

# Technical Standard Specification

**Series:** ATT HO-200-36

**Medium:** Water up to 200 °C

maximum external volume: 4 ltr

max. system pressure: 20 bar + max. pump pressure

## Functional equipment hydraulic

- Temperature control unit with heating circuit and cooling circuit, for connection to valve station, for quick commutation between hot circuit and cold circuit
- Temperature-controlled supply of water from process
- Level controlling with automatic level regulation
- Dirt trap in cooling water supply and in return line of circulating system
- Separate automatic filling with dirt trap
- Flow metering according to principle of pressure difference in both circuits
- Monitoring of surface of heating rods by temperature sensor
- System pressure control with pressure booster, connection for compressed air required: 6 to 8 bar
- Booster pump type DS 360 for refilling
- Corrosion resistant components (VA, MS)
- Unit on rollers and ready for connection



## Functional equipment electrical

- SPS controller with touch screen
- Heating with Incolloy stainless steel tubular heaters
- Heating control by solid-state-relay
- Control cabinet IP54 fan-ventilated
- Electrical wiring to series terminal strips
- Potential-free input for signal for commutation cold/hot (front door)
- Potential-free contact for collective alarm on 3-pin plug (front door)

## Optional equipment

- System EcoTemp for intermittent operation
- Connection for ext. temp. sensor PT100 or type J/K
- Remote touch screen with 15 m cable

	Hot circuit	Cold circuit
<b>Heating capacity</b>	36 kW	6 kW
<b>Cooling capacity</b>	42 kW	150 kW
- at 80°C temperature to process	fin tube heat exchanger	plate heat exchanger
- 15°C cooling water temperature	with solenoid valve	with solenoid valve
- 3 bar cooling water diff. pressure		
<b>Pump</b>	HT/CY 4281 (magnetic-coupled)	CY 4281 (magnetic-coupled)
Output rate (max.)	60 ltr/min	605 ltr/min
Pressure (max.)	6.0 bar	6.0 bar
Motor capacity	1.0 kW	1.0 kW
Construction type	peripheral pump	peripheral pump

## Dimensions/weight/colours

Dimensions L/W/H: 1,200 mm x 633 mm x 1,120 mm  
(w/o connections)  
Weight: approx. 240 kg  
Colour: case: RAL 7035 light grey  
front door: RAL 7016 anthracite grey

## Connections

Circulating medium	AD 22-L (DIN EN ISO 8434-1)
Separate filling	hose nipple 14 mm
Cooling water	hose nipple 21 mm
Compressed air	hose nipple 14 mm

**Accessories** 4 pieces corrugated metal hose NW 20, length 3 m, connection precision pipe AD 22-L (part No. 20975)  
1 piece compressed air hose R 3/8, 4 m (part No. 03644)

- Subject to technical changes; latest update: April 25th, 2016; changed by F.Spork -

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# Technical Standard Specification

Series: ATT H1-200-36

Medium: Water up to 200 °C

maximum external volume: 6 ltr

max. system pressure: 20 bar + max. pump pressure

## Functional equipment hydraulic

- Temperature control unit with heating circuit and cooling circuit, for connection to valve station, for quick commutation between hot circuit and cold circuit
- Temperature-controlled supply of water from process
- Level controlling with automatic level regulation
- Dirt trap in cooling water supply and in return line of circulating system
- Separate automatic filling with dirt trap
- Flow metering according to principle of pressure difference in both circuits
- Monitoring of surface of heating rods by temperature sensor
- System pressure control with pressure booster, connection for compressed air required: 6 to 8 bar
- Booster pump type DS 360 for refilling
- Corrosion resistant components (VA, MS)
- Unit on rollers and ready for connection



## Functional equipment electrical

- SPS controller with touch screen
- Heating with Incolloy stainless steel tubular heaters
- Heating control by solid-state-relay
- Control cabinet IP54 fan-ventilated
- Electrical wiring to series terminal strips
- Potential-free input for signal for commutation cold/hot (front door)
- Potential-free contact for collective alarm on 3-pin plug (front door)

## Optional equipment

- System EcoTemp for intermittent operation
- Connection for ext. temp. sensor PT100 or type J/K
- Remote touch screen with 15 m cable

	Hot circuit	Cold circuit
<b>Heating capacity</b>	36 kW	6 kW
<b>Cooling capacity</b>	42 kW	200 kW
- at 80°C temperature to process	fin tube heat exchanger	plate heat exchanger
- 15°C cooling water temperature	with solenoid valve	with solenoid valve
- 3 bar cooling water diff. pressure		
<b>Pump</b>	HT/CY 6091 (magnetic-coupled)	HT/CY 6091 (magnetic-coupled)
Output rate (max.)	100 ltr/min	100 ltr/min
Pressure (max.)	8.0 bar	8.0 bar
Motor capacity	2.8 kW	2.8 kW
Construction type	peripheral pump	peripheral pump

## Dimensions/weight/colours

Dimensions L/W/H: 1,395 mm x 753 mm x 1,180 mm  
(w/o connections)

Weight: approx. 390 kg

Colour: case: RAL 7035 light grey  
front door: RAL 7016 anthracite grey

## Connections

Circulating medium AD 28-L (DIN EN ISO 8434-1)

Separate filling hose nipple 14 mm

Cooling water sealing cone DIN 3863 G 3/4 ext. thr

Compressed air hose nipple 14 mm

**Accessories**

4 pieces	corrugated metal hose NW 25, length 3 m, connection precision pipe AD 28-L (part No. 19531)
1 piece	compressed air hose R 3/8, 4 m (part No. 03644)

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# Technical Standard Specification

Series: ATT H2-200-48

Medium: Water up to 200 °C

maximum external volume: 10 ltr

max. system pressure: 20 bar + max. pump pressure

## Functional equipment hydraulic

- Temperature control unit with heating circuit and cooling circuit, for connection to valve station, for quick commutation between hot circuit and cold circuit
- Temperature-controlled supply of water from process
- Level controlling with automatic level regulation
- Dirt trap in cooling water supply and in return line of circulating system
- Separate automatic filling with dirt trap
- Flow metering according to principle of pressure difference in both circuits
- Monitoring of surface of heating rods by temperature sensor
- System pressure control with pressure booster, connection for compressed air required: 6 to 8 bar
- Booster pump type DS 360 for refilling
- Corrosion resistant components (VA, MS)
- Unit on rollers and ready for connection



## Functional equipment electrical

- SPS controller with touch screen
- Heating with Incolloy stainless steel tubular heaters
- Heating control by solid-state-relay
- Control cabinet IP54 fan-ventilated
- Electrical wiring to series terminal strips
- Potential-free input for signal for commutation cold/hot (front door)
- Potential-free contact for collective alarm on 3-pin plug (front door)

## Optional equipment

- System EcoTemp for intermittent operation
- Connection for ext. temp. sensor PT100 or type J/K
- Remote touch screen with 15 m cable

	Hot circuit	Cold circuit
<b>Heating capacity</b>	48 kW	12 kW
<b>Cooling capacity</b>	42 kW	270 kW
- at 80°C temperature to process	fin tube heat exchanger	plate heat exchanger
- 15°C cooling water temperature	with solenoid valve	with solenoid valve
- 3 bar cooling water diff. pressure		
<b>Pump</b>	HT/CY 6091 (magnetic-coupled)	HT/CY 6091 (magnetic-coupled)
Output rate (max.)	200 ltr/min	200 ltr/min
Pressure (max.)	6.5 bar	6.5 bar
Motor capacity	5.5 kW	5.5 kW
Construction type	peripheral pump	peripheral pump

## Dimensions/weight/colours

Dimensions L/W/H: 1,395 mm x 753 mm x 1,180 mm  
(w/o connections)  
Weight: approx. 580 kg  
Colour: case: RAL 7035 light grey  
front door: RAL 7016 anthracite grey

## Connections

Circulating medium: flange DN32/PN40 (DIN EN 1092-1)  
Separate filling: hose nipple 14 mm  
Cooling water: sealing cone DIN 3863 G 1 ext. thr.  
Compressed air: hose nipple 14 mm

**Accessories**  
4 pieces: corrugated metal hose NW 32, length 3 m, connection flange DN32/PN40 - DIN EN 1092-1 - (part No. 21  
1 piece: compressed air hose R 3/8, 4 m (part No. 03644)

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