

# Questionnaire for thermal oil plants



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## A) Heater(s)

number of heaters \_\_\_\_\_ operation \_\_\_\_\_ standby

heating power per heater \_\_\_\_\_ kW

temperature difference  
supply line/return line at full load \_\_\_\_\_ K (e.g. 30 K)

supply line temperature (in operation) \_\_\_\_\_ °C

allowable supply line temperature \_\_\_\_\_ °C (e.g. 320 °C)

allowable operating overpressure \_\_\_\_\_ bar gauge (e.g. 10)

vertical or horizontal heaters \_\_\_\_\_

## B) Burner

fuel:  natural gas  
gas flow pressure \_\_\_\_\_ mbar  
lower heating value  $H_u$  \_\_\_\_\_ kWh/Nm<sup>3</sup>

fuel oil extra light

heavy fuel oil, type \_\_\_\_\_ (please attach analysis)

special fuel \_\_\_\_\_  
(please attach fuel analysis)

combustion air preheater for higher efficiency yes/no

emission requirements yes/no (please attach spec.)

## C) Other Equipment

heater pumps necessary differential pressure  
for consumer \_\_\_\_\_ mFIS

standby pump yes/no

expansion tank capacity : \_\_\_\_\_ liters

or: total oil capacity of all users incl. supply lines  
\_\_\_\_\_ liters

drain tank

chimney necessary height \_\_\_\_\_ m

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nitrogen blanket for vessels

D) Specific make requests

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E) Other information

regulations / design codes / standards

European Pressure Equipment Directive

ASME

\_\_\_\_\_

location of plant (country): \_\_\_\_\_

ambient temperature: low \_\_\_\_\_ °C, high \_\_\_\_\_ °C

Electrical

- voltage / frequency \_\_\_\_\_ V, \_\_\_\_\_ Hz

- control voltage \_\_\_\_\_ V

Contact person:

name \_\_\_\_\_

address \_\_\_\_\_

tel.no. \_\_\_\_\_

fax \_\_\_\_\_

email \_\_\_\_\_

Date \_\_\_\_\_ Signature \_\_\_\_\_