

Product information

FRANK geothermal energy collector set



The complete set with manhole, collector pipe and connecting fittings:

The FRANK geothermal energy collector set comprises a manhole, a collector pipe and the relevant number of electro fusion fittings for the circuit connections. The WM type manhole is designed for wall

mounting. The pre-assembled type 2065 module plastic brine manifold is fitted with an integrated flow meter and shut off valves in every circuit.

The circuit connections are fed downwards through the manhole floor as PE 100 spigots. The heat pump is connected to the PE 100 spigots arranged on the left.

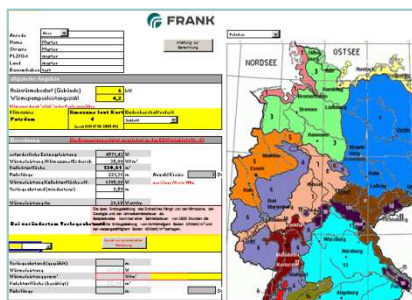
Range of performance:

Set No.	Item no.	Performance range * [kW]		Pipe length
		Example of climate zone 12 Sand	Sandy clay	
1	402 3285 307	3.0	8.0	3 x 100 m
2	402 3285 407	4.0	11.0	4 x 100 m
3	402 3285 507	5.5	13.5	5 x 100 m
4	402 3285 607	6.5	16.5	6 x 100 m
5	402 3285 707	7.0	19.0	7 x 100 m
6	402 3285 807	8.5	22.5	8 x 100 m

¹ Possible performance is determined by the type of subsoil, the climate zone and how far apart the collector pipes are laid. For precise dimensioning we recommend information pamphlet no. 43 from the BHD

Features:

- Size of the sets tailored to the respective performance requirements
- Collector pipe d 32 mm, PE 100-RC, SDR 11
- Secure connection to the collector circuits by welding and electro fusion fittings
- Electro fusion fittings for connecting the collector pipes supplied as standard
- Easy to install WM type manhole for wall mounting
- Completely pre-assembled brine manifold with shut off and regulating valves
- Flow and return parts with filling and venting fittings
- Lockable manhole cover with seal



Dimensioning aid:
You can find a dimensioning aid in Excel format at:
www.frank-gmbh.de



Set contents:

- Manhole for wall mounting with pre-assembled manifold
- Coiled bundle with collector pipe d 32 mm
- Electro fusion welded fittings for connecting the collector pipes

Dimensions of the WM type manhole:

Number of circuits	Length L [mm]	Width W [mm]	Height H [mm]
3	692	275	230
4	793	275	230
5	894	275	230
6	995	275	230
7	1096	275	230
8	1197	275	230

Technical data:

Max. recommended flow rate (water):	7.7 m ³ /h
Max. operating pressure:	3 bar
Max. test pressure (24h, <30°C):	6 bar
Heat pump connections:	Spigot PE 100 SDR 11, d 40 mm, going left
Circuit connections:	Spigot PE 100 SDR 11, d 25 mm, d 32 mm, or d 40 mm going downwards



Optional accessories:

Ring seals for the watertight wall penetration of pipes

Item no.	d pipe mm	d outer mm	Width mm	Core drilled hole mm
400104010	40	99	30	100
400105010	50	99	30	100
400106310	63	99	30	100
400107510	75	123	30	125

