TECHNICAL SPECIFICATION

SINGLE - Pressurized temp. control unit with forced circulation

Equipment series:	**STW 225/1-H/K**
Circulating medium:	Water up to 225° C (437° F) (max. system pressure 30 bar / 435 PSI) Max. external volume at 225°C (437°F): 3.5 liters (0.92 gallons)
Heating capacity:	6 kW (8.04 hp)
Cooling capacity:	5 kW (6.70 hp)

Reference values for cooling capacity data:

80° C (176° F) pre-run temperature
15° C (59° F) cooling water temperature
difference of pressure: cooling water inlet and outlet at least 3 bar (43.51 PSI)

Equipment:

- Controller SC standard
- Level monitoring by magnetic float-switch
- Flow monitoring by differential pressure observer
- Monitoring of surface temperature of heating rods by safety temperature observer
- Cooling by tube bundle heat exchangers and solenoid valve
- Heating with Incolloy stainless steel tubular heaters
- Heating control via Solid-State-Relay (SSR)
- Flow metering according to principle of pressure difference
- Dirt trap in cooling water supply and in return line of circulating system
- Bypass between pressure- and return-line of small dimension
- Separate automatic filling with dirt trap
- Automatic temperature-dependent system closing
- Piping and vessels: steel
- Electrical wiring to series terminal strips

Delivery:

- Unit is roller-mounted and dispatched ready for connection

Magnetic-coupled Pump:	HT/NPY 2251/ 400V 50Hz			HAT/NPY 2251 460V 60Hz		
• **Output rate max.**	30	l/min	(7.92 gal/min)	25	l/min	(6.60 gal/min)
• **Pressure max.**	5.0	bar	(72.51 PSI)	4.5	bar	(65.26 PSI)
• **Motor capacity**	0.55	kW	(0.737 hp)	0.55	kW	(0.737 hp)

Connections:

• **Circulating medium**	Sealing cone DIN 3863/3870 G ½ external thread
• **Cooling water**	Sealing cone DIN 3863/3870 G 3/8 external thread
• **Filling**	Sealing cone DIN 3863/3870 G 3/8 external thread

Dimensions:

• **Length x Width x Height**	645 mm x 265 mm x 525 mm (without connections)
• **Weight (approx.)**	? kg
• **Color**	case: RAL 7035 light grey front door: RAL 5014 pigeon blue

- Technical changes reserved -

D-Hochdorf, July 20, 2010