



THERMODYNE ENGINEERING SYSTEMS



ELECTRA

THE ELECTRODE TYPE STEAM BOILER

- ❖ Zero Emissions
- ❖ 100%* Efficiency
- ❖ Compact Design
- ❖ Environment Friendly
- ❖ No Fuel Storage / Handling

OPERATING PRINCIPLE

ELECTRA differs in principle from any other method of heating water or producing steam as the heat is generated within the water itself thereby giving almost 100%* heating efficiency.

CONSTRUCTION

ELECTRA steam boilers are manufactured as a packaged unit mounted on a chassis. Installation comprises the fitting of the steam pipe, feed water line, blow down, drain, safety valve, air vent pipe and the connection of the electrical supply.

The current source consists of specially designed scroll type electrodes for best efficiency and longer life. The boilers can be made conforming to Latest Indian Boiler Regulations or any other code or country specific regulations on request.

FULLY AUTOMATIC

Automatic controls for high steam pressure and high & low water level inside the boiler shell are provided through a fully pre-wired control panel thereby making the operation highly user-friendly and easy.

TECHNICAL SPECIFICATIONS :

Details	Unit	EL-1	EL-2	EL-4	EL-8	EL-16	EL-20	EL-24
OPERATING PARAMETERS								
Steam output F & A 100°C	Kg/hr	55	110	220	440	880	1100	1320
Steam pressure (Max.)	Kg/cm ²	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Electrical Load	KW	35	70	140	280	560	700	840
Heat Output	Kcal/hr	30100	60200	120400	240800	481600	602000	722400
Efficiency*	%	←————— 98 ± 1% —————→						
Start up time	Minutes	←————— 10 to 15 —————→						
Electricity Supply	AC - 3 PHASE : 415 V ± 6%; 50 Hz ± 3%; 4 wire							
<ul style="list-style-type: none"> ❖ Accessories shown in the picture may not be a part of standard supply. ❖ Capacities other than those mentioned above can be offered on request. ❖ Conductivity of water should be strictly maintained in the range of 40 - 60 microhmes/cm. ❖ The above boilers are designed only to work on Alternating Current (AC) source of electricity. ❖ In view of our constant efforts to improve the quality, the above specifications may change without prior notice. 								

*Heating efficiency is almost 100% as the heat is generated within the water. Nett Thermal efficiency is as high as 98%.

Products & Services

- IBR Boilers
- Water Treatment Plants
- Thermic Fluid Heaters
- Air / Water Heaters
- DG Waste Heat Recovery Systems
- Pollution Control Equipments
- Turnkey Projects

Product Spectrum



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