Firebird
The Future of Home Heating

Leading the way in
Sustainable Home Heating

For Your New Build or Home Upgrade

FIREBIRD ENVIROAIR HEAT PUMP

4 - 16 kW

Meets All Your Heating and Hot Water Needs.

A+++



-20°

R32 REFRIGERANT

QUALITY ISO 9001:2015 NSAI Certified

CE

Environment | Innovation | Technology

Free Home Heating Consultation - Call or Email Your Plans Today

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Global Warming is everyone's responsibility.

For over 40 years, Firebird has been delivering world class products, while setting new standards in quality, innovation and sustainability.

Together we can find a renewable heating solution that works for you and your home.

We guarantee a stress-free installation process, with a completely free home heating consultation and a backup service from qualified experts that you can trust.



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The Enviroair Air Source Heat Pump Can Be Combined With:

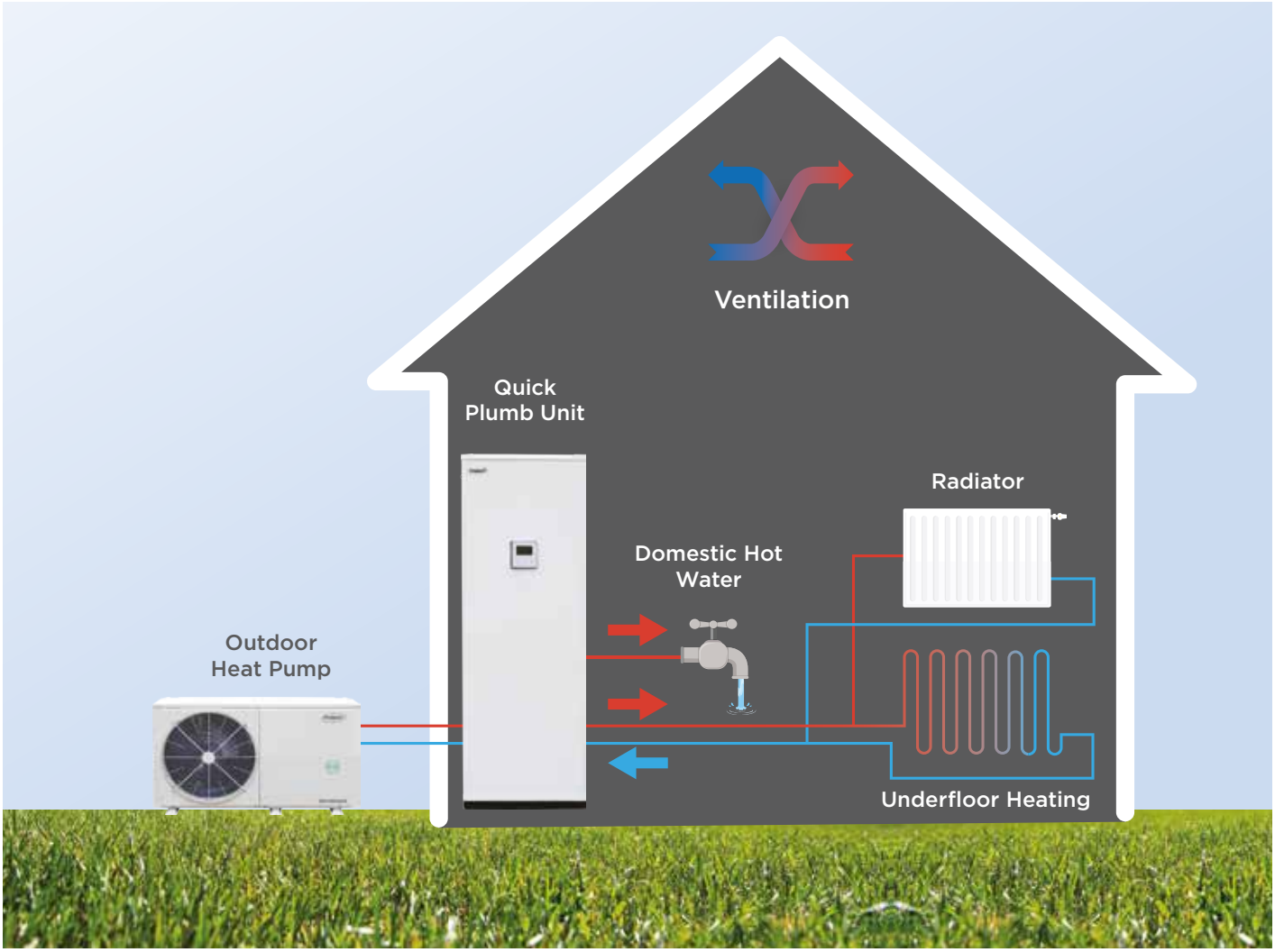
- **Enviroair** Underfloor Heating
- **Envirocyl** Quick Plumb Unit
- **Enviroair** Underfloor Heating/Radiator Combination

Other External Heating Sources such as*:

- **Envirogreen** Boilers
- **Envirosol** Solar Thermal Systems
- Firebird Stove

* Firebird recommend that either a Firebird Envirogreen Boiler, a Firebird Stove or an Envirosol Solar Thermal System is selected alongside the heat pump to provide adequate, affordable heat in extreme cold.





A wide operating range available in single phase capacities of 4kW to 16kW.

Model	Power Supply (V/Ph/Hz)	Output (Kw)	Dimensions (Mm)			Scop/Class		Weight (Kg)	Fuse Size (Amps)	Refrigerant
		-3 / 45	W	H	D	35°C	50°C			
ASH004FHP	220-240/1/50	4.7	1295	718	375	4.85 / A+++	3.31/ A++	86	16	R32
ASH006FHP	220-240/1/50	6.0	1295	718	375	4.95/ A+++	3.52/ A++	86	16	R32
ASH010FHP	220-240/1/50	8.6	1385	865	458	5.2/ A+++	3.47/ A++	105	20	R32
ASH014FHP	220-240/1/50	12.2	1385	865	458	4.72/ A+++	3.47/ A++	129	32	R32
ASH016FHP	220-240/1/50	13.5	1385	865	458	4.62/ A+++	3.41/ A++	129	32	R32
Data is subject to change										

Domestic Hot Water and Underfloor Heating

Enviroair Heat Pumps can provide domestic hot water (up to 65°C) and underfloor heating, improving room comfort.



Compact Footprint and Sleek Design

Designed for installation in any type of property, especially homes with limited space. As this is a compact system with a single unit installed outdoors, the available space indoors remains unchanged.



Easy Installation & Maintenance

All functions are achieved with a single outdoor unit, bringing significant cost savings. Furthermore, installation is quicker and easier as there is no need for refrigerant piping and the product is pre-charged at the factory. Two-door design for easy access to internal components for easy maintenance.



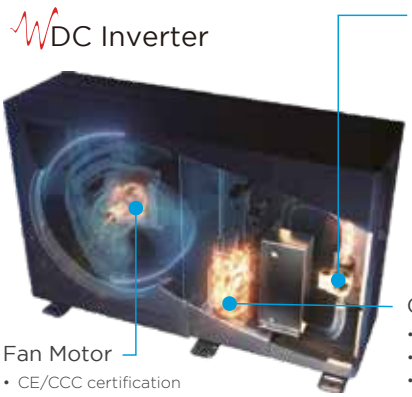
Eco Friendly Refrigerant R32

- ❖ Lower GWP 675 (GWP: Global Warming Potential).
- ❖ Zero impact on the ozone layer and less carbon emission.
- ❖ Higher heat transfer coefficient.
- ❖ Better performance in poor conditions.
- ❖ Less pressure loss and no temperature glide.
- ❖ Less charged volume and less cost.



Inverter System Design

The DC compressor, fan motor and pump allow precise control of the motor speed, ensuring that only the power necessary to perfectly match the real load is used. Thereby saving energy.



Powerful Heating with High Efficiency

A+++ ErP energy rating. Efficient heating capacity even when at -7°C air temperature. Maintains continuous hot water supply up to 65°C, even with outdoor temperatures as low as -20°C.

- ❖ Operation range down to -25°C.
- ❖ Maximum LWT reach 65°C for 4~16kW models.

ErP Directive*

ns. Seasonal space heating energy efficiency.

ns average up to A+++ at 35°C.

ns average up to A++ at 55°C.

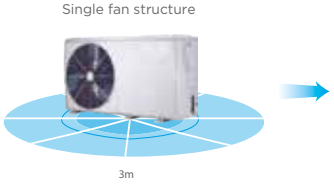
*Indicates the highest possible grade for M thermal product lineup. For specific grade of different models, please refer to the specification.

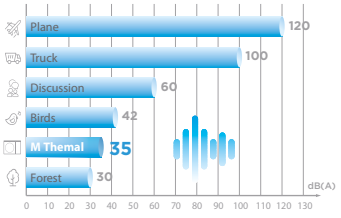


Silent Mode

The 4kW model produces 35dB(A) sound pressure level at 3 meters thanks to multiple optimisation design.
Test conditions:

1. Outdoor air temperature 7°C DB, 6°C WB; Water inlet 30°C, Water outlet 35°C.
2. Outdoor air temperature 35°C DB; Water inlet 23°C, Water outlet 18°C.



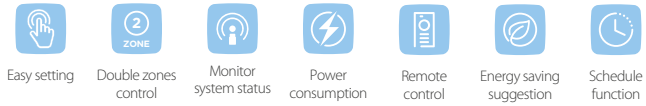


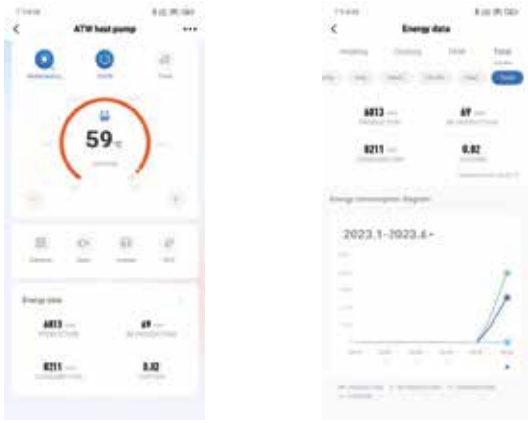
Smart Controller & App

- Multiple languages for customer needs.
- Modbus protocol and network flexibility.
- Built-in wifi module supports remote control.
- Holiday away and holiday home makes life convenient.



iLetComfort APP

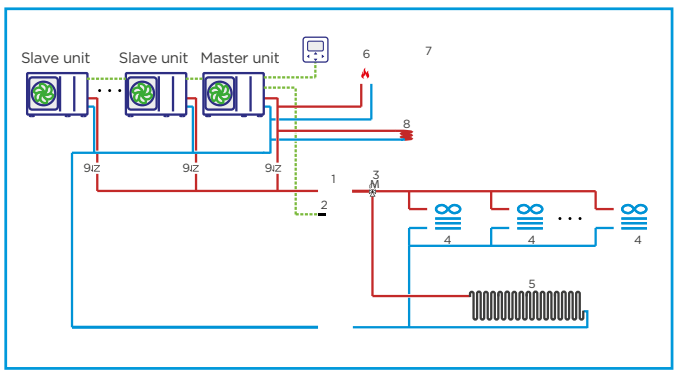




Note: APP interface changes from time to time as it is updated and may vary slightly from those in this document.

Flexibility

A cascade system design is perfect when a higher capacity is required as the building demand evolves. A maximum of 6 units can be controlled in a group with one controller. The balance tank temperature control makes the water temperature more accurate.



Notes:

1. Balance tank (supplied).
2. Balance tank temperature sensor (can be supplied).
3. 3-way valve (supplied).
4. Fan coil unit (can be supplied).
5. Floor heating loop (supplied).
6. AHS: Additional heating source (supplied).
7. Water tank (supplied).
8. Heat exchanger coil(supplied).
9. Single way valve (supplied).

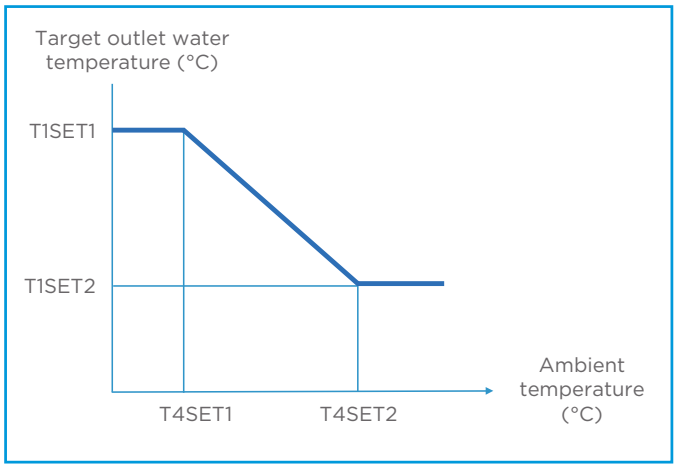
USB Function

- Programs can be conveniently updated with a USB.
- Installers can manage parameter transmissions from one controller to another via USB, saving time.



Climate Curve

The water temperature automatically changes as the ambient temperature changes. This is convenient and leads to energy savings for the end user. 32 fixed climate curves and 1 customised curve is available, covering different requirements.



Smart Grid

In order to save energy, the Enviroair heat pump adjusts the operation mode according to the different grid signals. When the electric price is low or even free, the heat pump prioritises DHW. When the electricity price is high, DHW related functions are limited. When the electric price is normal, the heat pump operates according to the user's requirements



Specifications





Outdoor unit model			ASH004FHP	ASH006FHP	ASH010FHP	ASH012FHP	ASH016FHP
Power supply		V/Ph/Hz	220-240/1/50				
Heating 1	Capacity	kW	4.20	6.35	10.00	14.50	15.90
	Rated input	kW	0.82	1.28	2.02	3.15	3.53
	COP		5.10	4.95	4.95	4.60	4.50
Heating 2	Capacity	kW	4.30	6.30	10.00	14.10	16.00
	Rated input	kW	1.13	1.70	2.67	3.92	4.57
	COP		3.80	3.70	3.75	3.60	3.50
Heating 3	Capacity	kW	4.40	6.00	9.50	13.80	16.00
	Rated input	kW	1.49	2.03	3.06	4.68	5.61
	COP		2.95	2.95	3.10	2.95	2.85
Seasonal space heating energy efficiency class 6	Water outlet at 35°C	class	A+++				
	Water outlet at 55°C	class	A++				
Refrigerant	Type (GWP)		R32(675)				
	Charged volume	kg	1.40			1.75	
Sound power Level 7		dB	55	58	60	65	68
Unit dimension (W×H×D)		mm	1295×718×429		1385×865×526		
Packing dimension (W×H×D)		mm	1375×885×475		1465×1035×560		
Net/Gross weight		kg	86/107		105/132	129/155	
Outdoor air temperature range	Cooling	°C	-5 ~ 43				
	Heating	°C	-25 ~ 35				
	DHW	°C	-25 ~ 43				
Water side heat exchanger			Plate type				
Water pump	Max. pump head	m	9				
Water side connection		mm	G1'' BSP		G5/4'' BSP		
Water temperature setting range	Heating	°C	25 ~ 65				
	DHW (tank)	°C	20 ~ 60				

Notes:
1. Evaporator air in 7°C, 85% R.H., Condenser water in/out 30/35°C
2. Evaporator air in 7°C, 85% R.H., Condenser water in/out 40/45°C
3. Evaporator air in 7°C, 85% R.H., Condenser water in/out 47/55°C
4. Condenser air in 35°C. Evaporator water in/out 23/18°C
5. Condenser air in 35°C. Evaporator water in/out 12/7°C
6. Seasonal space heating energy efficiency class testes in average climate general conditions.
7. Testing standard: EN12102-1.
8. Backup electric heater is built into all models.For three phase type backup electric heater, 3/6kW can be achieved by changing DIP switch when heat pump is equipped with 9kW.
9. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.





Why Choose a Firebird Envirocyl Quick Plumb Unit?

The Firebird Enviroair Heat Pump, together with the Envirocyl Quick Plumb Unit, provide an energy efficient integrated solution for heating your home as well as domestic hot water. The system can work with either underfloor heating and radiators or both.

With a large proportion of the plumbing work already done at the factory, a pre-plumbed cylinder can substantially cut onsite installation time by around 70%, reducing the amount of disruption to the customer. In addition to significant reductions in installation times, pre-plumbed cylinders bring a consistency to each installation for a neater, more aesthetically appealing finish. They can also represent a substantial reduction in hassle and disruption to the homeowner or a house built as part of a planned build project. With the most time-consuming aspects of the installation taken care of, all the plumber has to do is connect the Quick Plumb Unit, do a quick check of all the connections and it is ready for commissioning.

We have multiple options available to suit your heating requirements:
• cased/uncased • vented/unvented • 180/210/300 litres.

Features

- Easy access for installation and servicing.
- Fully pre-plumbed and pre-wired.
- Premium quality white case finish.
- High flow rate controls - ideal for multiple bathrooms.
- All pipework connections are BSP.
- Mains pressure hot water for fast filling baths and powerful showers.
- Fast reheat and high insulation values, resulting in high efficiency.
- User-friendly PCB controller.
- Quick drain down system.









Customer Service

We, the Firebird team, offer you, our customer, top quality service. We monitor the level of service provided on a regular basis to ensure our customers' requirements are always met.

Technical Support

Our Technical team will provide you with a comprehensive technical support package which is designed to make the specification and installation process as simple as possible.

Please contact the Firebird Technical team on:
+353 (0)26 45253 / +44 (0)28 3088 8330 / +44 (0) 1752 691177
or **service@firebird.ie / technical@firebird.uk.com.**

Quality

At Firebird, we produce our appliances to the highest standards and put them through rigorous testing procedures by external standards agencies. We design each product to meet specific requirements and we manufacture using premium quality materials to precise standards and tolerances.

Warranty

Comprehensive warranties on all parts.
See Firebird website for full details:
www.firebird.ie or **www.firebirdni.com** or **www.firebird.uk.com.**

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