

Atlantic Geolia

Ground source heat pump

Perfect solution for all geothermal projects



+ BENEFITS

- Compatible with all types of collectors (horizontal, vertical, groundwater)
- Seasonal energy efficiency up to A+++

DESCRIPTION

- Perfect solution for all geothermal projects
- 5 models: 5 to 17 kW
- Single-phase or three-phase models
- Heating only

- Intuitive control and simplified use with NAVISTEM 200S control system

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play)
- Cooling kit
- Boiler connection kit
- Separate DHW tank
- Room controller

Practical trainings
that will help you save time and be more efficient.

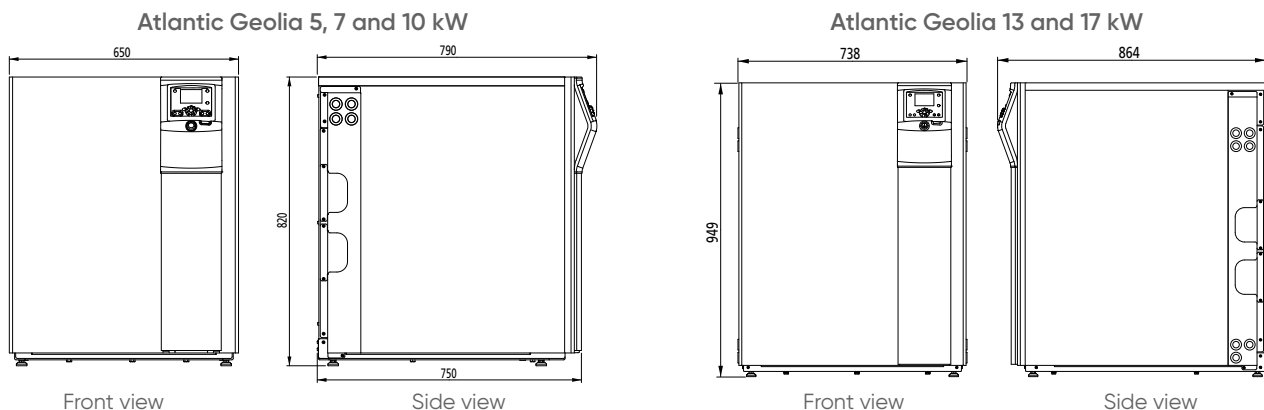
Tailor-Made Training Programs

TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ATLANTIC GEOLIA 5	ATLANTIC GEOLIA 7	ATLANTIC GEOLIA 10	ATLANTIC GEOLIA 13	ATLANTIC GEOLIA 17
REFRIGERANT						
R410A factory load	g	900	950	1450	1700	2300
Amount of fluid expressed in CO ₂ equivalent	t	2	2	3	4	5
ENERGY EFFICIENCY & ACOUSTIC VALUES WITH OUTDOOR SENSOR						
Energy class - Heating (35°C/55°C) - Pure water	-	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Rated heat output (35°C/55°C) - Pure water	kW	8 / 8	11 / 10	15 / 14	18 / 16	25 / 23
Seasonal energy efficiency - Heating (35°C/55°C) - Pure water	%	213 / 153	196 / 151	233 / 179	212 / 166	219 / 177
Annual energy consumption - Heating (35°C/55°C) - Pure water	kWh	3138 / 3973	4323 / 4997	5225 / 6242	6912 / 7576	9057 / 10272
Energy class - Heating (35°C/55°C) - Brine	-	A++ / -	A++ / -	A++ / -	A+++ / A++	A+++ / A++
Rated heat output (35°C/55°C) - brine	kW	6 / -	8 / -	12 / -	14 / 13	19 / 18
Seasonal energy efficiency - Heating (35°C/55°C) - Brine	%	157 / -	155 / -	166 / -	179 / 142	179 / 136
Annual energy consumption - Heating (35°C/55°C) - brine	kWh	3369 / -	4074 / -	5644 / -	6386 / 7546	8604 / 10337
Acoustic level (indoor) ⁽¹⁾	dB(A)	56	57	56	55	55
MAIN CHARACTERISTICS						
Heating capacity +10°C +7°C/+30°C +35°C - Underfloor heating	kW	7.14	9.37	13.33	16.78	22.13
Cop +10°C+7°C/+30°C +35°C - PCR		4.86	5.29	5.38	5.70	5.21
Heating capacity +10°C +7°C/+40°C +45°C - Low T° radiators	kW	6.62	8.86	12.55	15.99	21.40
Cop +10°C +7°C/+40°C +45°C - Low T° radiators		3.81	4.04	4.18	4.35	4.21
Heating capacity +10°C +7°C/+47°C +55°C - Low T° radiators	kW	6.57	8.72	11.75	15.59	20.14
Cop +10°C +7°C/+47°C +55°C - Low T° radiators		3.26	2.87	3.34	3.33	3.54
Heating capacity +0°C -3°C/+30°C +35°C - Underfloor heating	kW	5.64	7.02	10.08	12.63	16.63
Cop +0°C -3°C/+30°C +35°C - Underfloor heating		3.94	3.86	4.06	4.35	4.31
Heating capacity +0°C -3°C/+40°C +45°C - Low T° radiators	kW	5.13	6.56	9.28	12.12	16,01
Cop +0°C -3°C/+40°C +45°C - Low T° radiators		3.09	2.92	3.14	3.50	3.51
Heating capacity +0°C -3°C/+47°C +55°C - Low T° radiators	kW	-	-	-	11.86	15.41
Cop +0°C -3°C/+47°C +55°C - Low T° radiators		-	-	-	2.92	2.80
Additional electric back-up	kW	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)
Power supply		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	400 V 3ph + N 50 Hz	400 V 3ph + N 50 Hz
MODULE						
Noise level ⁽²⁾	dB(A)	49	49	49	48	48
Net weight/filled weight	kg	140 / 145	150 / 155	155 / 160	175 / 180	185 / 190

(1) Acoustic power at 0/35°C according to EN12102. (2) Sound pressure level 5m from the device at 0/35°C, according to EN ISO 11203.

INSTALLATION DIMENSIONS (mm)

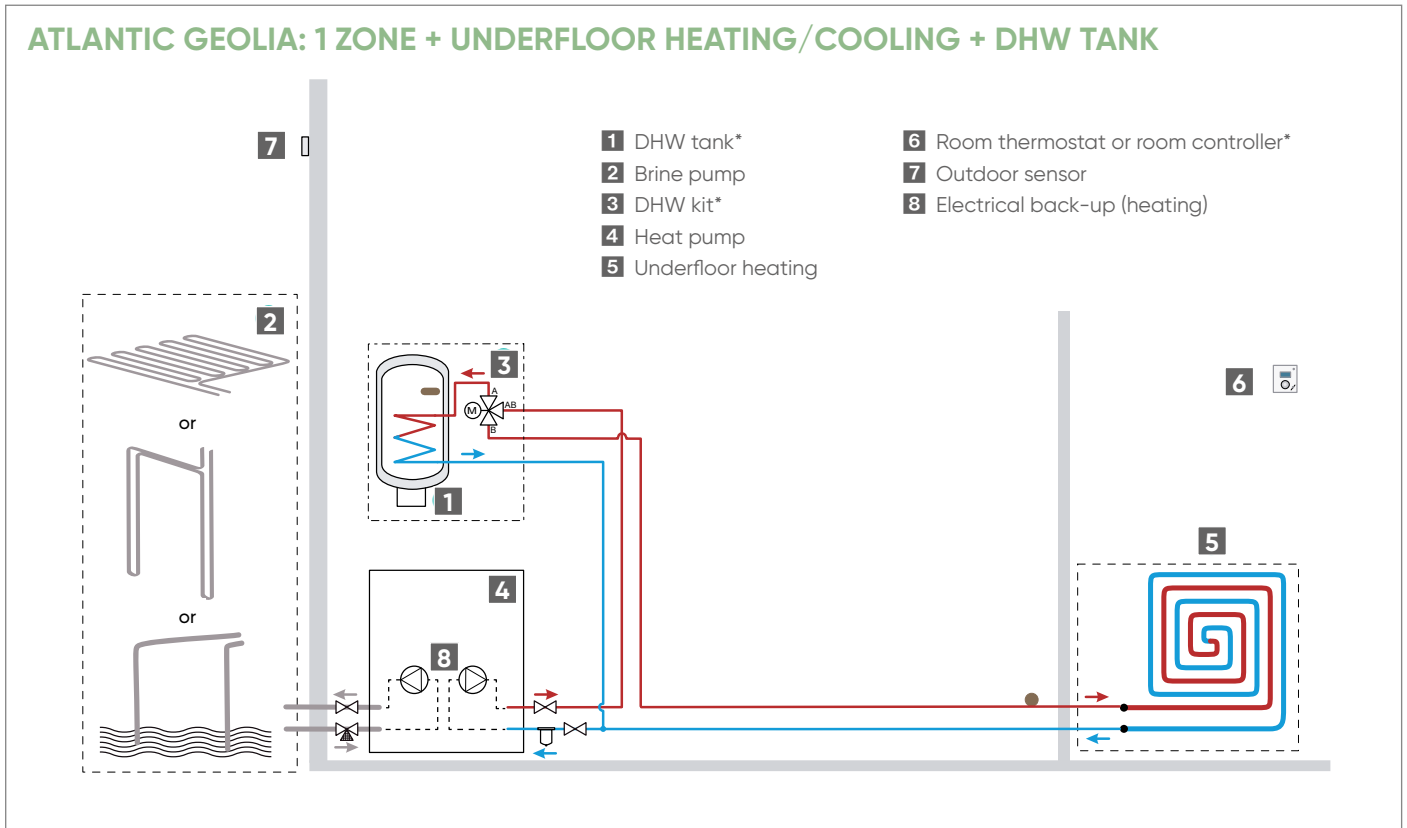


*Depending on models

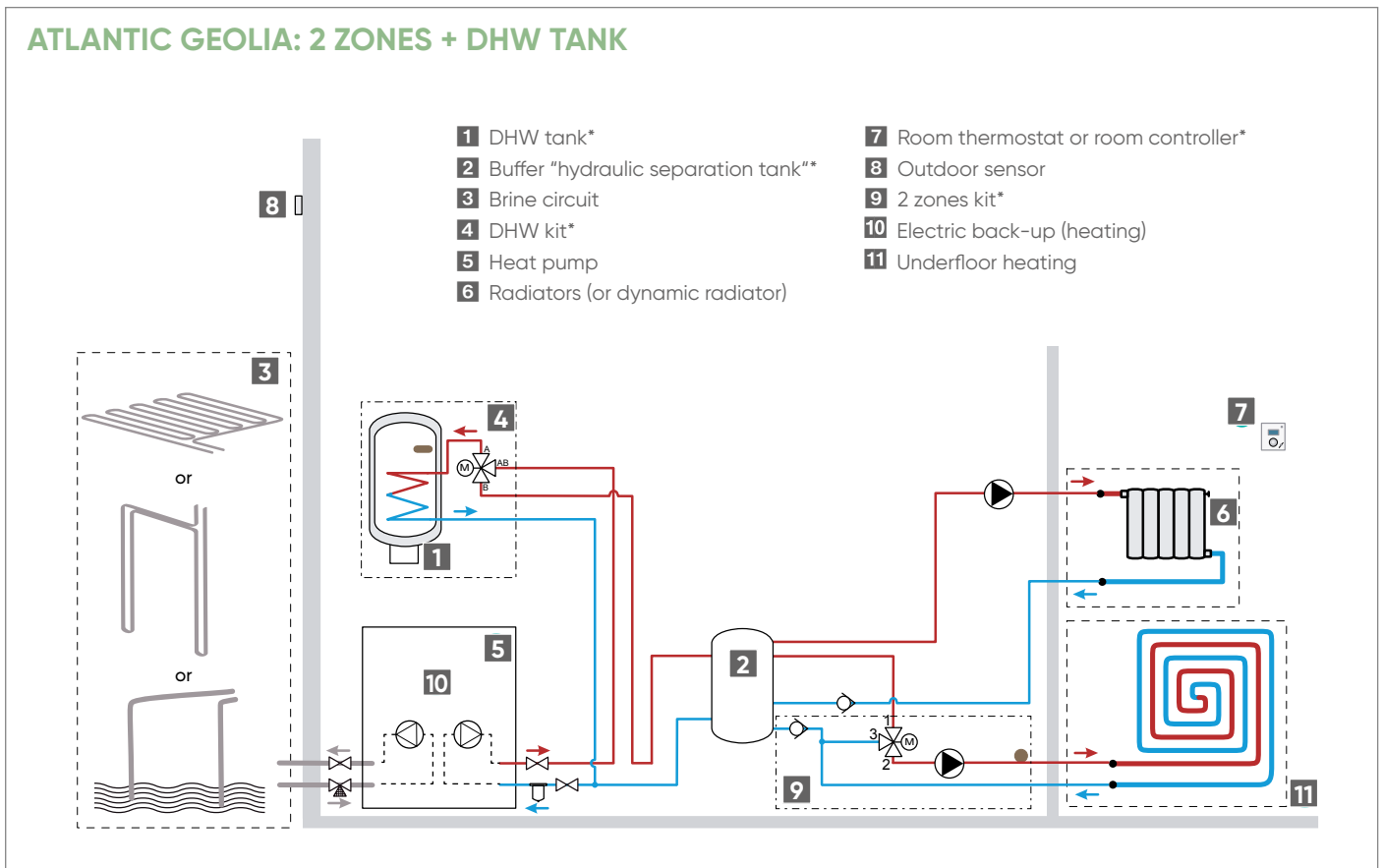
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INSTALLATION SCHEMATICS

ATLANTIC GEOLIA: 1 ZONE + UNDERFLOOR HEATING/COOLING + DHW TANK



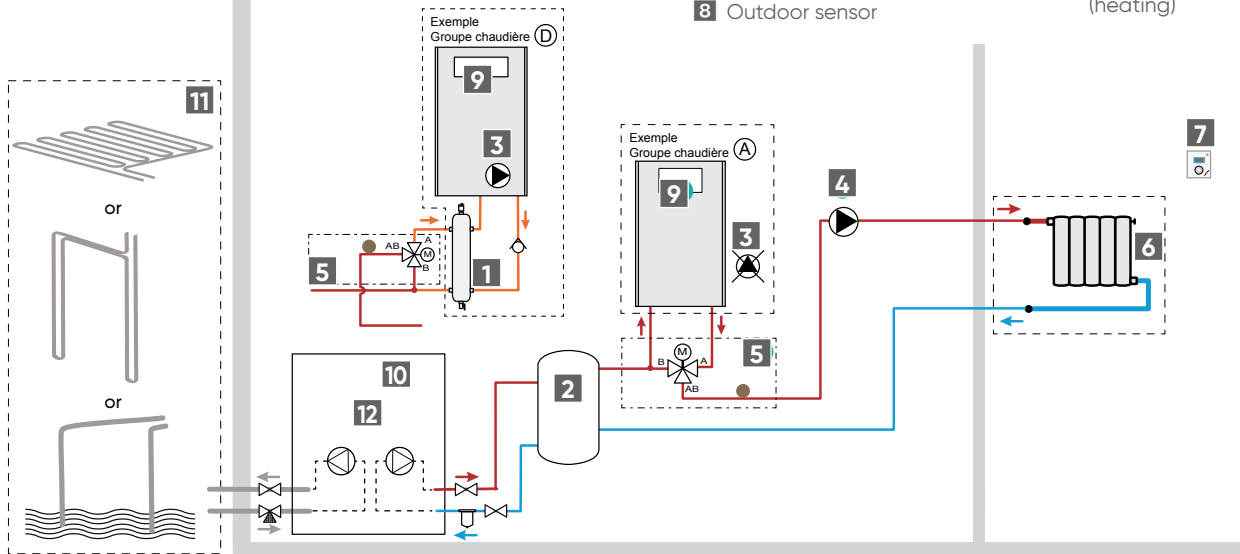
ATLANTIC GEOLIA: 2 ZONES + DHW TANK



*Optional

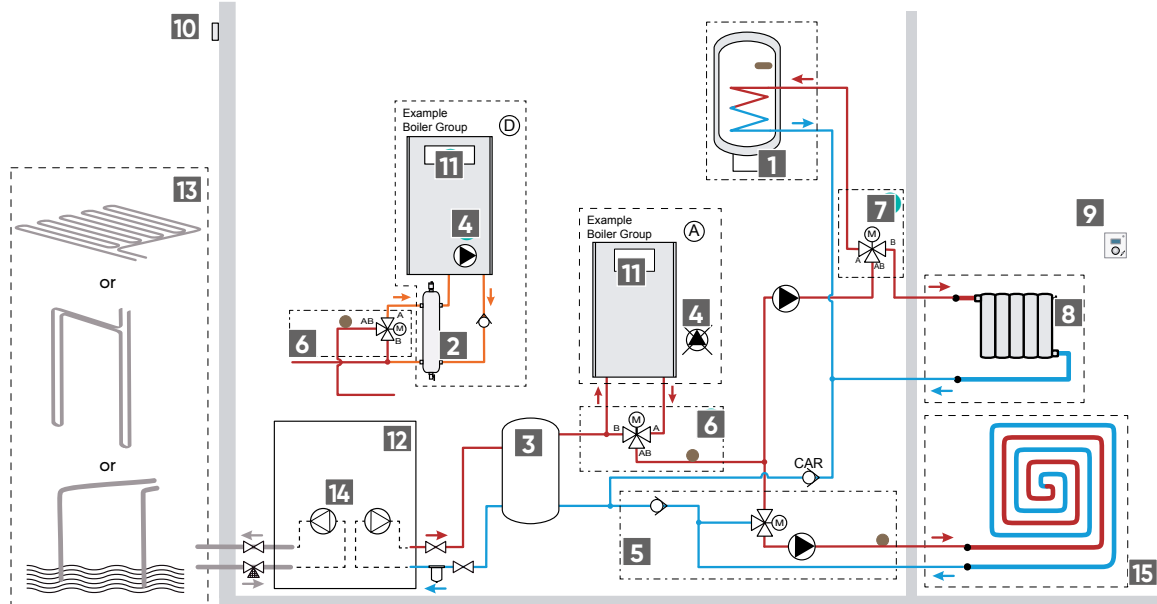
ATLANTIC GEOLIA: 1 ZONE + BOILER CONNECTION

- | | | |
|--|--|---|
| 1 Hydraulic separator bottle | 4 Heating circulator pump | 9 Terminals boiler room thermostat |
| 2 Buffer "hydraulic separation tank" | 5 Boiler connection kit* | 10 Heat pump |
| 3 Heating circulator pump built into boiler | 6 Radiator (or dynamic radiator) | 11 Brine pump |
| | 7 Room thermostat or room controller* | 12 Electric back-up (heating) |
| | 8 Outdoor sensor | |



ATLANTIC GEOLIA: 2 ZONES + DHW TANK + BOILER CONNECTION

- | | | | |
|--|---|--|--------------------------------------|
| 1 DHW tank* | 5 2 zones kit* | 9 Room thermostat or room controller* | 13 Brine pump |
| 2 Hydraulic separator bottle* | 6 Boiler connection kit* | 10 Outdoor sensor | 14 Electric back-up (heating) |
| 3 Buffer "hydraulic separation tank" | 7 DHW kit* | 11 Terminals boiler room thermostat | 15 Underfloor heating |
| 4 Heating circulator pump built into boiler | 8 Radiator (or dynamic radiator) | 12 Heat pump | |



*Optional