

DG/lmg

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HEAT EXCHANGER SPECIFICATION FOR EPA INJECTION AND

EJECTION KICKERS

Plate heat exchanger to the following specification:-

1. Liquid to be cooled - Shell Diala C transformer oil, specific gravity 0,865, viscosity 33 centi-stokes at 20°C, specific heat 0,425 at 0°C, 0,474 at 50°C.

Input temperature = 40°C  
Required output temperature = 20°C  
Flow = 27 litres/min.  
Transferred heat = 10 kW  
Oil pressure (maximum) = 8 kg/cm<sup>2</sup> gauge.

2. Coolant = town water  
Pressure = 3-5 kg/cm<sup>2</sup> gauge  
Input temperature = 10-14°C.  
Discharge = to drain via back-pressure of 0,5 kg/cm<sup>2</sup>  
Required test pressure = 10 kg/cm<sup>2</sup> gauge.

3. Construction required - parallel plate design using stainless-steel plates and nitrile joints. Water and oil input/output connections to be R 1 $\frac{1}{4}$ " threads (male).

4. Maximum permissible pressure drops
  - a) Oil (input at 40°C output at 20°C) 1,5 kg/cm<sup>2</sup>
  - b) Water (for dissipation of 10 kW) 2,5 kg/cm<sup>2</sup>

5. Information required with offer:

- a) Outline sketch and connection diagram.
- b) Water consumption for specified dissipation.
- c) Minimum delivery delay.