



TITAN MCH

HORIZONTAL COMBINATION BOILER



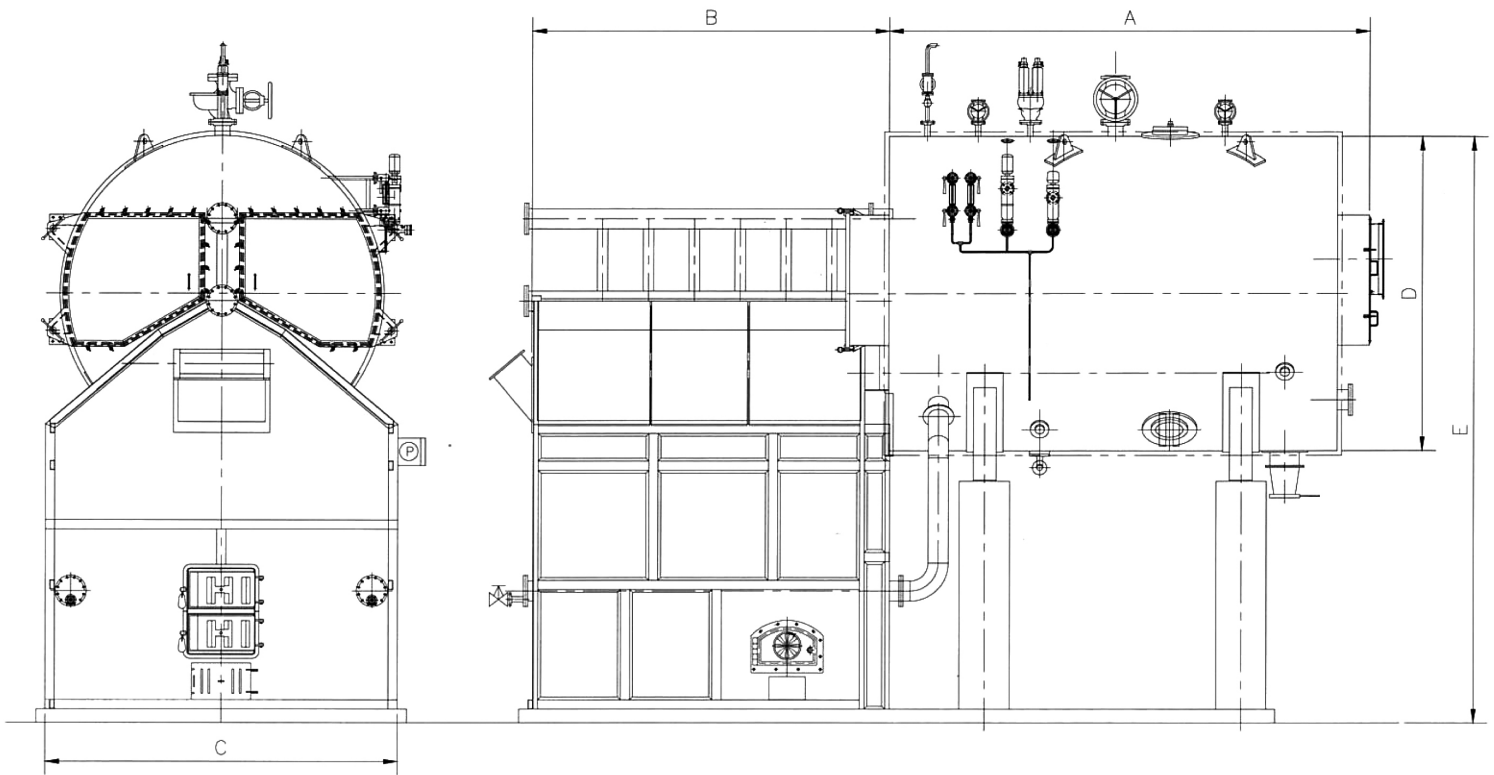
The Boiler consists of a fire-tube main body and a water tube furnace section providing flexibility in the kind of solid waste fuel that can be fired with the unit. Its compact design is made possible with the factory fabricated fire-tube boiler body that requires only flange connections to the water-tube section at site. The boiler is built to burn a wide variety of production waste such as wood chips and shaving, bagasse, coffee hulls, palm shell, fibre and etc.

Construction Features

1. Reverse flame, wetback boiler
2. Compact design
3. Easily accessible internals
4. Manufactured under high standards and inspected under Lloyd's Register of Shipping

After Sales Services

1. Backed by a strong team of service technicians
2. Services include commissioning, servicing, breakdowns and routine maintenance
3. Comprehensive spare parts available at local warehouse



BOILER MODEL: 'MCH'			MCH 5	MCH 6	MCH 8	MCH 10	MCH 12	MCH 15
BOILER RATING		KW	3134	3761	5015	6269	7523	9403
F & A 100°C (212°F)		KG/HR	5000	6000	8000	10000	12000	15000
		LBS/HR	11023	13228	17637	22046	26455	33069
LEADING DIMENSION	A	MM	4500	4638	5088	5240	5300	5360
	B	MM	2850	3225	3526	4288	4420	4649
	C	MM	2980	3267	3386	3844	4050	4262
	D	MM	2680	3002	3186	3426	3840	4016
	E	MM	5750	6147	6280	6394	6860	8452

SALES OFFICE:



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MECHMAR BOILERS SDN BHD a wholly owned subsidiary of **MECHMAR CORPORATION (M) BERHAD**, the market leader in Malaysia for boiler manufacturing achieved yet another distinction with the award of ISO 9002 certification Lloyd's Registration Quality Assurance making it the first boiler manufacturing company in Malaysia to attain this recognition.

With Lloyd's Class I certification for its product and ISO 9002 certification for its quality management system, **MECHMAR BOILERS SDN BHD** is now among the elite group of boiler manufacturing company in the world. For its high quality workmanship and consistency in quality, **MECHMAR BOILERS SDN BHD** is already a holder of CLASS I fabricator licence for pressure vessel manufacturing from Lloyd's Register of Shipping since 1985.

MECHMAR BOILERS SDN BHD started operation at Lot 14, Jalan Timah, Pasir Gudang Industrial Estate, Johore in 1977 and to date have produced more than 3000 units of boilers ranging from 500 lb to above 132,000 lb capacity of steam per hour. It also manufactures Hot Water Boilers, Thermal Fluid Heaters and other pressure vessel.

The products are developed and marketed by **MECHMAR COCHRAN BOILERS (M) SDN BHD**, another wholly owned subsidiary of **MECHMAR CORPORATION (M) BHD**.

MECHMAR COCHRAN BOILERS (M) SDN BHD markets a wide range of boilers, thermal oil heaters, steam plant and power plant installation. It operate from offices and service centres in Shah Alam, Johore ann Prai to ensure excellent after sales service and prompt supply of spares.



TITAN MCH

Horizontal Combination Boiler



CONSTRUCTION FEATURES

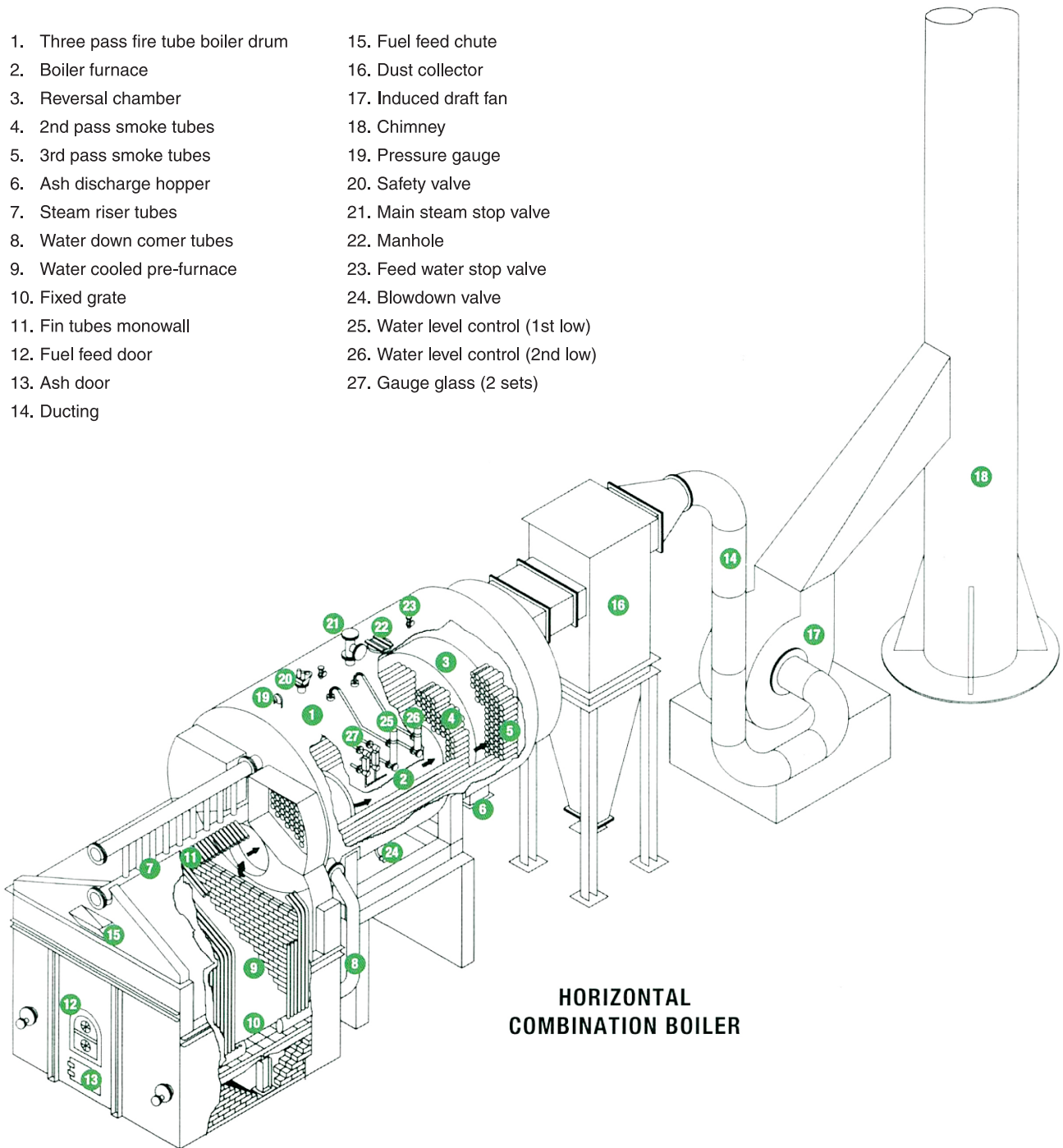
The Horizontal Combination Boiler is of latest design, capable of high efficiency operation when correctly installed and commissioned. The boiler is of class I all welded construction, x-rayed and hydrostatic tested in accordance with BS 2790 requirements.

All tubes are expanded and welded into the tube plates. Two 400 x 300mm manholes are provided each at the top and bottom of shell boiler. Two handholes are also provided, one at each side of the boiler shell to permit visual inspection of the flue tubes.

The design also allows complete access to the furnace and combustion chamber through the access opening at the back which greatly facilitates inspection and cleaning.



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|-------------------------------------|-----------------------------------|
| 1. Three pass fire tube boiler drum | 15. Fuel feed chute |
| 2. Boiler furnace | 16. Dust collector |
| 3. Reversal chamber | 17. Induced draft fan |
| 4. 2nd pass smoke tubes | 18. Chimney |
| 5. 3rd pass smoke tubes | 19. Pressure gauge |
| 6. Ash discharge hopper | 20. Safety valve |
| 7. Steam riser tubes | 21. Main steam stop valve |
| 8. Water down comer tubes | 22. Manhole |
| 9. Water cooled pre-furnace | 23. Feed water stop valve |
| 10. Fixed grate | 24. Blowdown valve |
| 11. Fin tubes monowall | 25. Water level control (1st low) |
| 12. Fuel feed door | 26. Water level control (2nd low) |
| 13. Ash door | 27. Gauge glass (2 sets) |
| 14. Ducting | |



**HORIZONTAL
COMBINATION BOILER**

OUTSTANDING FEATURES

The outstanding features of the boiler include:

- Rapid steam raising
- Higher thermal efficiency, hence lower fuel consumption
- Occupies small floor area
- Requires a simple foundation
- No external brickwork
- Easy to install
- Low installation cost

INDUSTRIAL APPLICATIONS

Factories for manufacture of:

- Plywood
- Wood furniture
- Timber moulding
- Tyre - moulding
- Tyre - moulding
- Rubber works
- Paper vax
- Meehon (vermicelli)
- Kiln drier timber and others where steam is utilised for process-heating