

ENERGY PROCESS EQUIPMENTS



IBR approved manufacturer

proven, safe economical, energy saving, smoke tube horizontal steam boiler

Advantages Steam Boiler





■ High Operating Safety

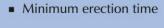
- Rugged and sturdy design
- Two safety valves for release of high pressure steam
- Pressure switch for cut out of boiler at high pressure steam
- Automatic water level controller
- Low water lock out of boiler
- Alarm for low water level in boiler

Optional Feature

- West heat recovery unit
- Cyclone dust collector
- Water softening plant
- Fully automatic oil/gas firing
- M.S. chimney and chimney duct
- Feed water tank
- Fuel tank

■ Easy Installation

- Package type boiler
- Minimum civil work



Quick start up and prompt response

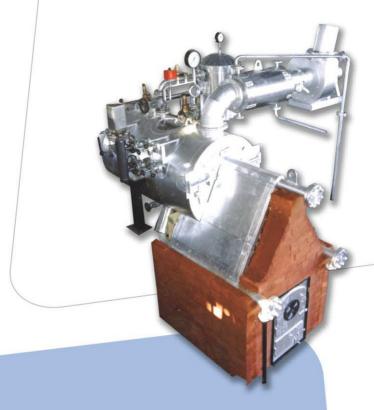
- Effective natural circulation
- Low startup time
- Excellent response to load fluctuations

■ Low and hassle-free maintenance

- No circulation pumps
- A manhole provided at the top of the boiler
- Two manhole provided at the bottom of the boiler for cleaning/sludge removal
- Hinged doors provided on side for easy smoke tube cleaning
- No soot blowers







■ Largest Heating Surface Area

- Low fouling factor
- Better performance over extended period

■ Large Water Holding Capacity

- Better quality of steam
- Higher TDS permitted in boiler ensuring low frequency of blow down



■ Design and Manufacturing

The boilers have three pass horizontal smoke tube, shell type package wet hack design with 100% radiography and are class-1 fusion- welded. They are manufactured as per India Standards (ISO-R/831).

Quality and After Sales Service

All product designed and manufactured by EPE are highly efficient due to extensive testing and actual product line application.

EPE's experienced and quality service division is always ready to offer round the clock prompt and reliable service to customers.

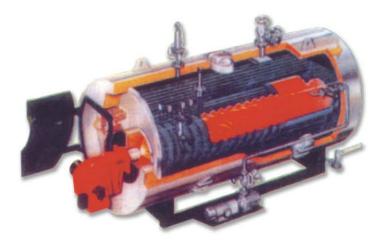


Technical Specifications of Oil / Gas Fired IBR Steam Boiler

MODELS	UNIT	IBO-6	IBO-8	IBO-10	IBO-15	IBO-20	IBO-30	IBO-40	IBO-50	IBO-60	
Evaporation Capacities F & A at 100 Deg.C	Kg./Hr.	600	800	1000	1500	2000	3000	4000	5000	6000	
Working Pressure	Kg./Cm ²	→ 10.54 Kg./				/Cm² to 25.00 Kg./Cm²					
Ratings	M²	18+	24+	33+	47+	66.55+	92.5+	120+	150+	180+	
Efficiency on GCV	%	← 88 ± 1%									
Fuel Consumption - LDO FO Natural Gas	Kg./Hr. Kg./Hr. M³/Hr.	36 38.1 36	48 50.8 48	60 63.5 60	90 95 90	120 126.6 120	180 190.5 180	240 254 240	300 317.5 300	360 381 360	
Fuel Oil Pump	НР	0.5	0.5	0.5	0.75	0.75	1.0	1.0	1.0	1.0	
Water Feed Pump	НР	1.0	1.0	2.0	2.0	2.0	5.0	5.0	7.5	7.5	
Blower Motor	НР	2.0	3.0	5.0	5.0	7.5	10.0	15.0	20	20	
Electric Supply	•	415 Volts, 50Hz, 3 Phase, 4 Wire									
Manufacturing Design Code	→ IBR-1950 or ISO/R-831 with latest amendment →										
Dimension (Approx.) Length Width Height	mm mm mm	3000 1600 1600	3000 1800 1800	3500 1800 2200	5000 2400 3000	5200 2500 3000	5500 3000 3000	5500 3500 3500	5500 3600 3600	5500 4000 4000	
Dry Weight (Approx.)	Kgs.	3000	4000	5500	8500	10000	15000	18000	22000	24000	

Note: - For FO fired model up to 3000 kg/hr, loads of electric pre-heater of H&P unit, storage tank heater and service tank heater will be 2kw, 3kw and 2kw respectively.
- For FO fired model above 3000 kg/hr, loads of electric pre-heater of H&P unit, storage tank heater and service tank heater will be 4kw, 6kw and 4kw respectively.

- Designs are subject to change without prior notice due to continuous R&D.



•	Gross calorific value of	LDO	10,700	Kcal/Kg.
•	Gross calorific value of	HSD	10,900	Kcal/Kg.
•	Gross calorific value of	FO	10,200	Kcal/Kg.
•	Gross calorific value of	LSHS	10,550	Kcal/Kg.
•	Gross calorific value of	NG	8,500	Kcal/M ³

The boiler units indicated in the above table are as per our current manufacturing range.

We also manufacture and supply customized boilers.



Technical Specifications of Solid Fuel Fired IBR Steam Boiler

MODELS	UNIT	IBO-6	IBO-8	IBO-10	IBO-15	IBO-20	IBO-30	IBO-40	IBO-50	IBO-60	
Evaporation Capacities F & A at 100 Deg.C	Kg./Hr.	600	800	1000	1500	2000	3000	4000	5000	6000	
Working Pressure	Kg./Cm ²	◆ 10.54 Kg.				/Cm² to 25.00 Kg./Cm²					
Ratings	M²	25.5+	32+	44+	61+	84+	121+	161+	210+	242+	
Efficiency on GCV	%	←				75 ± 1% ←					
Imported Coal Consumption	Kg./Hr.	75	100	125	188	250	375	500	625	750	
Feed Pump	НР	1.0	1.0	2.0	2.0	2.0	5.0	5.0	7.5	7.5	
Induced Draft Fan	НР	2.0	3.0	3.0	5.0	7.5	10.0	15	20	20	
Electric Supply	415 Volts, 50Hz, 3 Phase, 4 Wire										
Manufacturing Design Code	■ ■ IBR-1950 or ISO/R-831 with latest amendment							-			
Dimension (Approx.) Length Width Height	mm mm mm	3000 1800 2000	3000 2000 2300	3500 2100 2400	4000 2700 2700	5000 3000 2700	5500 3200 3500	6000 3500 3500	6500 3500 4000	7000 3500 4000	
Dry Weight (Approx.)	Kgs.	4500	5000	6000	10000	13500	20000	24000	25000	30000	

Note: Designs are subject to change without prior notice due to continuous R&D.

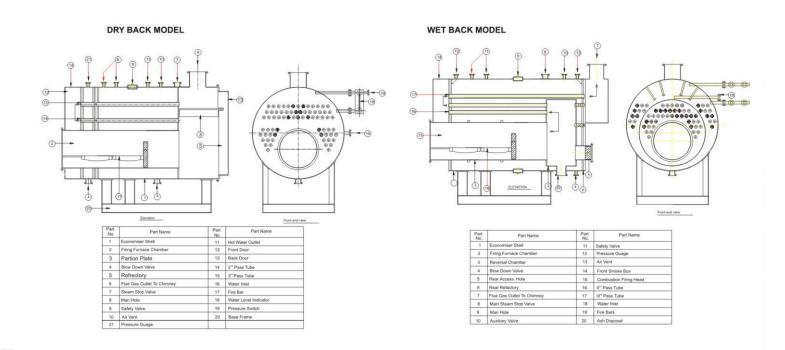
Gross calorific value of imported coal 5,500 Kcal/Kg.

Gross calorific value of steam coal 4,500 Kcal/Kg.

• Gross calorific value of lignite 3,500 Kcal/Kg.

The boiler units indicated in the above table are as per our current manufacturing range.

We also manufacture and supply customized boilers.



We also manufacture:



Oil Fired Thermic Fluid Heating System



Solid Fuel Fired IBF Steam Boiler



Oil/Gas Fired SIB Boiler



Smoke Tube Type, Horizontal Oil/Gas Fired Boiler



Oil Fired Fully Automatic Coil Type Steam Boiler



Oil Fired IBR Steam Boiler



Solid Fuel Fired External Firing Hot Air Generator



Solid Fuel Fired Water Wall Smoke Cum Water Tube Boiler



Smoke Tube Type, Horizontal Solid Fuel Fired Boiler



Solid Fuel Fired Horizontal Thermic Fluid Heater



Solid Fuel Fired Vertical Four Pass Thermic Fluid Heater



Electrical Heated Dual Type Thermic / Boiler



Marketed & Manufactured by

ENERGY PROCESS EQUIPMENTS

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