

**Enemalta plc.**  
**Delimara Power Station**

**Fire Tube Boiler (Part of Phase 1 Plant Construction)**

Type: Steambloc 600 R (Fire Tube Horizontal Type)

Fuel: Diesel Oil

Output: 6 tonnes per hour of Dry Saturated Steam at 13 bar gauge.

From Steam Tables,

the Enthalpy of Dry Saturated Steam ( $h_g$ ) at 13 bar gauge is equal to 2790 kJ/kg,

therefore,

$$2,790 \left[ \frac{kJ}{kg} \right] \times 6,000 \left[ \frac{kg}{hr} \right] \times \frac{1}{3600} \left[ \frac{hr}{s} \right] = 4,650 \left[ \frac{kJ}{s} \right] = 4.65 \text{ MW}_{TH}$$

Boiler Steam Output is equivalent to 4.65 MW<sub>TH</sub>.

Enthalpy of water at inlet to boiler (assuming 20°C) is 0.5MW<sub>TH</sub>

Hence Thermal output of Phase 1 Aux boiler is 4.65MW - 0.5MW = **4.15MW<sub>TH</sub>**