OILON RE SERIES

Ground source heat pumps from the land of ice and snow

Oilon is an acknowledged Finnish energy technology company specializing in sustainable and energy-efficient solutions. For heating large properties, such as public buildings, industrial locations, apartment buildings, and terraced houses, we recommend ground source heat pumps. They offer environmentally friendly and extremely economical heat for decades to come.

Oilon RE with efficient EVI technology

The compact-sized RE ground source pumps have an excellent performance and reliability even in demanding conditions. Their advanced EVI compressor and heat exchanger technology enables a higher temperature output and better efficiency than traditional heat pumps. In addition to that, these small but powerful heat pumps run very quietly and are easy to maintain and service.

Benefits of Oilon RE series

- EVI — Groundbreaking EVI technology
- Low energy consumption
- 68 °C — Very high temperature output
- Efficient hot water production
- Support for hybrid and solar heating
- Modbus RTU interface for building automation and control as standard
- Excellent operational reliability
- Long lifespan
- Quiet operation sound
- Heating and cooling straight from the ground almost for free
- Available as a turnkey solution
- 5-year — 5-year product warranty

Optimal solution for almost any building

The RE heat pump family consists of compressor unit modules. Each module has a different capacity, providing flexile configuration options. These compact heat pump modules can be combined freely to create an optimal solution for almost any need. The necessary tanks and ports are selected based on heat pump performance and the required heating capacity.

PUBLIC BUILDINGS

INDUSTRIAL BUILDINGS

APARTMENT BUILDINGS

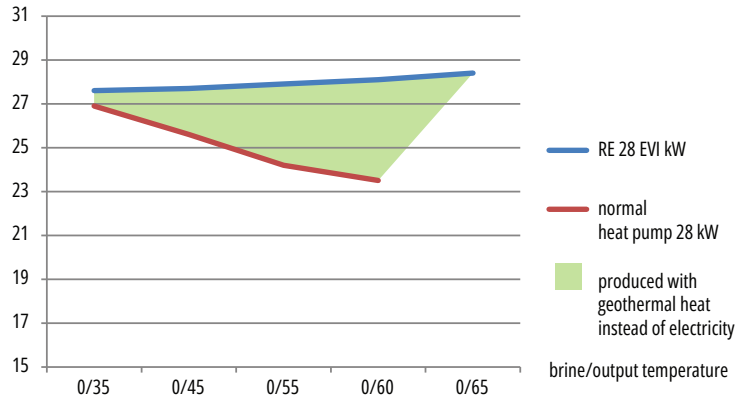
TERRACED HOUSES

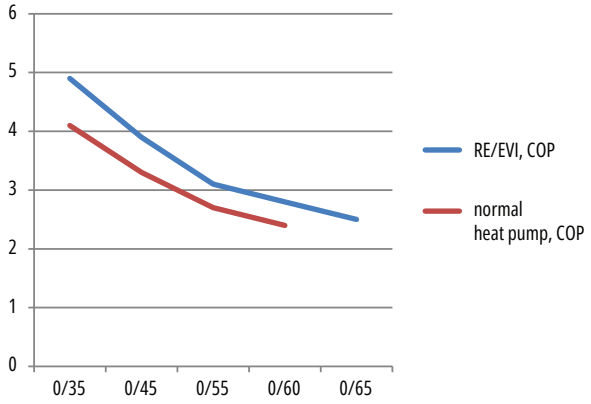
OILON RE SERIES

– a professional choice

Achieve a superior COP by selecting the right brine circuit pump for your application.

Oilon RE EVI vs. normal ground source heat pump





Technical data

		RE 28 05	RE 33 05	RE 38 05	RE 42 05	RE 48 05	RE 56 05	RE 66 05	RE 76 05	RE 84 05	RE 96 05
Performance (EN 14511 0/35)	Heating capacity, kW	27.4	32	36.1	41.1	47.2	54.7	63.9	72.2	82.2	94.5
	COP	4.9	4.9	4.7	4.8	4.8	4.9	4.9	4.7	4.8	4.8
Performance (EN 14511 0/65)	Heating capacity, kW	28.1	33.9	38.2	42.6	48.9	56.2	67.9	76.4	85.1	97.8
SCOP (EN 14825)		5.7	5.5	5.3	5.4	5.4	5.7	5.5	5.3	5.4	5.4
SPF		5.7	5.5	5.3	5.4	5.4	5.7	5.5	5.3	5.4	5.4
Brine circuit design flow rate	m^3/h	6.51	7.57	8.48	9.71	11.13	13.01	15.14	16.95	19.41	22.27
Brine circuit minimum flow rate	m^3/h	3.04	3.69	4.16	4.69	5.42	6.08	7.38	8.32	9.38	10.84
Energy efficiency class*	Space heating	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Max. heating water temperature	°C	68	68	68	68	68	68	68	68	68	68
GWP value		2,088									
Contains fluorinated greenhouse gases		yes									
Hermetically sealed device		yes									
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant quantity	kg	5.250	5.200	5.300	5.100	5.100	5.250 + 5.250	5.200 + 5.200	5.300 + 5.300	5.100 + 5.100	5.100 + 5.100
Refrigerant quantity	CO2-eq t*	10.962	10.858	11.066	10.649	10.649	10.962 + 10.962	10.858 + 10.858	11.066 + 11.066	10.649 + 10.649	10.649 + 10.649
Electrical connection		3 x 400 V									
Fuse **	A	3 x 25	3 x 32	3 x 40	3 x 40	3 x 40	3 x 50	3 x 63	3 x 80	3 x 80	3 x 80
Ground source heat pump connections	Condenser connections, ISO 228 outer thread	G 1¼									
	Evaporator connections, ISO 228 outer thread	G 2									
Sound pressure level	dB(A)	43–48					47–52				
Weight	kg	303					572				
Depth (incl. exchanger connections)	Height x width x depth, mm	930x970x750					1830x970x750				

* Units up to 70 kW B0/W35

*** 400 V compressor + condenser pump + collector pump + automation equipment, standard-sized circulating pumps