

HOT WATER BOILER

High output for given volume and weight.
It is capable to start quickly from cold without thermal stress.
Standard working pressures are 65 psig and 150 psig.
Designed and manufactured to latest British
Standard Specifications.

Heat Output

- 117 - 5861 kW (0.4 - 20.0 MBtu/hr)

Maximum Working Pressure

- Standard Model - 65 psig (4.48 barg)
- Special Model - 150 psig (10.34 barg)



TITAN HT



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 by Lloyd's Register of 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 and Prai to ensure excellent after sales service and prompt supply of spares.



TITAN HT

Hot Water Boiler



THE HT MODEL IS BUILT TO CONFORM TO BS2790 OR ANY OTHER INTERNATIONAL STANDARDS ON SPECIAL REQUEST.

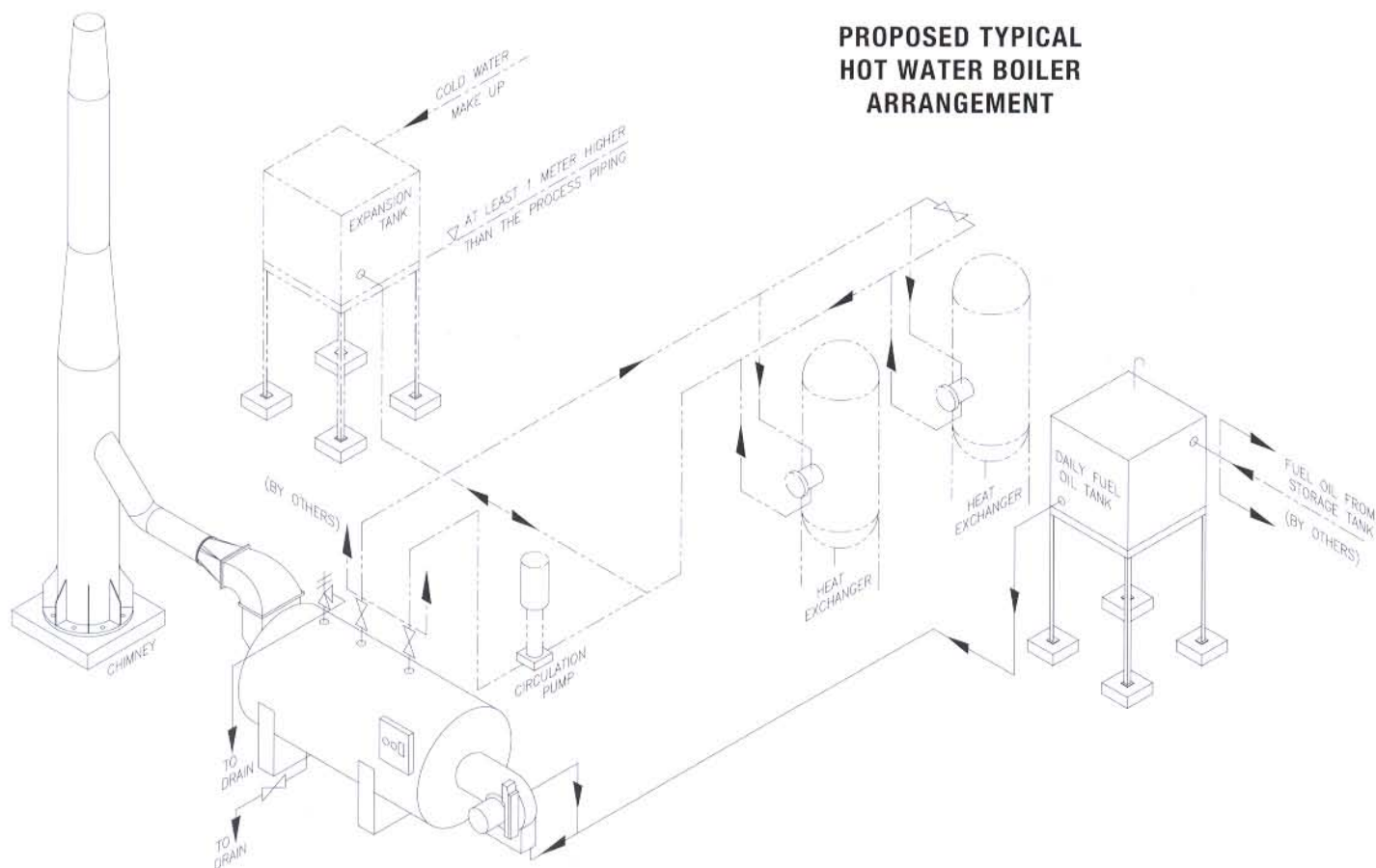
THE BOILER ADOPTS THE REVERSAL-FLAME PRINCIPLE OF COMBUSTION WHERE THE HOT GASSES MAKE TWO PASSES WITHIN THE PRESSURISED COMBUSTION CHAMBER AND THE THIRD (FINAL) PASS THROUGH THE FIRE-TUBES TO EXIT OUT TO THE CHIMNEY.

THE COMBUSTION CHAMBER IS SUPPORTED BY STAY BARS AT ITS REAR END. IT STANDS CLEAR OF THE BOILER DRUM END PLATE, THUS GIVING RISE TO THE WET-BACK DESIGN. THE DESIGN FEATURE NOT ONLY INCREASES THE HEATING SURFACE OF THE BOILER BUT ALSO KEEPS REFRACTORY WORKS TO A MINIMUM.



TYPICAL APPLICATIONS

Hotels, laundries, industrial heating plants where a copious supply of hot water at constant temperature is required.



**PROPOSED TYPICAL
HOT WATER BOILER
ARRANGEMENT**



FUEL SAVING

- Compactness in construction reduces fuel consumption in warming boiler to working temperature.
- High thermal efficiency in the reversal flame principle of combustion, averaging 83% when burning fuel oil.

VERSATILITY

- Fully automatic operation
- Rapid heating for instant hot water supply following overnight stoppage
- No thermal stress effects as boiler is fully flooded and permits overall uniform expansion.

BOILER CONTROLS

ELECTRICAL

The electrical controls are mounted in a control panel fixed on the side of the boiler and carries the burner control equipment, circulation water pump controls, lockout reset, indicating lights for various starters, alarms, fuses and incoming mains isolator switch.

WATER LEVEL

A flow-switch ensures that the boiler is fully flooded during operation.

TEMPERATURE CONTROL

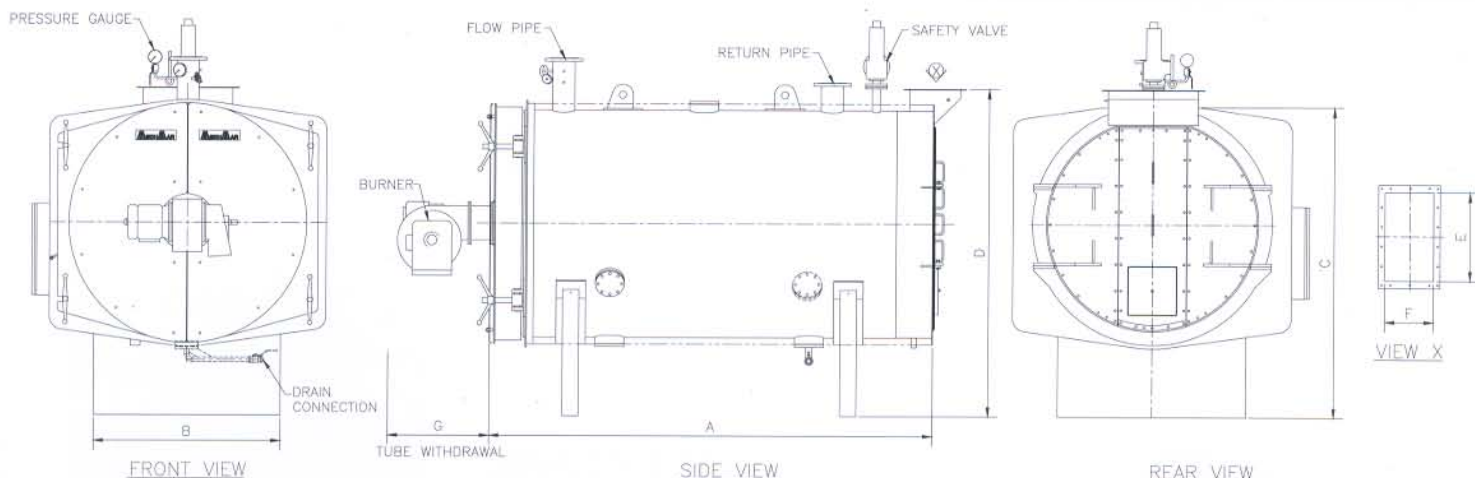
One combined control and safety thermostat to control the maximum temperature of hot water.

BURNER

Fully automatic forced draught type liquid or gaseous fuel burner with ON/OFF or High/Low operation with electronic ignition.

OTHER DISTINCT FEATURES

- Hinged front door on which burner is mounted and which can be opened easily for quick fire-side inspection.
- Low installation cost.
- Compactness in construction saves valuable building space.
- Suitable for liquid or gaseous fuel.
- Easy to clean, inspect and repair due to simplicity in construction.



BOILER MODEL			40	65	100	125	160	200	250	325
OUTPUT		kW	117	190	290	366	470	586	733	1020
DIMENSIONS	'A'	mm	1959	1959	1959	1947	2039	2039	2331	2429
	'B'	mm	1130	1130	1130	1280	1290	1290	1360	1440
	'C'	mm	1325	1325	1325	1459	1480	1480	1565	1655
	'D'	mm	1365	1365	1365	1570	1520	1520	1605	1695
	'E'	mm	305	305	305	305	380	380	460	460
	'F'	mm	178	178	178	178	205	205	215	215
	'G'	mm	2500	2500	2500	2500	2600	2600	2850	2900
FLOW PIPE CONNECTION (NB)		mm	100	100	100	100	100	100	100	125
RETURN PIPE CONNECTION (NB)		mm	100	100	100	100	100	100	100	125
SAFETY VALVE (NB)		mm	15	20	25	25	25	32	32	32
DRY WEIGHTS (approx.)		kg	1745	1745	1780	1780	2345	2345	2740	3135
WATER CAPACITY (approx.)		litres	760	760	760	760	980	980	1100	1500

BOILER MODEL			350	400	500	650	800	1000	1200	2000
OUTPUT		kW	1026	1172	1465	1905	2345	2931	3517	5862
DIMENSIONS	'A'	mm	2519	2519	2779	3086	3444	3800	3827	4730
	'B'	mm	1490	1490	1570	1770	1900	2100	2300	2741
	'C'	mm	1705	1705	1850	2202	2205	2320	2621	2865
	'D'	mm	1745	1745	1890	2105	2245	2360	2786	3067
	'E'	mm	460	460	560	630	770	850	1010	1222
	'F'	mm	300	300	300	330	330	400	416	538
	'G'	mm	3020	3020	3280	3580	4000	4300	4300	5700
FLOW PIPE CONNECTION (NB)		mm	125	125	150	150	150	200	200	200
RETURN PIPE CONNECTION (NB)		mm	125	125	150	150	150	200	200	200
SAFETY VALVE (NB)		mm	40	40	50	50	50	65	65	100
DRY WEIGHTS (approx.)		kg	3135	3620	4322	4799	5907	8000	9000	12245
WATER CAPACITY (approx.)		litres	1500	1600	2000	2000	5062	5590	6410	9650

SALES OFFICES

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