

Accessories for Diesel Injection Pump Test Benches
Return Flow Temperature Control

RTR 2000



Mobile return flow temperature control



Return Flow Temperature Control

Special features:

- **Highly accurate control of the flow temperature**
- **Manual or fully automatic operation if linked to a computer**
- **Reduction of the adjusting times during test procedures**
- **Optimization of the cycle times**
- **Simple handling**
- **Digital display of nominal and actual temperature**
- **Compact setup**
- **Control electronics as 19" module for rack mounting**
- **High reliability**
- **Qualified for use in rough production environment**
- **Available as flexible mobile version**

General:

The return flow temperature control (RTR 2000) is a temperature control unit used to control the temperature in the return of Diesel injection pump test benches. The return flow temperature must be kept in close tolerances according to test specifications of e.g. distributor pumps, electronic unit injectors (EUI's) and electronic unit pumps (EUP's) etc. The system consists of an electronic PID-controller with digital display, a control cabinet, and the actual hydraulic control unit. The control principle is based on a cycled switch over valve with an extremely high control speed for two separate (hot and cold) calibration fluid supplies. The RTR 2000 can either be mounted on the test bench or is also available as an autarc version which is mounted on a wheeled carrier. The RTR 2000 is connected to the cooling water supply, whereby the cooling power is dependent on the temperature of the available cold water. Depending on the pump type, a defined water supply temperature (see technical data) must be available. If the shop water is not sufficiently cold, an optional chiller unit may be used.

Technical data

Control range:	20 °C - 80 °C	Cooling water temperature	
Control accuracy:	+/- 0.2 °C	for DP-IDI pumps:	< 10 °C
		for DP-DI pumps:	< 5 °C
Digital display		for EUI:	< 12 °C
resolution:	0.1 °C	for EUP:	< 12 °C
		Interface:	RS 232

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