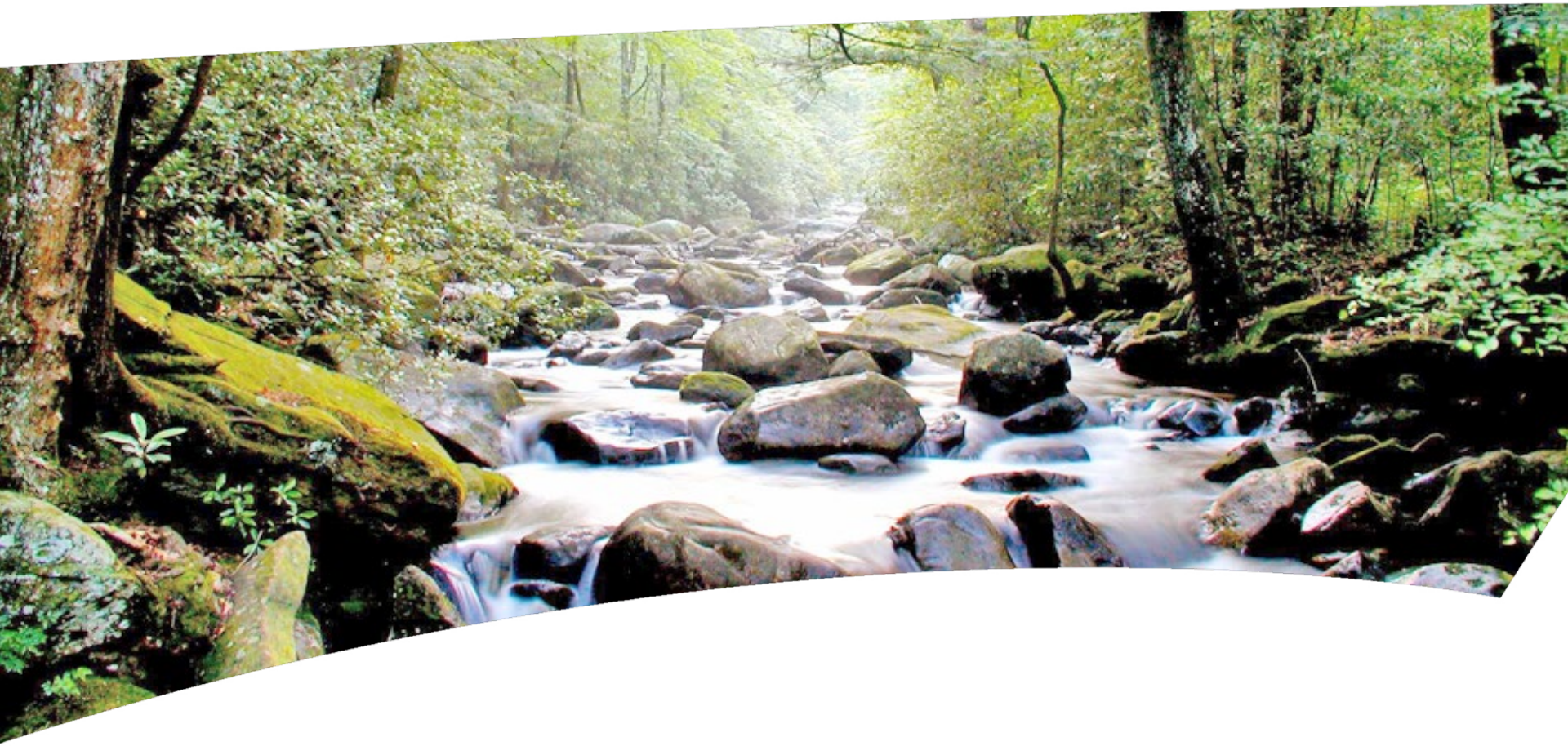
High Pressure Pumps

bamar técnicas, s.l.



Advantage of PAH / PAHF / PAHT / PAHT G

- Long service life – up to 8.000 hours
- No oil lubrication – green technology!
- High efficiency => Low energy consumption
- No external drain connection
- 5, 7 or 9 pistons => Low pulsation
- Compact design
- Corrosion resistance



Principle of the pump

- ATEX application – Ex II2 G c T6
- API 674 and 675
- Axial piston pump
- 5 / 7 / 9 pistons
- Fixed displacement
- Materials: Stainless steel AISI 304 or 316 and PEEK reinforced with carbon fibres
- All moving parts is water lubricated



Pump Types

- **Explanation of the name**

  PAH10:

  P = Pump
  A = Axial
  H = High-Pressure
  10 = displacement - 10 cm^3/rev

- **Variants**
  PAH = High-pressure pump for drinking water.
  PAHF = High-pressure pump for Fire application.
- PAHT = High-pressure pump for Technical water.
  PAHT G = High-pressure pump for Gas turbine applications.

  (PAHT C = High-pressure pump for technical water with Chemical additives)

Technical data PAH for tap water

- **PAH 2 / 4 / 6,3**
  Max working pressure: 140 bar
  Max flow at 1500 RPM: 2 – 8,5 l/min
  Max power requirement at 1500 RPM: 0,9 – 2,5 kW
  Weight: 4,4 kg
- **PAH 10 / 12,5**
  Max working pressure: 160 bar
  Max flow at 1500 RPM: 13,5 - 17 l/min
  Max power requirement at 1500 RPM: 4,3 – 5,3 kW
  Weight: 7,7 kg
- **PAH 20 / 25 / 32 /**
  Max working pressure: up to 160 bar
  Max flow at 1500 RPM: 27 – 45 l/min
  Max power requirement at 1500 RPM: 5 – 13,5 kW
  Weight: 16 kg
- **PAH 50 / 63 / 70 / 80 / 100**
  Max working pressure: up to 160 bar
  Max flow at 1500 RPM: 72 – 138 l/min
  Max power requirement at 1500 RPM: 11 – 33 kW
  Weight: 31 kg

Depending of the application and RPM the flow can be increased

Technical data PAHT for DI water

- **PAHT 2 / 3,2 /4 / 6,3**
  Max working pressure: 100 bar
  Max flow at 1500 RPM: 1,7 – 8,3 l/min
  Max power requirement at 1500 RPM: 0,75 – 2,2 kW
  Weight: 4,4 kg

- **PAHT 10 / 12,5**
  Max working pressure: 140 bar
  Max flow at 1500 RPM: 12,5 – 16,7 l/min
  Max power requirement at 1500 RPM: 4,0 – 5,5 kW
  Weight: 7,7 kg

- **PAHT 20 / 25 / 32 /**
  Max working pressure: up to 160 bar
  Max flow at 1500 RPM: 27,7 – 45 l/min
  Max power requirement at 1500 RPM: 5,5 – 15 kW
  Weight: 19 kg

- **PAHT 50 / 63 / 70 / 80 / 90**
  Max working pressure: up to 160 bar
  Max flow at 1500 RPM: 69 – 124 l/min
  Max power requirement at 1500 RPM: 15 – 45 kW
  Weight: 34 kg

- **PAHT 256 / 308**
  Max working pressure: up to 120 bar
  Max flow at 1250 RPM: 282 l/min
  Max power requirement at 1250 RPM: 75 kW
  Weight: 105 kg

Depending of the application and RPM the flow can be increased

Technical data for PAHF for fire application

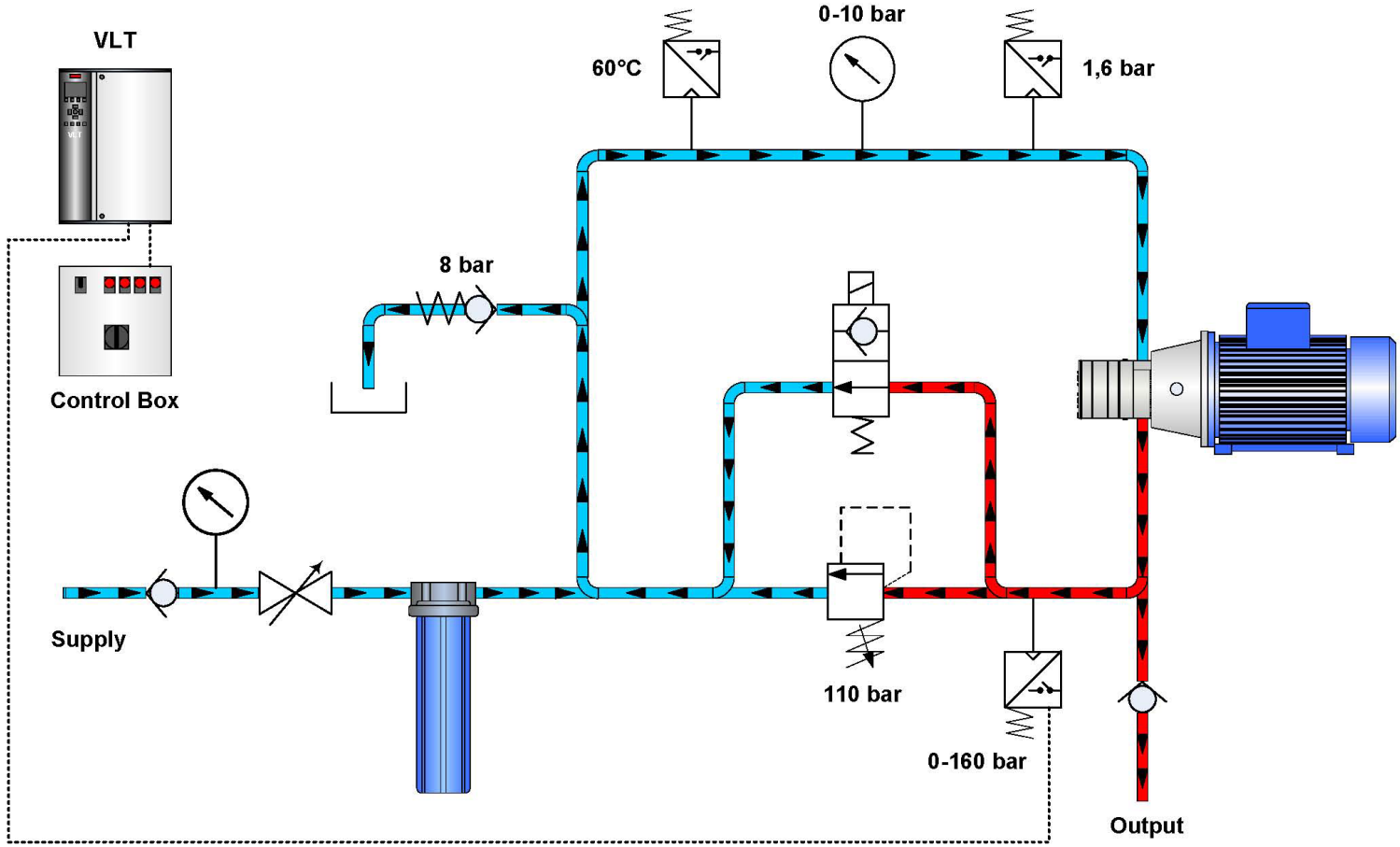
- **PAHF 20 / 25 / 32 / 40**

Max working pressure:	160 bar
Max flow at 3600 RPM:	56,9 – 115,3 l/min
Max power requirement at 3000 RPM:	18,5 – 37 kW
Weight:	19 kg
Life time:	500 hours

- **Special features:**
  Easy direct mounting of
  - check valve
  - pressure relief valve
  - pressure relief valve + 2/2 way valve



Typically system design



Ultra Pure Water

PAHT G 2-308



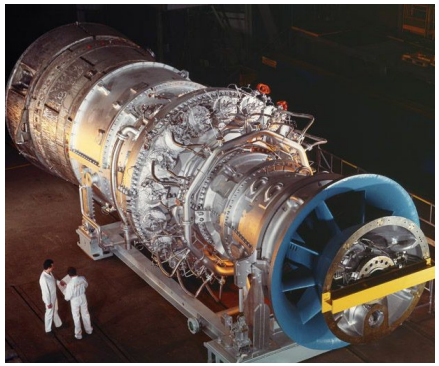
PAHT 20-308



PAHT 2-90 and Systems



Gas Turbine



DI Cleaning



HVAC



Tap Water

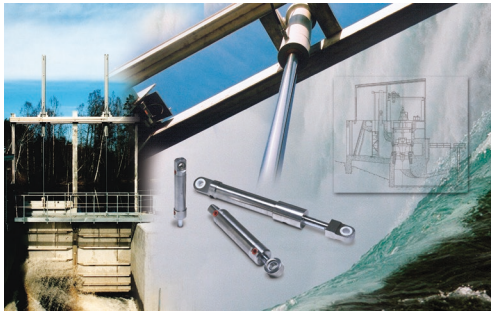
PAH



PAH and PAHF



Hydraulic



Fire



Other products

- CLP pumps for oil & gas
- APP pumps for sea water reverse osmosis
- VDHT controlling valves
- VRH pressure relief valves
- VCH check valve
- VOH throttle valves
- Power Packs







