



TITAN MB

PACKAGE STEAM BOILER



Titan MB package steam boilers are the most popular range of modulating boilers in the region.

- Suitable for fuel oils and gas
- High/ Low or Modulating firing controls
- High efficiency with excellent heat transfer capabilities
- High heating output against volume and weight
- Capable of starting from cold without thermal stress
- Design and manufactured to British Standard specifications

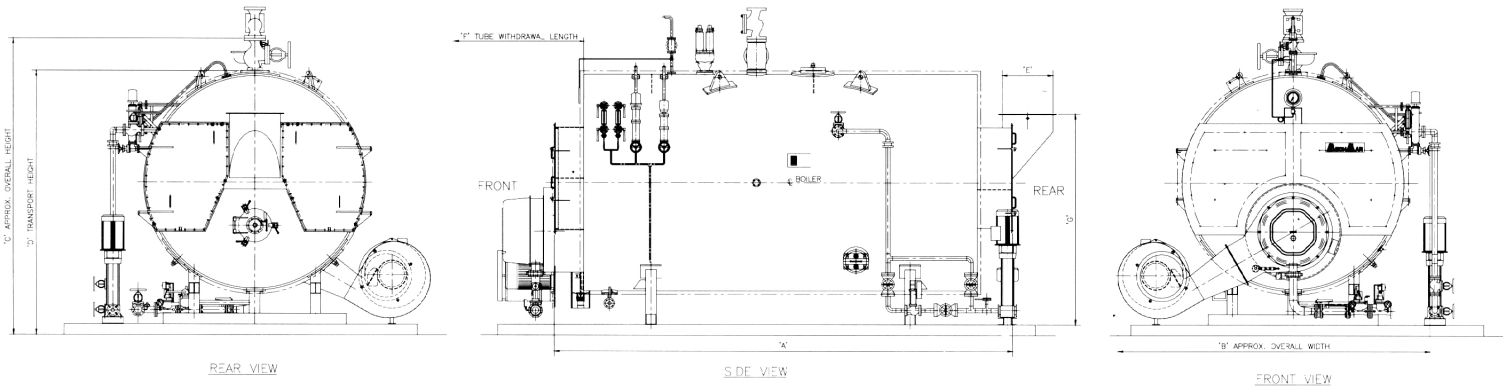
Construction Features

1. 3-Pass, wetback steam 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

Steam Capacities	2270 kg/hr to 31750 kg/hr
Working Pressure (max)	10.34 bar / 17.24 bar



BOILER MODEL			MB500	MB800	MB1000	MB1250	MB1500	MB1750	MB2000	MB2250	MB2500	MB2750
BOILER CAPACITY	lb/hr F&A 212°F		5000	8000	10000	12500	15000	17500	20000	22500	25000	27500
	kg/hr F&A 100°C		2268	3629	4536	5670	6804	7938	9072	10206	11340	12474
POWER OUTPUT	kW		1421	2273	2841	3551	4262	4972	5682	6393	7103	7813
DIMENSION	'A'	mm	4100	4530	4760	5010	5210	5420	5760	5980	6290	6370
	'B'	mm	2080	2320	2500	2840	2850	3720	3760	3850	3900	4420
	'C'	mm	2780	3020	3050	3420	3500	3560	3680	3740	3930	4110
	'D'	mm	2470	2670	2700	3020	3100	3160	3200	3260	3450	3510
	'E'	mm	475	530	580	650	680	720	775	820	870	890
	'F'	mm	3150	3570	3800	4050	4250	4450	4850	5010	5255	5390
	'G'	mm	2020	2270	2310	2500	2510	2570	2630	2750	2540	2930
BOILER DRY WEIGHT	kg		7191	10162	13370	15360	16940	19610	20950	25090	27010	29360
BOILER WEIGHT AT NWL	kg		7200	16350	23970	26220	30000	33770	37500	42960	47680	52350

BOILER MODEL			MB3000	MB3500	MB4000	MB4500	MB5000	MB5500	MB6000	MB6500	MB7000
BOILER CAPACITY	lb/hr F&A 212°F		30000	35000	40000	45000	50000	55000	60000	65000	70000
	kg/hr F&A 100°C		13608	15876	18144	20412	22680	24948	27216	29484	31752
POWER OUTPUT	kW		8523	9944	11365	12785	14206	15626	17047	18467	19888
DIMENSION	'A'	mm	6510	6750	7610	7270	7520	7700	7700	8100	8100
	'B'	mm	4490	4540	4700	6300	6350	6920	6980	7010	6130
	'C'	mm	4180	4360	4710	4920	5320	5440	5550	5930	6160
	'D'	mm	3580	3760	4110	4320	4590	4710	4820	5200	5430
	'E'	mm	910	970	1060	1160	1180	1210	1280	1340	1400
	'F'	mm	5530	5780	6650	5390	5590	5790	5650	6200	6000
	'G'	mm	2990	3190	3350	3730	3880	4060	4260	4390	4610
BOILER DRY WEIGHT	kg		32430	36950	42220	50140	55950	63420	67940	75240	80720
BOILER WEIGHT AT NWL	kg		56160	64350	76960	85600	94690	105220	116550	120820	141200

Note: 1. All dimensions and weights are approximated only based on boiler working pressure of 150 psig.

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.

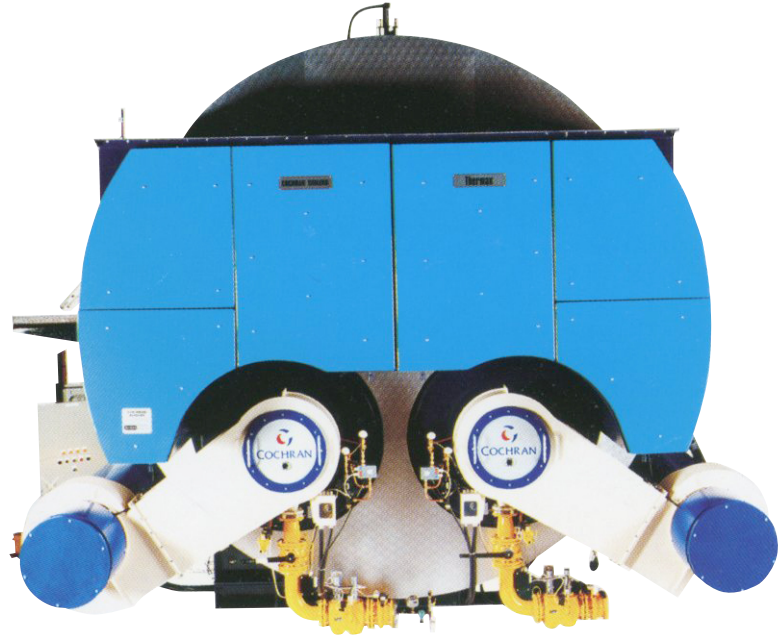
The products are developed and marketed by **MECHMAR COCHRAN BOILERS (M) SDN BHD**, another wholly owned subsidiary of **MECHMAR CORPORATION (M) BHD**.

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 MB

Package Steam Boiler



DESIGN CONCEPT

- 3-pass conventional wetback.
- Manufactured to B.S. 2790 with the latest amendment.
- Robust design and construction for long life.
- Total package incorporates:
Combustion equipment, feed water pump and controls, control panel, all necessary valves & fittings.

SHELL

- Cylindrical and of welded construction.
- Wetback reversal chamber is fitted to the end of the furnace.

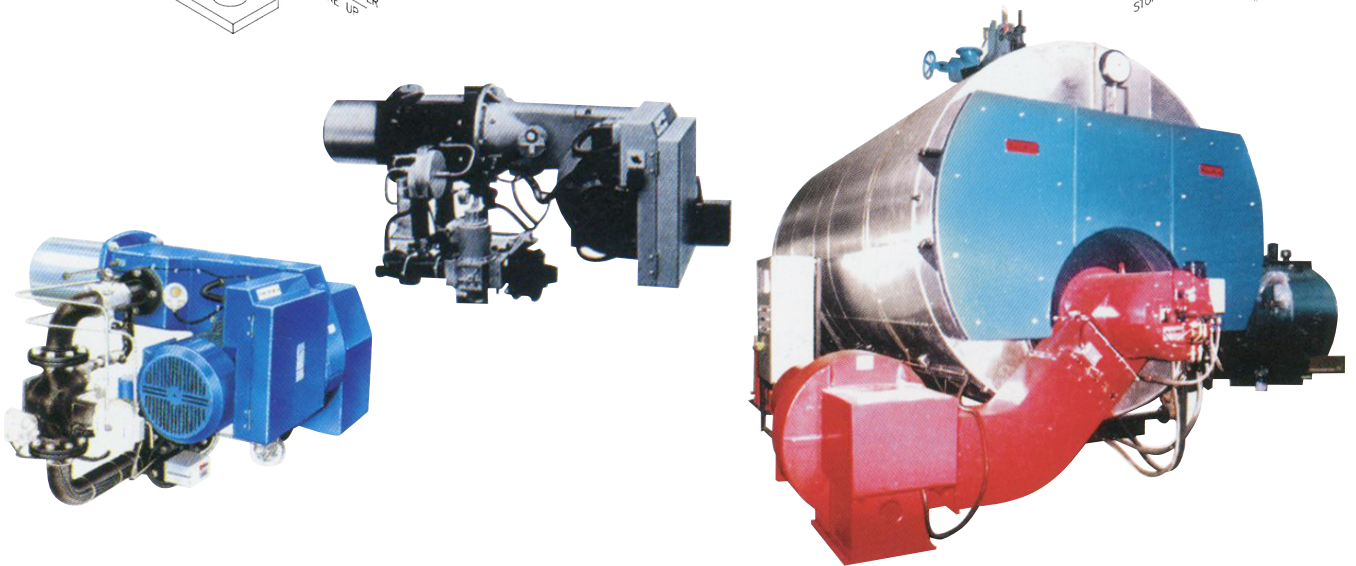
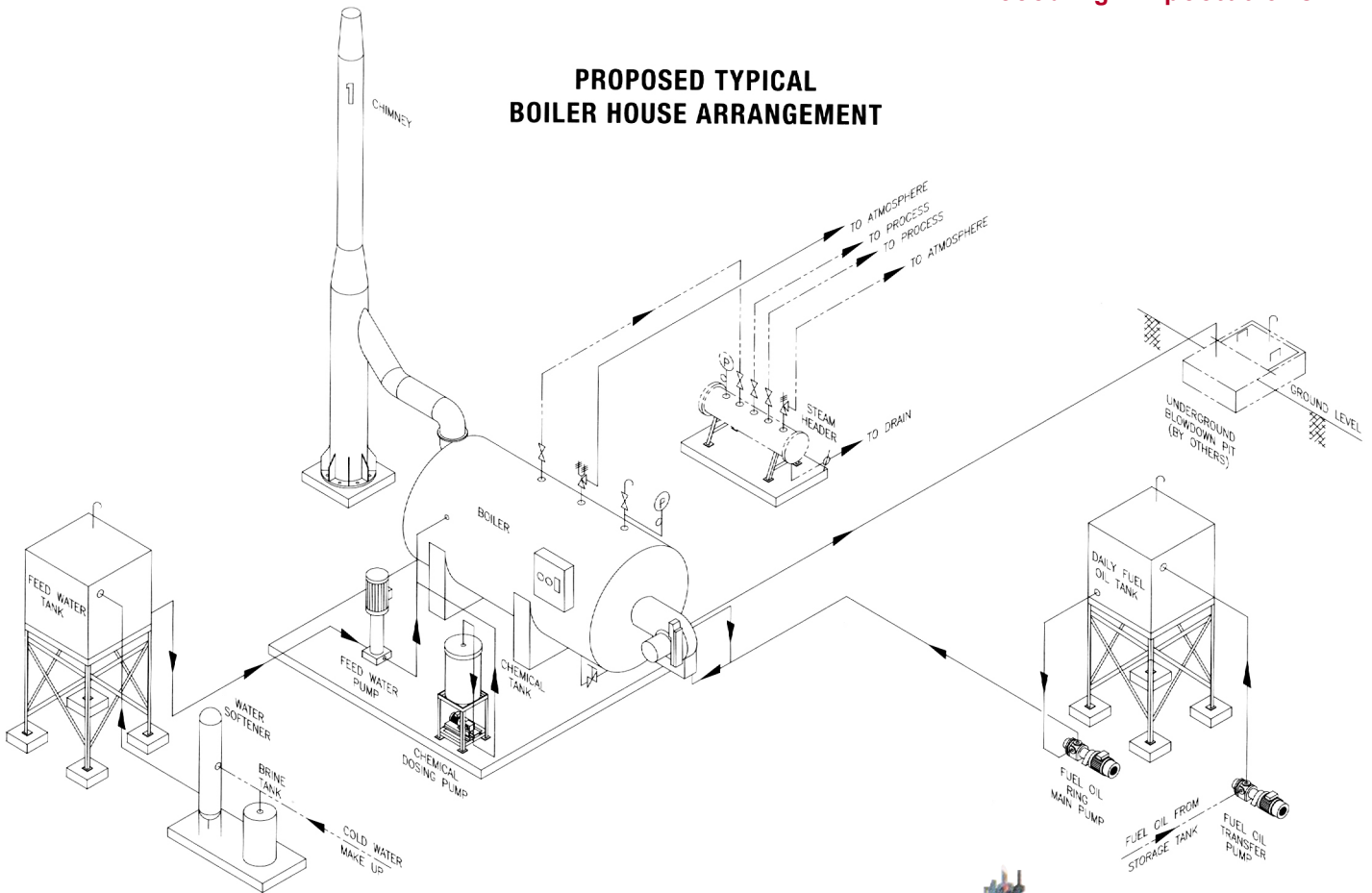
FURNACE

- Single or twin combustion furnace.
- Accessible through large opening at the rear end plate and wetback reversal chamber rear plate.
- Bowling hoop design for even radiation heat transfer, and to accommodate expansion and contraction of the furnace. This allows the use of thinner plate material as opposed to the traditional corrugated furnace.

REVERSAL CHAMBER

- The combustion chamber is fully submerged and comprises a wrapper plate with welded seam. The tubeplate and endplate are both inset and welded to the wrapper. Stay bars are fitted between and welded into the endplate and the boiler rear tubeplate forming the 'wet back'.

**PROPOSED TYPICAL
BOILER HOUSE ARRANGEMENT**



COMBUSTION

- Range of reliable, efficient and well-proven burners imported from United Kingdom.
- Fully automatic forced draught burner including fuel atomizer & ignition. Optional for silencer and control linkages.
- Burner can be either mechanical pressure jet or rotary cup design suitable for oil, gas, and dual fuel firing.

FULL RANGE OF SUPPORT SERVICES

- Nationwide team of service technicians.
- Service includes commissioning, service contract, breakdown calls, boiler / burner servicing and routine maintenance.
- Full support through our service / spares division.

SAFETY FEATURES

- Designed generally to guidance note PM5 from the Health and Safety Executive (or equivalent international standards).
- According to Factories and Machinery Act 1967 - Factories and Machinery (Steam Boiler and unfired pressure vessel) regulations, 1970.