

Heat pumps

ecoGEO⁺

ecoGEO⁺ & AU

ecoAIR⁺



Ecoforest heat pumps

Technology for a sustainable world

Ecoforest is committed to innovation in order to achieve a sustainable future based on the use of renewable energy. This commitment has led Ecoforest to become a technological leader in the field of Inverter heat pumps, being the only manufacturer whose product range presents such modulating technology in all its models, both geothermal and aérothermal.



Ecoforest heat pumps allow to cover in an integrated way all the thermal needs of current buildings, as well domestic as industrial. Ecoforest offers three types of solutions depending on the energy source used by the equipment: ecoGEO⁺ water-to-water geothermal heat pumps, ecoGEO⁺ & AU water-to-water aérothermal heat pumps, and ecoAIR⁺ aérothermal air-water monobloc heat pumps. All the models in these three ranges make use of Inverter technology to obtain the best performances and thus guarantee comfort and efficiency together with a commitment to make the best use of renewable resources.

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ecoGEO⁺

Ground source heat pumps



ecoGEO⁺

Invertergroundsource,themo스테fficienttechnology

The ecoGEO⁺ range is the Ecoforest range of ground source heat pumps. These heat pumps, both domestic and high power, are compatible with any of the type of ground source collection system, even with hybrid air source-ground source collection systems and fully air source collection systems. Likewise, they are also capable of offering all the services required in a HVAC system in an integrated way: DHW, Heating, Pool heating, Passive Cooling (or Free Cooling) and Active Cooling.



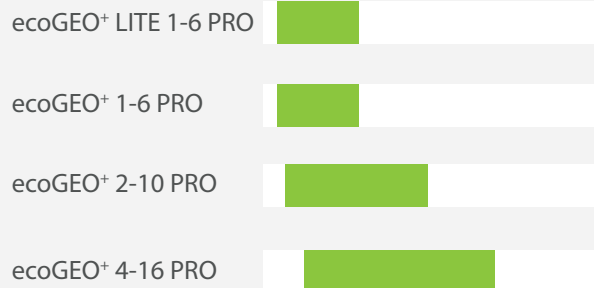
All ecoGEO⁺ heat pumps make use of Inverter technology, which allows them to modulate their power in order to adapt to the thermal demands of the installation with the highest efficiency. This translates into a very considerable reduction in electrical consumption and great savings. Thanks to the technology and control strategies developed by Ecoforest, the installation of ecoGEO⁺ heat pumps also becomes much simpler, more compact and cheaper than those of other heat pumps on the market, since it allows to dispense with certain components that would be necessary in traditional heat pump installations.

ecoGEO⁺ PRO Basic / Compact

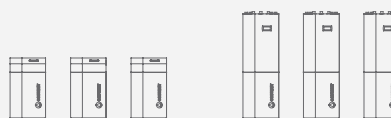
Residential range



Power ranges



Cascade



Services



DHW



Heating



Cooling



Pool

Models

ecoGEO⁺ B1/C1

DHW
Heating
Pool

ecoGEO⁺ B2/C2

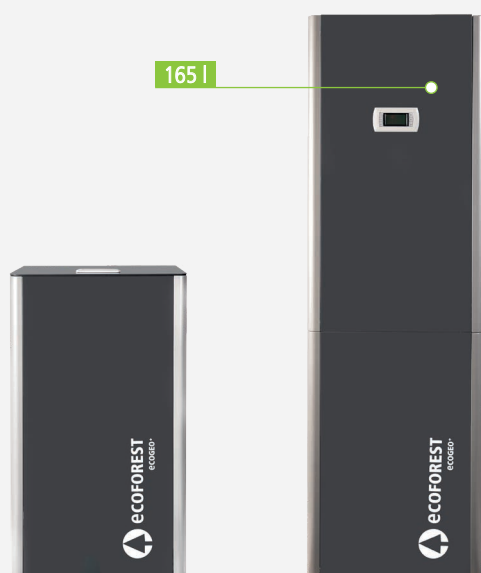
DHW
Heating
Pool
Free Cooling

ecoGEO⁺ B3/C3

DHW
Heating
Pool
Active Cooling

ecoGEO⁺ B4/C4

DHW
Heating
Pool
Free Cooling
Active Cooling



Inverter technology

Power ranges: 1-6 kW / 2-10 kW / 4-16 kW

Domestic hot water production

Heating and pool production

Integrated active cooling production

Integrated passive (free) cooling production

Internet connection through the ecoSMART Easynet

Integrated photovoltaic hybridisation

HTR technology for DHW production up to 75°C and simultaneous production of several services

Natural refrigerant R290

Integrated cascade management up to 3 units

Single-phase (230V) or three-phase (400V) power supply

Collection system



Ground



Open loop



Air



Hybrid



ecoGEO⁺ LITE 1-6 PRO



- Modulating thermal power control within a wide range (12,5-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290: GWP 3.
- Inverter technology.
- Compact design including brine and production circulation pumps, 7 liter production expansion vessel, brine and production safety valves and DHW three-way valve.
- Integrated management of up to 2 different emission temperatures.
- Integrated management of aerothermal collection modulating units, in case of air source or hybrid configurations.
- Integrated active cooling.
- Single-phase version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meters to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.
- Only 790 mm x 595 mm x 575 mm (height x width x depth).

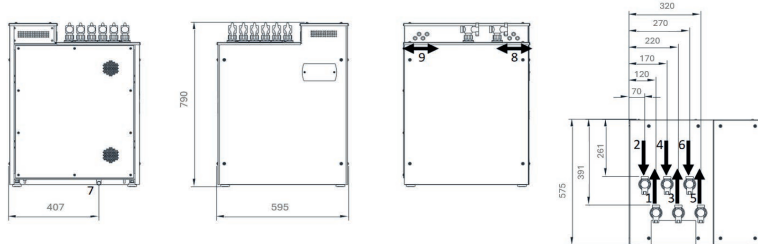


SPECIFICATIONS ecoGEO ⁺ LITE 1-6 PRO		UNITS	ecoGEO + LITE 1	ecoGEO + LITE 3
APPLICATION	Place of installation	-	Indoors	
	Type of brine system ¹	-	Ground source / Air source / Hybrid source	
	Heating	-	✓	✓
	Integrated Active cooling	-	--	✓
PERFORMANCE	Modulation range of the compressor	%	12,5 to 100	
	Heating power output ² , B0W35	kW	1,0 to 6,0	
	COP ² , B0W35	-	4,3	
	Active cooling power output ² , B35W7	kW	--	1,0 to 6,0
	EER ² , B35W7	-	--	4,4
	Max. DHW temperature without / with support ⁵	°C	75 / 80	
	Noise power emission level ⁶	db	33 to 44	
	Energy label / η _s	-	A+++ / 182%	
OPERATION LIMITS	Heating temperatures / Maximum setpoint	°C	10 to 75 / 75	
	Cooling temperatures / Min. setpoint	°C	-20 – 35 / -15	5 to 35 / 7
	Brine inlet temperature range in heating applications	°C	-25 to 35	
	Brine inlet temperature range in cooling applications	°C	10 to 75	
	Minimum / Maximum refrigerant circuit pressure	bar	0,5 / 32	
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5	
	Brine / Pre-load circuit pressure	bar	0,5 to 6	
WORKING FLUIDS	R290 Refrigerant load	kg	0,15	
	Compressor oil type / load	kg	PZ46M / 0,3	
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁸	-	✓	
	Transformer primary circuit fuse	A	0,5	
	Transformer secondary circuit fuse	A	2,5	
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz ⁸	-	✓	
	Maximum recommended external protection ⁹	-	C16A	
	Maximum consumption ² , B0W35	kW / A	1,6 / 6,8	
	Maximum consumption ² , B0W55	kW / A	2,0 / 8,6	
	Minimum / Maximum starting current ⁷	A	0,6 / 1,8	
	Correction of cosine Ø	-	0,96 - 1	
DIMENSIONS/WEIGHT	Height x width x depth	mm	790 x 595 x 575	
	Empty weight (without assembly)	kg	107	

1. Air source by replacing the ground source circuit by one or more ecoGEO+ AU air units. Consult the ecoGEO+ AU aerothermal units manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process

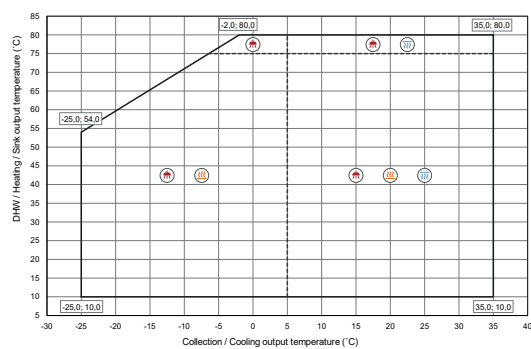
Dimensions and hydraulic connections

ecoGEO LITE 1-6 PRO

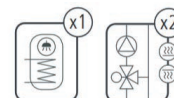


- | | |
|----------------------------------|----------------------------|
| 1. Heating/Cooling Outlet - 1" M | 6. DHW System Inlet - 1" M |
| 2. Heating/Cooling Inlet - 1" M | 7. Drain - G3/4" M |
| 3. Brine Outlet - 1" M | 8. Power cables inlet |
| 4. Brine Inlet - 1" M | 9. Control cables inlet |
| 5. DHW system Outlet - 1" M | |

Operational chart

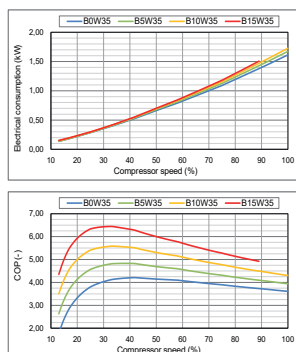
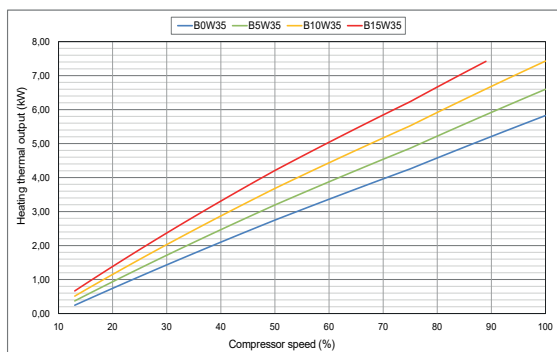


Installation management

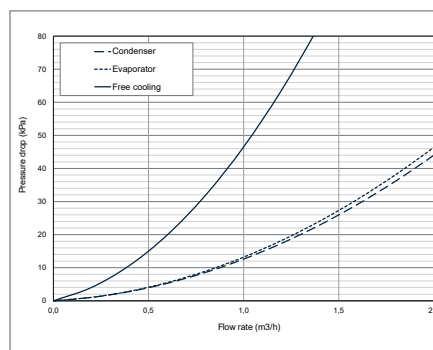
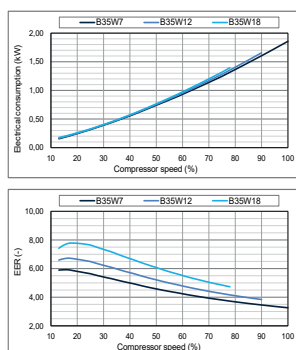
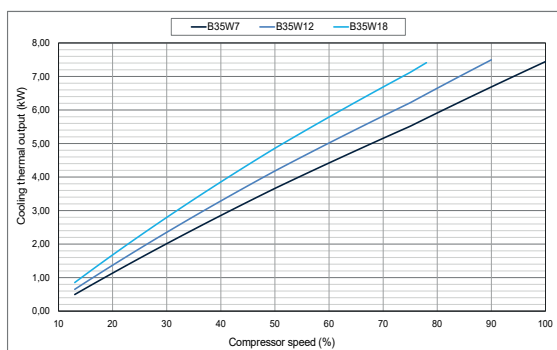
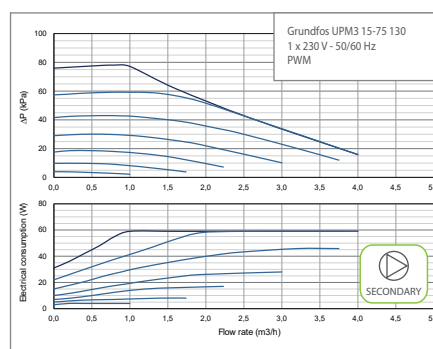
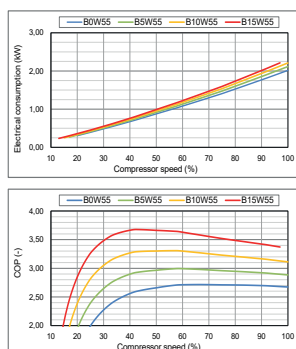
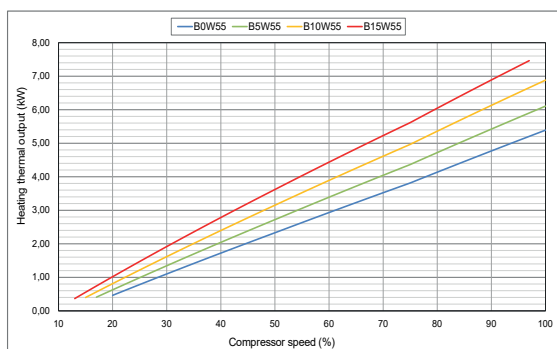
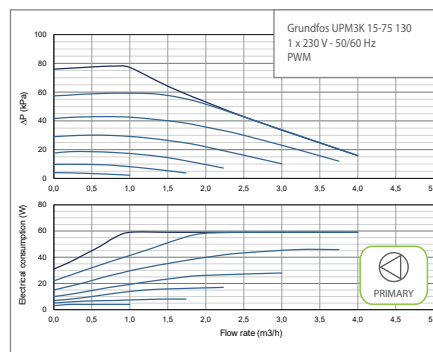


Performance curves

Thermal performance



Hydraulic performance



ecoGEO⁺ B/C 1-6 PRO

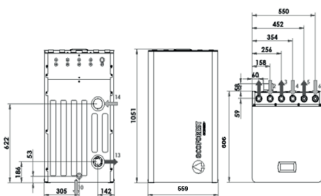
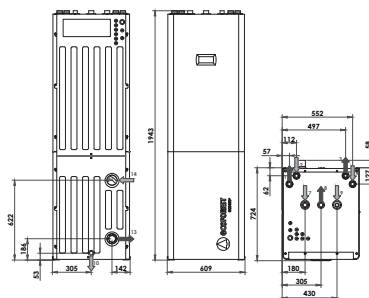


- Modulating thermal power control within a wider range (12,5-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290 : GWP 3.
- Inverter technology.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- Integrated management of up to 3 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of aero thermal collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO ⁺ B/C 1-6 PRO		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option	-	-	-	-	-
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	12,5 to 100			
	Heating power output ² , B0W35	kW	1,0 to 6,0			
	COP ² , B0W35	-	4,3			
	Active cooling power output ² , B35W7	kW	-	1,0 to 6,0		
	EER ² , B35W7	-	-	4,4		
	Max. DHW temperature without / with support ⁵	°C	75 / 80			
	Noise power emission level ⁶	db	33 to 44			
	Energy label / rjs / SCOP W35 average climate control	-	A+++ / 182% / 4,64			
OPERATION LIMITS	Energy label / rjs / SCOP W55 average climate control	-	A++ / 140% / 3,60			
	Distribution / Set heating outlet temperature range	°C	10 to 75 / 20 to 75			
	Distribution / Set cooling outlet temperature range	°C	-20 – 35 / -15	5 to 35 / 7		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 75			
	Minimum / Maximum refrigerant circuit pressure	bar	0,5 / 32			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO ⁺ C)	l / bar	165 / 8			
	WORKING FLUIDS	R290 Refrigerant load	kg	0,15		
Compressor oil type / load		kg	PZ46M / 0,3			
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Transformer primary circuit fuse	A	0,5			
ELECTRICAL DATA: SINGLE-PHASE	Transformer secondary circuit fuse	A	2,5			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C16A			
	Maximum consumption ² , B0W35	kW / A	1,6 / 6,8			
	Maximum consumption ² , B0W55	kW / A	2,0 / 8,6			
	Minimum / Maximum starting current ⁷	A	0,6 / 1,8			
DIMENSIONS/WEIGHT	Correction of cosine Ø	-	0,96 - 1			
	Height x width x depth	mm	ecoGEO ⁺ B: 1051x559x606 · ecoGEO ⁺ C: 1943x609x724			
	Empty weight (without assembly)	kq	B 125 · C 186	B 133 · C 194	B 125 · C 186	B 133 · C 194

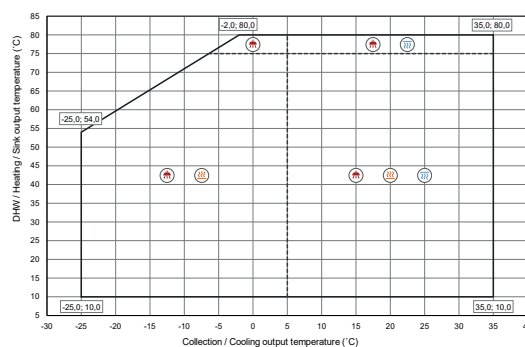
1. Air source by replacing the ground source circuit by one or more ecoGEO⁺ AU air units. Consult the ecoGEO⁺ AU aérothermal units manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.

Dimensions and hydraulic connections

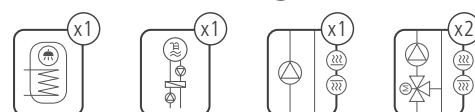
ecoGEO⁺ BecoGEO⁺ C

1. Heating/Cooling Outlet - 1" M
2. Heating/Cooling Inlet - 1" M
3. Brine Outlet - 1" M
4. Brine Inlet - 1" M
5. DHW system Outlet - 1" M
6. DHW System Inlet - 1" M
7. CW Inlet - 1" F
8. DHW Outlet - 1" F
9. DHW Recirculation Inlet - 3/4" F
10. Drain - 16 mm

Operational chart

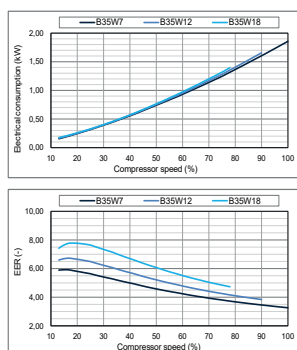
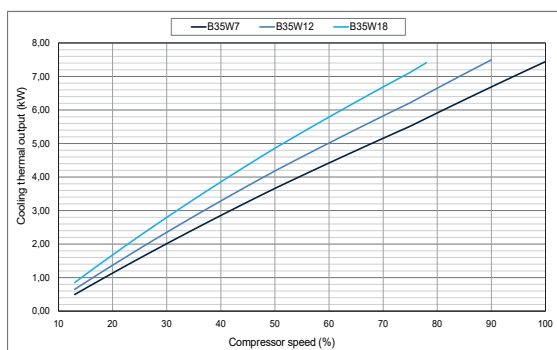
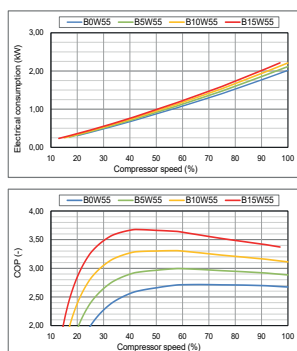
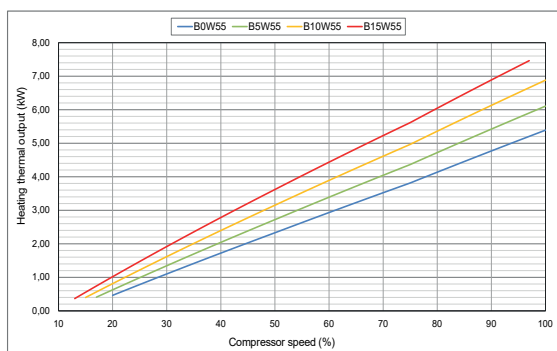
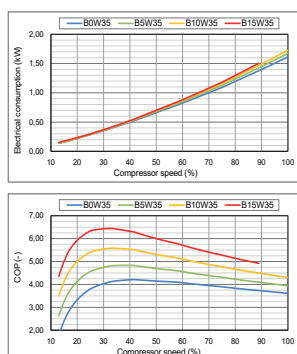
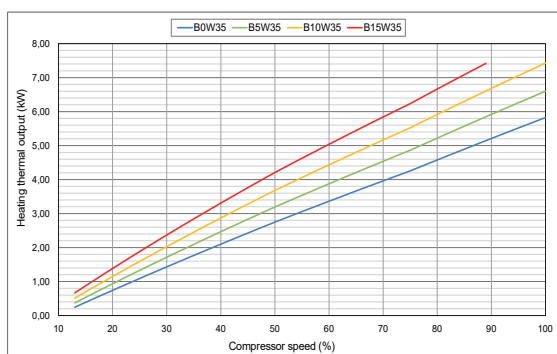


Installation management

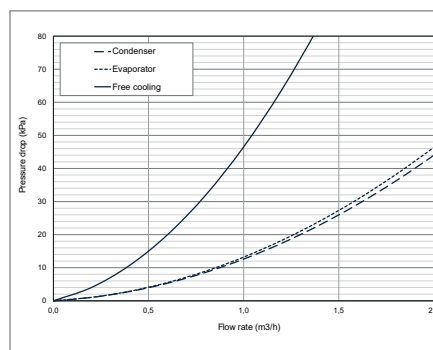
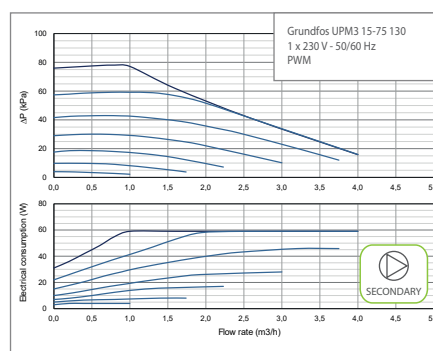
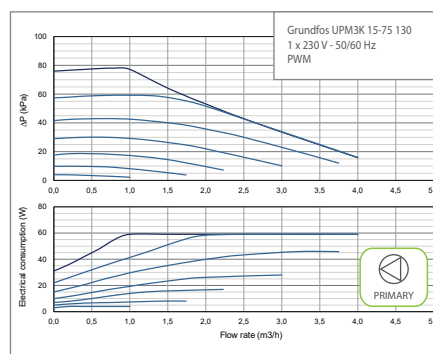


Performance curves

Thermal performance



Hydraulic performance



ecoGEO⁺ B/C 2-10 PRO

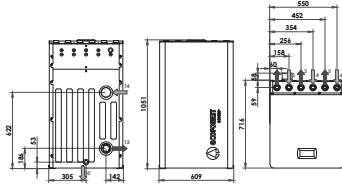
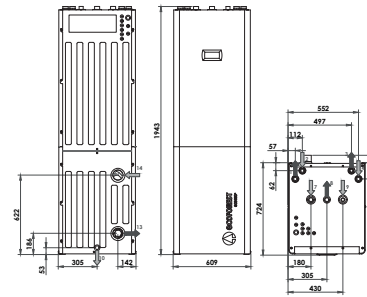


- Modulating thermal power control within a wide range (15-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290 : GWP 3.
- Inverter technology.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- Integrated management of up to 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of air source collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase (230V) and three-phase (400V) version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO+ B/C 2-10 PRO		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option ¹¹	-	✓	✓	✓	✓
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	15 to 100			
	Heating power output ² , B0W35	kW	1,9 to 10,2			
	COP ² , B0W35	-	4,3			
	Active cooling power output ² , B35W7	kW	-	1,6 to 8,6		
	EER ² , B35W7	-	-	4,1		
	Max. DHW temperature without / with support ⁵	°C	70 / 80			
	Noise power emission level ⁶	db	35 to 46			
	Energy label / r/s / SCOP W35 average climate control	-	A+++ / 187% / 4,78			
	Energy label / r/s / SCOP W55 average climate control	-	A++ / 140% / 3,75			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 70 / 70			
	Distribution / Set cooling outlet temperature range	°C	-20 to 35 / -15	5 to 35 / 7		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 70			
	Minimum / Maximum refrigerant circuit pressure	bar	1 / 32			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO+ C)	l / bar	165 / 8			
	WORKING FLUIDS	R290 Refrigerant load	kg	0,6		
	Compressor oil type / load	kg	HXL4467 / 0,74			
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C16A			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C25A			
	Maximum consumption ² , B0W35	kW / A	2,9 / 12,4			
	Maximum consumption ² , B0W55	kW / A	3,7 / 15,9			
	Minimum / Maximum starting current ⁷	A	2,8 / 5,8			
	Correction of cosine Ø	-	0,96 - 1			
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C13A			
	Maximum consumption ² , B0W35	kW / A	2,9 / 4,1			
	Maximum consumption ² , B0W55	kW / A	3,7 / 5,3			
	Minimum / Maximum starting current ⁷	A	0,9 / 4,2			
	Correction of cosine Ø	-	0,96 - 1			
DIMENSIONS/WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1051x609x716 · ecoGEO+ C: 1943x609x724			
	Emptv weight (without assembly)	kg	B 195 · C 260	B 205 · C 270	B 195 · C 260	B 205 · C 270

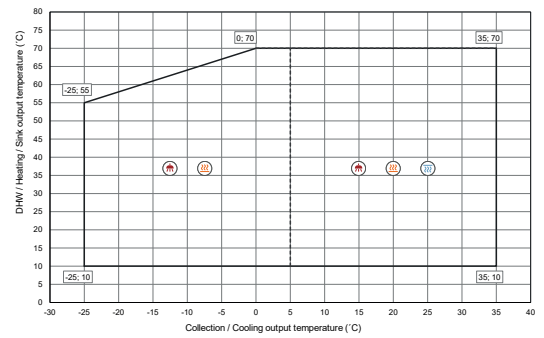
- Air source by replacing the ground source circuit by one or more ecoGEO⁺ AU air units. Consult the ecoGEO⁺ AU aerothermal units manual for more detailed information.
- In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
- Considering brine and production flow rates in compliance with EN 14511.
- Considering a heat slope from 20°C to 50°C in absence of consumption.
- Considering support provided by the emergency electrical heater.
- In compliance with EN 12102.
- Starting current depends on the working conditions of the hydraulic circuits.
- The admissible voltage range for proper operation of the heat pump is ±10%.
- Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
- Certification in process.
- Integrated by default in modules B3/C3 and B4/C4.

Dimensions and hydraulic connections

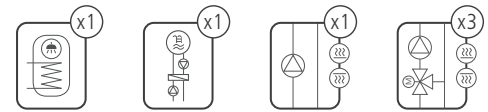
ecoGEO⁺ BecoGEO⁺ C

- | | |
|--------------------------------------|-------------------------------------|
| 1. Heating/Cooling Outlet - 1 1/4" M | 7. CW Inlet - 1" F |
| 2. Heating/Cooling Inlet - 1 1/4" M | 8. DHW Outlet - 1" F |
| 3. Brine Inlet - 1 1/4" M | 9. DHW Recirculation Inlet - 3/4" F |
| 4. Brine Inlet - 1 1/4" M | 10. Drain - 16 mm |
| 5. DHW system Outlet - 1 1/4" M | 11. Safety duct outlet - Ø80 |
| 6. DHW System Inlet - 1 1/4" M | 12. Safety duct inlet - Ø80 |

Operational chart

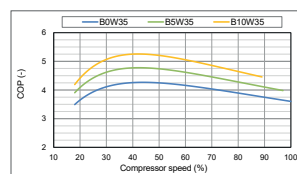
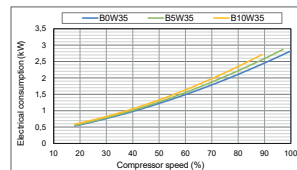
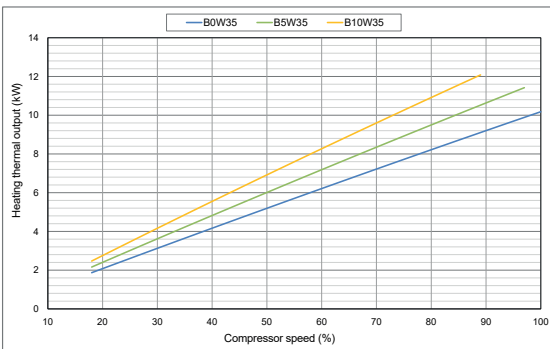


Installation management

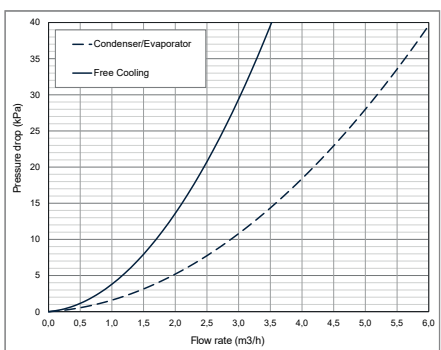
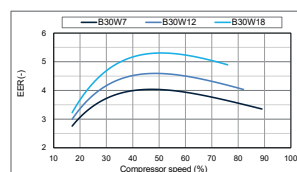
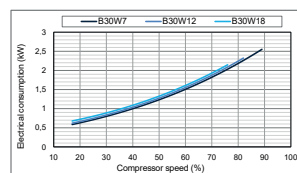
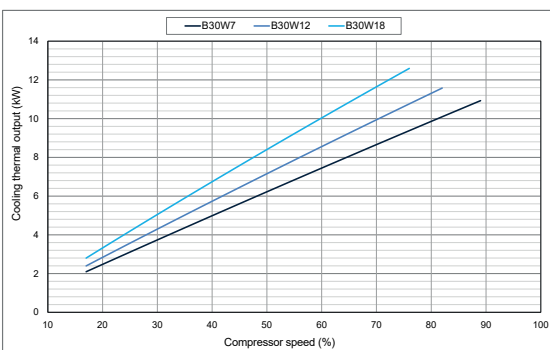
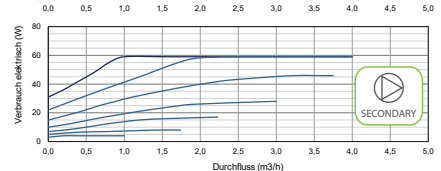
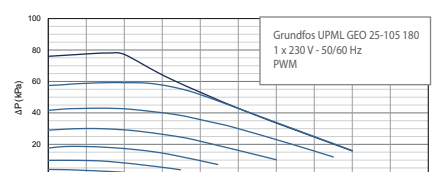
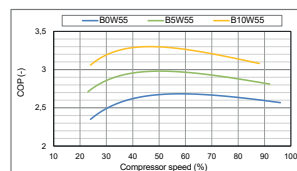
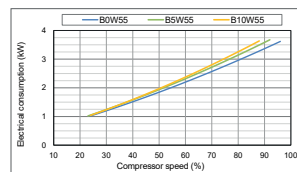
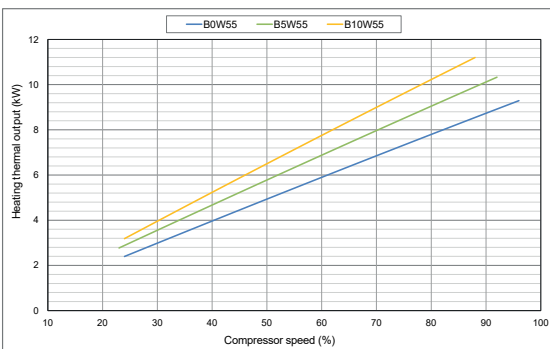
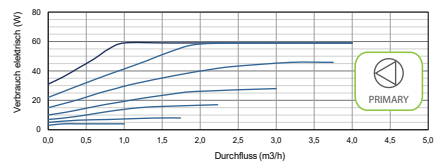
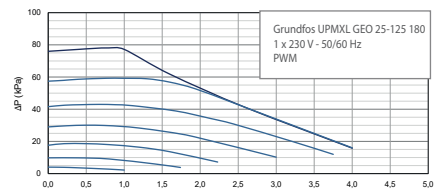


Performance curves

Thermal performance



Hydraulic performance



ecoGEO⁺ B/C 4-16 PRO

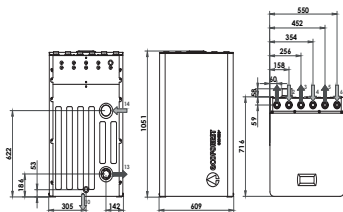
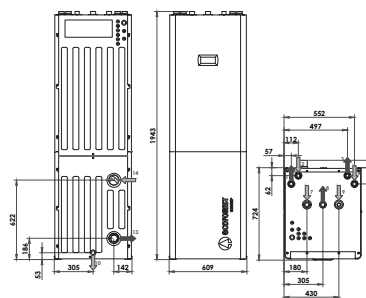


- Modulating thermal power control within a wide range (15-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Natural refrigerant R290 : GWP 3.
- Inverter technology.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- Integrated management of up to 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of air source collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase (230V) and three-phase (400V) version available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO+ B/C 4-16 PRO		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option ¹¹	-	✓	✓	✓	✓
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	15 to 100			
	Heating power output ² , B0W35	kW	3,1 to 16,1			
	COP ² , B0W35	-	4,6			
	Active cooling power output ² , B35W7	kW	-	2,2 to 13,8		
	EER ² , B35W7	-	-	3,7		
	Max. DHW temperature without / with support ⁵	°C	70 / 80			
	Noise power emission level ⁶	db	35 to 46			
	Energy label / r/s / SCOP W35 average climate control	-	A+++ / 190% / 4,85			
	Energy label / r/s / SCOP W55 average climate control	-	A++ / 146% / 3,84			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 70 / 70			
	Distribution / Set cooling outlet temperature range	°C	-20 to 35 / -15	5 to 35 / 7		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 70			
	Minimum / Maximum refrigerant circuit pressure	bar	1 / 32			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO+ C)	l / bar	165 / 8			
	R290 Refrigerant load	kg	0,86			
WORKING FLUIDS	Compressor oil type / load	kg	HXL4467 / 1,18			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
CONTROL ELECTRICAL DATA	Maximum recommended external protection ⁹	-	C16A			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
ELECTRICAL DATA: SINGLE-PHASE	Maximum recommended external protection ⁹	-	C32A			
	Maximum consumption ² , B0W35	kW / A	4,4 / 19,2			
	Maximum consumption ² , B0W55	kW / A	5,5 / 23,9			
	Minimum / Maximum starting current ⁷	A	2,6 / 12,5			
	Correction of cosine Ø	-	0,96 - 1			
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C13A			
	Maximum consumption ² , B0W35	kW / A	4,4 / 6,4			
	Maximum consumption ² , B0W55	kW / A	5,5 / 7,9			
	Minimum / Maximum starting current ⁷	A	0,9 / 4,2			
	Correction of cosine Ø	-	0,96 - 1			
DIMENSIONS/WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1051x609x716 · ecoGEO+ C: 1943x609x724			
	Emptv weight (without assembly)	kg	B 195 · C 260	B 205 · C 270	B 195 · C 260	B 205 · C 270

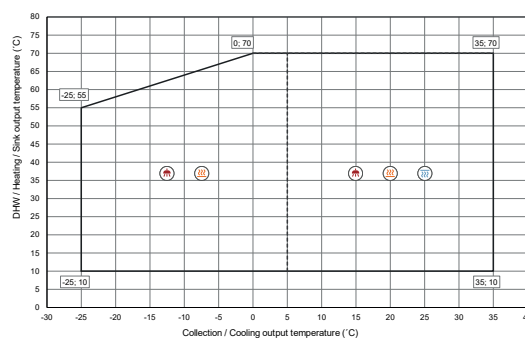
1. Air source by replacing the ground source circuit by one or more ecoGEO⁺ AU air units. Consult the ecoGEO⁺ AU aerothermal units manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.
11. Integrated by default in modules B3/C3 and B4/C4.

Dimensions and hydraulic connections

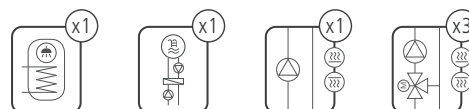
ecoGEO⁺ BecoGEO⁺ C

- | | |
|--------------------------------------|-------------------------------------|
| 1. Heating/Cooling Outlet - 1 1/4" M | 7. CW Inlet - 1" F |
| 2. Heating/Cooling Inlet - 1 1/4" M | 8. DHW Outlet - 1" F |
| 3. Brine Outlet - 1 1/4" M | 9. DHW Recirculation Inlet - 3/4" F |
| 4. Brine Inlet - 1 1/4" M | 10. Drain - 16 mm |
| 5. DHW system Outlet - 1 1/4" M | 11. Safety duct outlet - Ø80 |
| 6. DHW System Inlet - 1 1/4" M | 12. Safety duct inlet - Ø80 |

Operational chart

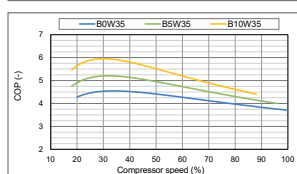
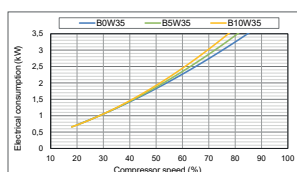
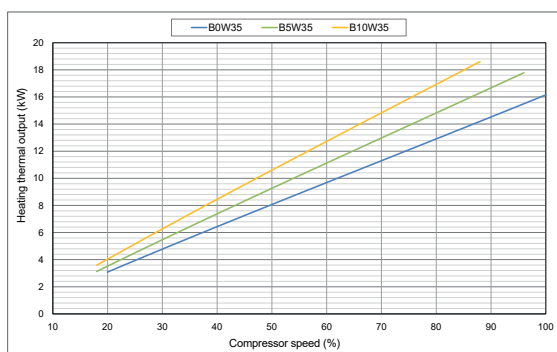


Installation management

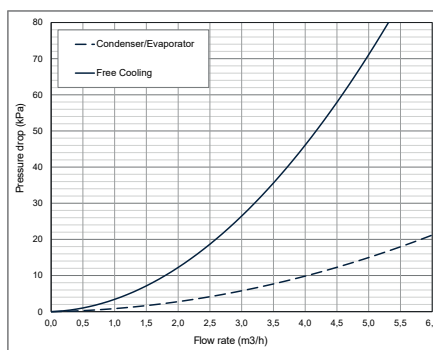
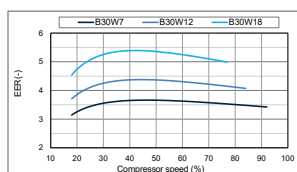
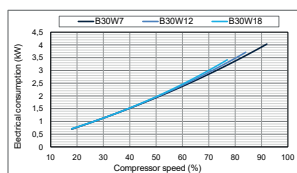
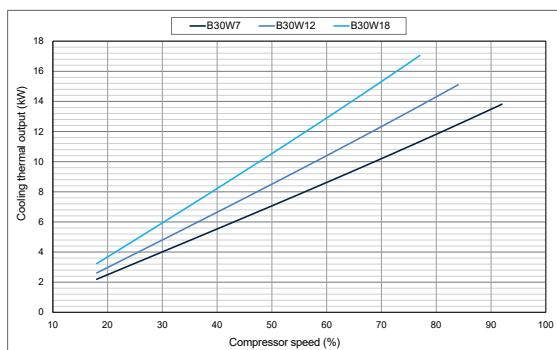
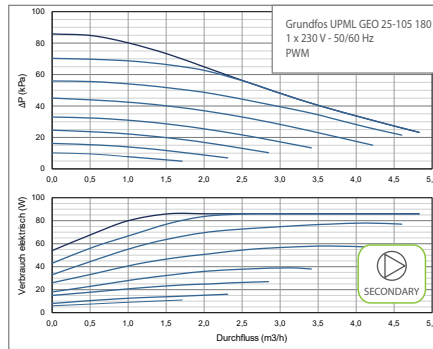
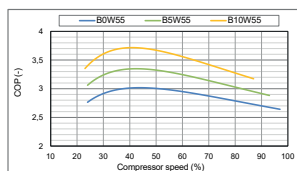
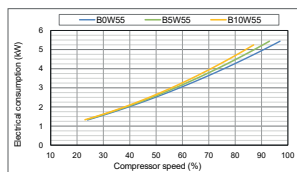
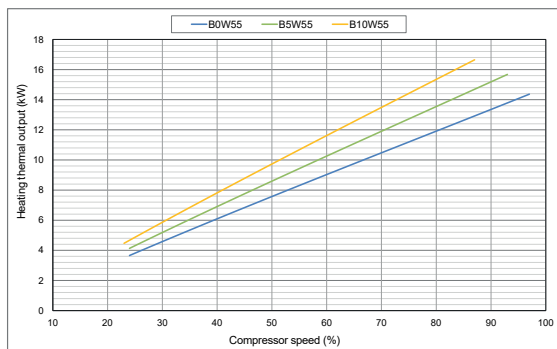
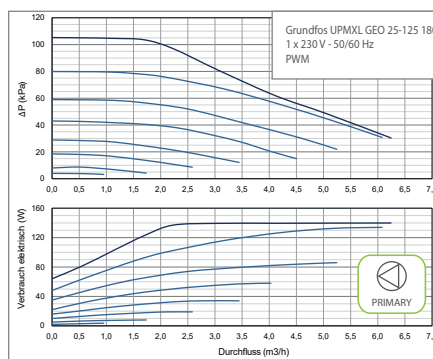


Performance curves

Thermal performance



Hydraulic performance



ecoGEO⁺ Basic / Compact

Residential range



Power ranges

ecoGEO⁺ 1-9



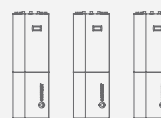
ecoGEO⁺ 3-12



ecoGEO⁺ 5-22



Cascade



Services



DHW



Heating



Cooling



Pool

Models

ecoGEO⁺ B1/C1

DHW
Heating
Pool

ecoGEO⁺ B2/C2

DHW
Heating
Pool
Free Cooling

ecoGEO⁺ B3/C3

DHW
Heating
Pool
Active Cooling

ecoGEO⁺ B4/C4

DHW
Heating
Pool
Free Cooling
Active Cooling



Inverter technology

Power ranges: 1-9 kW / 3-12 kW / 5-22 kW

Domestic hot water production

Heating and pool production

Integrated active cooling production

Integrated passive (free) cooling production

Internet connection through the ecoSMART Easynet

Integrated photovoltaic hybridisation

HTR technology for DHW production up to 70°C and simultaneous production of several services

Integrated cascade management up to 3 units

Single-phase (230V) or three-phase (400V) power supply

Collection system



Ground



Open loop



Air



Hybrid



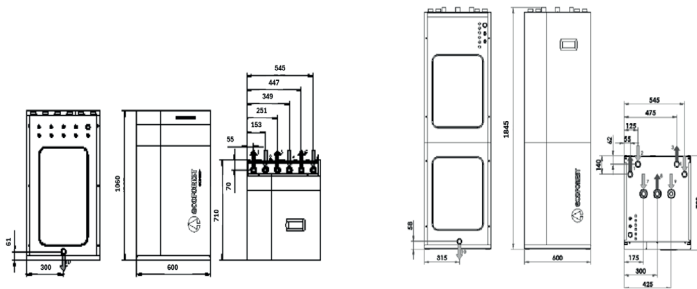
ecoGEO⁺ B/C 1-9

- Modulating thermal power control within a wider range (12,5-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Inverter technology and scroll compressor.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- High Temperature Recovery system (HTR) for DHW production up to 70°C without electrical support and simultaneous production of DHW and heating/cooling.
- Integrated management of up to 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of a thermal collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated management of cascade systems up to 3 units.
- Integrated management of simultaneous cooling/heating systems according to scheme.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase and Three-phase versions available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO+ B/C 1-9		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option	-	✓	✓	✓ by default	✓ by default
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	12,5 to 100			
	Heating power output ² , B0W35	kW	1,3 to 11,0			
	COP ² , B0W35	-	4,5			
	Active cooling power output ² , B35W7	kW	-	1,4 to 11,0		
	EER ² , B35W7	-	-	5,2		
	Max. DHW temperature without / with support ⁵	°C	63 / 70			
	Noise power emission level ⁶	db	33 to 44			
	Energy label / rjs / SCOP W35 average climate control	-	A+++ / 190% / 4,84			
	Energy label / rjs / SCOP W55 average climate control	-	A++ / 138% / 3,54			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 60 / 20 to 60			
	Distribution / Set cooling outlet temperature range	°C	-20 – 35 / -15	5 to 35 / 7		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 60			
	Minimum / Maximum refrigerant circuit pressure	bar	2 / 45			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO+ C)	l / bar	165 / 8			
	R410A Refrigerant load without HTR / with HTR	kg	0,8 / 0,85	1,0		
WORKING FLUIDS	Compressor oil type / load	kg	POE / 0,74			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
CONTROL ELECTRICAL DATA	Maximum recommended external protection ⁹	-	C16			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
ELECTRICAL DATA: SINGLE-PHASE	Maximum recommended external protection ⁹	-	C25A			
	Maximum consumption ² , B0W35	kW / A	2,7 / 11,8			
	Maximum consumption ² , B0W55	kW / A	3,8 / 16,5			
	Minimum / Maximum starting current ⁷	A	1,5 / 5,8			
	Correction of cosine Ø	-	0,96 - 1			
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C10A			
	Maximum consumption ² , B0W35	kW / A	2,7 / 4,0			
	Maximum consumption ² , B0W55	kW / A	3,8 / 5,5			
	Minimum / Maximum starting current ⁷	A	0,5 / 1,9			
	Correction of cosine Ø	-	0,96 - 1			
DIMENSIONS/WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1060x600x710 · ecoGEO+ C: 1845x600x720			
	Emotv weight (without assembly)	kg	B 184 · C 245	B 192 · C 253	B 184 · C 245	B 192 · C 253

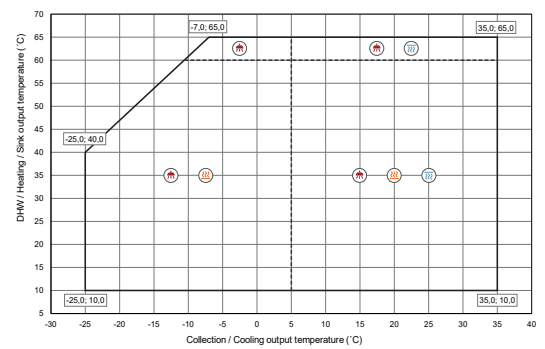
1. Air source/Hybrid source by replacing/combining the ground source circuit by/with one or more ecoGEO⁺ AU. Consult the ecoGEO⁺ AU manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater or the HTR system. Maximum DHW temperature with the HTR system can be limited by the compressor discharge temperature.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.

Dimensions and hydraulic connections

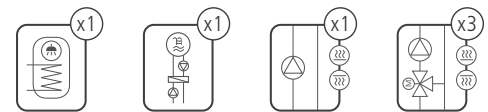
ecoGEO⁺ BecoGEO⁺ C

- | | |
|--------------------------------------|-------------------------------------|
| 1. Heating/Cooling Outlet - 1 1/4" M | 6. DHW System Inlet - 1 1/4" M |
| 2. Heating/Cooling Inlet - 1 1/4" M | 7. CW Inlet - 1" F |
| 3. Brine Outlet - 1 1/4" M | 8. DHW Outlet - 1" F |
| 4. Brine Inlet - 1 1/4" M | 9. DHW Recirculation Inlet - 3/4" F |
| 5. DHW system Outlet - 1 1/4" M | 10. Drain - 16 mm |

Operational chart

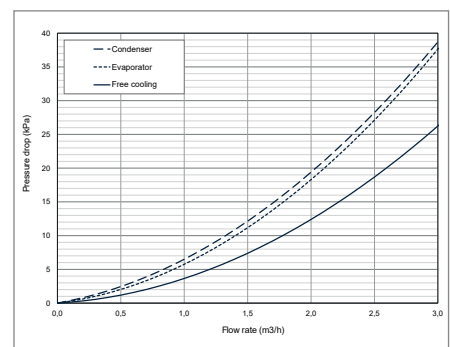
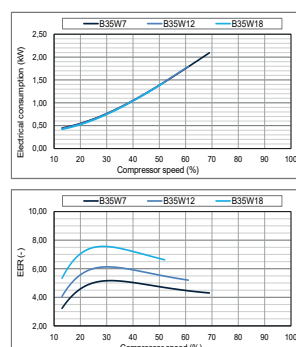
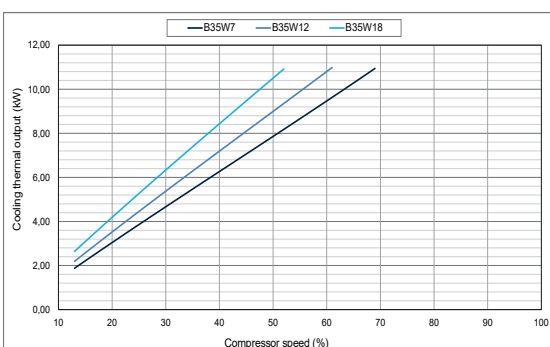
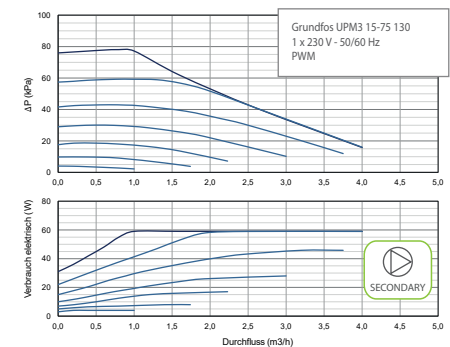
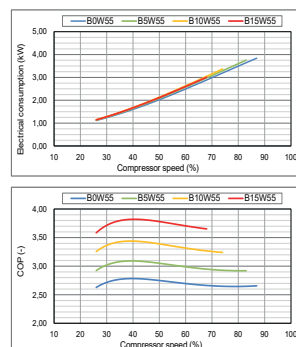
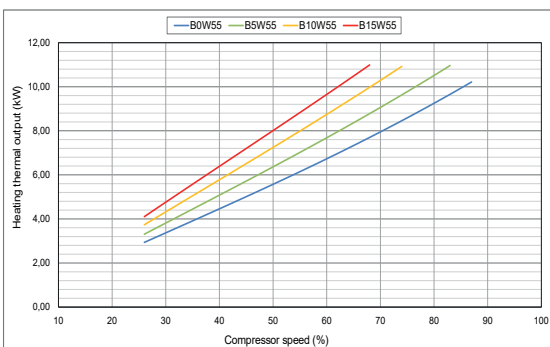
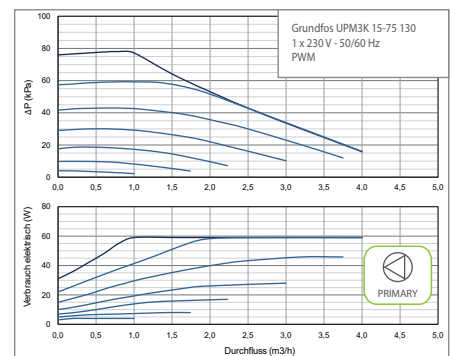
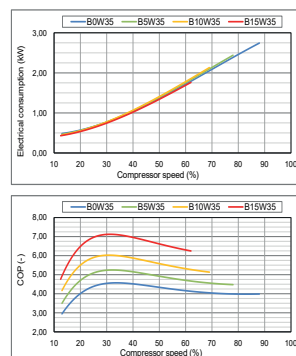
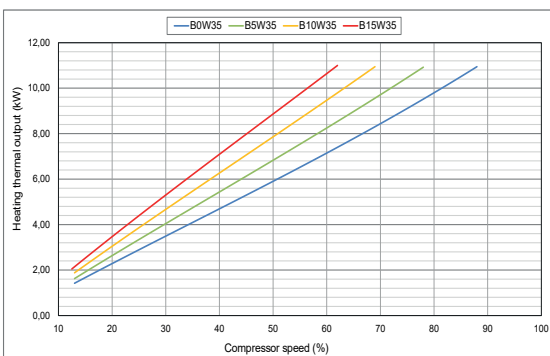


Installation management



Performance curves

Thermal performance



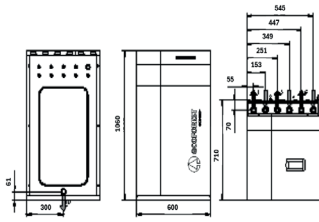
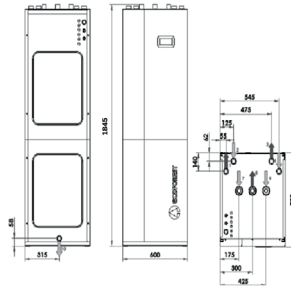
ecoGEO⁺ B/C 3-12

- Modulating thermal power control within a wider range (12,5-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Inverter technology and scroll compressor.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- High Temperature Recovery system (HTR) for DHW production up to 70°C without electrical support and simultaneous production of DHW and heating/cooling.
- Integrated management of up to 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of a thermal collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated management of cascade systems up to 3 units.
- Integrated management of simultaneous cooling/heating systems according to scheme.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase and Three-phase versions available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO+ B/C 3-12		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option	-	✓	✓	✓ by default	✓ by default
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	12,5 to 100			
	Heating power output ² , B0W35	kW	2,1 to 16,0			
	COP ² , B0W35	-	4,6			
	Active cooling power output ² , B35W7	kW	-	2,1 to 15,0		
	EER ² , B35W7	-	-	5,2		
	Max. DHW temperature without / with support ⁵	°C	63 / 70			
	Noise power emission level ⁶	db	34 to 45			
	Energy label / rjs / SCOP W35 average climate control	-	A+++ / 194% / 4,95			
	Energy label / rjs / SCOP W55 average climate control	-	A++ / 142% / 3,65			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 60 / 20 to 60			
	Distribution / Set cooling outlet temperature range	°C	-20 – 35 / -15	5 to 35 / 7		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 60			
	Minimum / Maximum refrigerant circuit pressure	bar	2 / 45			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO+ C)	l / bar	165 / 8			
	R410A Refrigerant load without HTR / with HTR	kg	0,9 / 1,0	1,0		
WORKING FLUIDS	Compressor oil type / load	kg	POE / 0,74			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
CONTROL ELECTRICAL DATA	Maximum recommended external protection ⁹	-	C16A			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
ELECTRICAL DATA: SINGLE-PHASE	Maximum recommended external protection ⁹	-	C32A			
	Maximum consumption ² , B0W35	kW / A	4,2 / 18,6			
	Maximum consumption ² , B0W55	kW / A	5,0 / 21,7			
	Minimum / Maximum starting current ⁷	A	2,0 / 8,0			
	Correction of cosine Ø	-	0,96 - 1			
ELECTRICAL DATA: THREE-PHASE	3/N/PE 400 V / 50-60Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C16A			
	Maximum consumption ² , B0W35	kW / A	4,2 / 6,2			
	Maximum consumption ² , B0W55	kW / A	5,0 / 7,2			
	Minimum / Maximum starting current ⁷	A	0,7 / 2,6			
	Correction of cosine Ø	-	0,96 - 1			
DIMENSIONS/WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1060x600x710 · ecoGEO+ C: 1845x600x720			
	Empty weight (without assembly)	kg	B 185 · C 246	B 193 · C 254	B 185 · C 246	B 193 · C 254

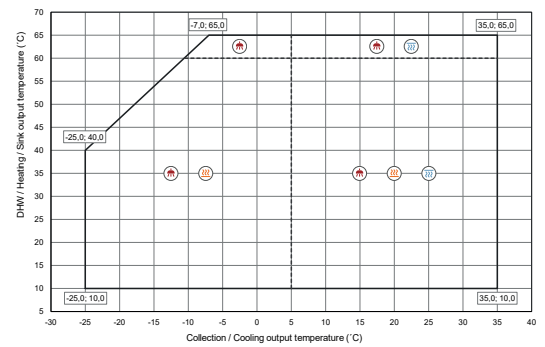
1. Air source/Hybrid source by replacing/combining the ground source circuit by/with one or more ecoGEO⁺ AU. Consult the ecoGEO⁺ AU manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater or the HTR system. Maximum DHW temperature with the HTR system can be limited by the compressor discharge temperature.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.

Dimensions and hydraulic connections

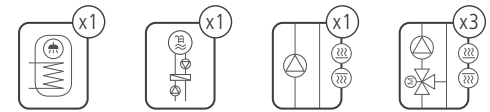
ecoGEO⁺ BecoGEO⁺ C

- | | |
|--------------------------------------|-------------------------------------|
| 1. Heating/Cooling Outlet - 1 1/4" M | 6. DHW System Inlet - 1 1/4" M |
| 2. Heating/Cooling Inlet - 1 1/4" M | 7. CW Inlet - 1" F |
| 3. Brine Outlet - 1 1/4" M | 8. DHW Outlet - 1" F |
| 4. Brine Inlet - 1 1/4" M | 9. DHW Recirculation Inlet - 3/4" F |
| 5. DHW system Outlet - 1 1/4" M | 10. Drain - 16 mm |

Operational chart

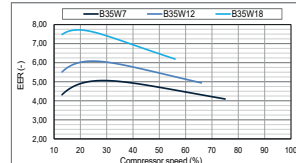
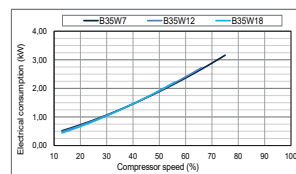
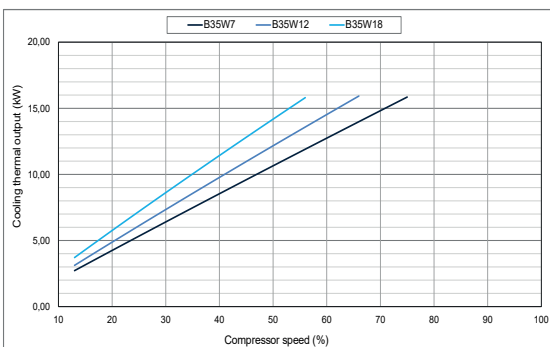
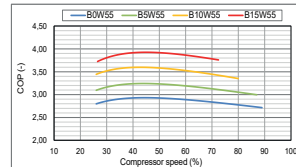
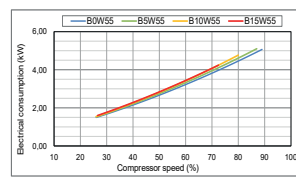
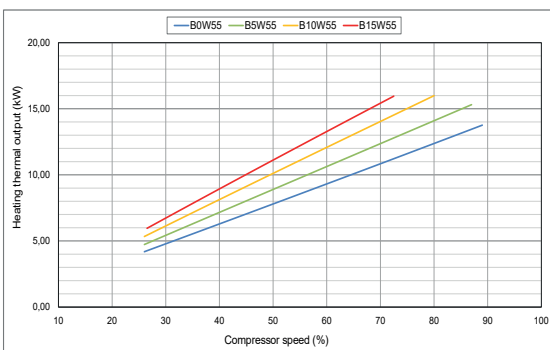
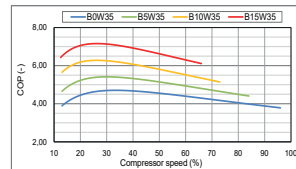
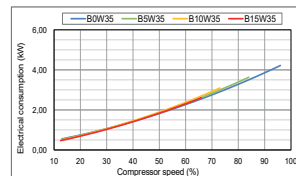
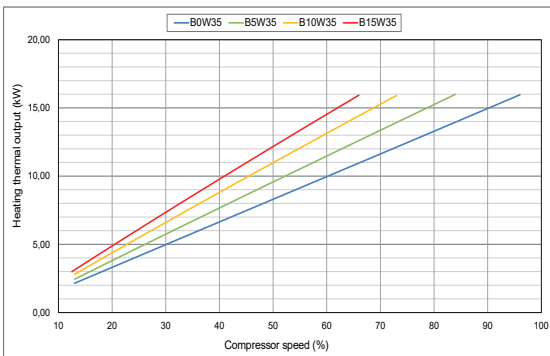


Installation management

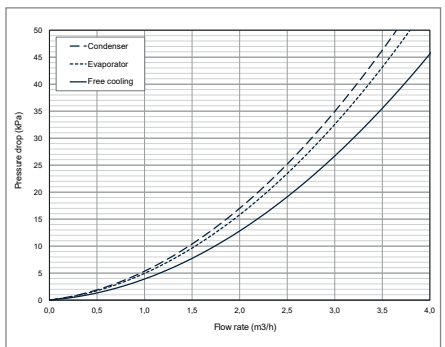
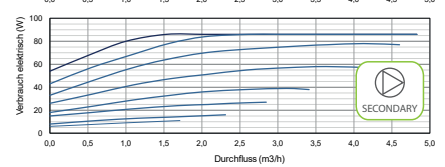
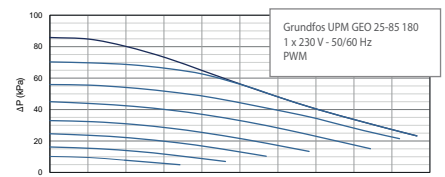
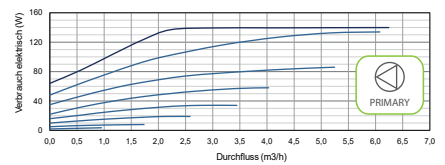
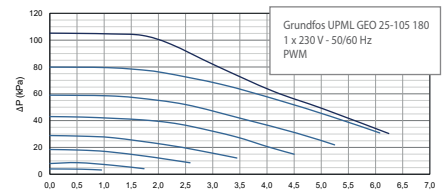


Performance curves

Thermal performance



Hydraulic performance



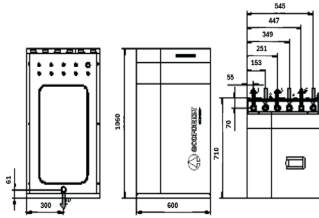
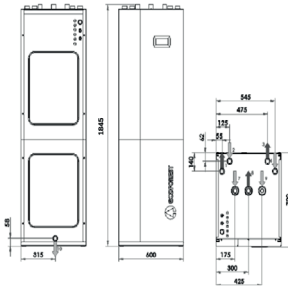
ecoGEO⁺ B/C 5-22

- Modulating thermal power control within a wide range (15-100%) and modulating flow rate control of both brine and production circuits (20-100%).
- Inverter technology and scroll compressor.
- Compact design including brine and production circulation pumps, brine and production expansion vessels (8 and 12 respectively), brine and production safety valves and DHW three-way valve.
- High Temperature Recovery system (HTR) for DHW production up to 70°C without electrical support and simultaneous production of DHW and heating/cooling.
- Integrated management of up to 4 different emission temperatures, 2 buffer tanks (heating and cooling), 1 DHW tank, 1 pool and hourly control of DHW recirculation.
- Integrated management of a thermal collection modulating units, in case of air source or hybrid configurations.
- Integrated management of external On/Off modulating auxiliary systems, such as electrical heaters, On/Off boilers or modulating boilers.
- Integrated management of cascade systems up to 3 units.
- Integrated management of simultaneous cooling/heating systems according to scheme.
- Integrated free cooling in models 2 and 4.
- Integrated active cooling in models 3 and 4.
- Single-phase and Three-phase versions available.
- Integrated photovoltaic hybridisation.
- Integrated energy meter to measure the electrical consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.

SPECIFICATIONS ecoGEO ⁺ B/C 5-22		UNITS	B1/C1	B2/C2	B3/C3	B4/C4
APPLICATION	Place of installation	-	Indoors			
	Type of brine system ¹	-	Ground source / Air source / Hybrid source			
	DHW, Heating and Pool	-	✓	✓	✓	✓
	High Temperature Recovery (HTR) system option	-	✓	✓	✓ by default	✓ by default
	Integrated Active cooling	-	-	-	✓	✓
	Integrated Passive cooling	-	-	✓	-	✓
PERFORMANCE	Modulation range of the compressor	%	15 to 100			
	Heating power output ² , B0W35	kW	4,0 to 22,8			
	COP ² , B0W35	-	4,9			
	Active cooling power output ² , B35W7	kW	-	4,2 to 22,0		
	EER ² , B35W7	-	-	5,3		
	Max. DHW temperature without / with support ⁵	°C	63 / 70			
	Noise power emission level ⁶	db	35 to 46			
	Energy label / rjs / SCOP W35 average climate control	-	A+++ / 184% / 4,71			
	Energy label / rjs / SCOP W55 average climate control	-	A++ / 147% / 3,77			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 to 60 / 20 to 60			
	Distribution / Set cooling outlet temperature range	°C	-20 – 35 / -15		5 to 35 / 7	
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 60			
	Minimum / Maximum refrigerant circuit pressure	bar	2 / 45			
	Production / Pre-load circuit pressure	bar	0,5 to 3,0 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3,0 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO ⁺ C)	l / bar	165 / 8			
	WORKING FLUIDS	R410A Refrigerant load without HTR / with HTR	kg	1,4	1,5	
Compressor oil type / load		kg	POE / 1,18			
CONTROL ELECTRICAL DATA	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C16A			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C32A			
	Maximum consumption ² , B0W35	kW / A	5,5 / 23,9			
	Maximum consumption ² , B0W55	kW / A	5,5 / 23,9			
	Minimum / Maximum starting current ⁷	A	2,6 / 12,5			
ELECTRICAL DATA: THREE-PHASE	Correction of cosine Ø	-	0,96 - 1			
	3/N/PE 400 V / 50-60Hz ⁸	-	✓			
	Maximum recommended external protection ⁹	-	C16A			
	Maximum consumption ² , B0W35	kW / A	6,0 / 8,7			
	Maximum consumption ² , B0W55	kW / A	6,0 / 8,7			
	Minimum / Maximum starting current ⁷	A	0,9 / 4,2			
DIMENSIONS/WEIGHT	Correction of cosine Ø	-	0,96 - 1			
	Height x width x depth	mm	ecoGEO ⁺ B: 1060x600x710 · ecoGEO ⁺ C: 1845x600x720			
	Empty weight (without assembly)	kg	B 185 · C 247	B 193 · C 255	B 185 · C 247	B 193 · C 255

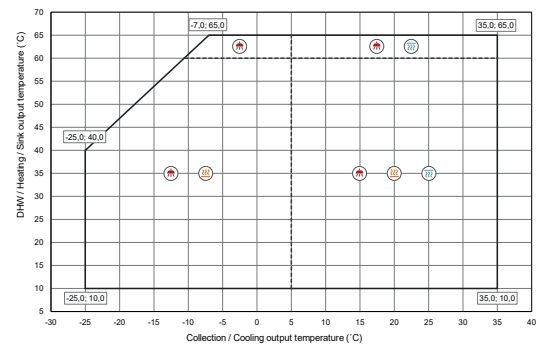
1. Air source/Hybrid source by replacing/combining the ground source circuit by/with one or more ecoGEO⁺ AU. Consult the ecoGEO⁺ AU manual for more detailed information.
2. In compliance with EN 14511, this includes the consumption of the circulation pumps and the compressor driver.
3. Considering brine and production flow rates in compliance with EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater or the HTR system. Maximum DHW temperature with the HTR system can be limited by the compressor discharge temperature.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.

Dimensions and hydraulic connections

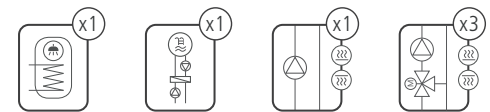
ecoGEO⁺ BecoGEO⁺ C

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|--------------------------------------|-------------------------------------|
| 1. Heating/Cooling Outlet - 1 1/4" M | 6. DHW System Inlet - 1 1/4" M |
| 2. Heating/Cooling Inlet - 1 1/4" M | 7. CW Inlet - 1" F |
| 3. Brine Outlet - 1 1/4" M | 8. DHW Outlet - 1" F |
| 4. Brine Inlet - 1 1/4" M | 9. DHW Recirculation Inlet - 3/4" F |
| 5. DHW system Outlet - 1 1/4" M | 10. Drain - 16 mm |

Operational chart

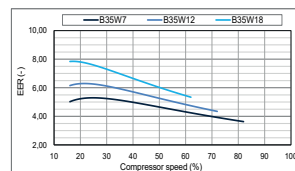
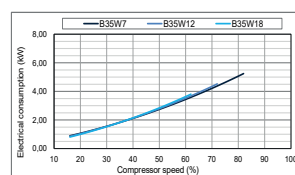
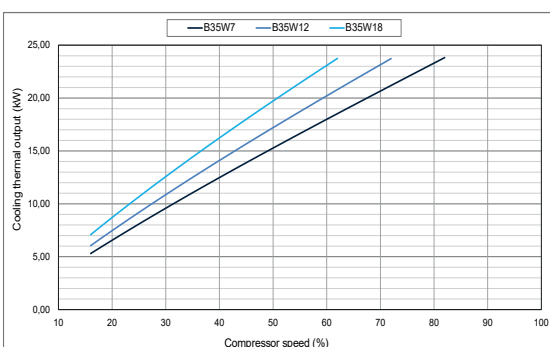
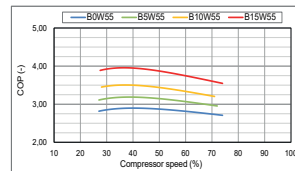
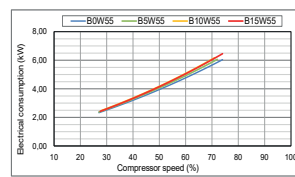
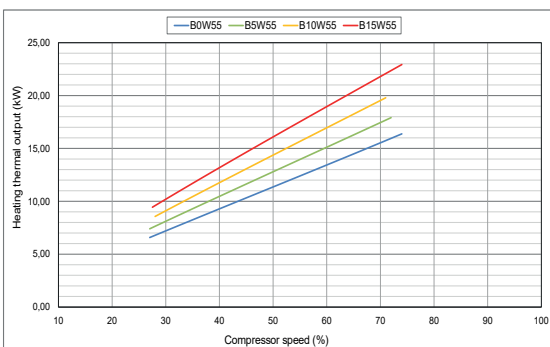
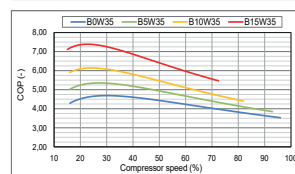
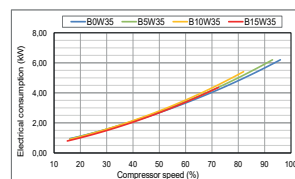
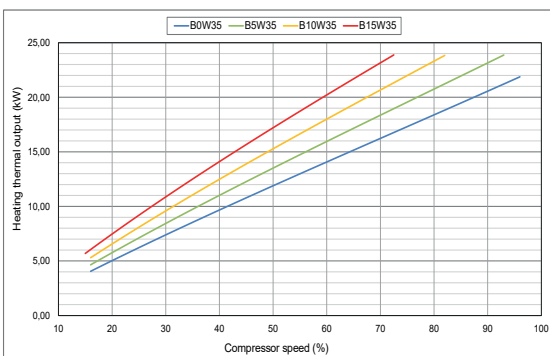


Installation management

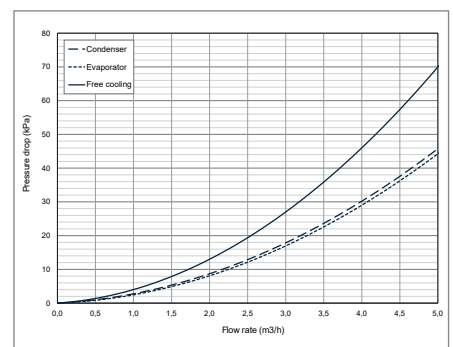
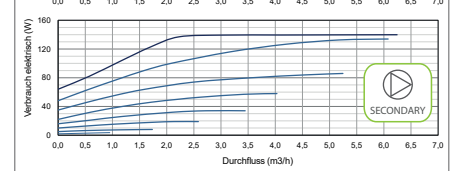
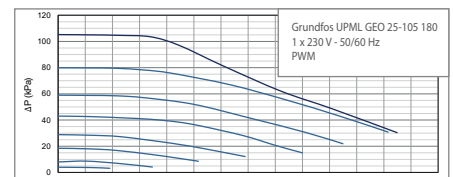
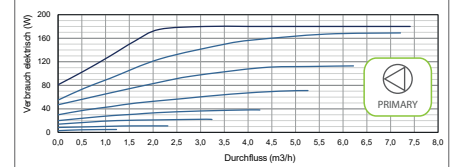
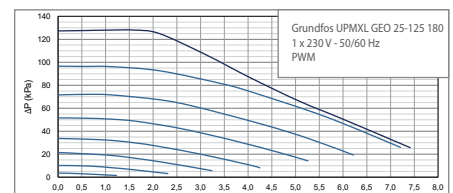


Performance curves

Thermal performance



Hydraulic performance



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