

# ISAAC BOILERS



**STEAM BOILERS**



**ISAAC  
BOILERS**

Three Pass Wet Back Rugged Construction, Factory tested for optimum efficiency. Built in accordance with ASME Code. Proven three pass conventional wet back design for longer life cycles.

All our boilers are tested and inspected by HSB / Lloyds Register at all stages of manufacture.

Plate thickness of Isaac Boilers are in excess to ASME Code requirements.

All boilers are subjected to X Ray and NDT tests of the main weld seams.

High temperature ceramic insulation used.

- Low Nox emissions.
- Easy access.
- Bigger Furnace.
- Higher heating surface.

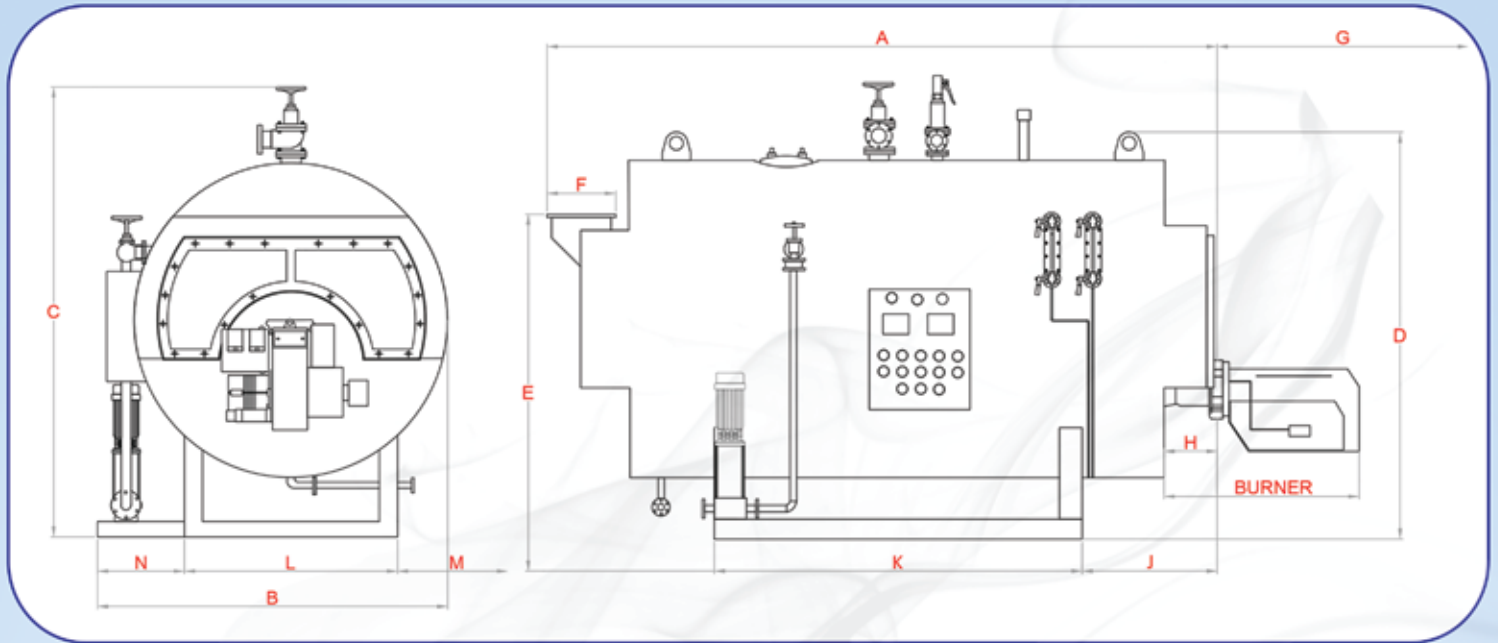
Operation and maintenance manual, manufacturing report, electrical wiring diagrams, technical details of all valves, controls and other accessories are given to the customer at the time of delivery.



## Standard Trim.

- ✓ Stainless Steel Multi-stage feed pump.
- ✓ Operating Pressure Controller.
- ✓ Hi-limit pressure controller.
- ✓ Lift type safety valve.
- ✓ Probe type / float type low water cut off device.
- ✓ Reflex type level gauge glass.
- ✓ Boiler body mounted control panel.
- ✓ Oil Fired / Gas Fired Burner.
- ✓ Burner sourced from Europe / USA origin.
- ✓ Pressure gauge with syphon and cock.
- ✓ Auxiliary low water cut off.
- ✓ TDS surface blowdown system.
- ✓ Sample cooler.
- ✓ Boiler fully insulated with 100 mm thick, 100 kg density Rockwool Slab Insulation and Clad with enamel painted GI Sheet.





## BOILER DIMENSION

Model – IB3S		1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8000	9000	10000	12000	14000	16000	18000
DUTY F & A 100° C	lb/hr	2200	3300	4400	5500	6600	7700	8800	9900	11000	13200	15400	17600	19800	22000	27600	30300	35100	39700
	kg/hr	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8000	9000	10000	12500	13750	15900	18000
	kw	627	940	1254	1567	1881	2194	2508	2821	3135	3762	4389	5016	5642	6269	7837	8620	9968	11285
Overall Length	A	3140	3525	3785	4105	4270	4450	4727	5025	5060	5630	5685	5798	5815	6389	6505	6610	6610	7695
Overall Width	B	1798	2015	2140	2265	2325	2438	2515	2580	2635	2690	2845	3150	3162	3262	3522	3686	3865	3898
Overall Height	C	2298	2520	2715	3350	3472	3555	3762	3814	3918	3988	4165	4422	4588	4567	4905	5112	5140	5180
Minimum Height	D	1955	2132	2279	2355	2472	2558	2762	2818	2912	2975	3165	3422	3585	3563	3905	4115	4145	4185
Chimney Height	E	1675	1828	1895	1995	1998	2128	2252	2319	2368	2452	2468	2748	2762	2675	2830	3132	3195	3735
Chimney I/D	F	205	255	280	331	358	385	415	435	459	508	533	611	611	662	712	763	763	765
Tube withdrawal	G	2235	2498	2683	2915	3022	3129	3372	3598	3592	4068	4049	4015	3988	4468	4415	4415	4415	5345
To end of smokebox	H	169	211	235	242	261	282	290	311	326	341	361	391	421	440	491	491	491	564
To base frame front	J	679	823	875	872	942	975	985	1045	1093	1138	1302	1345	1385	1459	1538	1640	1235	1405
Base frame Length	K	1670	1770	2000	2180	2210	2310	2560	2730	2660	3110	2810	2790	2770	3160	3110	2990	2930	4510
Half Base frame width	L	455	505	555	630	640	705	730	755	805	830	880	930	980	1005	1105	1175	1105	1305
Ladder to base	M	-	-	-	570	620	620	660	630	630	630	640	750	860	760	830	870	880	820
Mounting Plate	N	560	660	660	660	660	660	660	675	630	630	645	765	750	725	715	770	770	770
Burner Length		1080	1080	1260	1260	1260	1365	1365	1365	1365	1415	1415	1553	1553	1553	1705	1705	1705	1705
Feed Pump - 150 psi	DN	25	25	25	25	25	32	32	32	32	40	40	40	40	50	50	50	50	65
Crown valve outlet - 150 psi	DN	50	65	80	80	100	100	100	100	125	125	125	150	150	150	200	200	200	200
Safety valve outlet - 150 psi	DN	40	40	50	50	50	65	65	65	65	80	80	80	100	100	100	100	125	125
Blowdown Valve	DN	32	32	32	32	32	32	50	50	50	50	50	50	50	50	50	50	50	50
Weight Empty	Kg	3300	4700	5990	7150	8190	9100	10540	11550	12350	14500	16910	20750	23450	26000	30690	34300	37010	43050
Weight to NWL	Kg	5350	7550	9450	11280	12950	14550	17050	18850	20500	24050	27750	33850	37900	41970	50700	54700	59480	80700
Fuel - LPG	Nm <sup>3</sup> /hr	27	40	54	67	80	94	107	120	134	161	187	214	241	268	335	368	426	482
Fuel - Oil	kg/hr	61	90	120	150	178	207	236	265	294	354	411	470	528	585	731	804	877	1052

Standard boiler working pressure is 10 bar.

Working pressure upto 20 bar is available. Please consult factory.

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## RANGE OF PRODUCTS

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- ✦ ELECTRIC BOILERS
- ✦ WASTE WATER RECOVERY BOILERS
- ✦ FEED WATER TANKS
- ✦ BLOWDOWN VESSELS



### **ISAAC BOILERS PVT. LTD.**

Kalpadi P.O., Kanyakumari District

Tamilnadu, India.

Tel: 0091 4651 237730

Fax: 0091 4651 238722

**Web:** [www.isaacboilers.com](http://www.isaacboilers.com)

**Email :** [manuel@isaacboilers.com](mailto:manuel@isaacboilers.com)

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