



Leading the way in
**Sustainable
Home Heating**

FIREBIRD ENVIROAIR HEAT PUMPS

**For Your New Build
or Home Upgrade**

Air/Water Monobloc Heat Pump
Available in 4.3kW to 16kW versions

Cooling & Heating

**World Class
Renewable
Heating
Solutions**



HITACHI



COP = 5.25kW of heat

A+++



Environment



Innovation



Technology

Free Home Heating Consultation - Call or Email Your Plans Today

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www.firebird.ie | www.firebird.uk.com



Firebird IRL/NI



Firebird UK

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.



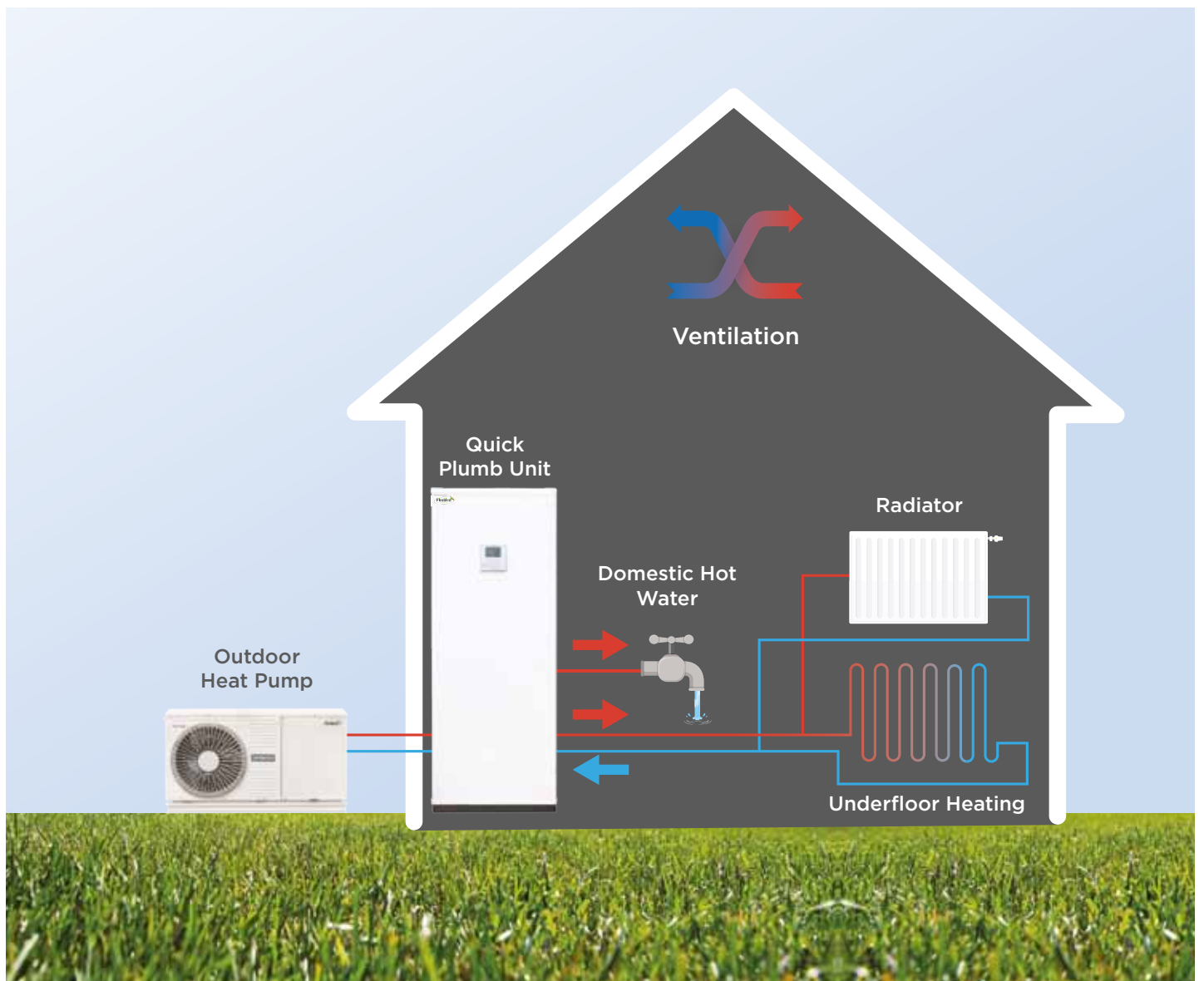
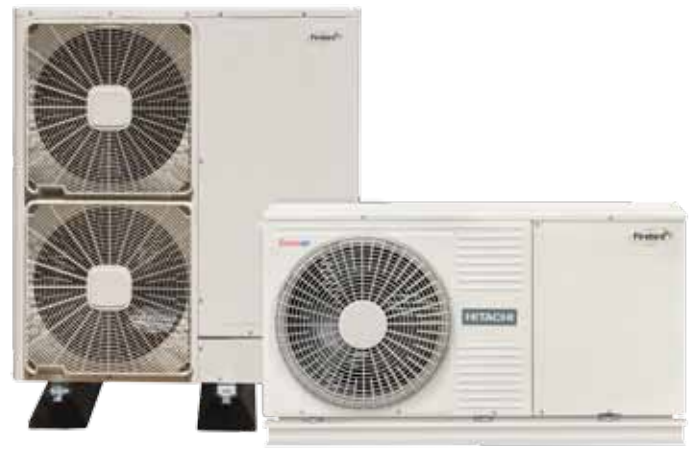
The Enviroair Air Source Heat Pump Can Be Combined With:

- **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.



Enviroair Air Source Heat Pump Range

The size of the heat pump you require will depend on many different factors and Firebird can help you determine the right model for your home.

Firebird Range:

5kW	11kW
7.5kW	14kW
8KW	16kW

WHY CHOOSE A FIREBIRD ENVIROAIR HEAT PUMP

High performance levels and space-saving

Do you need high performance levels, but only have limited space for installing a heat pump? Choose the Yutaki M and you only need to install one external module for your heating solution.

Heat can be distributed through your existing heating network, whether that is a heated floor, low-temperature radiators and/or convector fans.

The cost-saving solution!

The Yutaki heat pump was designed to use 70% of free power (calories in the air) and only 30% of electricity.

Here's what you need to know!

The power savings generated are directly proportional to the coefficient of operating performance (COP).

With the Yutaki M, for every 1 kW of power consumed, 5.25 kW of heating are available (under nominal operating conditions). The Yutaki M is the best performer on the market!

Ecologically responsible commitment

With its thermodynamic system, the Yutaki heat pump produces more power than it consumes.

A technology that really performs!

Quiet and compact, these heat pump currently represent the best performing technology to equip your house.

Think about it:

5.25

= 5.25 kW of heat

HiKumo®

Stay connected and control your Yutaki remotely via an application created especially for you.



* 7°C ext / 35°C water.



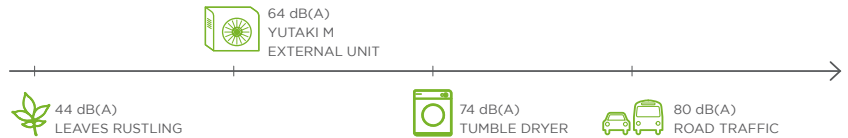


more comfort

- Operation guaranteed down to external temperatures of -20°C.
- Ultra-quiet hydraulic modules (noise levels of up to 61dB[A]).

Low noise level (at 1 meter from the unit, decibel counts for each model).

Up to **70%**⁽¹⁾
energy savings



more economical

Firebird products combine performance with great economy and have some of the highest energy efficiency labels.

Yutaki M

heating mode



DHW mode



more ecological



Hitachi is committed to environmental protection through the introduction of the new R32 refrigerant in its heat pumps.

- Our R32 air/water heat pumps perform 5 to 15% better than traditional systems filled with R410A.
- More environmentally responsible, R32 reduces the fill volume of our units by 30% while also delivering better performance.

Contrary to classic heating boilers, Hitachi heat pumps have no direct CO₂ emissions. (CO₂ only linked to the production of electricity).

Among all heating systems, this is the only one capable of producing more power than it consumes.



Emission rate of CO₂ annually and by m²

FUEL OIL

46 kg

NATURAL GAS

36 kg

ELECTRICITY

16 kg

HEAT PUMP

5 kg

Emission level of CO₂ annually and by m² of the structure for a 125 m² house built in 1980 in the Rhône region. Energy costs in accordance with www.developpement-durable.gouv.fr Depending on location and use of the compared systems. (jan 2013, base 100).

* According to EU regulation no. 811/2013, 2019 design of label, on a scale of G to A+++.

(1) In relation to electrical heating. Example provided as a guide. In accordance with installation conditions, use and location.

A summary of a technology there to deliver performance



Discover all the assets of the Yutaki M which combine performance, economy, design and ease of use.

① A LOW-CONSUMPTION PUMP

This low-consumption pump adapts its flow rate to the needs of domestic heating, achieving cost-savings of up to 60% compared to a traditional pump.

② REVERSIBLE FOR COMFORT ALL YEAR ROUND (optional)

You will appreciate the dual function that enables you to provide heating in winter, and refreshing cooling in summer.

③ SIMPLIFIED OPERATION BY HITACHI



Hitachi thought up simplicity! You will appreciate:

- The new intuitive interface.
- The timer-based program settings.
- Control of your ambient heat settings and of hot water.
- The scope for managing a second heating zone.
- Heating management for your swimming pool.
- Electrical consumption reduced in standby mode.
- Management of readings from your boiler.

④ ENERGY SAVINGS ACHIEVED WITH INVERTER TECHNOLOGY

The compressor developed and manufactured by Hitachi incorporates inverter technology. This enables the heat pump to modulate its operating performance to meet the needs of residential heating precisely. Inverter technology reduces consumption by 30% compared to a traditional compressor, creating a reduction in your electricity bill.

EXTERNAL HOT WATER (optional)

Domestic hot water cylinders (150L to 300L) enable you to assure the hot water needs of a family of up to 6 people.

BACK-UP SYSTEM (optional)

In case of additional heating need, backup heaters ensure that comfort is always maintained.



A range eligible for financial assistance.*



MCS certificate



FINANCIAL ASSISTANCE FROM RHI

WITH HITACHI,
PLACE YOUR
CONFIDENCE IN
THE EXPERTS

+

WITH
60
YEARS

of experience in
air-conditioning
and heating

+

WITH
4.5
million

heating systems
manufactured
worldwide each
year

+

WITH
1000s

of customers in
the UK & Ireland

MANUFACTURER
GUARANTEES



guarantee on the
compressor



guarantee on the
other components

For more information about financial assistance, consult this website: <https://energysavingtrust.org.uk/renewable-energy/installation/renewable-heat-incentive>.

*In accordance with financial arrangements currently in place.

(1) Request your ERP certificate by connecting directly to our website www.hitachi-hvac.co.uk/apps

Made-to-measure installation

For New Builds and Home Upgrades



1. External group



2. Heated floor and radiators



3. Wireless remote control

COMFORT ALL YEAR ROUND

The Yutaki M will provide you with heating comfort even at external temperatures as low as -20°C.

The room temperature thermostat makes it easier to optimise control and management of heating or cooling.

The compressor developed and manufactured by Hitachi incorporates inverter technology. This enables the heat pump to modulate its operating performance to meet the needs of residential heating precisely.

Inverter technology reduces power consumption by 30% compared to a traditional compressor, achieving a saving on your electricity bill.

To install this monobloc heat pump, you only need to connect up the hydraulics and the electrics.

No specific location required since the unit is installed outside the property.

NAME OF THE SYSTEM			Yutaki M 2	Yutaki M 3	Yutaki M 4	Yutaki M 5	Yutaki M 6	
Outdoor Units			RASM-2VRE	RASM-3VRE	RASM-4(V)NE	RASM-5(V)NE	RASM-6(V)NE	
Capacity	Heating (Min/Nom/Max)	kW	1.85/ 4.30 /6.50	2.1/ 8.00 /11.00	4.30/ 11.00 /15.20	4.80/ 14.00 /16.70	5.50/ 16.00 /17.80	
	Cooling (Nom/Max)	kW	4.00/5.00	6.50/7.00	7.20/11.80	9.50/12.60	10.50/13.70	
Consumption	Heating (Nom)	kW	0.82	1.74	2.20	2.97	3.50	
	Cooling (Nom)	kW	1.00	1.94	2.18	2.68	3.17	
Electrical power	Single-phase	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz-	
	Three-phase	-	-	3N ~400V 50 Hz	3N ~400V 50 Hz	3N ~400V 50 Hz	3N ~400V 50 Hz	
COP (Water 35 C, Ambient 7 C)	Nominal		5.25	4.60	5.00	4.71	4.57	
EER (Water 7 C, Ambient 35 C)	Nominal		4.00	3.35	3.54	3.54	3.31	
Energy rating at 35 C	Medium climate		A+++	A+++	A+++	A+++	A++	
Seasonal efficiency at 35 C, SCOP / IIs			4.93/181	4.25/177	4.75/187	4.45/175	3.90/153	
Energy rating at 55 C			A++	A++	A++	A++	A++	
Seasonal efficiency at 55 C, SCOP / IIs			3.58/133	3.25/125	3.48/136	3.40/133	3.30/125	
ESEER			3.36	3.26	3.33	3.29	2.84	
SEER / IIs		Single-phase		4.11/162	3.95/155	4.93/194	4.83/190	4.70/185
		Three-phase		-	-	5.05/199	4.92/194	4.78/188
Outdoor operating temperatures	Heating (DB)	C°	-20 to 25	-20 to 25	-25 to 25	-25 to 25	-25 to 25	
	Hot water (DB)	C°	-20 to 35	-20 to 35	-25 to 35	-25 to 35	-25 to 35	
	Cooling (DB)	C°	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46	
Water production temperatures	Heating	C°	20 to 60	20 to 60	20 to 60	20 to 60	20 to 60	
	Hot water	C°	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75	
	Cooling	C°	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22	
Maximum current	Single-phase		12.7	17.2	30.8	30.8	30.8	
	Three-phase		-	-	14.3	14.3	16.3	
Water pipe diameter	Input-output	inches	1-1	1-1	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4	
Minimum water volume of the installation		l	28	28	38	46	55	
Water flow	(Min/Nom/Max)	m3/h	0.50 - 0.77 - 1.90	0.60 - 1.29 - 2.10	1.00 - 1.89 - 2.80	1.10 - 2.41 - 3.00	1.20 - 2.75 - 3.00	
Air flow		m3/h	2,526	2,982	4,800	5,400	6,000	
Sound power		dB(A)	61	69	64	65	69	
Compressor			Scroll DC Inverter	Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	
Refrigerant			R32	R32	R410A	R410A	R410A	
Refrigerant charge		kg (m)	1.20	1.30	2.80	3.10	3.10	
Dimensions (H x W x D)		mm	704 x 1,248 x 300	704 x 1,248 x 300	1,380x1,252x370	1,380x1,252x370	1,380x1,252x370	
Weight	Single-phase	kg	76	78	131	133	133	
	Three-phase		-	-	130	132	132	

Control your level of comfort



HIKUMO®

STAY CONNECTED WITH YOUR HIKUMO® FROM HITACHI :

- Remote control of your heat pump via smartphone, tablet, PC;
- the full range of functions can be accessed easily;
- management of temperatures and of ventilation;
- weekly programming;
- holiday function ;
- assistant function: program your heating configuration in advance simply by answering 3 questions ;
- SMART TIP function : in a single click, lower your setpoint temperatures and save up to 7% on energy costs.



AMBIENT TEMPERATURE SENSOR WIRED (OPTIONAL FOR 2ND ZONE)

Let your heat pump manage things for you
Your comfort is improved by the responsiveness of your closed-loop control system.



WIRED REMOTE CONTROL (INCLUDED)
WIRED PROGRAMMABLE THERMOSTAT

Multiple range of functions. As well as essential functions, you will have access to:

- weekly programming: enables you to configure up to 5 different temperature ranges each day;
- the «holiday» function: assures an ideal temperature for your property while you are away from home, using setpoint temperatures that you set up before leaving;
- the anti-freeze function : protects your system in winter;
- your annual energy consumption levels are stored and displayed.



For all Technical Information, visit the Firebird Website:

www.firebird.ie

What Comes with Your **Enviroair** Heat Pump?



SUPPORTING MOUNTING BASE
(If required)



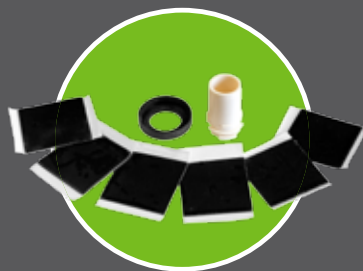
MULTI-FUNCTION CONTROLLER



FIREBIRD **ENVIROCYL** QUICK PLUMB UNIT



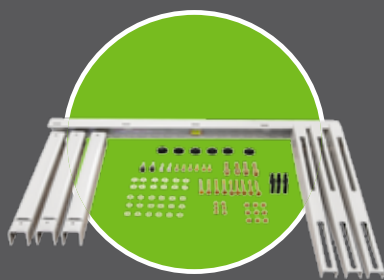
BRAIDED STAINLESS STEEL FLEXI HOSE



INTERNAL DRIP TRAY DRAIN KIT



FIREBIRD **ENVIROAIR** UNDERFLOOR HEATING



WALL BRACKET KIT
(If required)

The **Enviroair** Heat Pump is Compatible with





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) 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.firebird.uk.com.**



Environment



Innovation



Technology

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