



## ecoGEO<sup>+</sup> B/C

R410A 1-9kW/3-12kW/5-22kW  
Brine to Water Heat Pumps  
with Inverter Technology

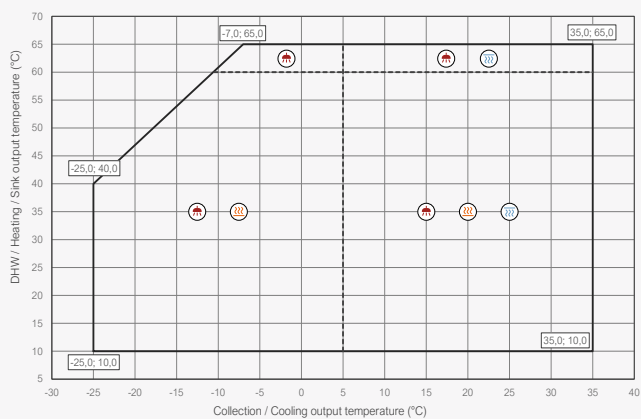


## Characteristics

- Modulating thermal output control across a wide range (17%–100%) and modulating flow control in both source and production circuits (20%–100%).
- R410A refrigerant.
- Inverter technology.
- Compact design including source and production circulators, 8L and 12L expansion vessels for source and production respectively, safety valves for source and production circuits, and a 3-way DHW valve.
- High Temperature Recovery (HTR) system for DHW production up to 70 °C without auxiliary support and simultaneous production of DHW and heating/cooling.
- Integrated management of up to four different flow temperatures, two buffer tanks (heating and cooling), one DHW tank, one swimming pool, and time scheduling of DHW recirculation.
- Integrated control of external auxiliary backup systems—on/off or modulating (electric heaters, boilers, etc.).
- Cascade management of up to three heat pumps.
- Integrated management of simultaneous heating/cooling production and emission systems, depending on the system layout.
- Passive cooling integrated in B2/C2 and B4/C4 models.
- Active cooling via cycle inversion integrated in B3/C3 and B4/C4 models.
- Available in both single-phase and three-phase versions.
- Integrated photovoltaic hybridisation.
- Integrated energy meters for monitoring electrical consumption, thermal output (heating/cooling), and instantaneous as well as seasonal efficiency monthly and annual.

## Operational chart

ecoGEO<sup>+</sup> B/C 1-9 | ecoGEO<sup>+</sup> B/C 3-12 | ecoGEO<sup>+</sup> B/C 5-22



# ecoGEO<sup>+</sup> B/C 1-9

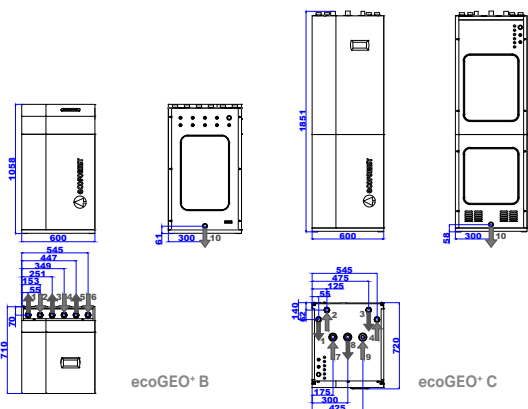
Brine to water heat pumps with Inverter technology and R410A refrigerant



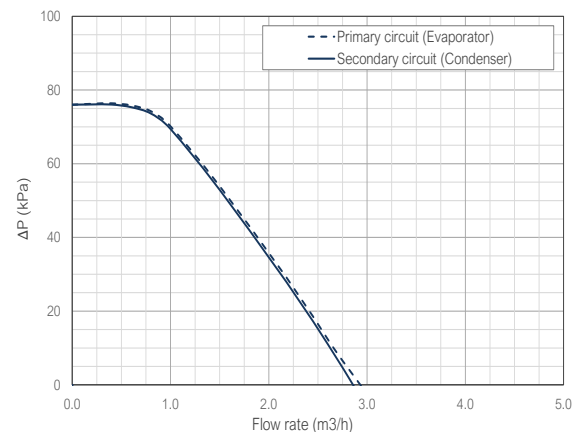
SPECIFICATIONS ecoGEO+ Basic / Compact		ecoGEO+ 1-9			
		B1 / C1	B2 / C2	B3 / C3	B4 / C4
APPLICATION	Place of installation	-	Indoor		
	Collection system	-	Ground source / Open loop		
	DHW, Heating and Pool heating	-	■	■	■
	Integrated passive cooling	-	-	-	■
	Integrated active cooling	-	-	-	■
PERFORMANCE	Compressor modulation range	%	12.5 - 100		
	<sup>(2)</sup> Heating power output / COP B0W35	kW / -	1.3 - 11.0 / 4.5		
	<sup>(2)</sup> Heating power output / COP B0W55	kW / -	2.9 - 10.2 / 2.7		
	<sup>(2)</sup> Cooling power output / EER B30W7	kW / -	-	1.4 - 11.0 / 5.2	
	<sup>(6)</sup> Max. DHW temperature without / with support	°C	63 / 70		
	<sup>(6)</sup> Maximum noise power level (LWA)	dB (A)	54		
	Energy label / η <sub>s</sub> / SCOP W35 average clim. with control	-	A+++ / 190 % / 4.84		
Energy label / η <sub>s</sub> / SCOP W55 average clim. with control	-	A++ / 144% / 3.71			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 - 60 / 20 - 60		
	Distribution / Set cooling outlet temperature range	°C	-	5 - 35 / 7 - 30	
	Collection temperature range in heating / cooling mode	°C	-22 - 35 / 10 - 60		
	Minimum / Maximum refrigerant circuit pressure	bar	2.0 / 45.0		
	Collection / Production circuit pressure range (preload)	bar	0,5 - 3,0 (0,7) / 0,5 - 3,0 (1,5)		
	DHW tank capacity / maximum pressure	l / bar	165 / 8.0 (ecoGEO+ C)		
WORKING FLUIDS	R410A refrigerant load (GWP: 2088)	kg	0,90 / 0,85 (HTR)		1.00
	Compressor oil type / load	kg	POE / 0.74		
	Primary circ. flow rate (Pmax, B0W35) ΔT 3°C / ΔT 5°C	m <sup>3</sup> /h	2.6 / 1.6		
	Secondary circ. flow rate (Pmax, B0W35) ΔT 5°C / ΔT 7°C	m <sup>3</sup> /h	1.9 / 1.4		
CONTROL ELECTRICAL DATA	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C16A		
	Transformer primary circuit fuse	A	0.5		
	Transformer secondary circuit fuse	A	2.5		
HEAT PUMP ELECTRICAL DATA: SINGLE-PHASE VERSION	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C25A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	2.7 / 11.8		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	3.8 / 16.5		
	<sup>(7)</sup> Minimum / Maximum starting current	A	1.5 / 5.8		
HEAT PUMP ELECTRICAL DATA: THREE-PHASE VERSION	Correction of cos Ø	-	0.96 / 1		
	<sup>(6)</sup> 3/N/PE 400 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C10A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	2.7 / 4.0		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	3.8 / 5.5		
DIMENSIONS & WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1058x600x710 / ecoGEO+ C: 1845x600x720		
	Empty weight (without packaging)	kg	B: 184 / C: 245	B: 192 / C: 253	B: 184 / C: 245
					B: 192 / C: 253

- Air-to-water by means of a brine-to water heat pump combined with a hydraulic outdoor air unit.
- In compliance with EN 14511, including circulation pumps, fan and compressor driver consumptions.
- Production flow rate according to EN 14511.
- Considering a heat slope from 20 to 50 °C in absence of consumption.
- Considering support provided by an emergency electrical heater or HTR. Max. DHW temp. with HTR can be limited by the compressor discharge temp.
- 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 information.
- Certification in process.

## Dimensions and hydraulic connections

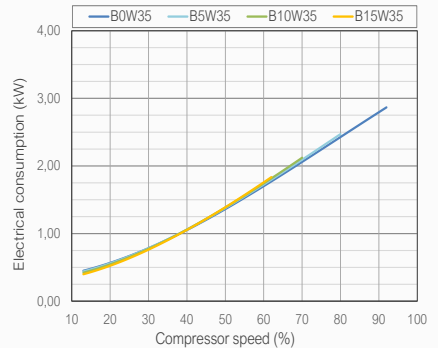
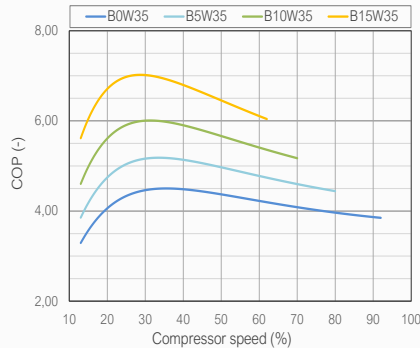
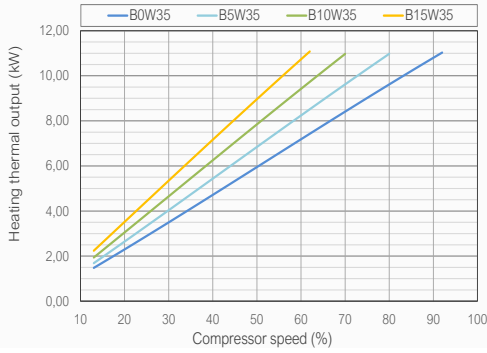


## Available pressure drop

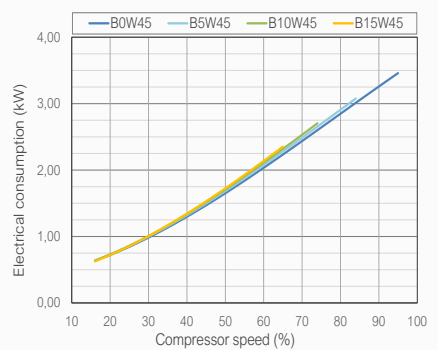
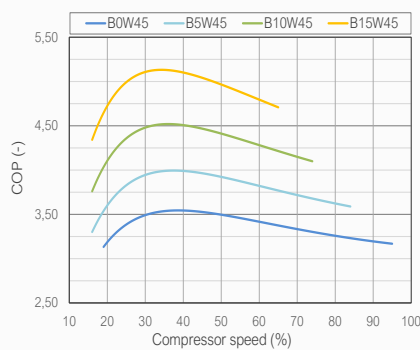
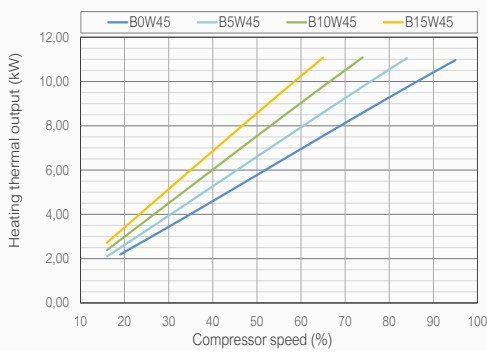


- Heating/Cooling outlet  
1 1/4" M
- Heating/Cooling inlet  
1 1/2" M
- Brine outlet  
1 1/4" M
- Brine inlet  
1 1/4" M
- DHW system outlet  
1 1/2" M
- DHW system inlet  
1 1/2" M
- CW inlet  
1" H
- DHW outlet  
1" H
- DHW recirculation inlet  
3/4" H
- Drain  
16mm

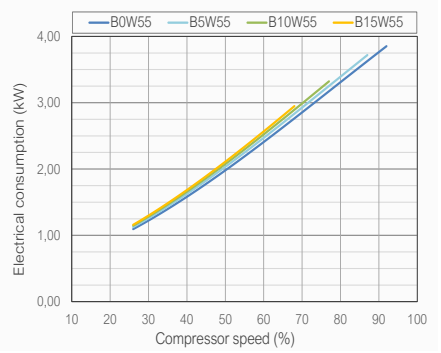
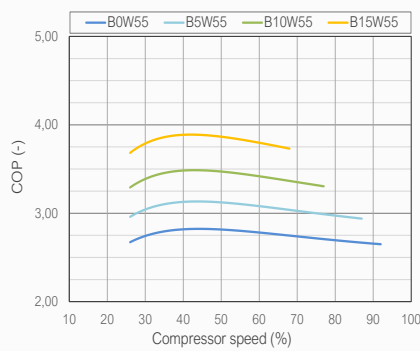
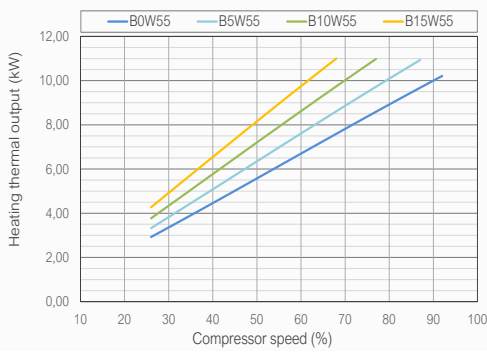
Heating W35



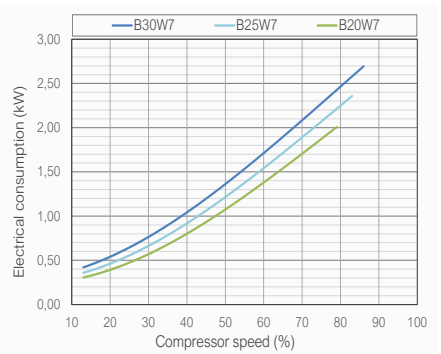
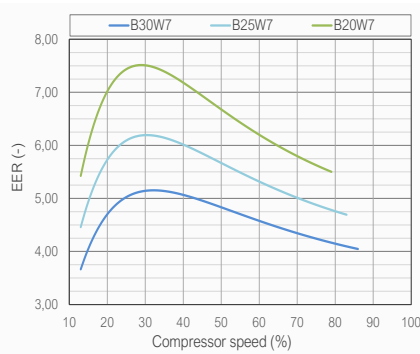
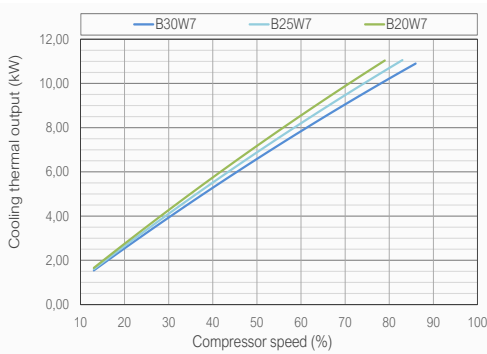
Heating W45



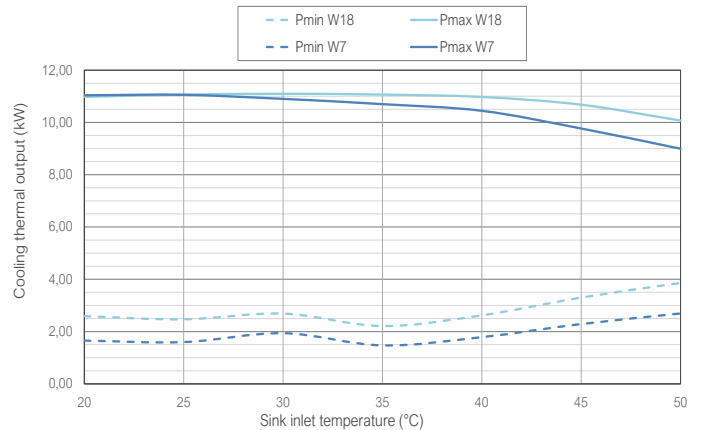
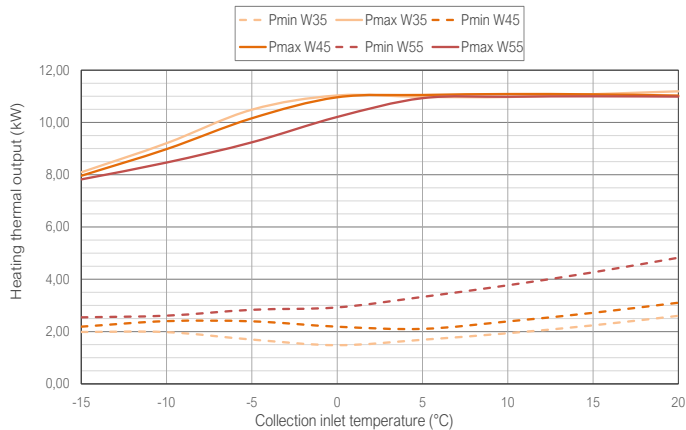
Heating W55



Cooling W7



Thermal power - Brine system temperature



# ecoGEO<sup>+</sup> B/C 3-12

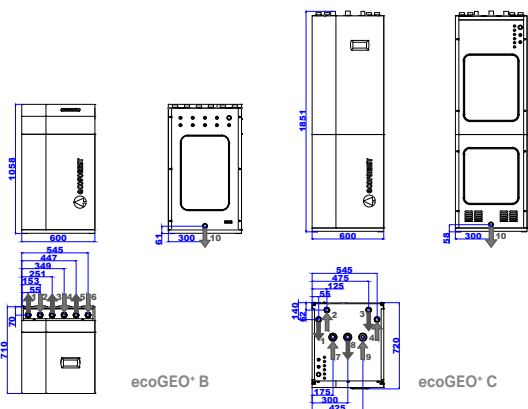
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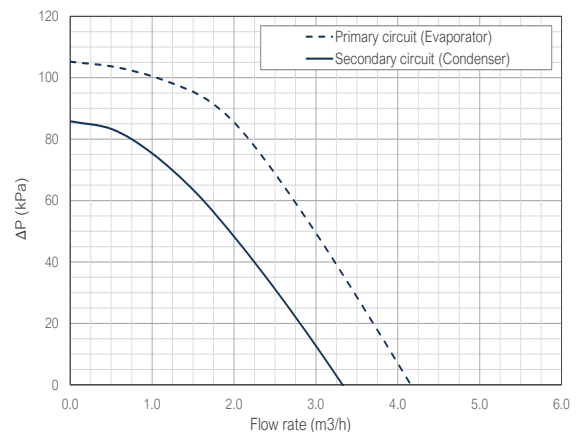
SPECIFICATIONS ecoGEO+ Basic / Compact		ecoGEO+ 3-12			
		B1 / C1	B2 / C2	B3 / C3	B4 / C4
APPLICATION	Place of installation	-	Indoor		
	Collection system	-	Ground source / Open loop		
	DHW, Heating and Pool heating	-	■	■	■
	Integrated passive cooling	-	-	-	■
	Integrated active cooling	-	-	-	■
PERFORMANCE	Compressor modulation range	%	12.5 - 100		
	<sup>(2)</sup> Heating power output / COP B0W35	kW / -	2.1 - 16.0 / 4.6		
	<sup>(2)</sup> Heating power output / COP B0W55	kW / -	4.2 - 13.8 / 2.9		
	<sup>(2)</sup> Cooling power output / EER B30W7	kW / -	-	2.1 - 15.0 / 5.2	
	<sup>(6)</sup> Max. DHW temperature without / with support	°C	63 / 70		
	<sup>(6)</sup> Maximum noise power level (LWA)	dB (A)	54		
	Energy label / ηs / SCOP W35 average clim. with control	-	A+++ / 194 % / 4.95		
Energy label / ηs / SCOP W55 average clim. with control	-	A++ / 142% / 3.65			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 - 60 / 20 - 60		
	Distribution / Set cooling outlet temperature range	°C	-	5 - 35 / 7 - 30	
	Collection temperature range in heating / cooling mode	°C	-22 - 35 / 10 - 60		
	Minimum / Maximum refrigerant circuit pressure	bar	2.0 / 45.0		
	Collection / Production circuit pressure range (preload)	bar	0,5 - 3,0 (0,7) / 0,5 - 3,0 (1,5)		
	DHW tank capacity / maximum pressure	l / bar	165 / 8.0 (ecoGEO+ C)		
WORKING FLUIDS	R410A refrigerant load (GWP: 2088)	kg	0,90 / 1,00 (HTR)		1.00
	Compressor oil type / load	kg	POE / 0.74		
	Primary circ. flow rate (Pmax, B0W35) ΔT 3°C / ΔT 5°C	m³/h	3.8 / 2.3		
	Secondary circ. flow rate (Pmax, B0W35) ΔT 5°C / ΔT 7°C	m³/h	2.7 / 2.0		
CONTROL ELECTRICAL DATA	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C16A		
	Transformer primary circuit fuse	A	0.5		
	Transformer secondary circuit fuse	A	2.5		
HEAT PUMP ELECTRICAL DATA: SINGLE-PHASE VERSION	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C32A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	4.2 / 18.6		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	5.0 / 21.7		
	<sup>(7)</sup> Minimum / Maximum starting current	A	2.0 / 8.0		
Correction of cos Ø	-	0.96 / 1			
HEAT PUMP ELECTRICAL DATA: THREE-PHASE VERSION	<sup>(6)</sup> 3/N/PE 400 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C16A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	4.2 / 6.2		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	5.0 / 7.2		
	<sup>(7)</sup> Minimum / Maximum starting current	A	0.7 / 2.6		
Correction of cos Ø	-	0.96 / 1			
DIMENSIONS & WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1058x600x710 / ecoGEO+ C: 1845x600x720		
	Empty weight (without packaging)	kg	B: 185 / C: 246	B: 193 / C: 254	B: 185 / C: 246    B: 193 / C: 254

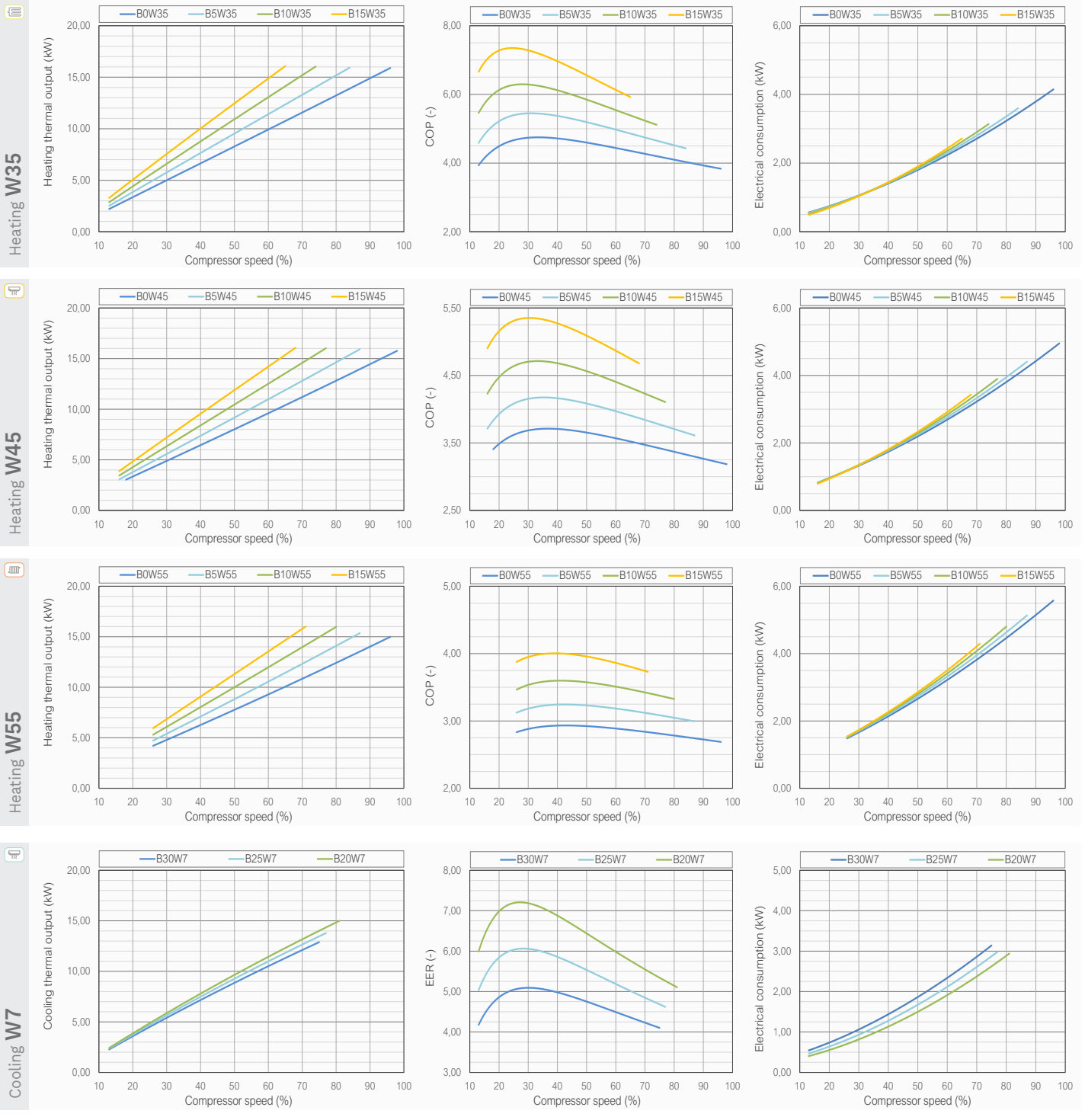
- Air-to-water by means of a brine-to water heat pump combined with a hydraulic outdoor air unit.
- In compliance with EN 14511, including circulation pumps, fan and compressor driver consumptions.
- Production flow rate according to EN 14511.
- Considering a heat slope from 20 to 50 °C in absence of consumption.
- Considering support provided by an emergency electrical heater or HTR. Max. DHW temp. with HTR can be limited by the compressor discharge temp.
- 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 information.
- Certification in process.

## Dimensions and hydraulic connections

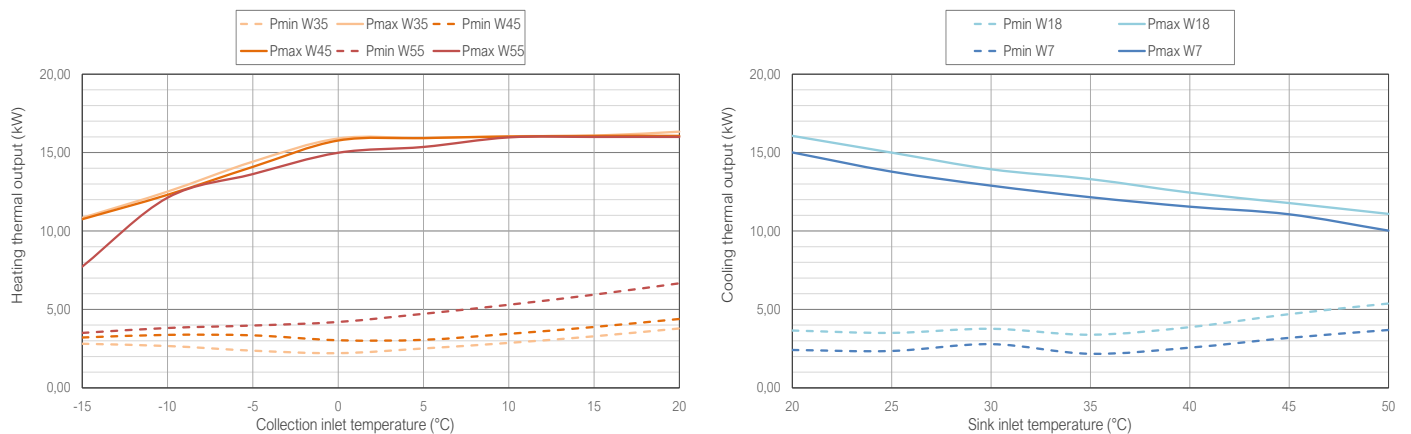


## Available pressure drop





### Thermal power - Brine system temperature



# ecoGEO<sup>+</sup> B/C 5-22

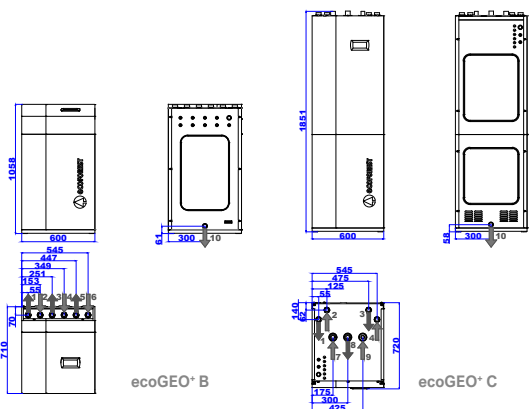
Brine to water heat pumps with Inverter technology and R410A refrigerant



SPECIFICATIONS ecoGEO+ Basic / Compact		ecoGEO+ 5-22			
		B1 / C1	B2 / C2	B3 / C3	B4 / C4
APPLICATION	Place of installation	-	Indoor		
	Collection system	-	Ground source / Open loop		
	DHW, Heating and Pool heating	-	■	■	■
	Integrated passive cooling	-	-	-	■
	Integrated active cooling	-	-	-	■
PERFORMANCE	Compressor modulation range	%	15 - 100		
	<sup>(2)</sup> Heating power output / COP B0W35	kW / -	4.6 - 22.8 / 4.9		
	<sup>(2)</sup> Heating power output / COP B0W55	kW / -	6.5 - 16.4 / 2.9		
	<sup>(2)</sup> Cooling power output / EER B30W7	kW / -	-	4.2 - 22.0 / 5.3	
	<sup>(6)</sup> Max. DHW temperature without / with support	°C	63 / 70		
	<sup>(6)</sup> Maximum noise power level (LWA)	dB (A)	42		
	Energy label / η <sub>s</sub> / SCOP W35 average clim. with control	-	A+++ / 185 % / 4.71		
Energy label / η <sub>s</sub> / SCOP W55 average clim. with control	-	A++ / 146 % / 3.77			
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C	10 - 60 / 20 - 60		
	Distribution / Set cooling outlet temperature range	°C	-	5 - 35 / 7 - 30	
	Collection temperature range in heating / cooling mode	°C	-22 - 35 / 10 - 60		
	Minimum / Maximum refrigerant circuit pressure	bar	2.0 / 45.0		
	Collection / Production circuit pressure range (preload)	bar	0,5 - 3,0 (0,7) / 0,5 - 3,0 (1,5)		
	DHW tank capacity / maximum pressure	l / bar	165 / 8.0 (ecoGEO+ C)		
WORKING FLUIDS	R410A refrigerant load (GWP: 2088)	kg	1.40	1.50	
	Compressor oil type / load	kg	POE / 1.18		
	Primary circ. flow rate (Pmax, B0W35) ΔT 3°C / ΔT 5°C	m³/h	5.1 / 3.1		
	Secondary circ. flow rate (Pmax, B0W35) ΔT 5°C / ΔT 7°C	m³/h	3.8 / 2.7		
CONTROL ELECTRICAL DATA	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C16A		
	Transformer primary circuit fuse	A	0.5		
	Transformer secondary circuit fuse	A	2.5		
HEAT PUMP ELECTRICAL DATA: SINGLE-PHASE VERSION	<sup>(6)</sup> 1/N/PE 230 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C32A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	5.5 / 23.9		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	5.5 / 23.9		
	<sup>(7)</sup> Minimum / Maximum starting current	A	2.6 / 12.5		
	Correction of cos Ø	-	0.96 / 1		
HEAT PUMP ELECTRICAL DATA: THREE-PHASE VERSION	<sup>(6)</sup> 3/N/PE 400 V / 50-60 Hz	-	■		
	<sup>(6)</sup> Recommended external protection	-	C16A		
	<sup>(2)</sup> Maximum consumption B0W35	kW / A	6.0 / 8.7		
	<sup>(2)</sup> Maximum consumption B0W55	kW / A	6.0 / 8.7		
	<sup>(7)</sup> Minimum / Maximum starting current	A	0.9 / 4.2		
	Correction of cos Ø	-	0.96 / 1		
DIMENSIONS & WEIGHT	Height x width x depth	mm	ecoGEO+ B: 1058x600x710 / ecoGEO+ C: 1845x600x720		
	Empty weight (without packaging)	kg	B: 185 / C: 247	B: 193 / C: 255	B: 185 / C: 247      B: 193 / C: 255

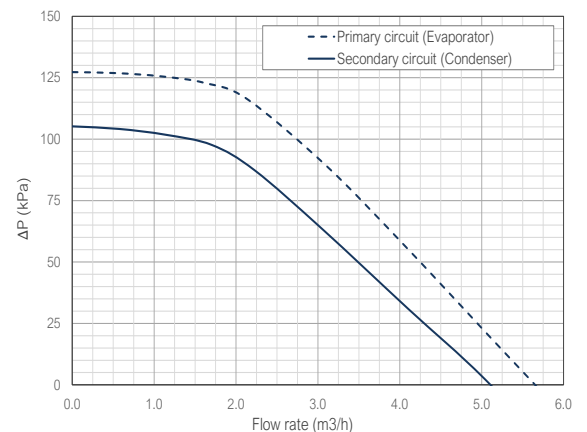
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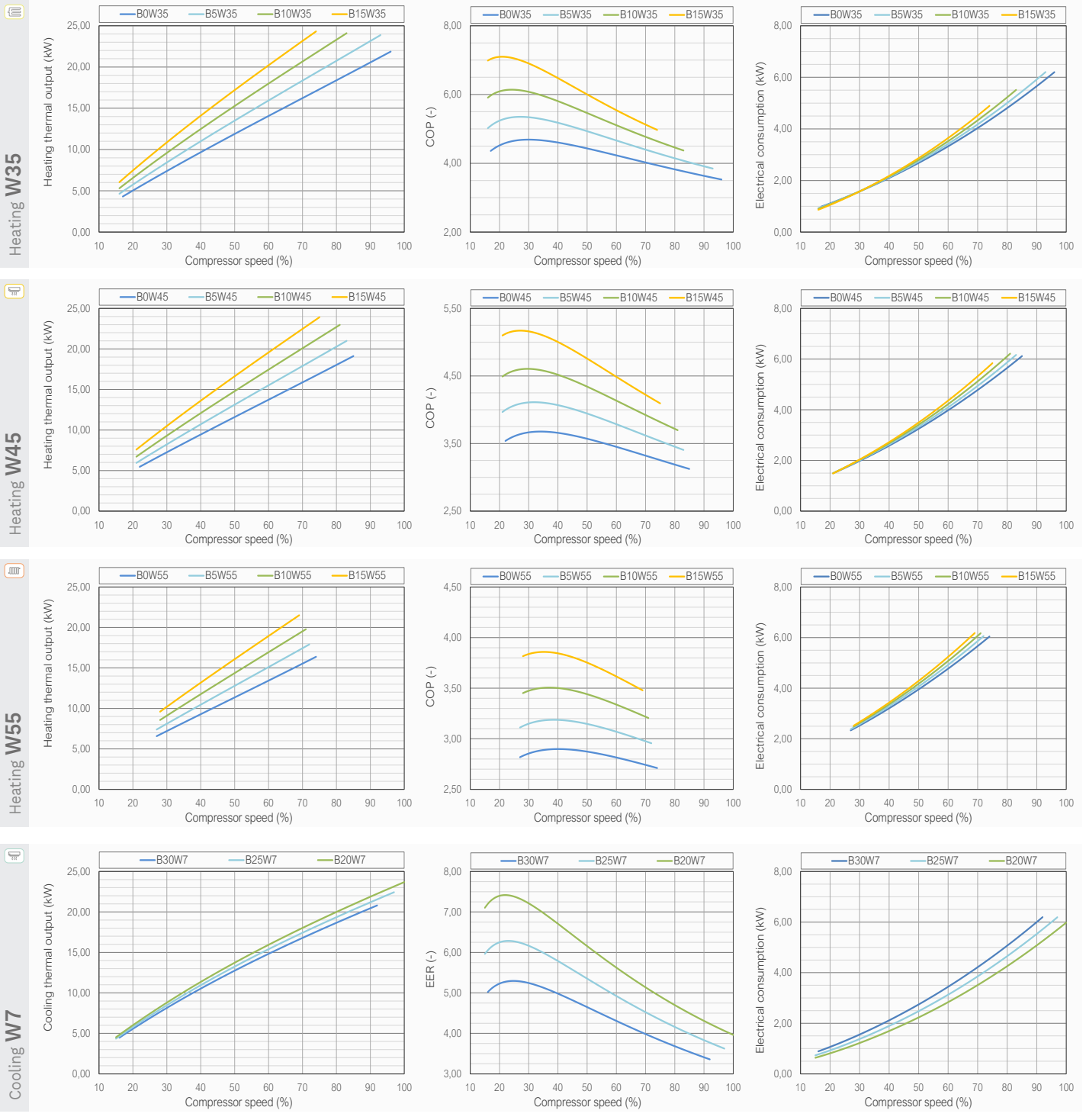
## Dimensions and hydraulic connections



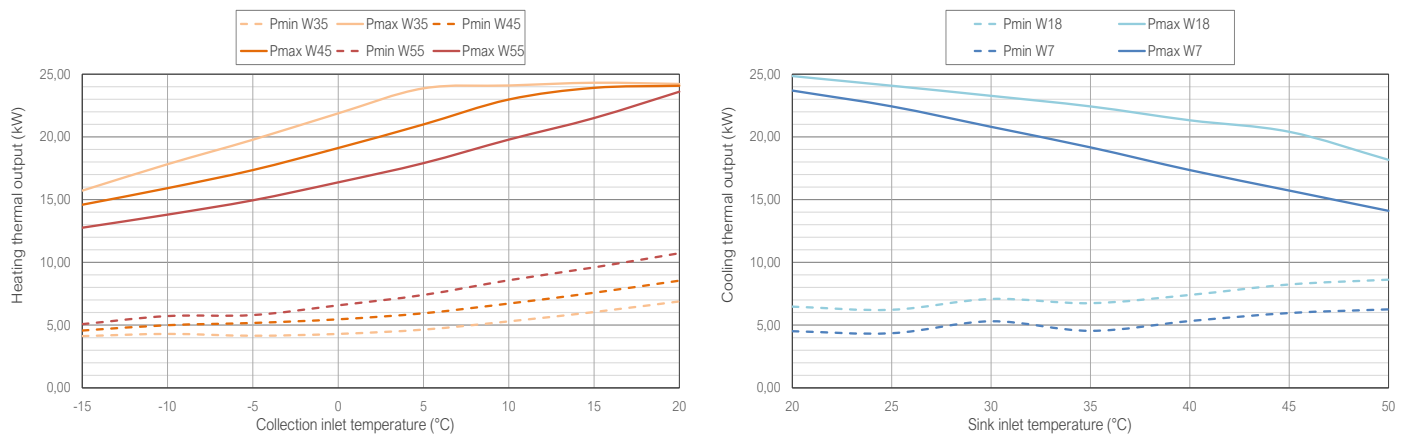
- Heating/Cooling outlet 1 1/4" M
- Heating/Cooling inlet 1 1/2" M
- Brine outlet 1 1/4" M
- Brine inlet 1 1/4" M
- DHW system outlet 1 1/2" M
- DHW system inlet 1 1/2" M
- CW inlet 1" H
- DHW outlet 1" H
- DHW recirculation inlet 3/4" H
- Drain 16mm

## Available pressure drop





### Thermal power - Brine system temperature





May 2026