



VH BOILER AND ENERGY SYSTEM SDN. BHD.

(1062371-K)

Office and Fabrication Facility:

No. 3, Jalan KPK 4/1, Kawasan Perindustrian Kundang, Kundang Jaya, 48020 Rawang, Selangor Darul Ehsan, Malaysia.

Tel: +603-6087 4398 Fax: +603-6087 4298

Product Specifications

Boiler Type	Bi Drum Water Tube
Boiler Capacity	Up to 60,000 kg/hr (existing projects)
Working Pressure	Up to 40 barg (existing projects)
Final Steam Temperature	<ul style="list-style-type: none"> - Saturated Steam - Superheated Steam: 380 C (existing projects)
Boiler Fuel	Biomass: Palm mesocarp fiber, palm kernel shell, shredded palm empty fruit bunch fiber, etc.
Fuel Burning Equipment	<ul style="list-style-type: none"> - Fixed grate - Reciprocating grate - Vibrating grate - Travelling grate
Control System	<ol style="list-style-type: none"> 1. Combustion Control System – Boiler Pressure Control 2. Water Level Control System – Single Element or Three Element
Heat Recovery Equipment	<ul style="list-style-type: none"> - Economiser - Air Preheater
Material of Construction	<ol style="list-style-type: none"> 1. Boiler Drum – Carbon Steel (A516 Gr. 70N or eq.) 2. Water Wall Header – Carbon Steel (A106 Gr. B) 3. Boiler Tubes – Carbon Steel (BS 3059-Pt. 1-Gr. 320, BS 3059-Pt. 2-Gr. 360) 4. Superheater Tubes – Alloy Steel (BS 3059-Pt. 2-Gr. 620, BS 3059-Pt. 2-Gr. 622) 5. Support Structure, Platform & Access Galleries – Mild Steel 6. Air and Gas Ducting – Mild Steel / Stainless Steel 7. Chimney – Mild Steel / Stainless Steel
Boiler Draught System	<ol style="list-style-type: none"> 1. Induced draught fan 2. Forced draught fan 3. Secondary air fan 4. Fuel feeder fan 5. Pneumatic cylinder driven damper
Blowdown System	<ol style="list-style-type: none"> 1. Manual rapid-action blowdown 2. Timer-based blowdown
Construction of Boiler Enclosure	<ol style="list-style-type: none"> 1. Spaced water wall tube lined with refractory tiles, insulating tiles, and rockwool insulation 2. Membrane panel water wall lined with rockwool insulation
Ash Discharge System	Conveyor system to screw type and scrapper type



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	Senarai Kod Rekabentuk	Nama Kod
1	BS 1113: 1999	Specification for Design and Manufacture of Water-Tube Steam Generating Plant (Including Superheaters, Reheaters and Steel Tube Economizers)
2	BS 2790: 1992	Specification for Design and Manufacture of Shell Boilers of Welded Construction
3	BS EN 12952	Water-Tube Boilers and Auxiliary Installations
4	BS EN 12953	Shell Boilers
5	ASME Boiler And Pressure Vessel Code - Section I	Rules For Construction of Power Boilers
6	ASME Boiler And Pressure Vessel Code - Section VIII - Div. 1	Rules For Construction of Pressure Vessels - Division 1