

HITACHI

# Yutaki M

The best monobloc heat pump on the market



**Air/water monobloc heat pump**  
Available in 4.3 kW and 8 kW versions



Cooling & Heating



# WHY CHOOSE A HITACHI 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\*

A HIGH COP

for every **1kW** consumed  
= **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.

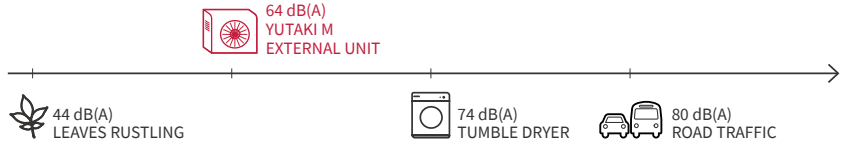


UP TO  
**70%**<sup>(1)</sup>  
ENERGY  
SAVINGS

## 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).



## MORE ECONOMICAL

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

A high-performance boiler

heating mode

**A**

DHW mode

**B**



Yutaki M

heating mode

**A+++\***

DHW mode

**A+\***



## MORE ECOLOGICAL **R32** REFRIGERANT

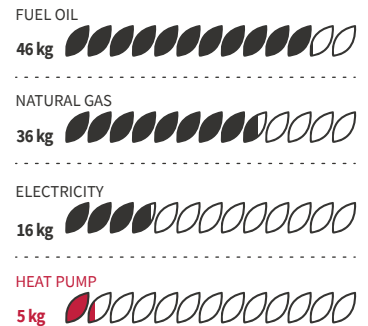
**Hitachi is committed to environmental protection through the introduction of the new R32 refrigerant in its heat pumps.**

- 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 CO<sub>2</sub> emissions. (CO<sub>2</sub> 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 CO<sub>2</sub> annually and by m<sup>2</sup>**



Emission level of CO<sub>2</sub> annually and by m<sup>2</sup> of the structure for a 125 m<sup>2</sup> house built in 1980 in the Rhône region. Energy costs in accordance with [www.developpement-durable.gouv.fr](http://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+++.

<sup>(1)</sup> 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.\***

**RHI**  
Renewable Heat Incentive

**FINANCIAL ASSISTANCE  
FROM RHI**



**MCS CERTIFICATE**

*Learn more about your Hitachi  
premium products<sup>(2)</sup>  
[www.hitachi-hvac.co.uk](http://www.hitachi-hvac.co.uk)*

**HITACHI**

**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.

<sup>(2)</sup> Request your ERP certificate by connecting directly to our website [www.hitachi-hvac.co.uk/apps](http://www.hitachi-hvac.co.uk/apps)

# MADE-TO-MEASURE INSTALLATION

FOR NEW PROPERTIES & RENOVATION



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  $-20^{\circ}\text{C}$ . The room temperature thermostat makes it easier to optimise control and management of heating or cooling.

## POWER SAVING 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 power consumption by 30% compared to a traditional compressor, achieving a saving on your electricity bill.**

## PLUG & PLAY FOR SIMPLICITY OF INSTALLATION

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.**

### WOULD YOU LIKE TO LEARN MORE ABOUT OUR HEAT PUMP MODELS?

Scan this code to view our demonstration video or visit our website, Hitachi Heating and Air-conditioning.

# CONTROL YOUR LEVEL OF COMFORT



## AMBIENT TEMPERATURE SENSOR WIRED

(optional for 2<sup>nd</sup> zone)

**Let your heat pump manage things for you**

Your comfort is improved by the responsiveness of your closed-loop control system.



## WIRELESS REMOTE CONTROL WITH COMPENSATION FOR AMBIENT CONDITIONS

**Appreciate its simplicity**

- You manage the internal temperature of your home very simply indeed.
- You can add an extra wireless thermostat to control two different zones in your property.



## 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.



## 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.



## TAHOMA BY SOMFY®

**Experience Somfy® domestic control with all of your Hitachi products and all compatible elements in your home:**

- **remote control** of your home using your smartphone, tablet or PC;
- **manage more than 100 items of compatible equipment** using just 1 application;
- **your TAHOMA box from Somfy®** enables you to control your heat pump, your roller blinds, your gates, your garage door, your lighting ...

# YUTAKI M

| YUTAKI M   | UNIT              | RASM-2VRE   | RASM-3VRE         |
|--|-------------------|---|-------------------|
| Nom. power / Max. heating (7°C ext / 35°C water)                                 | kW                | 4.30 / 6.50   | 8.00 / 11.00      |
| Nom. power / Max. heating (-7°C ext / 35°C water)                                | kW                | 4.50 / 5.30   | 5.80 / 7.50       |
| Nom. power / Max. heating (-7°C ext / 55°C water)                                | kW                | 4.00 / 4.20   | 5.00 / 5.50       |
| Nominal power input Heating (7°C ext / 35°C water)                               | kW                | 1   | 1.94              |
| COP  |                   | 5.25  | 4.6               |
| Seasonal energy efficiency η <sub>s</sub> 35°C heating only model <sup>(1)</sup> | %                 | 183 (A+++)  | 177 (A+++)        |
| Seasonal energy efficiency η <sub>s</sub> 55°C heating only model <sup>(1)</sup> | %                 | 135 (A+++)  | 127 (A++)         |
| Seasonal energy efficiency η <sub>s</sub> 35°C reversible model <sup>(1)</sup>   | %                 | 188 (A+++)  | 180 (A+++)        |
| Seasonal energy efficiency η <sub>s</sub> 55°C reversible model <sup>(1)</sup>   | %                 | 138 (A++)   | 129 (A++)         |
| Nominal power Cooling (35°C ext / 7°C water) (reversible model)                  | kW                | 4   | 6.5               |
| Nominal power input Cooling (35°C ext / 7°C water)                               | kW                | 0.8   | 1.7               |
| EER  |                   | 4   | 3.35              |
| Air flow rate  | m <sup>3</sup> /h | 2682  | 4800              |
| Dimensions (H x L x D)   | mm                |   | 704 x 1248 x 300  |
| Net weight   | kg                | 76  | 78                |
| Power supply   |                   |   | 230V / 1Ph / 50Hz |
| Max. current without backup heater   | A                 | 21.6  | 30.8              |
| Cable size (mm <sup>2</sup> ) / max. length (m)                                  |                   | *   | 3 x 4 / 27        |
| Max. current with optional backup heater   | A                 | 34.1  | 43.3              |
| Cable size (mm <sup>2</sup> ) / recommended (m)                                  |                   |   | 3 x 10            |
| Control wiring (LIVCY cable)   | mm <sup>2</sup>   |   | 2 x 0.75          |
| Sound power  | dB(A)             | 61  | 69                |
| Expansion vessel   | L                 |   | 6                 |
| Water flow rate (min - nom - max)  | m <sup>3</sup> /h | 0.5 - 0.77 - 1.9  | 0.6 - 1.29 - 2.1  |
| Minimum installation volume  | L                 |   | 28                |
| Hydraulic heating connections (male/male valves supplied)                        | inches            |   | 1"                |
| Electric backup heater (optional)  | kW                |   | 6 (2/4/6)         |
| Operating ranges   | °C                | Heating (-20 / +25°C) // DHW (-20 / +35°C) // Cooling (+10 / +46°C) |                   |
| Max. outlet temperature of water (heating)                                       | °C                | 60°C down to -5 °C ext  |                   |
| Outlet temperature range of water (cooling)                                      | °C                | 5°C - 22°C  |                   |
| Initial refrigerant charge   | kg                | 1.2   | 1.3               |
| Refrigerant  |                   |   | <b>R32</b>        |
| Type of compressor   |                   | SCROLL  | ROTARY            |

Supplied with wired remote control



## JOHNSON CONTROLS - HITACHI AIR CONDITIONING EUROPE SAS

### Your installation technician, a source of expertise, a professional

He will know how to select products suited to your needs, to perform installation to state-of-the-art standards and to provide after-sales support through a maintenance contract.

Your Hitachi installation technician:

[hitachi-hvac.co.uk](http://hitachi-hvac.co.uk)



Keymark certification

The commercial guarantees offered by Hitachi relate to the components used in our machines. Without reservation, they apply to an installation that complies with our technical specifications and they are contingent upon regular maintenance of equipment items by skilled personnel. The frequency of maintenance work is linked to the conditions of use of the hardware and to prevailing legislation. Contact your installation technician for advice.

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