

### 13. Pressure Drop across the Collector

#### 13.1. Test Procedure

The pressure drop is measured at different mass flow rates according to EN 12975-2, chapter 6.1.8.

#### 13.2. Test Conditions and Results

The pressure drop was measured at the previous collector type Heliostar, reported in test report no. 44-06/D. The hydraulic construction has not changed so that the results can be carried over.

Tab. 13-1: Results of the pressure drop measurements

Date:	07.06.2006				
Test facility:	$\Delta p$ -test facility with U-tube differential pressure gauge				
Inspector:	Gerd Schiewe (employee of the test centre)				
Heat transfer Fluid:	water				
Fluid temperature:	$20 \pm 2^\circ\text{C}$				
Mass flow rate in kg/h	50.5	120.4	220.3	351.6	500.0
Pressure drop in mbar	1.9	5.8	14.0	35.8	67.6

Compared to the measurement using water, the pressure drop will be markedly higher when using a water-glycol mixture as heat transfer fluid, because its viscosity is much higher.

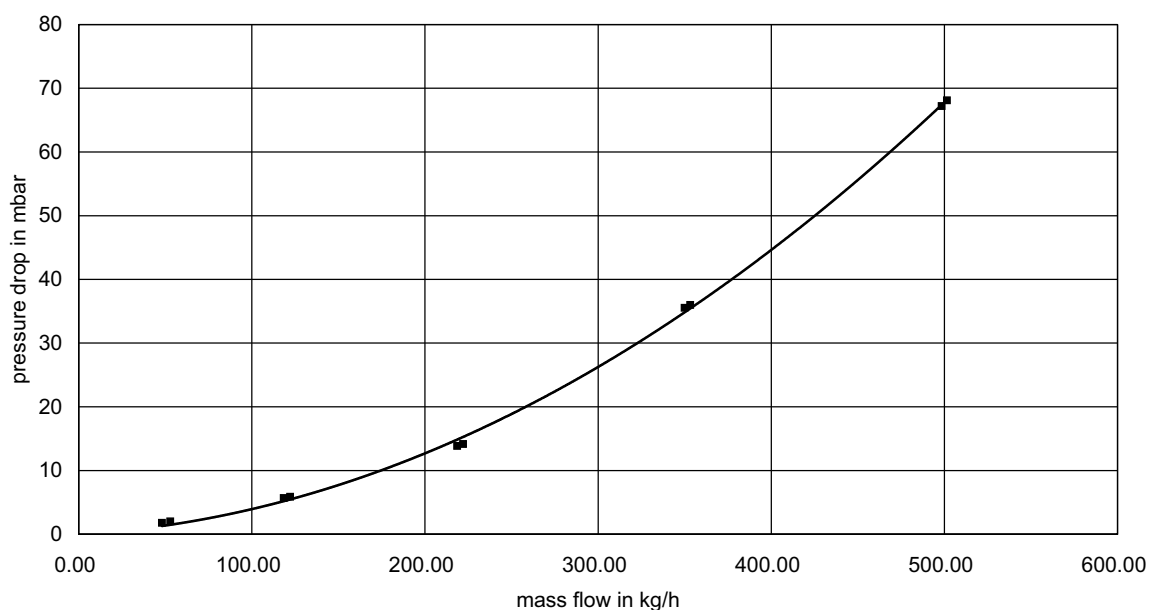


Fig. 13-1: Measured pressure drop of the collector (heat transfer fluid: water)