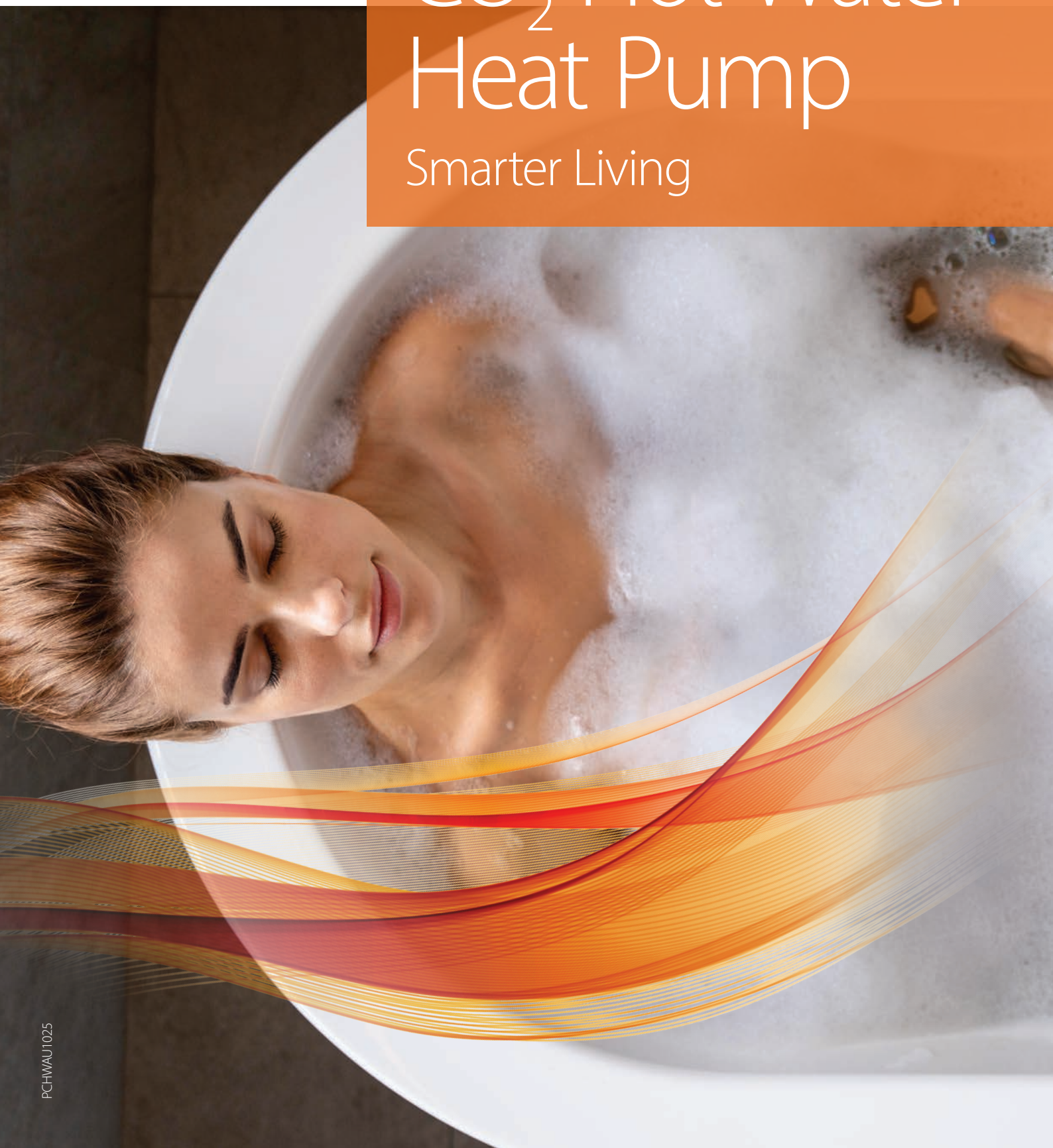
DAIKIN

# $CO_2$ Hot Water Heat Pump

## Smarter Living



PCHWAU1025

# 10 reasons to choose Daikin hot water

### 10 Year Manufacturer Warranty on Parts & Labour

### Engineering Expertise
With over 100 years of expertise in air conditioning and heat pump technology, Daikin is renowned for its innovation and cutting edge technology. Now, we bring that same world-class engineering into hot water systems.

### Powered by Superior Technology
Daikin hot water systems are powered by advanced heat pump technology, making them one of the most efficient hot water systems available.

### $CO_2$ Refrigerant
Our system use $CO_2$ natural refrigerant with a Global Warming Potential (GWP) of just 1 and zero Ozone Depletion Potential.

### Designed to Last
Duplex Stainless Steel Tank – Highly durable and corrosion-resistant and reliability for years to come.

### Compact and Powerful
Compact water heat exchanger maximises heat transfer for better performance without taking up extra space.

### Quiet Operation
Our system runs with ultra-low noise levels, making it ideal for installation alongside residential homes.

### Auto Adaptive Mode
Automatically adjusts heating times and volumes, ensuring you always have hot water when you need it, without wasting energy.

### Easy to Install
The Daikin hot water heat pump has been designed for simple and quick installation.

### Peace of Mind
Get your system installed only by Daikin appointed Hot Water Specialists that understand the ins and outs of our system.



# Daikin hot water – the smart choice

Upgrade and install a Daikin hot water system and enjoy efficient, sustainable hot water technology for years to come. It's the smart way to reduce your footprint, lower your energy bills and future-proof your home.

Australia is on the path to net zero and every home that switches to all-electric hot water helps get us there. With government incentives and support, making the move is easier than ever, delivering upfront savings and lower running costs for years to come.

## Goodbye gas. Hello savings

Government incentives make it easier and more affordable to upgrade from a traditional hot water system to an energy-efficient heat pump hot water system, with savings that can vary depending on where you live. Scan below to see the savings you can enjoy.

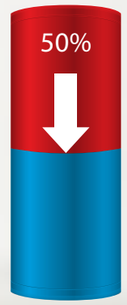
**SCAN TO FIND OUT MORE**

# Smart control from anywhere

While the main controller is incorporated into the outdoor unit and easily accessible, it can also be paired with the optional Airbase Outdoor Wi-Fi kit. Once connected through the Airbase app, your smartphone becomes a handy remote control, giving you a simple and convenient way to manage your hot water.

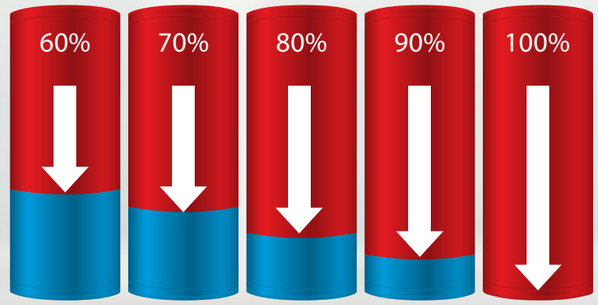
## Tailored Hot Water Delivery

Adjust the amount of hot water available in the tank to match your household's needs. With six volume settings (from 50% to 100%), you can avoid heating excess water when demand is low.

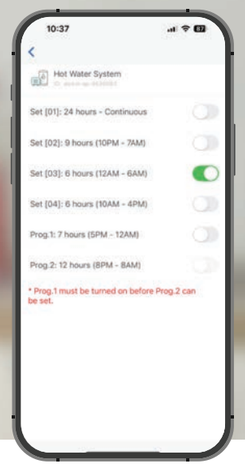



Level 1

To maximise savings, it is recommended to select Level 1 to determine the most energy efficient operation

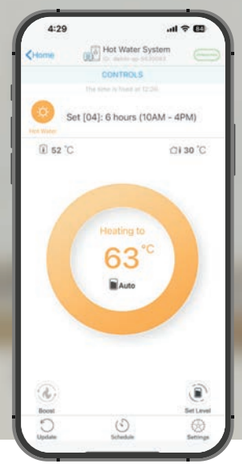



Level 2-6




## Scheduling Mode

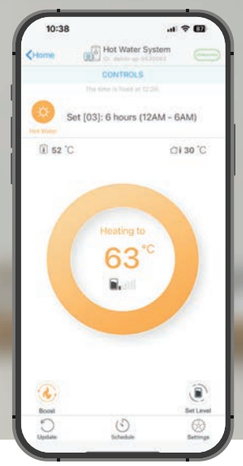
Make the most of solar and or off-peak electricity rates to cut down on running costs. Choose from easy preset schedules or customise your own, so your hot water system works around your lifestyle and delivers water comfort and lower energy bills.




## Auto Adaptive Mode

Smart Adaptive Mode learns your household's hot water usage habits and automatically adjusts heating times and volumes, ensuring you always have hot water when you need it, without wasting energy.

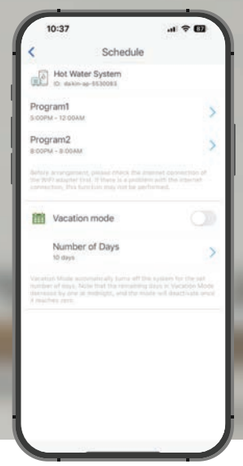
Allows the system to learn the usage habits for 7 days




## Heat Boost Mode

Heat Boost Mode quickly reheats the tank, so you can enjoy up to 80L of usable hot water in as little as 60 minutes. * Perfect for busy households or when extra guests arrive.

*Actual heating rate dependant on Water Inlet Temperature, Ambient Air Conditions and required water temperature.



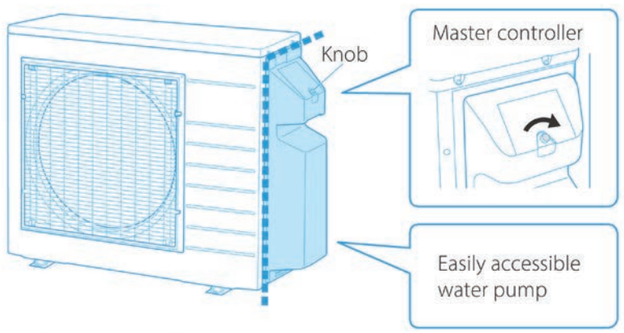

## Vacation Mode

Save energy while you're away. Just set your number of days away and the system switches to low power mode. It will also run the anti-legionella cycle automatically.

**10 YEAR WARRANTY**
**PARTS & LABOUR**

Daikin's 10-Year Parts and Labour Warranty applies to hot water heat pump system purchased and installed in homes across Australia.

Daikin's 2-year Parts and Labour Warranty applies to Quickie Kits and PTRV.



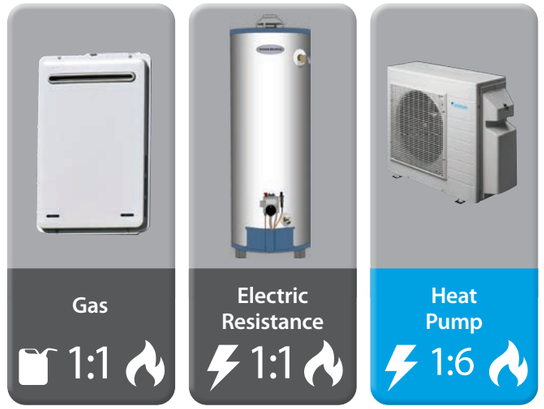

## Built-in Controller

Daikin includes the master controller incorporated on the heat pump unit itself so you can control every aspect of your hot water system at the touch of your fingertips.

# Hot Water Powered by Superior Technology

Daikin hot water systems are powered by advanced heating technology, through a combination of heat pump technology that harnesses energy from the air, highly efficient compressor technology and $CO_2$ Refrigerant to deliver hot water rapidly and efficiently.

This makes it up to **six times more efficient*** than traditional electric or gas heaters, delivering energy-efficient hot water and lower power bills.

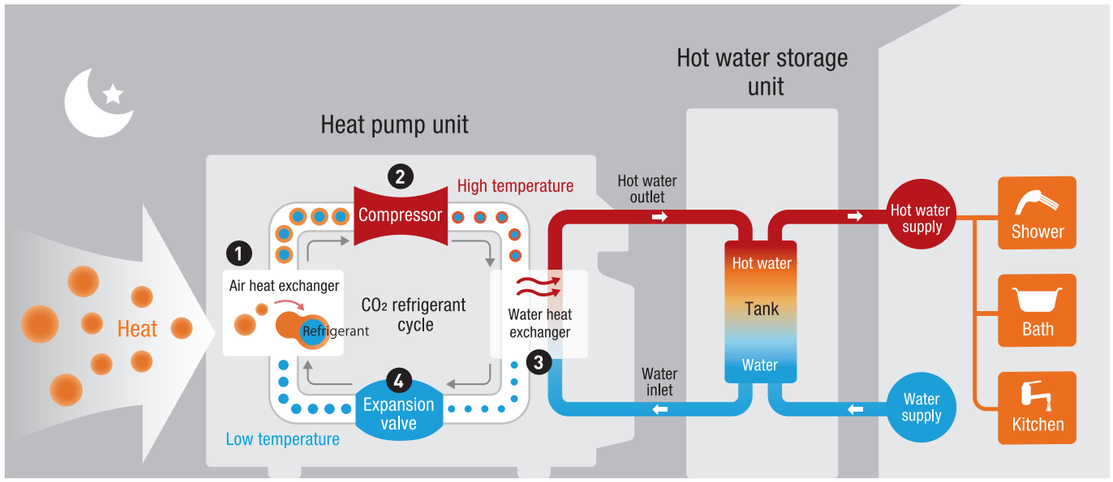



*For more information on heat pump technology, see www.eec.org.au/for-energy-users/technologies-2/heat-pumps.

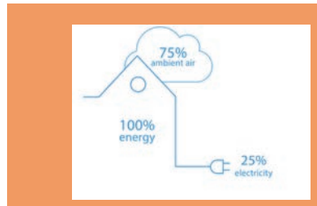
# How a heat pump system works

## Advanced heat pump technology turns atmospheric air into heat, without burning energy

1. Heat pump collects heat from the air and transfers it to the refrigerant to carry the heat.
2. Heat pump compresses the refrigerant and raises its temperature.
3. Heat pump creates hot water by transferring the refrigerant's heat to the water
4. Heat pump expands its refrigerant so it can easily collect heat again.






**Heat Pumps can turn 1 unit of energy into 6 units of heat for your home.**

**Take advantage of solar renewables with a fully electric system.**

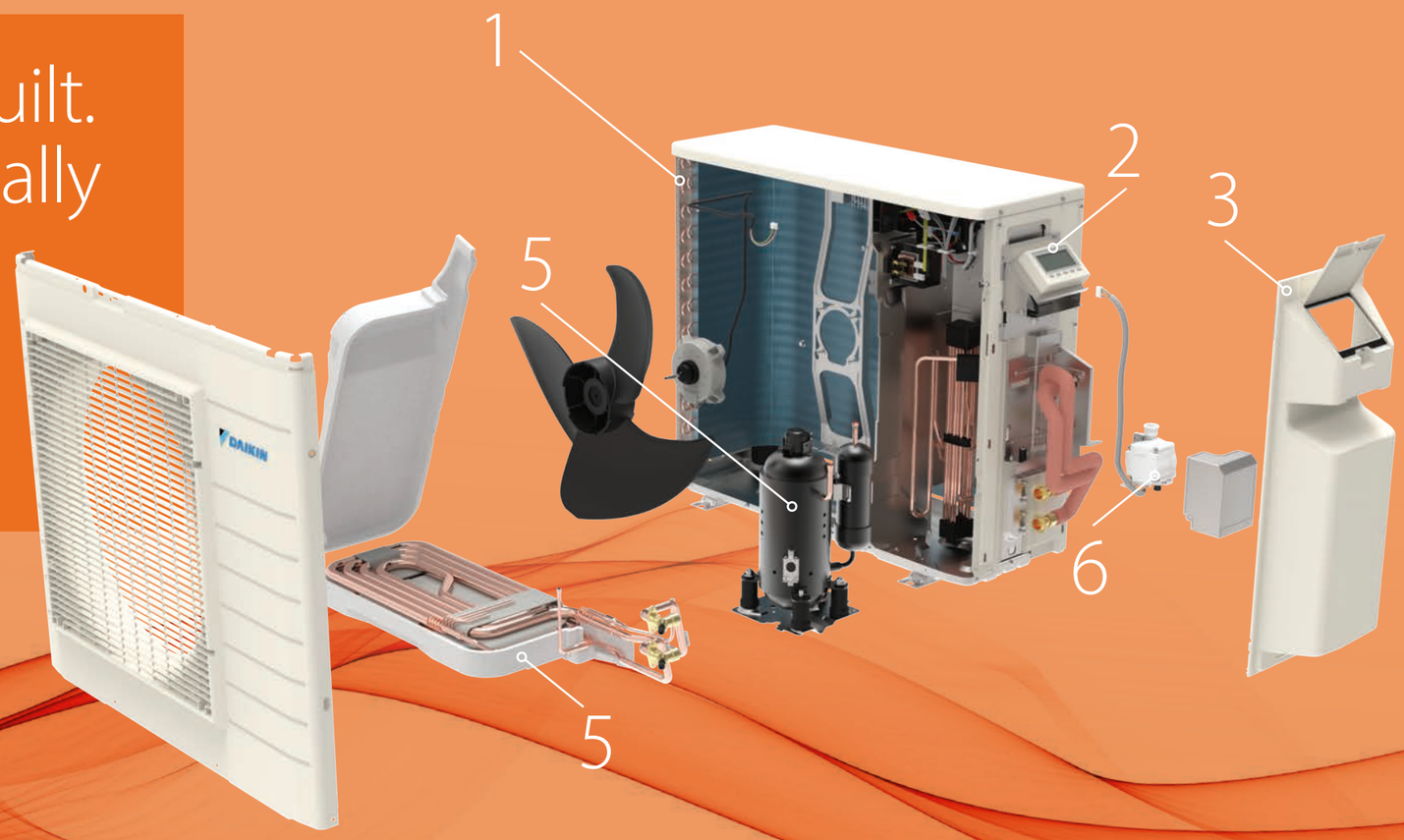
# Sustainable Design

Designed with Lead-free and PFAS-free components and using R744 ($CO_2$) refrigerant, Daikin's Hot Water system delivers energy savings and a lower environmental impact.

Many Australian households are already enjoying the benefits of having Solar PV. By integrating it with a heat pump hot water system, you can take advantage of excess solar generated during the day to offset your hot water costs, saving you money and reducing your environmental impact.

# Smartly built. Exceptionally efficient

The $CO_2$ Heat Pump Hot Water System is designed and built to deliver long-lasting durability, exceptional performance and straightforward control and maintenance.




## Water Storage Tank

**2x Sizes Available**

4

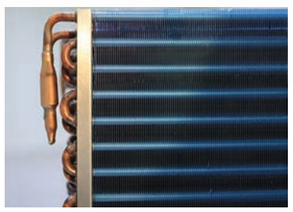
Perfect for larger households.

Up to 5 bedroom household.

Perfect for smaller households.

Up to 3 bedroom household.

250L 315L



### 1. Built to withstand the elements

Blue Fin Condenser – Special anti-corrosion coating protects against the elements, helping your system last longer even in the toughest atmospheric conditions.

### 2. Smarter controls

Master Controller – With a weather-proof cover, the built-in controller is easily accessible on the side of the unit for quicker commissioning and makes ongoing maintenance and servicing simple.

### 3. Easy to move and quick installation

Built-in handles makes the system easy to move. Once in place, a pre-configured Quickie Kit makes installation a breeze with all the fittings you need. The UV treated insulation also makes it more durable in harsher conditions.

### 4. Designed to last

Duplex Stainless Steel Tank is made from unique duplex alloy with high chromium composition, which helps protect against corrosion and ensures longer term reliability compared to common grade stainless steels e.g. 316L.

### 5. Efficient heating power

Double Wall Coiled Heat Exchanger – Compact design maximises heat transfer in a compact volume space and limits any leak contamination between refrigerant and water.

Swing Compressor – Daikin's advanced compressor runs quietly and efficiently, delivering consistent heating while saving energy.

### 6. Easy to maintain

Water Pump – Accessible design makes servicing or replacement straightforward, extending the life of your system.

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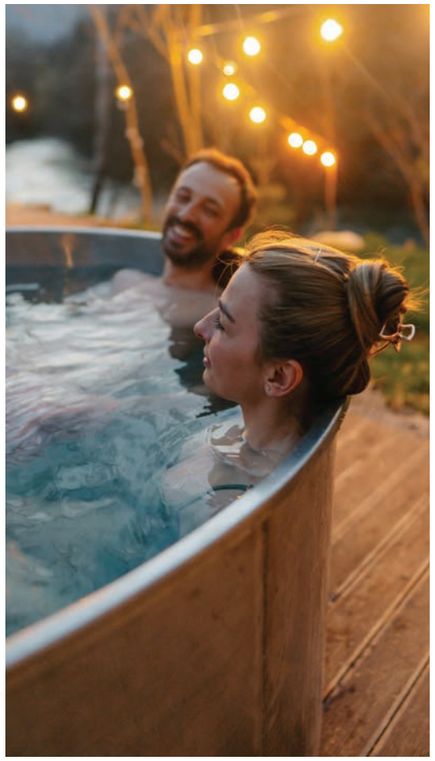
## HOT WATER SPECIALIST

Daikin Hot Water Systems are installed exclusively by Daikin appointed Daikin Hot Water Specialists. Fully qualified and experienced, they know the ins and outs of our technology and ensure you get the right advice for your home.

Your Specialist will provide a tailored solution and supply and install the system to the highest standard.

All appointed Daikin Hot Water Specialists are independently owned and operated, giving you local expertise with the backing of Daikin technology.





# Specifications

| Heat Pump Unit | | RQWX60ZV1A |
|---|---|---|
| Installation location | – | Outdoor |
| Ambient temperature | °C | -10 ~ 43 |
| Water outlet temperature | °C | 63 |
| Nominal thermal output | kW | 5.11 |
| Nominal power consumption* | kW | 0.83 |
| Nominal COP* | – | 6.15 |
| Max. heat output* | kW | 6.0 |
| Max. operation current | A | 10 |
| Heat up time^ | hr | 4 |
| Breaker size | A | 15 |
| Power supply | – | 1ph 230~240V 50Hz |
| Compressor type | _ | Swing |
| Compressor name | _ | 1Y042CKAX1S |
| Sound pressure level | dB(A) | 38 |
| Dimensions (H x W x D) | mm | 735 x 825 (+113) x 300 (+15) |
| Weight | kg | 61 |
| Max. water pressure | kPa | 700 |
| Refrigerant | – | CO2 (R744) |
| Refrigerant charge | kg | 1.12 |
| Max. water piping length | m | 15 |
| Max. difference in elevation | m | 5 |
| Field piping (in/out) | mm | 12.7 |

*Nominal conditions: Ambient temperature 33°CDB/26°CWB. Inlet and outlet water temperature 21°C/63°C.
^Ambient temperature 5°C or higher. Inlet and outlet water temperature 7°C/63°C for 315 litre tank.

| Hot Water Storage Tank | | TU25SSZA^^ | TU32SSZA^^ |
|---|---|---|---|
| Hot water storage unit capacity | L | 250 | 315 |
| Installation location | – | Outdoor/Indoor | |
| External dimensions | mm | 1498 × φ600 | 1827 × φ600 |
| Net Weight | kg | 47 | 54 |
| Weight when full | kg | 296 | 368 |
| Minimum operating water pressure for cold water | kPa | 200 | |
| Maximum operating water pressure for cold water | kPa | 700 | |

^^Ensure the water quality is within specification. If the chloride level exceeds 200 mg/L, or if the pH is below 6.6 or above 8.5, or if the water is supplied from a rainwater tank that is likely to be corrosive, the warranty may not apply.

## ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

## QUALITY CERTIFICATIONS

Daikin Industries Limited was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

**Residential Air Conditioning**
Manufacturing Div (ISO 9001)
JQA-0486 May 2, 1994
(Shiga Plant)

**Commercial Air Conditioning and Refrigeration**
Manufacturing Div (ISO 9001)
JMI0107 December 28, 1992
(Kanaoka Factory and Rinkai Factory at Sakai Plant)

Lead Free
AS 3498
WM-040376
Global-Mark.com.au

Certified Product - AS 2712
Global-Mark.com.au®

## ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Limited has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

| | |
|---|---|
| Head Office / Tokyo Office | Certificate number: EC02J0355 |
| Shiga Plant (Japan) | Certificate number: EC99J2044 |
| Sakai Plant (Japan) | Certificate number: JQA-E-80009 |
| Daikin Industries Ltd (Thailand) | Certificate number: JQA-E-90108 |
| Yodogawa Plant (Japan) | Certificate number: EC99J2057 |
| Daikin Australia Pty. Ltd. | Certificate number: CEM20437 |

**Daikin Australia Pty Limited (ISO 9001)**
QEC 23256
May 12, 2006
Sydney, Brisbane, Adelaide, Melbourne, Newcastle, Townsville, Perth

**Daikin Australia Pty Limited (ISO 45001)**
OHS 20939 17
February 2021
Sydney

**Daikin Australia Pty Limited (ISO 14001)**
CEM 20437
October 27, 2006
Sydney, Brisbane, Adelaide, Melbourne, Perth

**Industrial System and Chiller Products Manufacturing Div**
(ISO 9001)
JQA-0495 May 16, 1994
(Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)

**Daikin Europe N.V (ISO 9001)**
Lloyd 928589.1 June 2, 1993

**Daikin Industries (Thailand) Ltd**
JQA-1452 September 13, 2002
(ISO 9001)

CONTACT

DAIKIN

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For Customer Service or Technical Support, call: 1300 362 438

Scan to learn more about Daikin $CO_2$ Hot Water Heat Pump Systems