

Ground source heat pump with hot water tank

- Power range 6-12 kW
- Excellent annual efficiency
- Small footprint
- Easy-to-use operating menu
- Integrated domestic hot water tank 180 l
- MyUpway remote control as standard
- Brine circuit filling group as standard



Energy class:
underfloor heating
system



Jämä Star RST ground source heat pumps obtain both heating and domestic hot water. Integrated hot water tank capacity is 180 liters. Jämä Star RST ground source heat pumps are compact in size and fit both new buildings and renovation projects.

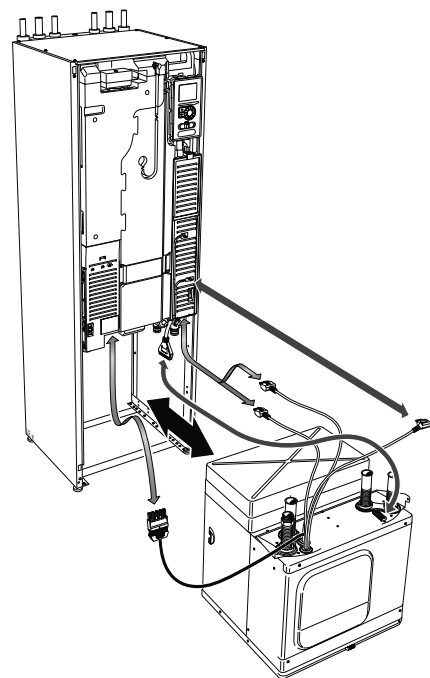
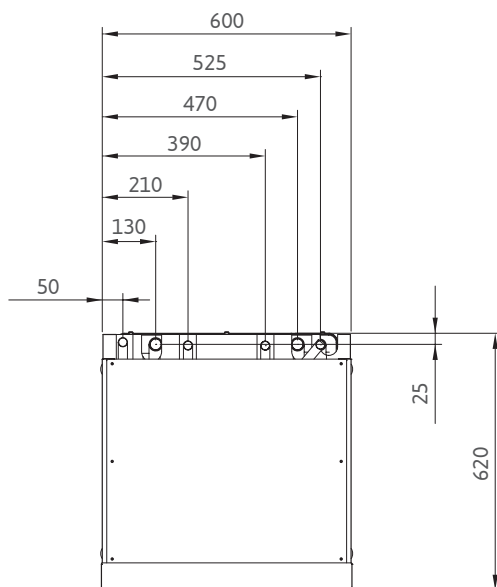
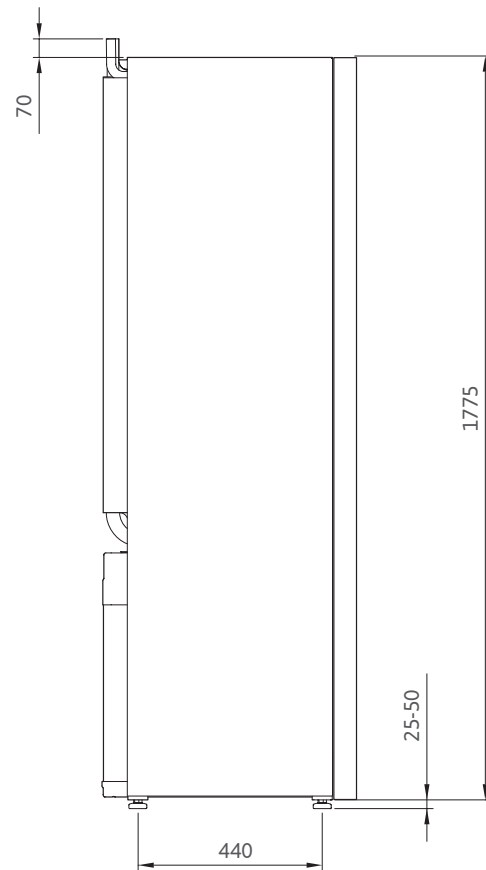
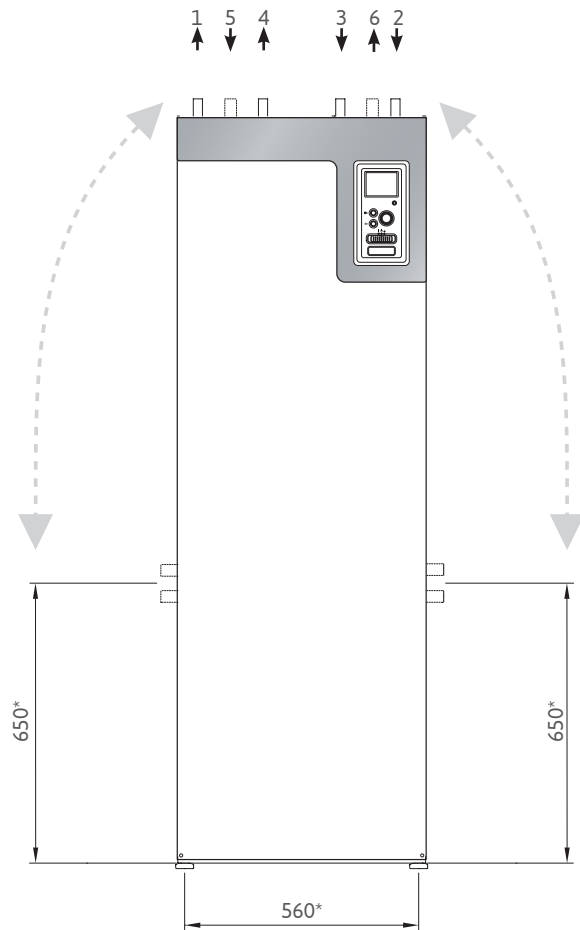
Technical details, Jämä Star RST		6	8	10	12
HVAC number		5360112	5360103	5360104	5360105
Heating efficiency according to EN 1411, 0/35 °C	kW	6,07	7,67	9,66	11,48
Measurements H x W x D	mm	1800 x 600 x 620			
Vertical lift height	mm	1950			
Weight (empty tank)	kg	240	250	245	260
Hot water tank volume	l	180			
Hot water max capacity + 40 °C	l	240	235	235	230
Nominal input power (0/35 °C)	kW	1,27	1,70	2,19	2,51
SCOP (0/35 °C) / (0/55 °C) EN 14825		4,8/3,8	5,0/4,0	4,9/3,9	4,9/3,8
Energy class 35/55 °C		A+++/A++	A+++/A+++	A+++/A++	A+++/A+++
Connections: heating / hot water / brine circuit / cold water	mm	Ø 22/22/28/22	Ø 22/22/28/22	Ø 22/22/28/22	Ø 28/22/28/22
Heating water max. temp. (output/input) *	°C	70/58			
Tank max. pressure	bar	10			
Refrigerant amount R407C	kg	1,5	1,7	1,9	2,0
Sound level (LwA) **	dB	41	38	42	43
Sound pressure level (LpA) ***	dB	26	23	27	28
Brine circuit filling group		included in delivery			

*65 °C with compressor, 70 °C with added heat. ** According to EN 12102 in 0/35 °C temperature. *** According to EN 11203 in 0/35 °C temperature, at 1 m distance.

Electric details, nominal voltage 400V ~50Hz		6	8	10	12
Max. operating current with 1-2 kW electric resistance (recommended fuse)	A	13(16)	15(16)	15(16)	18(20)
Max. operating current with 3-4 kW electric resistance (recommended fuse)	A	13(16)	15(16)	15(16)	18(20)
Max. operating current with 5-6 kW electric resistance (recommended fuse)	A	13(16)	15(16)	15(16)	18(20)
Max. operating current with 7 kW electric resistance (recommended fuse)	A	19(20)	21(25)	21(25)	23(25)
Max. operating current with 9 kW electric resistance (recommended fuse), switch connection required	A	19(20)	22(25)	22(25)	24(25)

Accessories	Code	Buffer tanks	HVAC number	Cooling convectors	HVAC number
ECS40 add. shunt set under 80 m ²	M02566	Buffer 50 RST	5360158	Cool W3	5360187
ECS41 add. shunt set over 80 m ²	M02691	Buffer 100 RST	5360118	Cool W4	5360188
Pool control	M02786	Buffer 200 RST	5360119	Cool R5	5360189
Other accessories from our sale.				Active cooling mounting set	5360190

Jämä Star RST



Pipe connections

1. Output, heating circuit
2. Input, heating circuit
3. Connection, cold water
4. Connection, hot water
5. Input, brine circuit
6. Output, brine circuit

* When brine circuit pipe angle is 90 (connection to side).
Variation ± 100 mm.

System description

The ground source heat pump consists of a heat pump, a hot water tank, a heating element, a circulating water pump and a control unit with a display. The ground source heat pump is connected to the heat recovery circuit and the heating circuit.