



TURBOCOLLECTOR **45**



**2x45 TurboCollector**

VS

**4x32 Laminar collector**

A geothermal installation is a compromise between flow and pressure drop.

The goal is to create turbulent flow with low pressure drop.

Turbulent flow improves heat transfer from the ground to the heat pump.

Increased flow with 4x32mm laminar collectors significantly increases the pressure drop, resulting in higher power consumption and higher operating costs for the system.

# CONCLUSION

## FOR FLOW AND PRESSURE DROP

**4x32** Laminar 4x32mm - PE100 PN10 SDR17

**2xTC45** TurboCollector 2x45mm - PE100 PN10 SDR17

	Flow l/s	Re	Pressure Drop Pa/m	Note
<b>4x32</b>	0.5	1798	108	Laminar flow
<b>2xTC45</b>	0.5	2557	106	Turbulent flow
<b>4x32</b>	0.7	2517	287	Very high pressure drop
<b>2xTC45</b>	0.7	3580	185	Turbulent flow with low pressure drop

**SOLUTION:**  
**TurboCollector 2x45mm**