

ZYW Horizontal Oil-fired/Exhaust Gas Composite Boiler Series

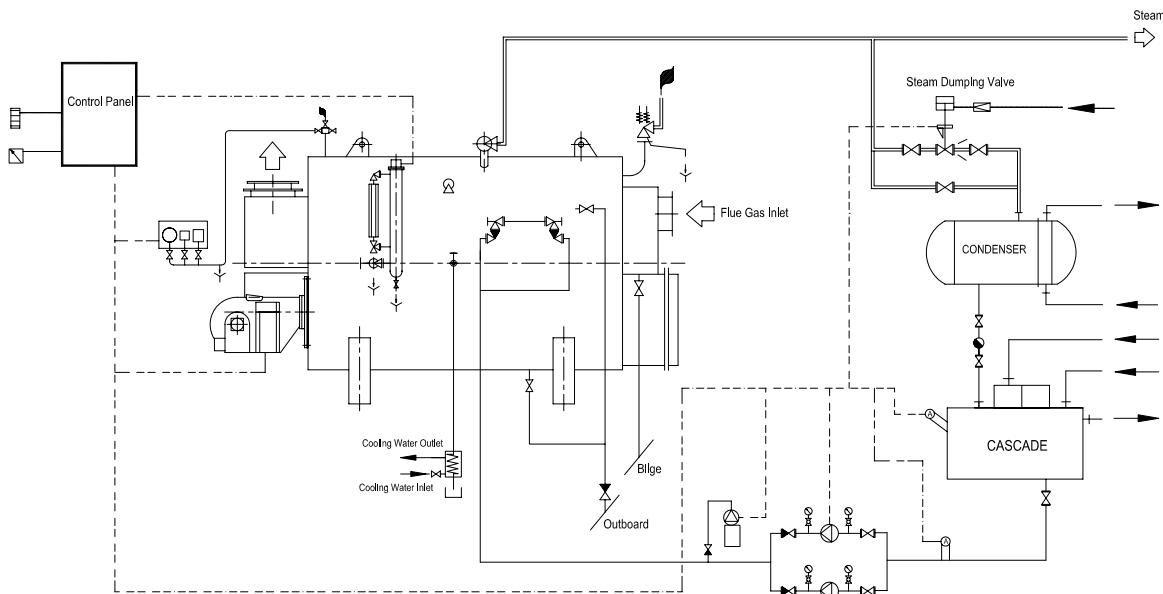
ZYW is horizontal type oil-fired/exhaust gas composite boiler, generating saturated steam by means of burning of fuel oil and as well as recovering waste heat from main engine's flue gas for energy saving, applicable for shipboard heating of heavy fuel oil, jacket cooling water, oil tanks, domestic water, air-conditioning, etc.

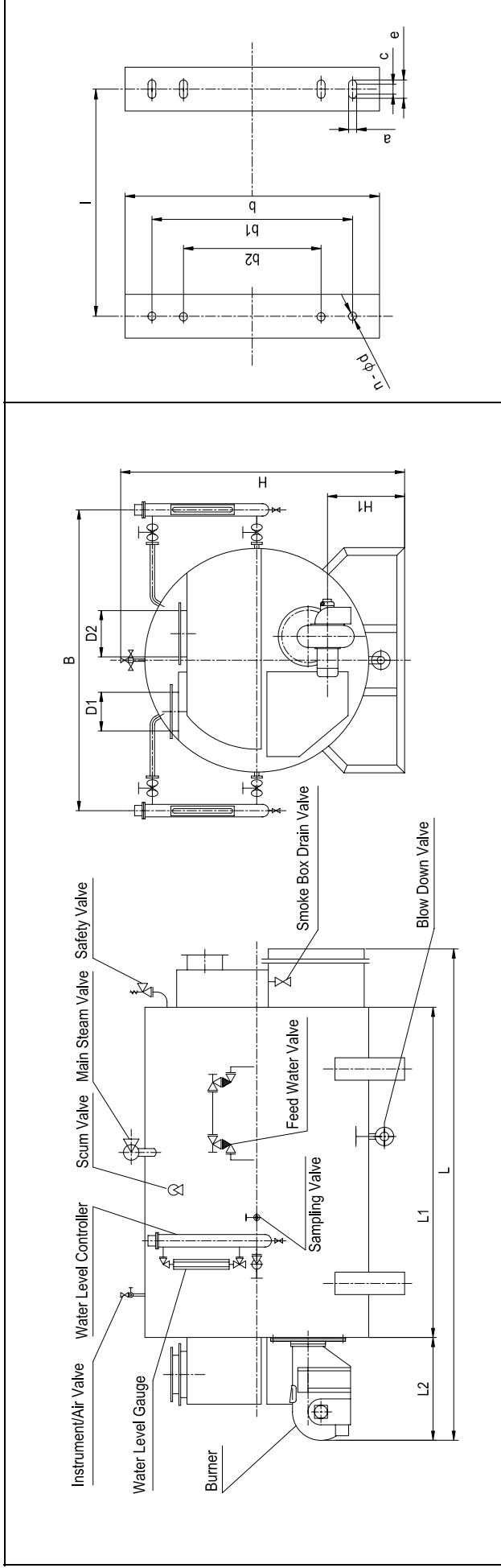
The boilers feature automatic control and fail-safe design for unmanned operation of modern ships. Alternatively, the boilers can be operated manually in case of emergency or cold starting.

Boiler Construction

ZYW type boiler is assembled 100% by welding, the boiler shell and inner cores forms the water/steam chamber. The inner cores are consisted of two heat exchange areas, i.e. oil-fired section and exhaust gas section: The oil-fired section include a corrugated furnace in the boiler front and connected to a cluster of smoke tubes on top; while the exhaust gas section is composed of smoke tubes, based on steam output versus main engine flue gas data. All parts of the boiler are accessible with hatches for ease of maintenance and cleaning.

Piping Schematic





Boiler Type	Technical data & dimensions (mm)										Connection size (mm)					Foundation size (mm)										
	Steam output (kg/h)	Heat exchange surface (m ²)	Working pressure (MPa)	B	D1	D2	H	H1	L	L1	L2	Weight (kg)	Water volume (m ³)	Main steam valve	Safety valve	Feed water valve	Blow down/ scum valve	Drain valve	a	b	b1	b2	c	e	l	n-d
ZYW0.5/15-0.5	500	15	0.5	1650	DN200	DN250	1945	655	3430	2080	600	3500	1.5	DN50	DN65	DN25	DN25	DN25	26	1350	1100	600	19	45	1450	4-Ø26
ZYW1.0/36-0.5	1000	36	0.5	2000	DN300	DN350	2000	495	3620	2500	720	5300	2.8	DN80	DN90	DN32	DN25	DN25	32	1600	1300	940	4	38	1640	4-Ø26
ZYW1.0/36-0.7	1000	36	0.7	2000	DN300	DN350	2000	495	3620	2500	720	5500	2.8	DN80	DN90	DN32	DN25	DN25	32	1600	1300	940	4	38	1640	4-Ø26

Note:

1. Boilers are delivered based on a technical specification agreed with the customer who specified technical requirements, scope of delivery and classification.
2. Basic design data should include boiler model, type, specifications, steam output, working pressure, fuel oil type, feed water temperature, power supply, etc.; furthermore, main engine data, such as engine type, power, flue gas quantity/temperature, permissible pressure resistance, etc. should be provided.
3. Specific requirements beyond standard on request.