

# Pump Test Stand "High Temperature"



## Profile

The pump test stand is used to test submersible pumps under load whilst applying pressure and temperature. This is done in line with final pump inspection to simulate the actual operating conditions.

### Approvals

- Pressure equipment directive 97/23/EC
  - Low voltage directive 2006/95/EC
  - Machinery directive 2006/42/EC
- Workshop : Assembly area for equipping the reference tube
  - Container I – III – 40' : Reference tube with circulation line
  - Container IV – 40' : Reservoir, equalizing tank, control and regulating valves, pump units and tube bundle heat exchanger
  - Container V – 20' : heating- and cooling unit
  - Programmable logic controller (PLC) with safety control (SRECS)
  - Electro-hydraulic loading system for pumps
  - The monitoring and control elements as well as the monitoring screens are located in a specially isolated control room.

# Pump Test Stand "High Temperature"

## Dimensions

Length	40,000 mm / 131.23 ft
Width	4,900 mm / 16.08 ft
Height (including open-air cooler)	4,500 mm / 14.76 ft
System housing	The system components are in the four containers (40 feet) housed
Safety class	IP 65
Ambient temperature	+4°C / +50°C



## Test chamber

Diameter	397 mm / 1.3 ft
Usable length	33,000 mm / 108.27 ft
Test medium	water
Max. operating pressure	100 bar / 200 bar
Max medium temperature	190°C



## Limits

Maximum operating pressure (form) before the adjustment valve	200 bar
Maximum operating pressure (Reprint) by the adjustment valve	100 bar
Max. operating temperature	190 °C
Max. flow rate	9,000 l/min

## Container

Volume storage tank	15,500 l
Volume expansion tank	330 l

## Pipeline

PN16	Ø 48,3 x 3,2 mm
PN100	Ø 219,1 x 17,5 mm
PN200	Ø 168,3 x 20,0 Ø 219,1 x 25,0

