

COMPLETE GEOENERGY SYSTEM FOR HIGH TEMPERATURES.

COMPLETE RANGE

We supply complete systems for high temperatures including Electrofusion couplings, collectors, insulated pipes and manifold chambers.

HIGH TEMPERATURES

A new type of collector that can withstand high temperatures. PE-RT is capable of handling temperatures up to 80 degrees.

PE-RT

PE-RT is a type of polyethylene with properties that make it suitable for higher temperatures for a long time.

LONG LIFETIME

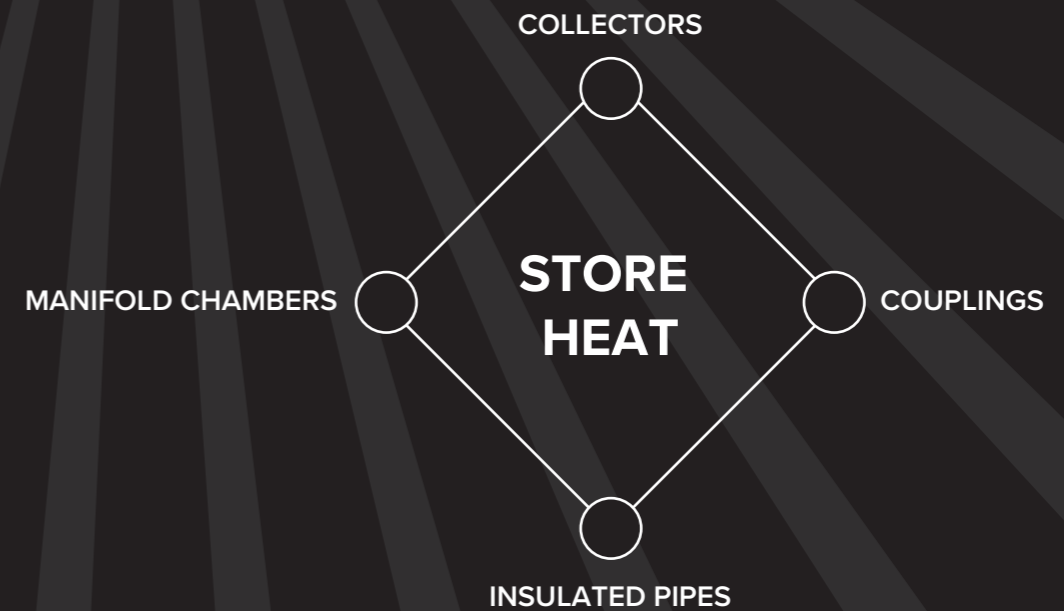
The expected lifetime for all products is over 50 years.

STORE ENERGY

TurboCollector PE-RT gives increased opportunities to store energy in the ground. The energy stored can then be used when needed.

PE-RT TurboCollector

The pipes are manufactured in our patented TurboCollector design. This includes advantages such as lower borehole resistance at low flow. The collectors are supplied complete with a return bend that is well protected.



MuoviTech®

MuoviTech AB, Tvinnargatan 11, 507 30 Bråmhult, Sweden
TEL +46 (0)33 22 85 85 EMAIL info@muovitech.com WEB www.muovitech.com

MuoviTech®

BEST IN EARTH.

TURBOCOLLECTOR PE-RT

PE-RT TurboCollector is made of PE-RT type 2, which is a second generation PE-RT-material. The pipes are manufactured in our patented TurboCollector design. This includes advantages such as lower borehole resistance at low flow. The collector is supplied complete with return bend that is well protected. The temperature range and pressure is determined by the application classes.

Application class	Design Temp °C	Time at TD Years	Tmax °C	Time at Tmax Years	Tmal °C	Time at Tmal Hours	Design Stress Mpa	Pressure bar
1	60	49	80	1	95	100	3,82	7,64
2	70	49	80	1	95	100	3,63	7,26
4 (sequence)	20	2,5	70	2,5	100	100	3,8	7,6
	40	20						
	60	25						
5 (sequence)	20	14	90	1	100	100	3,17	6,34
	60	25						
	80	10						

Product	Dimension	Lengths
TurboCollector PE-RT	40mm SDR11	50-500 meter

TURBO COLLECTOR®



PE-RT INSULATED PIPES

Completed insulated ground hose leading liquid to and from the borehole. EPE cellular plastic foam for best insulation and corrugated external protective pipes.

Insulation

EPE-foam is an excellent insulation, very flexible and long term age-resistant material. Insulation's heat conduction capacity: $\lambda = 0.038 \text{ W / mK}$ at 40°C. The closed cell structure protects against moisture penetration, has an extremely low water absorption of < 1% (water vapour diffusion resistance $\mu > 3.500$). The insulation is elastic and returns to its original shape after being subjected to mechanical load. Produced without (H) CFC.

The outer protective pipe

The corrugated outer protective pipe protects the internal parts from mechanical damage. It is made of HDPE. Mechanical strength: 500 N. Impact resistance: 2.0 kg/100mm.

Material:	PE-RT type II
SDR class:	SDR 11

Product	Dimension	Lengths
Insulated pipe PE-RT	40mm SDR11	50 meter/rulle



PE-RT WELDED COUPLINGS

High quality couplings from Plasson, developed specifically for high temperatures. The couplings are tested and ranked according to ISO 22391.

Material:	PE-RT type II
SDR class:	SDR 9

Product	Dimension
Electro fusion PE-RT straight	40mm SDR 9
Electro fusion PE-RT angle	40mm SDR 9



PE-RT MANIFOLD CHAMBERS

All the collection chambers in the MuoviTech range can be equipped with distribution PE-RT pipes. The collection chambers are supplied complete with valves and connections designed for high temperatures.

Material manifold	PE-RT type II
Material chamber body	PE
Dimension	90 SDR 11
Number of collectors	2-20

