

Pos.	GERES probe characteristics	Your advantage	Your profit
1. Site preparation/equipment			
1.1	Max drilling depth 35 m	Use of small-sized drilling machines	Low costs for drilling machines and accessories
		Narrow spaces can be easily accessed	This allows you to efficiently use hardly accessible land
2. Drilling			
2.1	Max. drilling depth 35 m	Protection against deeper layers of groundwater Extremely lower drilling risk	Permanent operating authorization issued by the authorities
2.2	Adjustable, helical probe design	High energy collection due to similar turbulent currents.	Depending on the circumstances, less meters required for drilling
3. Probe preparation at the appropriate depth			
3.1	Adjustable depending on the drilling depth in the range 6 m - 35 m	No loss	Reduction and significant saving of the time required for mounting
3.2	5-layer structure of the connection pipe, with aluminum	Visual inspection of the elongated probe is sufficient, thus verification under pressure prior to incorporation is no longer necessary	Execution time saving and issue of the acceptance protocol, due to the simplified working method
4. Submersion			
4.1	5-layer structure of the connection pipe	High resistance against kicks, scratches and cracks	Low risk during incorporation by submersion
4.2	Helical probe design and resistance as composite probe	No spacers required	Significant reduction and saving of the time required for mounting
		High interior volume inside the probe	Easy integration of a reusable injection pipe for jointing
4.3	Attached weight (in case of the 35 m probe, additional weight in the delivery kit)	The probe can be submerged unfilled	Significant reduction and saving of the time required for mounting
4.4	Complete construction of the probe with no connection elements	Extremely safe construction	No inspection certificate required from the factory
4.5	No coil pipe required	Easy submersion of the probe	Significant reduction and saving of the time required for mounting

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5. Connection pipe configuration and distributor installation			
5.1	The raw material can also be appropriately shaped at low temperatures	Allows appropriate processing without the profiled elements as well, with lower bending radii (5 x D)	Significant reduction and saving of the time required for mounting
5.2	Fitting pressing system	Easy processing	Significant reduction and saving of the time required for mounting
		Installation also by bad weather	
		With no waiting time for the cooling procedures	Tight connection immediately after the jointing
		No pipe peeling required	
		Check the submersion depth through the fitting viewfinder	
No problems related to waste water	High resistance to corrosion of the fitting, which is made up of brass and has a galvanized steel pressing cover		
5.3	Pressing device with accumulator	No electrical connection required	Safe installation also by bad weather Rapid installation due to unrestricted handling

6. Compressing the entire system			
6.1	5-layer structure of the connection pipe with aluminum	(The pressure verification is necessary only if the probe has been pinched or pressed during submersion. In this case check for 5 min. at 6 bar)	Execution time saving and issue of the acceptance protocol due to the simplified working method
		Verification of the probe pressure 240 min. at 5 bar, according to the contraction procedure not required	
		Verification of the pressure and flow rate of the entire probe field - 10 min. 10 bar (temperature compensation), - 30 min. 10 bar (final pressure verification)	
		The metal filling pipe does not dilate under pressure	
6.2	By constant depth, only 40% of a duplex probe content	Consumption during filling and ventilation is clearly reduced	Lower costs due to glycol saving Much easier installation and reduction of execution time
6.3	Constant probe length	The hydraulic calculation is simplified due to the constant pipe length	Clearly reduced time for execution and issue of the acceptance protocol
7. Removal of the equipment from the site			
7.1	Use of small-sized machines	Fewer equipment that has to be removed from the site	Much easier installation and reduction of execution time

8. Specific advantages of the GERES probe			
8.1	Max incorporation depth 35 m	Guaranteed soil regeneration in the upper layers	Offer your clients high-quality installations with guaranteed efficiency
		Issue of the authorized documentation in case of restrictions on drilling depths and drilling area	Permanent operating authorization issue by the authorities
		This will allow you to provide services to the clients owning hardly accessible land as well	Potential additional contract
8.2	Adjustment to the drilling depth 6 m – 35 m	Optimization of the collection power	Much easier installation and reduction of execution time
8.3	Diffusion tightness	No problems by CO2 availability in the soil or other gases with PE diffusion capacity	Probe installation with guaranteed operation, minimum guarantee risk (complies with the state-of-the-art technology)
8.4	Fitting pressing system	No additional qualification measures for collaborators required	Cost savings
		Regular update of the collaborators' qualification in the field of plastic material adhesion not required	
8.5	Resistance to temperatures ranging from – 20 °C to +70 °C	Suitable for solar heating through probes	The solar heat excess can be used
8.6	Length dilatation	The elongation is of 0.025 mm / m x K (elongation of a PE 100 probe is of 0.20 mm / m x K)	Much easier installation and reduction of execution time