



SHELLMAXTM

Fully Packaged, 3 Pass, Smoke Tube, Oil / Gas Fired Steam Boiler

Capacity Range
1000 to 10000 kg/hr

Standard Design Pressure
10.54 & 17.5 kg/cm² g

Unique design features

- **Fully packaged unit:** Completely pre-insulated, pre-wired and packaged unit with monobloc burner and boiler mounted control panel.
- **Compact design:** Specially designed for light oil and gas firing, compact build ensures lower foot print area.
- **Efficiency enhancement:** Modular type finned tube economiser can be integrated with main unit to enhance efficiency up to 94%.
- **Corrugated furnace:** Increases heat transfer area, offers flexibility for thermal expansion and ensures minimal stress transfer to tube plate.



Finned tube for economiser



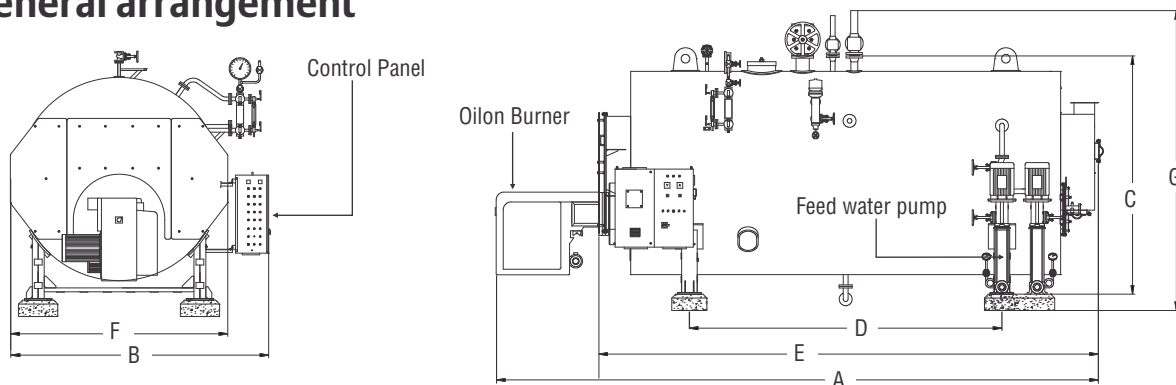
Corrugated furnace

Technical specifications

Description	Unit	SM-10DL	SM-15DL	SM-20DL	SM-30DL	SM-40DL	SM-50DL	SM-60DL	SM-80DL	SM-100DL	
Capacity (F&A 100°C)	kg / hr	1000	1500	2000	3000	4000	5000	6000	8000	10000	
Design Pressure (SVLOP)	kg / cm ² g	10.54/17.5									
Efficiency		As per BS 845 Part 1 NCV Basis									
Diesel / Natural gas	%	89									
Natural Gas (with Economiser)	%	94									
Fuel		Diesel / Natural Gas									
Fuel Firing System		Pressure Jet, Mono Bloc (Make - Oilon)									
Fuel Consumption		As per BS 845 Part 1 NCV Basis									
Diesel / Natural gas	kg / hr / Nm ³ / hr	58/71	87/107	116/142	173/214	231/285	289/357	347/428	462/571	578/714	
Natural Gas (with Economiser)	Nm ³ / hr	68	101	135	203	270	338	405	541	676	
Connected Electrical Load		10.54/17.5									
Diesel	kW	4.2	4.9	6.7	9.0	11.0	13.5	17.0	19.2	28.5	
Natural Gas	kW	4.2	4.9	6.7	9.0	11.0	12.0	15.5	17.0	24.5	
Dimensions & Weight		As per BS 845 Part 1 NCV Basis									
A	mm	3840	4370	4602	5131	5420	5938	6608	7158	7698	
B	mm	2235	2350	2364	2456	2700	2848	2998	3079	3326	
C	mm	2160	2180	2300	2300	2660	2660	2810	2950	3150	
D	mm	1500	1850	1850	2200	2450	2700	3200	3600	4000	
E	mm	3325	3840	3825	4325	4625	4875	5425	5975	6475	
F	mm	2020	2150	2100	2100	2370	2400	2550	2650	2850	
G	mm	2653	2733	2727	2853	3273	3273	3473	3573	3838	
Chimney Top Diameter	mm	350	400	400	450	550	600	650	700	800	
Dry Weight (10.54 / 17.5)	tonne	4.5 / 5.0	5.5 / 6.0	5.8 / 6.5	7.0 / 8.5	9.1 / 10.7	10.0 / 12.0	12.0 / 14.0	14.0 / 17.0	17.0 / 20.5	
Flooded weight (10.54/17.5)	tonne	8.7 / 9.2	10.8 / 11.5	10.9 / 11.6	14.0 / 15.2	18.5 / 20.0	19.50 / 21.5	24.5 / 26.5	28.3 / 30.8	35.7 / 39.0	

Note : Design Standard-IBR. Efficiency is calculated based on NCV of Diesel as 10500 kcal/kg and Natural Gas as 8500 kcal/Nm³. Economiser is recommended as HRU for NG firing. Above mentioned weight and dimensions may vary with actuals. Please refer to offer document for more details.

General arrangement



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Thermax Business Portfolio

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- Cooling
- Power Generation
- Air Pollution Control
- Chemicals
- Water & Wastewater Solutions
- Solar
- Specialised Services

