

**ecoFOREST**

[www.ecoforest.com](http://www.ecoforest.com)



# ecoAIR+

## Outdoor Units

### ecoAIR+ PRO

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1 - 7 kW



1 - 9 kW



3 - 12 kW



3 - 18 kW

### ecoAIR+ EVI

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4 - 20 kW

# ecoAIR<sup>+</sup>

4-20 EVI

## ecoAIR<sup>+</sup> EVI

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4 - 20 kW

### Production:

- Heating.
- Active Cooling.
- DHW.
- Pool.

### Performance:

- COP A7W35: 5,0
- Heating output: 8.8 to 20.8 kW
- Max. Temperature: 63°C / 80°C\*

- EER A35W7: 3.3
- Cooling output: 4.0 to 14.8 kW

### Available in:

- Single – Phase
- Three – Phases

ecoAIR<sup>+</sup>  
4-20 EVI



4 - 20 kW

Energy Label /  $\eta_s$  / SCOP Average Climate:

ecoAIR<sup>+</sup> EVI

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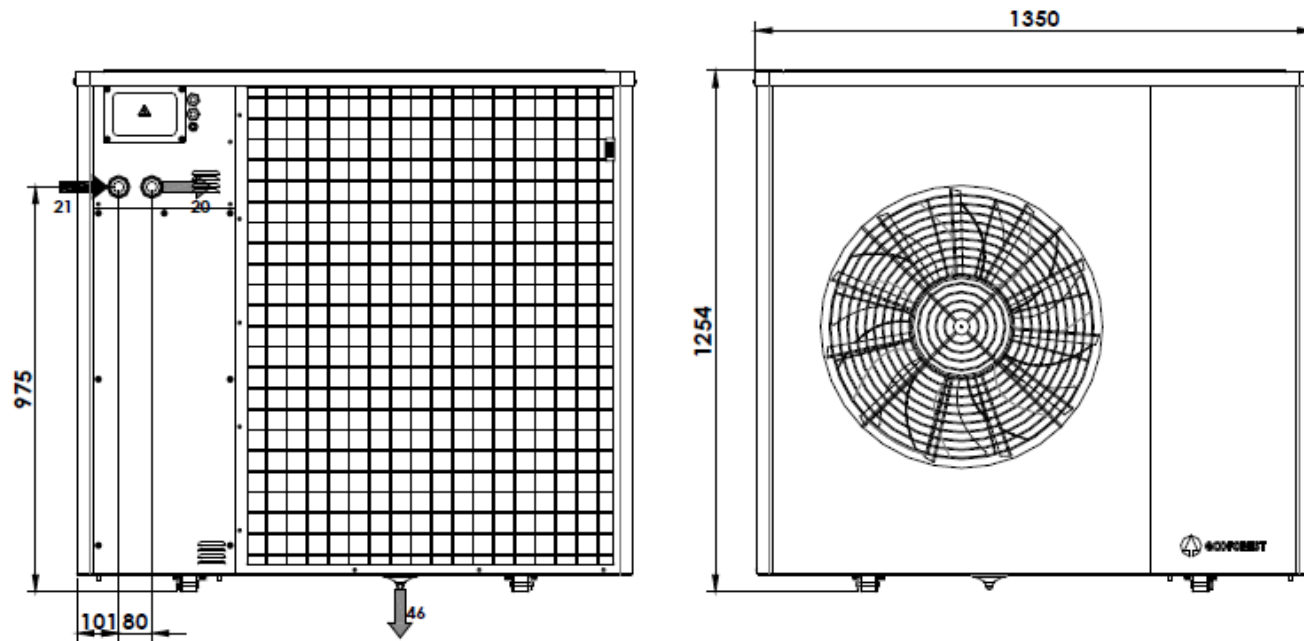
- W35: A+++ / 184% / 4.57
- W55: A+++ / 155% / 3.84

Noise Level: 63 dB

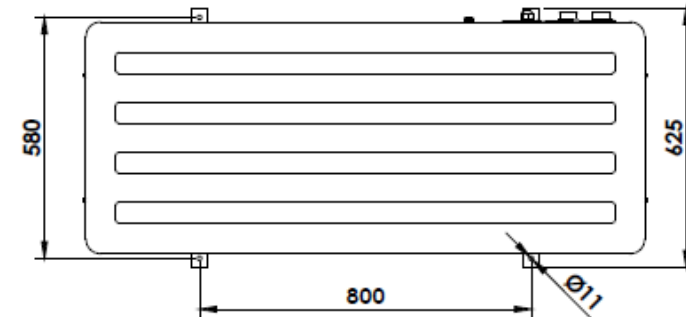
F-GAS: R-410a

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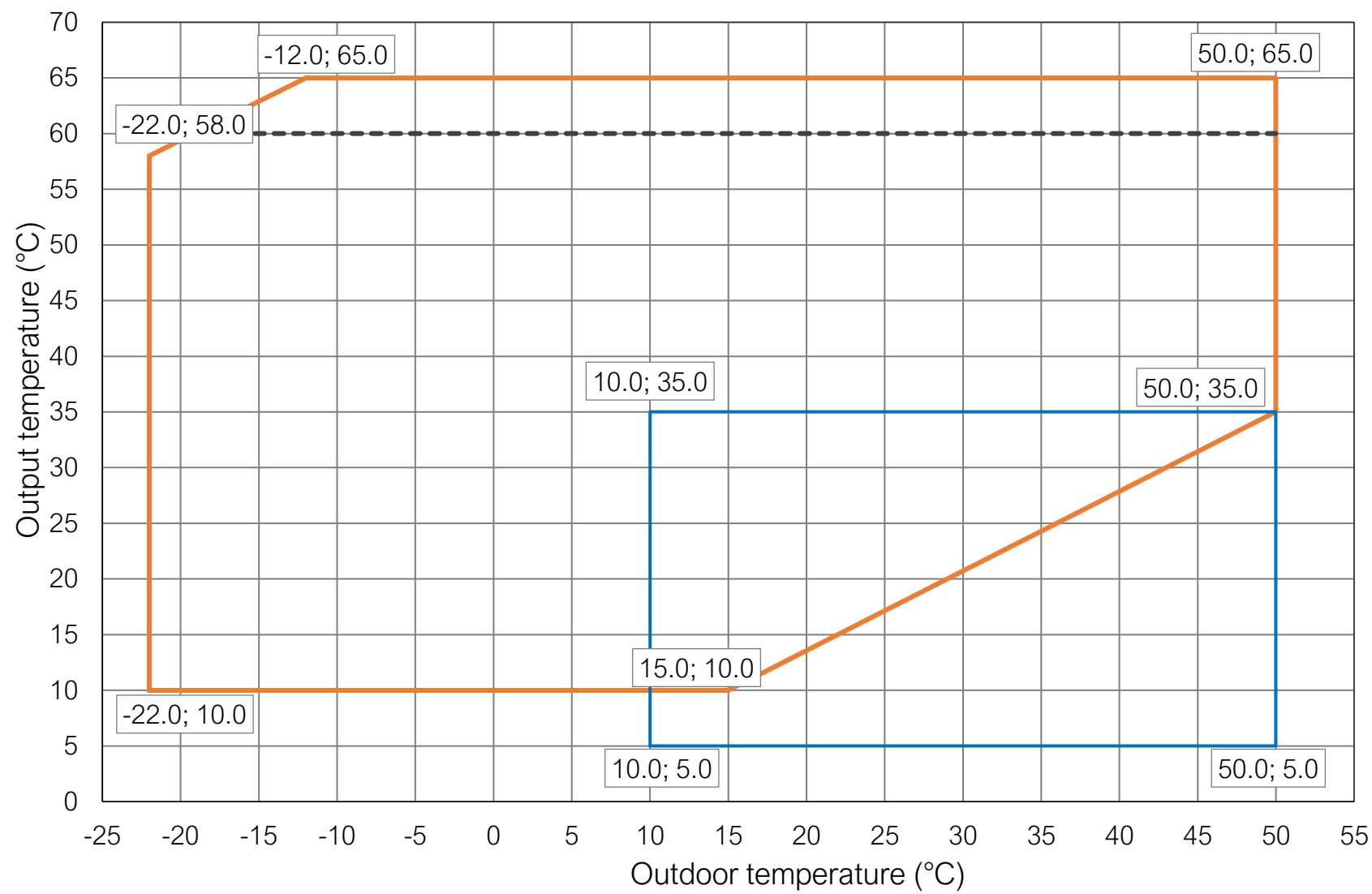
## 4-20 EVI - Dimensions



- 20. Heating/Cooling outlet - 1 1/4" M
- 21. Heating/Cooling inlet - 1 1/4" M
- 46. Drain - 15 mm

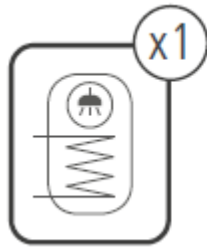


4-20 EVI – Operational Chart

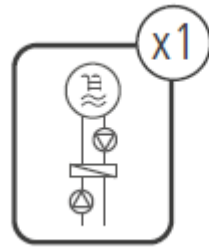


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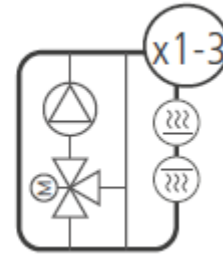
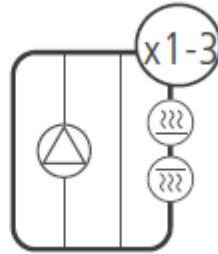
## 4-20 EVI - Controls



DHW Tank



Pool

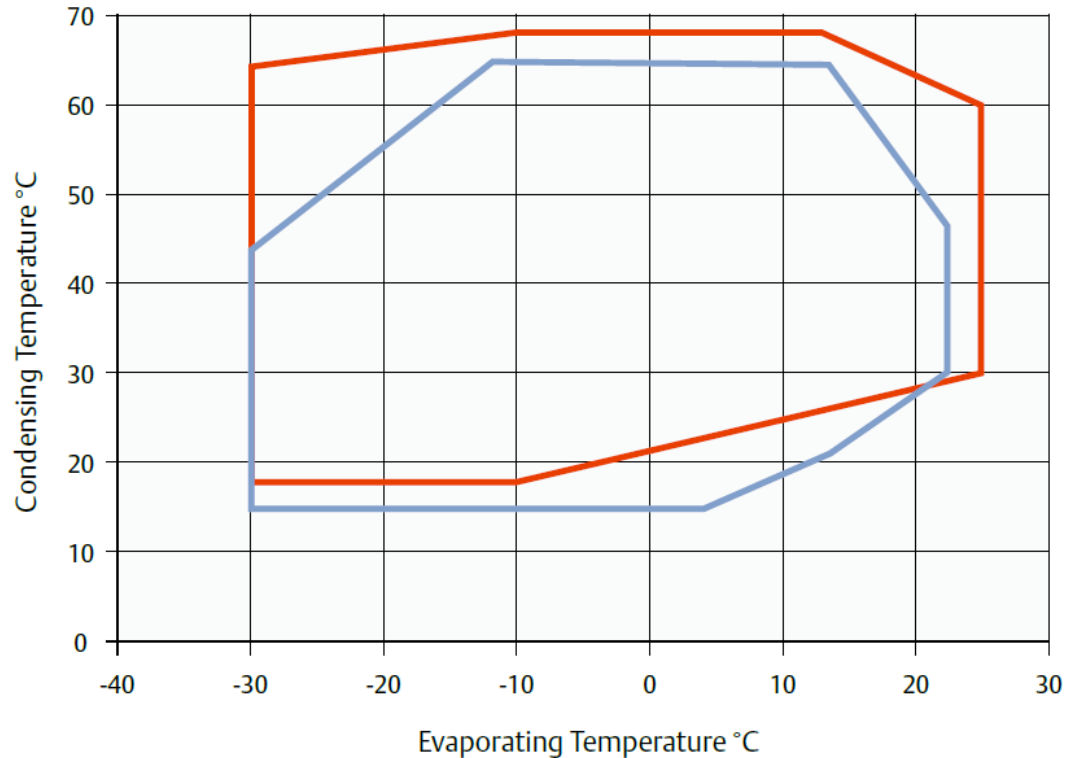


\* 1 to 3  
Heating/Cooling  
Mixing Groups

*\*You can manage up to 3 different mixing groups (3 different production temperatures)*

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## EVI Technology



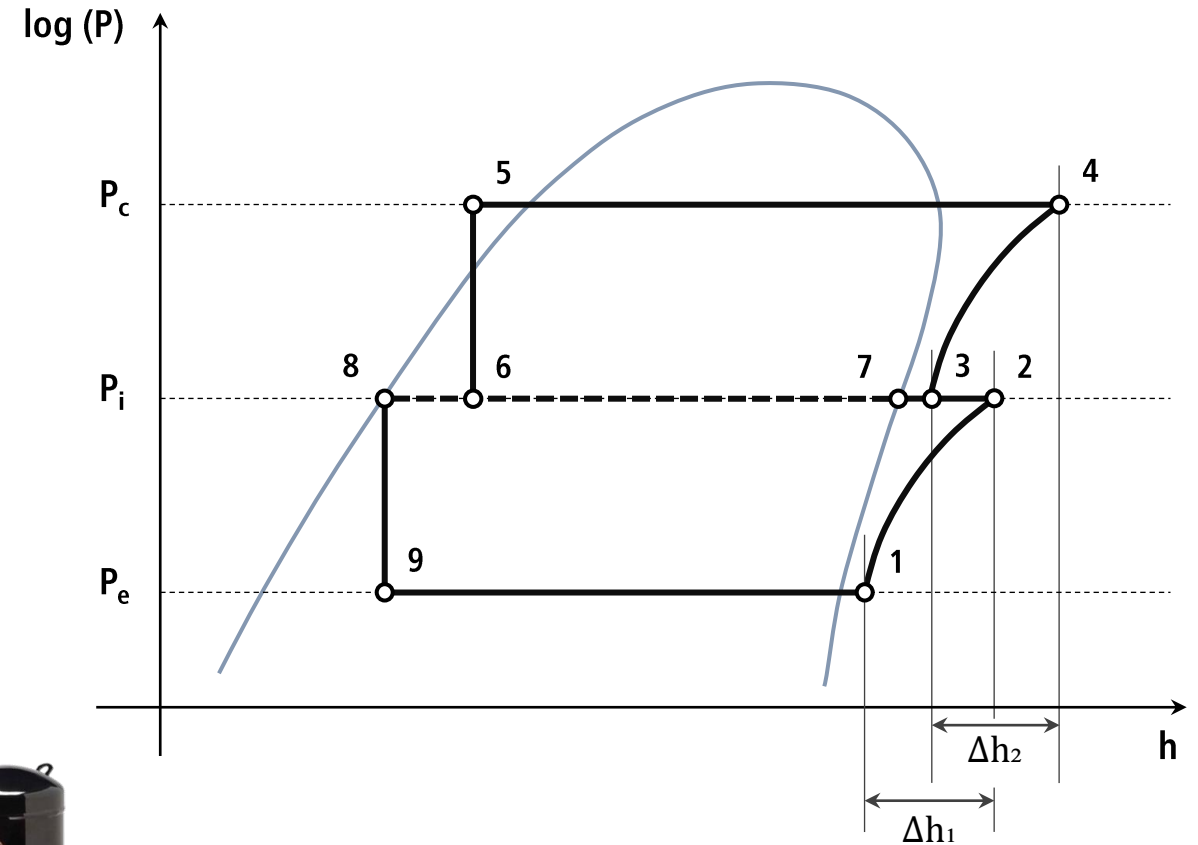
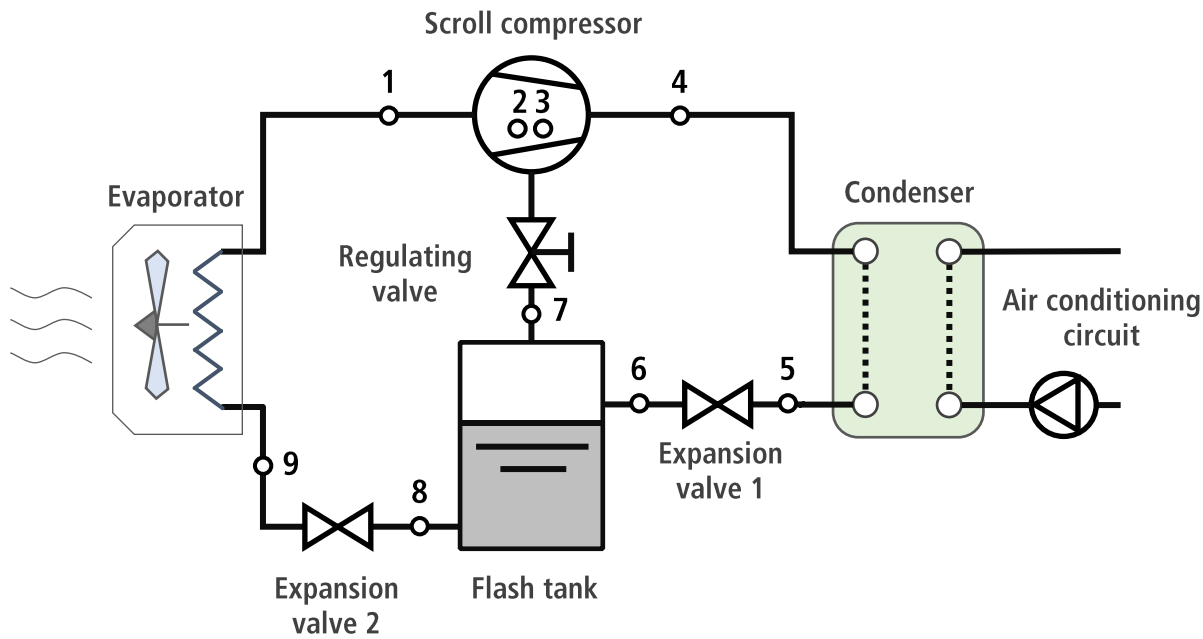
- R410A scroll compressor
- R410A scroll compressor with EVI technology

- The EVI Technology developed by Ecoforest increases the operation chart for heating on extreme conditions: -20°C to 25°C.
- Thanks to this, the problem of traditional air source heat pumps is solved! **We can produce DHW at high temperatures in any situation.**
- It also overcomes the limitations of such equipment **when producing refrigeration while outside temperatures are high.**



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## EVI Technology



**The Flash Tank is the key!**

Thanks to it and our own software for control we can perform the compression phase in two stages.



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## Indoor Units

### CM

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- Control
- Display

### HK EH S

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- Control
- Display
- Filling kit and filter
- DHW 3-way valve
- Support electrical heater (EH)
- Heat exchanger
- Circulation pump

### HK COMPACT EH S

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- Control
- Display
- Filling kit and filter
- DHW 3-way valve
- Support electrical heater (EH)
- Heat exchanger
- Circulation pump
- 165l stainless steel DHW tank
- Expansion vessel & safety valve

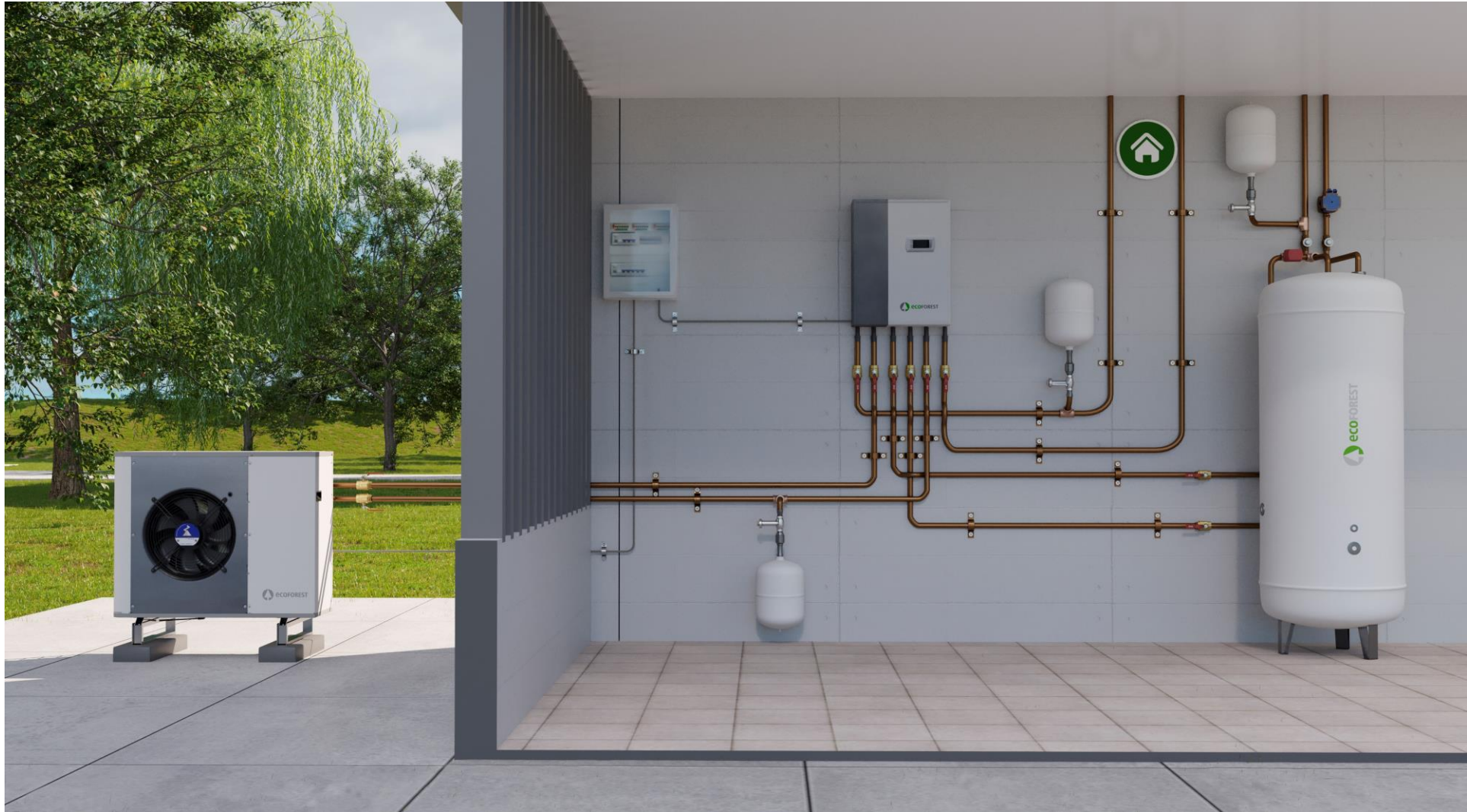
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## CM Configuration



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## HK EH S Configuration



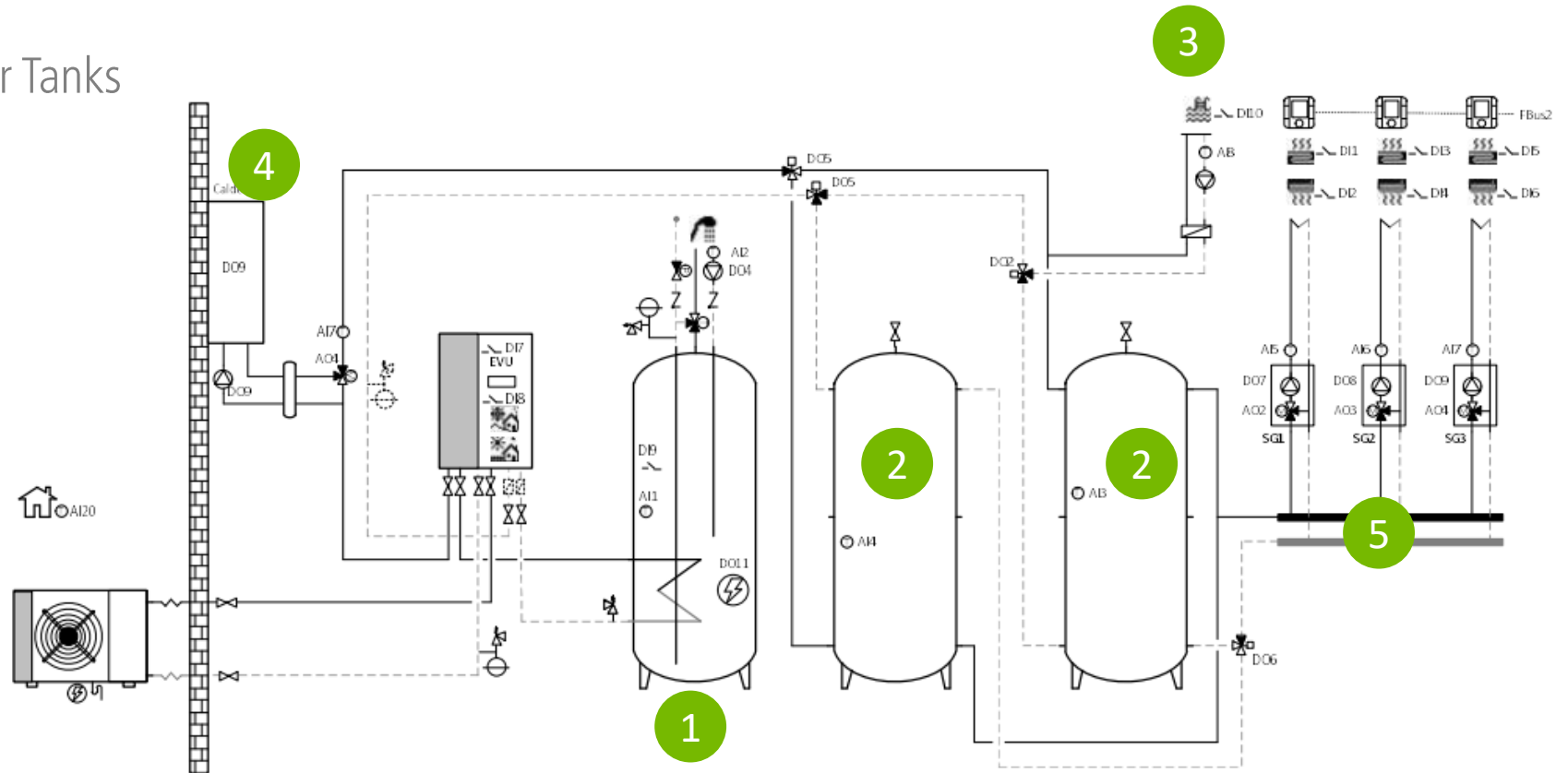


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## HK Compact EH S Configuration



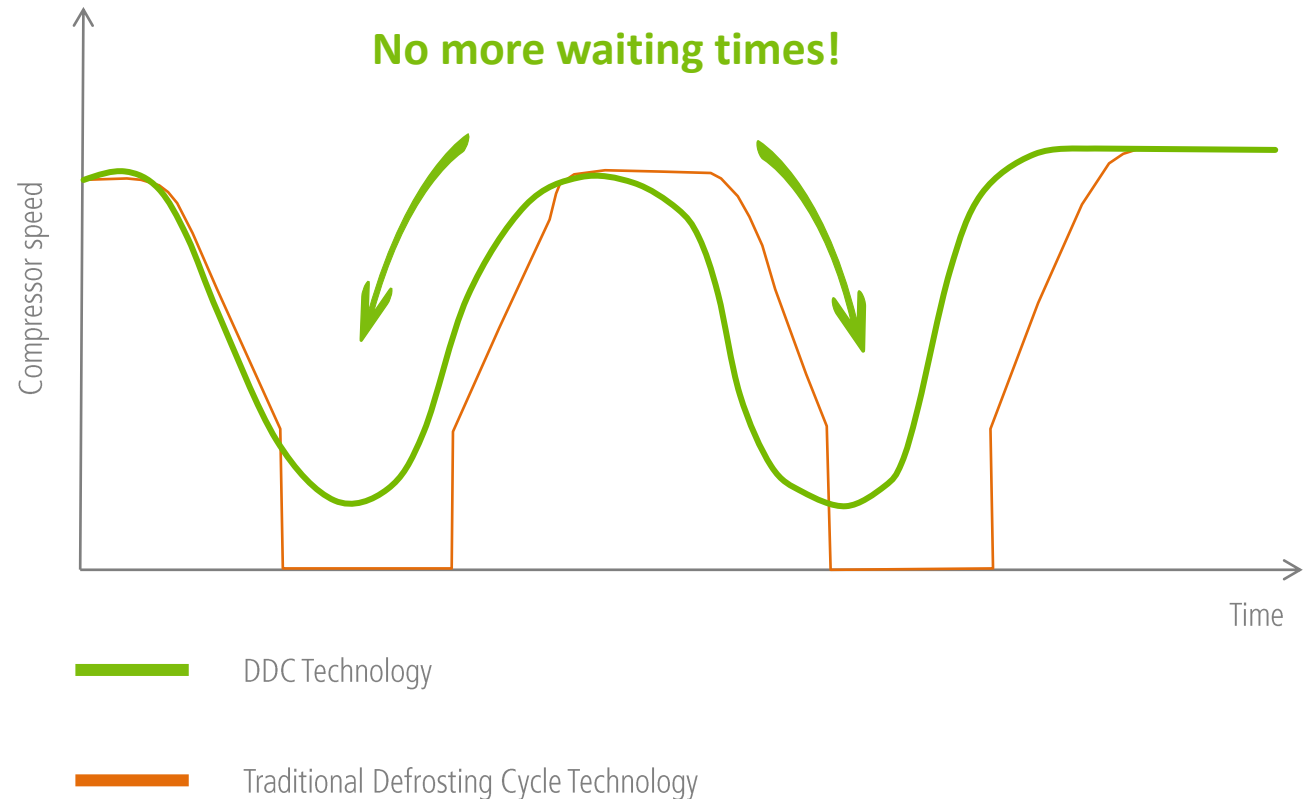
1. DHW Tank
2. Heating & Cooling Buffer Tanks
3. Pool Production
4. Existing Boiler
5. Shunt Groups



**TECHNICAL DIAGRAM**

## More power in less time!

- Reduces the speed to the point where it is capable of reversing the cycle and performing defrost without stopping the compressor and waiting timeouts.
- With our integrated defrost management you can decide which source use to reverse cycle against in your case.
- Get the best **energy efficiency** and the **greatest savings!**



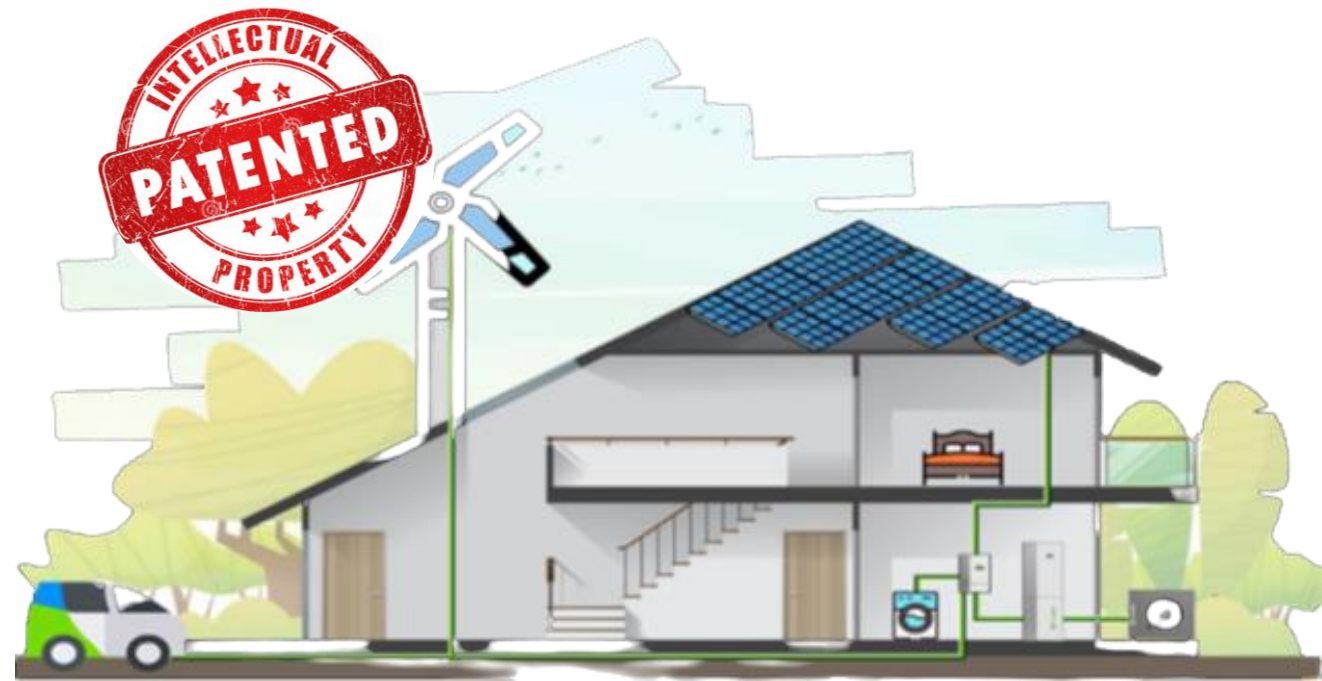
# PV Management

Our **patented technology** allows you to **use your house as a giant battery!**

Set your **maximum power consumption**, manage your **tariff**, achieve the **Net-Zero balance** with your photovoltaic surpluses!

**Become the owner of your own energy.**

Keep your **wallet safe**,  
keep our **planet clean**,  
**ENJOY THE BEST COMFORT!**





# PV Management

## Surpluses









Increase your thermal inertia

reduce your cost

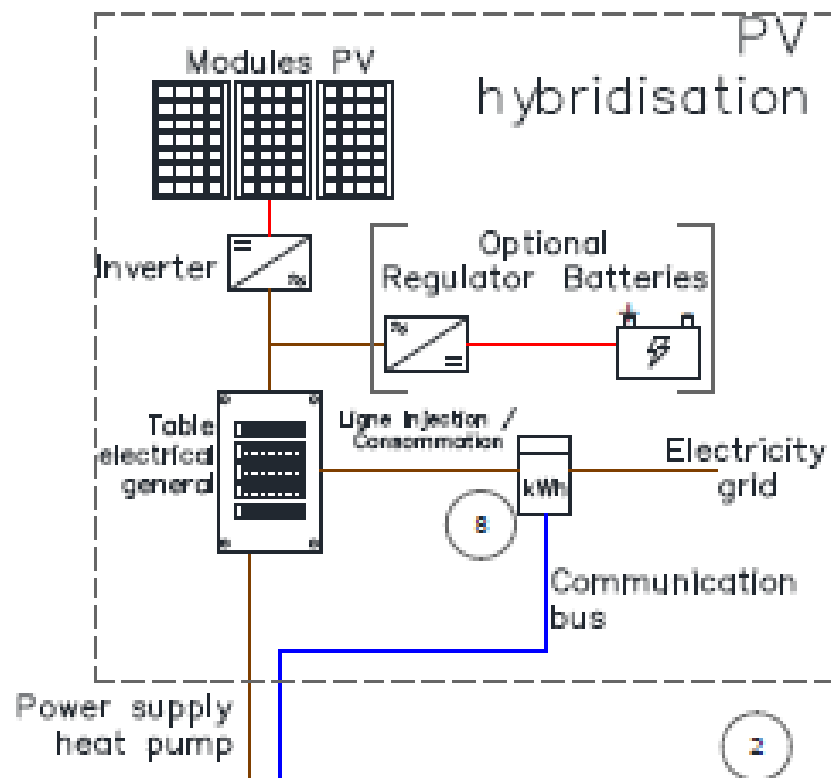
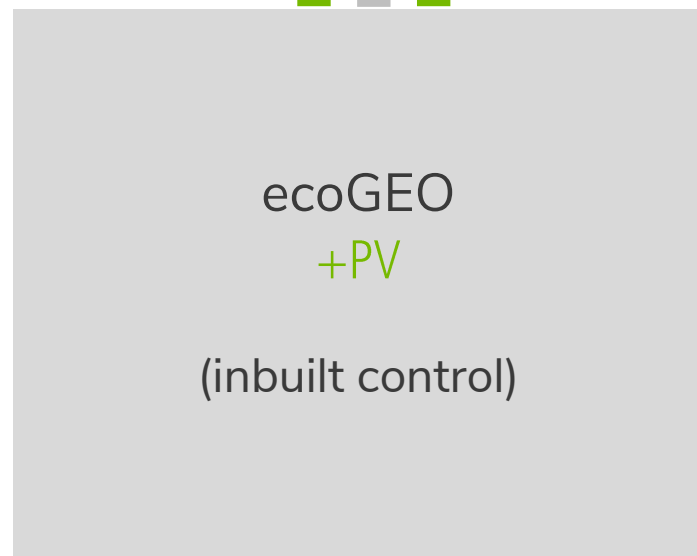
Do you have PV surpluses?

Then use them in the most efficient way!

With our surplus management it is easy to get the most of your PV system by varying the temperatures set points.

				
	Heating	Cooling	DHW	Pool
Standard Set Point	35 °C	15 °C	45 °C	26 °C
				
Surplus Set Point	60 °C	7 °C	60 °C	32 °C





- CEM C-20



- CEM-M



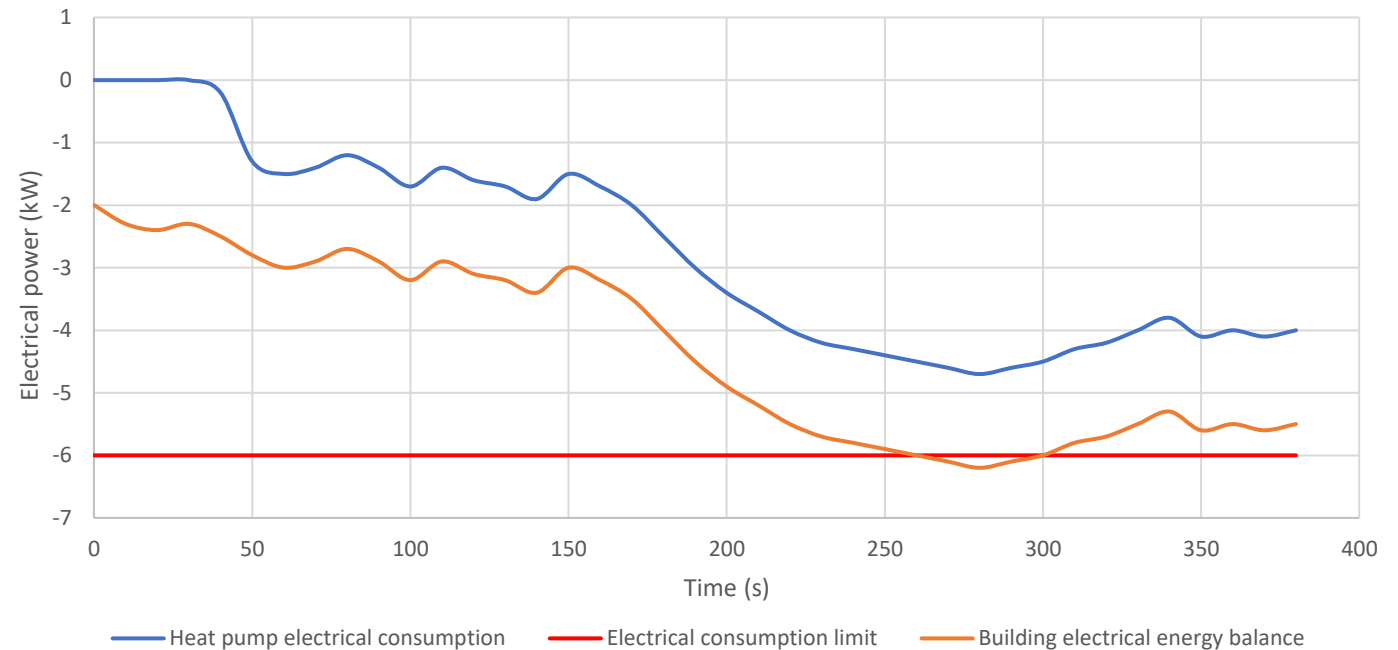
**TECHNICAL DIAGRAM**

# PV Management

## Consumption Control – Power Limitation

No more unexpected bills...

You decide how much you spend!



**Set up a limit for the power consumption of the installation.**

If such an electrical power grid consumption approaches that limit, the heat pump will automatically cut down its power consumption so as to never exceed the limit.

# Connectivity anywhere, at any time

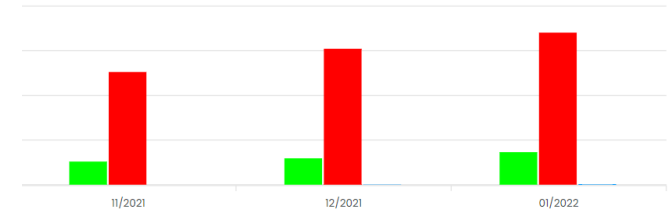
Access your heat pump remotely with MyEcoforest.



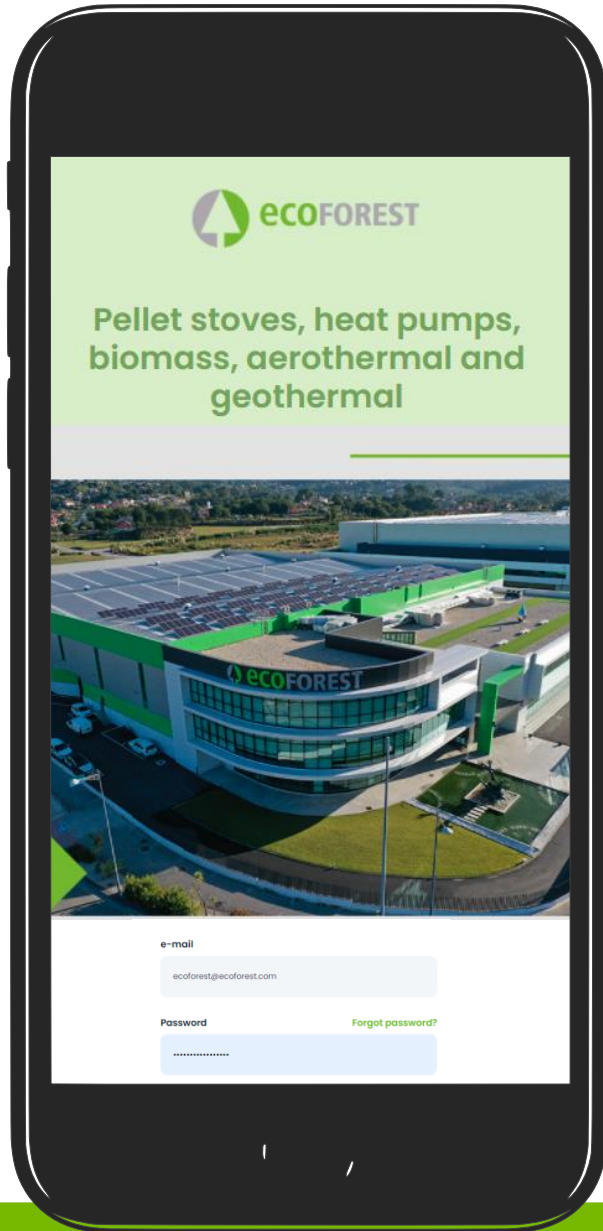
Do you have an alarm?  
Then tell it to your installer  
directly with a single click!



Keep an eye on your production statistics,  
no more surprises on your bills!



You can even change the set-points  
without being at home!



Model			ecoAIR <sup>+</sup> 4-20 EVI	
Specifications				
ELECTRICITY SUPPLY	Voltage [VAC]		230	400
	Frequency [Hz]		50	50
	Phase		Single-Phase	Three-Phase
ELECTRICAL PROPERTIES	Starting Current (max) [A]		10,80	3,60
	Starts Per Hour		4	4
	Compressor Control Technology		Inverter	Inverter
	Total Heat Pump System Maximum Demand [A]		36,00	13,00
	Total Heat Pump System Maximum Demand [kVA]		8,28	9,00
	Booster Heater		✗	✗
	Backup Heater		✗	✗
	EMC DIRECTIVE	Harmonic Standards	EN 61000-3-2	Not Applicable
EN 61000-3-12			✓	Not Applicable
Flicker Standards		EN 61000-3-3	Not Applicable	✓
		EN 61000-3-11	✓	Not Applicable
DECLARATION OF CONFORMITY			✓	✓
ENERGY NETWORKS ASSOCIATIONS LISTED (ENA)	Listed		✓	✓
	Heat Pump Type Register Number		HP_1312	HP_1310
	Connect & Notify (C&N) or Apply To Connect (ATC)		ATC	C&N
	Class A limits of IEC 61000-3-2		Pending	✓
	Technical Requirements of IEC 61000-3-3		Pending	✓



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Stay informed and continuously improving  
thanks to the Ecoforest Academy.

**Complete our training and receive an  
official certificate!**

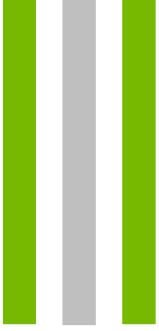


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