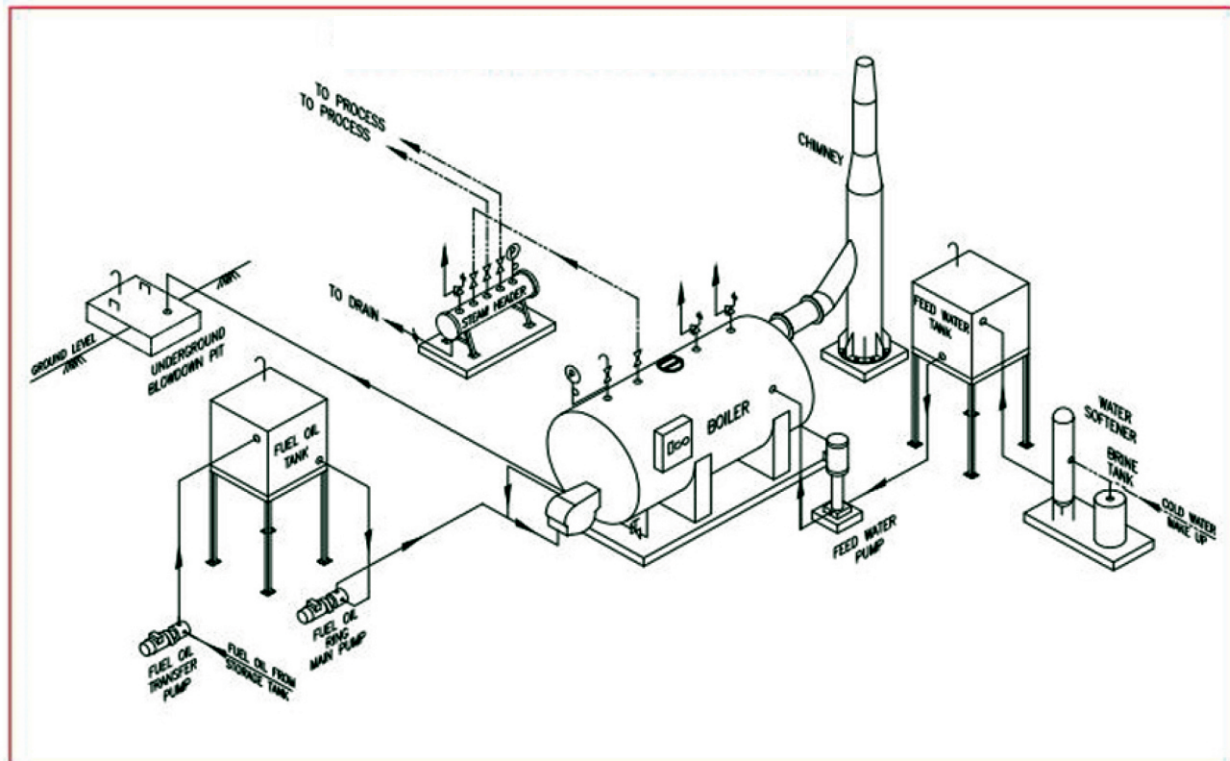
OIL AND GAS FIRED BOILER

Capacity : 1Tph to 10 Tph

SALIENT FEATURES OF OILFLAME / GASFLAME

1. Low Emission Option of Fire Tube Boiler reduces nitrogen (NOX) emission. CO is also lower due to increased turbulence created in the furnace thereby improving combustion.
2. EZHIL OILFLAME & GASFLAME Boiler and Components are in compliance with Latest IBR, ASME and other major national and international standard code of design and construction.
3. Boiler are provided with Highly efficient Burner with ON/OFF type & step less modulation.
4. All Boilers are designed with HIGH FUEL TO STEAM Efficiency. - 4: 1 turn down ratio (gas & oil) is standard.
5. Advanced Burner design provides maximum combustion efficiency and high turn down.
6. Boilers are available with Oil (Heavy & Light), GAS (CNG, LPG & BIOGAS), Dual Fuel Burners.
7. Boiler are designed with High Burner gas velocities ensuring complete full air mix for maximum combustion and overall efficiency.
8. Skid Mounted on a Single Base for easy installation at site.
9. Radiation Shield provided in the front and Rear give Air Insulation and Easy Operation.
10. OILFLAME & GASFLAME Boilers pass through strict Quality Test like Radiography, Stress Relieving & NDT.
11. Hinged and Davit Front and Rear Doors provide full access to front and rear tubes and Furnace.
12. Low Furnace Location: A unique feature of EZHIL OILFLAME & GASFLAME Series is Low Furnance Location that is well below the water level with generous clearance from bottom of Boiler allowing proper circulation. Low Furnace provides additional safety margin between Furnace and Water Level.
13. Reduces water carryover providing Driver Steam.

TYPICAL BOILER HOUSE ARRANGEMENT



All EZHIL OILFLAME / GASFLAME boilers pass through stringent quality test viz. Radiography test, Stress relieving test and NDT.



High Uptime

Reliable components

- Zero leak piston valves
- Vertical multistage centrifugal feed water pump in SS construction
- Complete instrumentation from Forbes Marshall

Digital fault detection system with data logging.

Ease of Installation

Completely packaged construction

Skid mounted, no foundation

Monoblock burner, no foundation required

Packaged modular boiler house

Installation in 72 hours

Pre-wired and factory insulated with no site work

Ease of Operation and Maintenance

Fully automatic and unmanned operation.

Equipped with self-diagnostic systems for trouble shooting

Complete access for maintenance and cleaning

Automatic boiler blowdown control system

UNIQUE DESIGN FEATURES

- Bowling Hoop furnace above 4 Tph - Increases heat transfer area, offers flexibility for thermal expansion and ensures minimal stress transfer to tube plate.
- Burner Options - Choice of rotary cup, steam automatised, pressure jet, mono bloc and duel bloc burners available to suit different customer requirements.
- Efficiency Enhancement - Optional accessories such as air pre-heater and economiser can be integrated with the main unit.
- Automation - High level automation to control water level, steam flow and water flow, is available as add on options. Programable logic controllers (PLC) with supervisory control and data acquisition (SCADA) system can also be offered.

EZHIL OIL FIRED /GAS FIRED BOILERS are premium Fire tube products and provides maximum efficiency. Our boilers are available in wide range pressures and premium control packages. All boilers are pre-assembled, tested at our works before dispatch. Our products are designed to minimise radiation and convection losses and provide maximum combustion and thermal efficiency.

TECHNICAL SPECIFICATIONS OF OILFLAME / GASFLAME									
DESCRIPTION	UNIT	SBH-OF-50	SBH-OF-100	SBH-OF-200	SBH-OF-300	SBH-OF-400	SBH-OF-500	SBH-OF-600	SBH-OF-800
Capacity (F&A 100°C)	kg/hr	500	1000	2000	3000	4000	5000	6000	8000
Design Pressure(SVLOP)	kg cm ² g				10.54/17.5				
Efficiency(Husk)	%				92(As per BS845 Part1 NCV Basis)				
Fuel					FO,LDO,HSD				
Fuel Firing System					Automatic (with Pressure Jet Burner)				
Fuel Consumption (LDO/FO)	kg/hr	28/32	55/62	112/125	167/188	224/251	280/314	335/377	447/502
Connected Electrical Load									
Standard Unit (with LDO/HSD)	HP	4	5	11	15.5	25	27.5	30	30
with FO	HP	6.6	6+2KW	13.5+6KW	18+6KW	27.5+9KW	27.5+9KW	30+9KW	30+10
Dimensions & Weight									
Unit Assembly (AxBxCxD)	m	2.6x2.25x 2.17x1.35	3.8x2.62x 2.65x1.6	4.8x2.8x 2.92x2.5	4.8x3.2x 3.3x2.5	5.45x3.4x 3.45x2.8	6.1x3.65x 3.6x3.0	6.45x3.775x 3.75x3.2	6.95x4.1x 4.0x3.8
Transport (ExFxG)	m	1.975x1.465 x1.665	2.7x1.87x 2.07	3.5x2.1x 2.3	3.5x2.25x 2.45	4.0x2.5x 2.7	4.55x2.72x 2.92	4.8x2.8x 3.05	5.1x3.1x 3.4
Layout (LxW)	m	1.8x2.0	2.6x3.1	3.0x5.8	3.5x6.0	3.6x6.5	3.85x7.0	4.0x7.5	4.2x8.0
Chimney Top Diameter	mm	250	350	450	500	600	600	600	750
Dry Weight (10.54/17.5)	Ton	3/3.5	6/7	9/11	12/14	15/17	18/20	24/27	-
Flooded Weight (10.54/17.5)	Ton	4.5/5	10/12	17/18	22/25	34/38	33/36	51/55	51/55



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