

#### **GEROtherm® manhole type 4**

For connecting geothermal probes, ground collectors and energy cages; fully factory pre-assembled, ready-to-connect, cylindrical plastic shaft made of HD-PE winding tube with reinforced shaft wall (at least 2 cm wall thickness) as of 37 brine circuits, with all necessary shut-off and control fittings according to individual specifications; can be used against pressing water; probe connections welded according to DVS are routed to the outside through the shaft wall and are water-pressure tight; all connections designed voltage-free; shaft access equipped with an inspection-friendly cover that can be walked on or driven on as an option; cast iron shaft cover offset with a diameter of 630 mm, screwed, load capacity class A15-D400; outlet to the heat pump optionally on the left or right; optimal and horizontal probe connection; crane lugs for easy transport and installation on site; special key fixed on the outside; type 4 specially designed for use in floor slabs and roads

- Detailed design according to order form type 4
- Flow rate > 48.4 m<sup>3</sup>/h
- Design type: laying with two mounted distributor pairs on both shaft sides
- Dimensions: Height: approx. 2300 mm; outside diameter: 1600 - 2000 mm
- Incl. installed and pressure-tested distributor SAVE 180 or SAVE 250 in accordance with the HakaGerodur AG pressure test protocol, weld seams made in accordance with DVS, testing according to the HR3.26 guideline of the SKZ Würzburg plastics centre
- Minimal flow resistances
- Floating storage of the SAVE with regard to thermal expansion
- Optional main shut-off valve Ebro brand in the main passage
- Optional conductor made of V2A, aluminium or PE
- Optional automatic venting
- Optional thermometer -20°C/+40°C and/or pressure gauge 0 bar - 10 bar
- Optional level adjustment of the entrance on site
- Optional dome seal against pressing groundwater
- Optional illumination and electrical connections
- Operating temperature: -20°C to 40°C

#### **GEROtherm® manhole type 4 with installed and pressure-tested SAVE distributors/collectors with ball valve and balancing valves**

Design for:

Number of connections (customer specific): .....

Connection dimensions (40 mm or 50 mm): .....

Total flow rate: ..... m<sup>3</sup>/h

SAVE collector/distributor (SAVE 180 / SAVE 250): .....

Selected outlet to heat pump (left/right): .....

Cast iron cover (class A15, class B125, class D400)

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Art. No.: .....

Quantity ..... Units