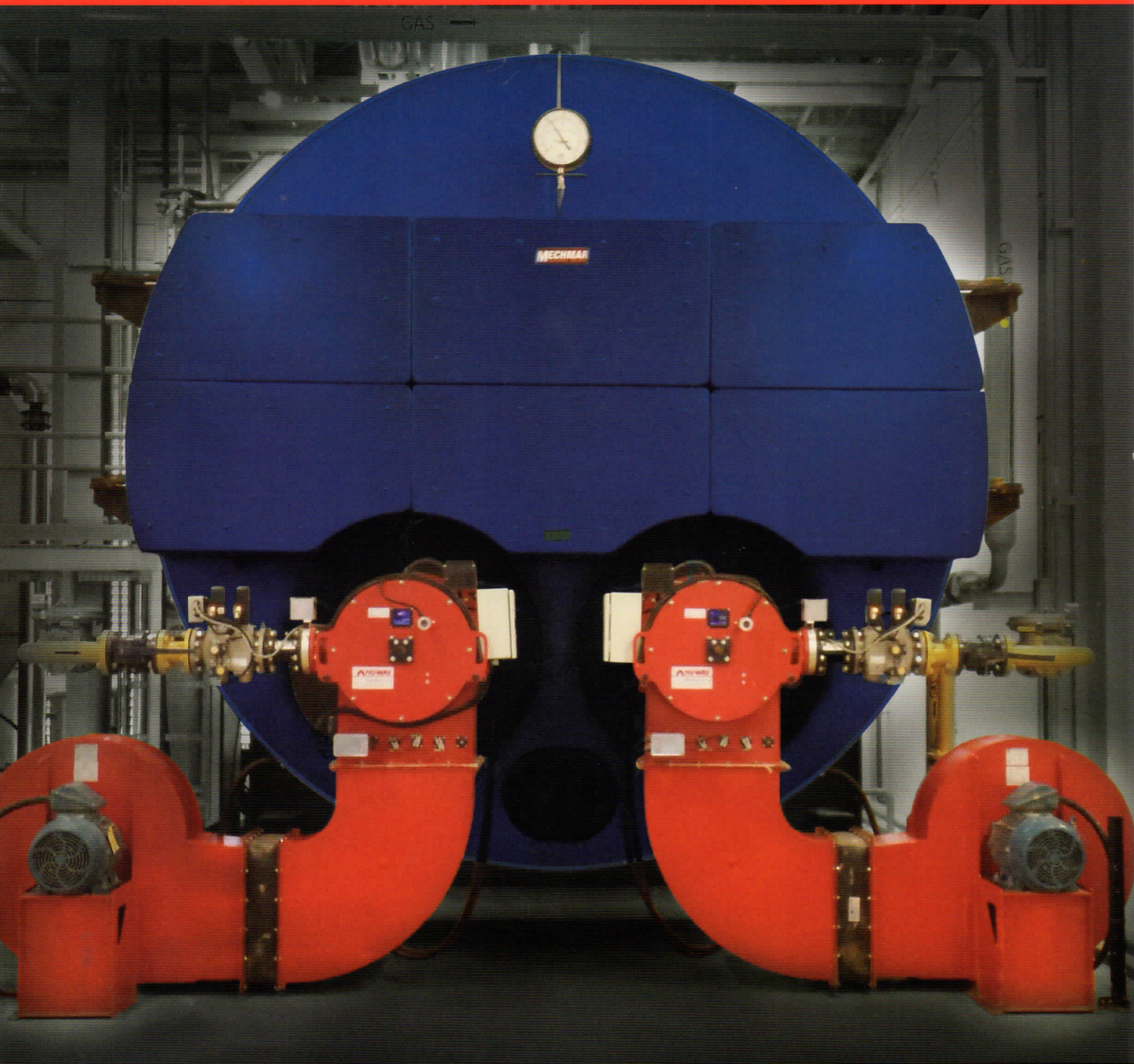




TITANMB

PACKAGE STEAM BOILER

Standard Steam Capacities: 5,000 – 70,000 lbs/hr, 2,268 – 31,751 kg/hr
Working Pressure: 150 psig (10.34 barg), 250 psig (17.24 barg)

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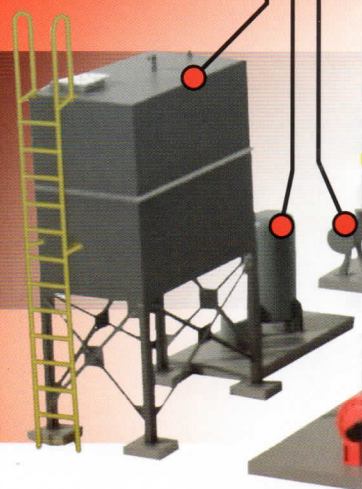
TITANMB

- Suitable for a wide range of industries
- Suitable for oil, gas or dual fuel with high efficiency level and excellent heat transfer capabilities
- High output for given volume and weight
- High / Low or modulating control system

Steam Header

Softner

Feed Water
Tank



DESIGN CONCEPT

- 3-pass conventional wetback design.
- Robust design and construction for longer life span.
- Fully automated operation system.
- Stable at severe load fluctuation.
- Low operating maintenance cost.
- Ideal for factory with space limitation for steam generation.

SHELL

- Horizontal cylindrical welded construction.
- Wetback reversal chamber is fitted to the end of the furnace.

FURNACE

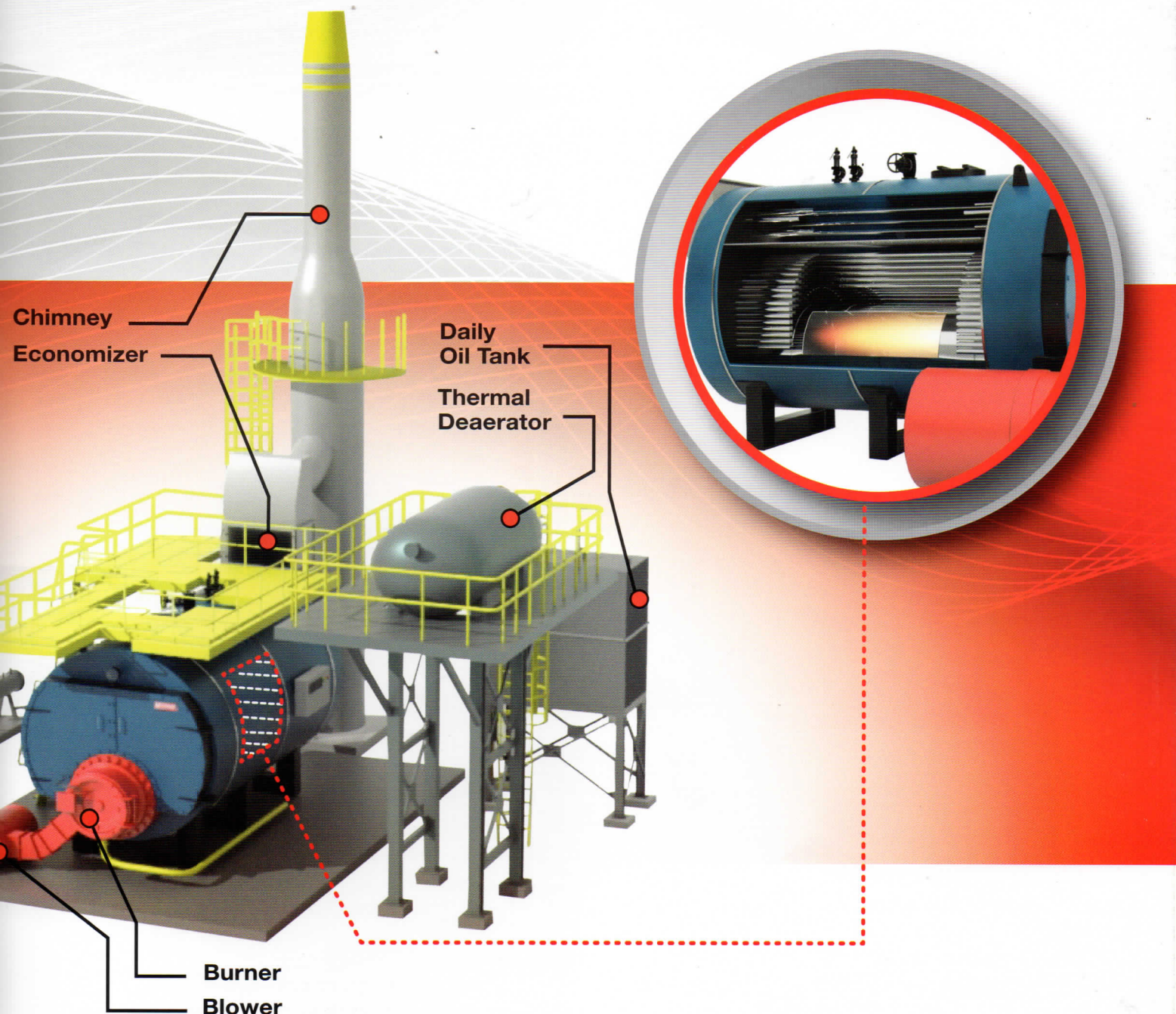
- Single or twin combustion furnace.
- Accessible through large opening at the rear end plate and wetback reversal chamber rear plate.
- Bowling hoop design for even radiation heat transfer, and to accommodate expansion and contraction of the furnace.

COMBUSTION

- Range of reliable, efficient and well-proven burners.
- Fully automatic forced draught burner including fuel atomizer and 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.
- Can be equipped with higher turn-down ratio burner to improve plant operation efficiency.

OPTIONAL FEATURES

- Economizer to maximise thermal efficiency
- Blowdown recovery system
- TDS blowdown system
- Thermal deaerator
- 3-element control system



DESIGNED AND MANUFACTURED TO INTERNATIONAL STANDARDS (BS2790)

- The Titan MB's boiler pressure parts are fabricated by our dedicated in-house manufacturing facilities. ISO 9001 certified and licensed by Lloyd's Register of Shipping as a Class 1 Pressure Vessel Manufacturer the Titan MB is fabricated to the highest possible standards. In addition, all boilers manufactured are subjected to Third Party Inspection by Lloyd's Register.

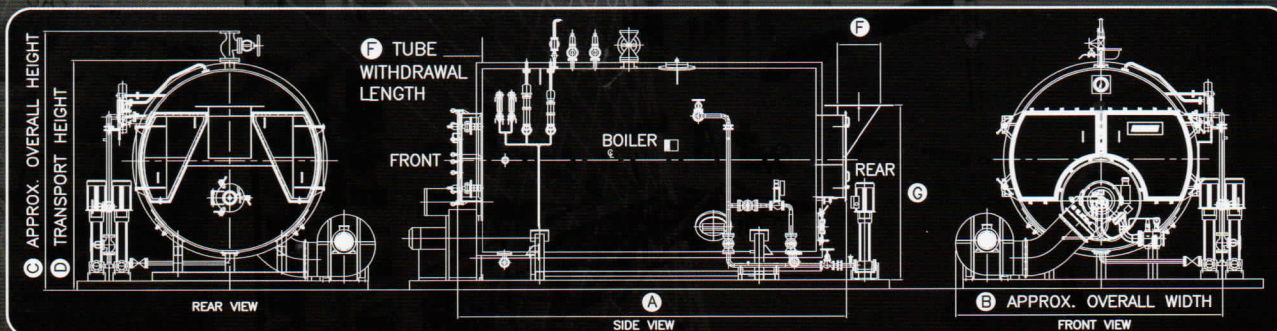
COMMISSIONING & AFTER-SALES

- We have a dedicated and skilled servicing team to commission and provide after-sales support & service.

INDUSTRIAL APPLICATION

- Food and beverage
- Edible oil refineries
- Biodiesel processing
- Textiles
- Paper and packaging
- Chemical
- All others general industries

TITANMB



		Single Furnace											
MB MODEL		500	800	1000	1250	1500	1750	2000	2250	2500	2750		
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		
DIMENSIONS	A	mm	3868	4535	4650	5010	5210	5420	5760	5980	6290	6400	
	B	mm	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	
	C	mm	2800	3000	3200	3600	3800	3900	4000	4100	4200	4350	
	D	mm	2500	2750	2770	3050	3150	3300	3400	3550	3700	3825	
	E	mm	457	530	465 SQ	650	635	720	570 SQ	610 SQ	650 SQ	685 SQ	
	F	mm	3150	3570	3800	4050	4250	4450	4850	5010	5255	5390	
	G	mm	2020	2251	2200	2500	2500	2590	2745	2845	2775	2830	
BOILER WORKING PRESSURE		150	250	150	250	150	250	150	250	150	250	150	250
MAIN STEAM VALVE SIZE		NB	80	100	100	100	125	125	150	150	150	200	150
SAFETY VALVE #1 SIZE		DN	25	25	25	25	32	32	40	40	40	40	40
SAFETY VALVE #1 OUTLET		NB	40	40	40	40	50	50	65	65	65	65	65
SAFETY VALVE #2 SIZE		DN	25	25	25	32	32	40	40	40	50	50	50
SAFETY VALVE #2 OUTLET		NB	40	40	40	50	50	65	65	80	80	80	80
BLOWDOWN VALVE SIZE		NB	50	50	50	50	50	50	50	50	50	50	50
FEED WATER PUMP INLET		NB	25	25	25	32	40	40	50	50	50	50	50
FEED WATER PUMP MOTOR		kW	3	4	3	5.5	5.5	7.5	15	15	11	15	15
DRY WEIGHT		kg	7191	10440	13370	15360	16940	18610	22127	25090	27010	29360	
NWL WEIGHT		kg	10671	18620	23970	26220	30000	33770	35500	42960	47680	52350	
FOUNDATION WEIGHT		kg	14000	20210	26119	32850	37225	42787	45680	49960	54000	60582	

		Single Furnace											
MB MODEL		3000	3500	4000	4500	5000	5500	6000	6500	7000			
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			
DIMENSIONS	A	mm	6510	6750	7300	7300	7400	7600	7300	8313	8200		
	B	mm	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA		
	C	mm	4400	4650	4990	5750	5900	6000	5800	6000	6200		
	D	mm	3800	3900	4110	5020	5050	5070	5100	5300	5500		
	E	mm	705 SQ	760 SQ	900 x 865	900 x 600	1000 x 700	1000 x 700	1160	1300	1663		
	F	mm	5700	5900	6000	6150	6420	6660	5732	6200	6200		
	G	mm	2990	3025	3350	4187	4151	4300	4300	4390	4300		
BOILER WORKING PRESSURE		150	250	150	250	150	250	150	250	150	250	150	250
MAIN STEAM VALVE SIZE		NB	200	150	200	150	200	200	200	250	200	250	200
SAFETY VALVE #1 SIZE		DN	40	40	65	50	65	65	65	65	65	65	65
SAFETY VALVE #1 OUTLET		NB	65	65	100	80	100	80	100	100	100	100	100
SAFETY VALVE #2 SIZE		DN	40	40	32	40	50	50	65	65	80	80	65
SAFETY VALVE #2 OUTLET		NB	65	65	50	65	80	80	100	100	150	100	100
BLOWDOWN VALVE SIZE		NB	50	50	50	50	50	50	50	50	50	50	50
FEED WATER PUMP INLET		NB	50	50	50	65	65	65	80	80	80	80	80
FEED WATER PUMP MOTOR		kW	11	15	15	18.5	22	15	22	30	15	30	22
DRY WEIGHT		kg	32430	36950	42220	50140	55950	63420	72328	75240	80720		
NWL WEIGHT		kg	52384	62745	70834	74245	79474	85727	108300	125924	133530		
FOUNDATION WEIGHT		kg	70467	76586	83724	90280	96385	102373	120000	152620	168278		

MECHMAR
EMBRACE ENERGY

Mechmar Group

MALAYSIA

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