HITACHI

air Home 400

Wall Mounted Systems

Cooling & Heating

reddot winner 2022

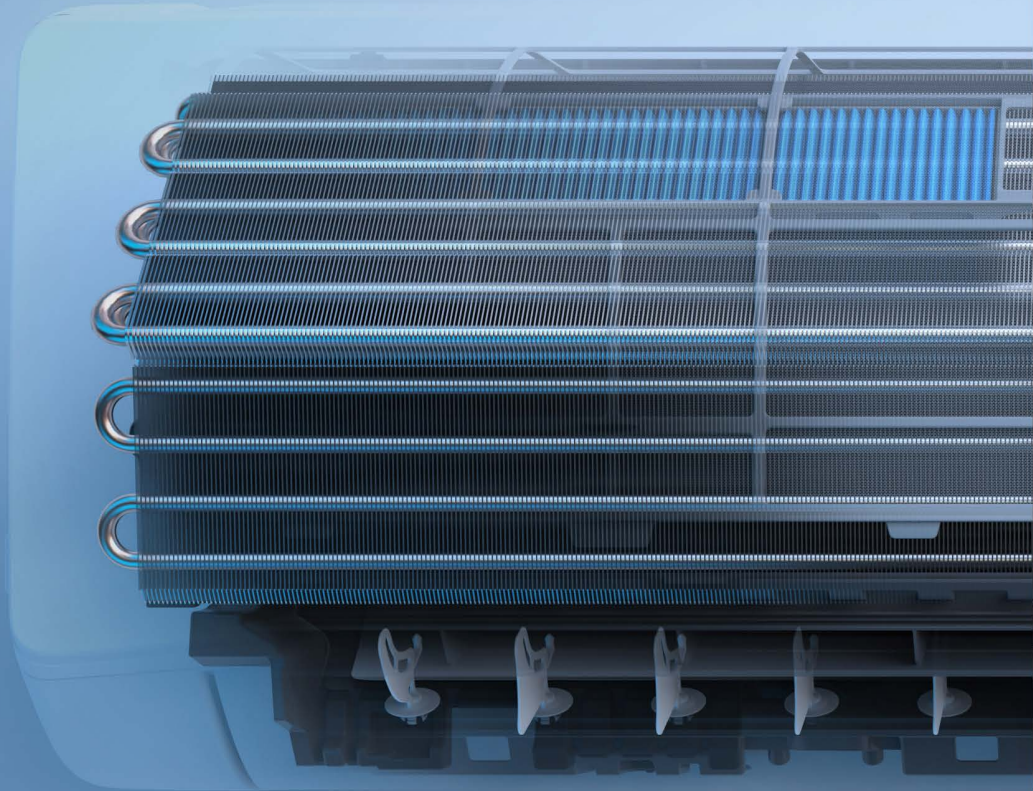6 YEARS WARRANTY

air

‾air Home 400

MANUAL
FROSTWASH

WIFI APP
OPTION

UP DOWN AUTO
SWING LOUVRES

AIR PURIFYING
FILTER

R32
REFRIGERANT

LOW GWP
REFRIGERANT

6 YEARS

6 YEAR
WARRANTY

WIDE AMBIENT OPERATING RANGE
-15˚C IN WINTER
46˚C IN SUMMER

AUTO RESTART
AFTER POWER
FAILURE

EASY
INSTALLATION

EASY ACCESS
FOR SERVICING

Key Features

- Manual FrostWash
- Virosense Filter
- Cascade Vector DC Inverter
- Seamless fan speed control
- Power tracking on optional Wi-Fi
- Dry Mode with Humidity Sensor

- Good Sleep
- Powerful Mode
- Silent Mode
- MY Mode
- Eco Mode
- Leave Home

Purifies your air

ViroSense Z1 filter

Removes many pollutants, viruses, bacteria from air that passes through the filter

99.0% Bacteria
E.coli reduction

Not only does airHome keep you comfy,
but it also improves your Indoor Air Quality.

Anti-Corrosion Coated Fins offer an added layer of protection from damage caused by corrosive environments.

Anti-Rust paint helps to protect the outdoor unit from rust and the unsightly peeling of paint.

FrostWash

Automatically cleans the heat exchanger, reducing the build up of grime, bacteria and certain viruses.

99.0% Mould, Virus & Bacteria
reduction

1. Two identical units were tested for comparison; with and without FrostWash. Test chamber simulated approx. 2 years of dust and oil build up which may be experienced in a typical home environment. Airflow performance was tested before and after FrostWash being in the chamber. Unit without FrostWash experienced an 18% drop in airflow performance. Unit with FrostWash experienced only 6% performance drop. Tested at Johnson Controls-Hitachi Tochigi factory, Japan Nov/Dec 2021.

2. Claim refers to the effect of FrostWash technology which showed 99% reduction of virus particles and 99% reduction of bacteria on the heat exchanger tested at Kitasato Research Center of Environmental Science.

3. Tested at Japan Textile Product Quality and Technology Center. Test method: ISO 18184 : 2019 "Textiles -- Determination of antiviral activity of textile products." using SARS-CoV-2 NIID isolated variant: JPN/TY/WK-521.

Helps to clean & maintain
itself year after year

1

Dirt deposits over time on the heat exchanger which leads to reduced airflow efficiency.

FrostWash: 3× better at maintaining airflow performance

Over time, dust and dirt builds up in your AC making it less powerful.

Regularly running Hitachi's patented FrostWash cycle will remove dust and dirt build up on the heat exchanger, ensuring it continues to run at its peak performance.

3

The mould and dirt detach from the heat exchanger as the frost melts.

2

FrostWash: freeze the heat exchanger. The frost captures the dirt.

4

The dirt and mould are washed away together with the condensate.

FrostWash double benefits:

Preserved performance

Our tests show that systems with FrostWash are **3× better at maintaining airflow performance** than those without this technology [1,2]

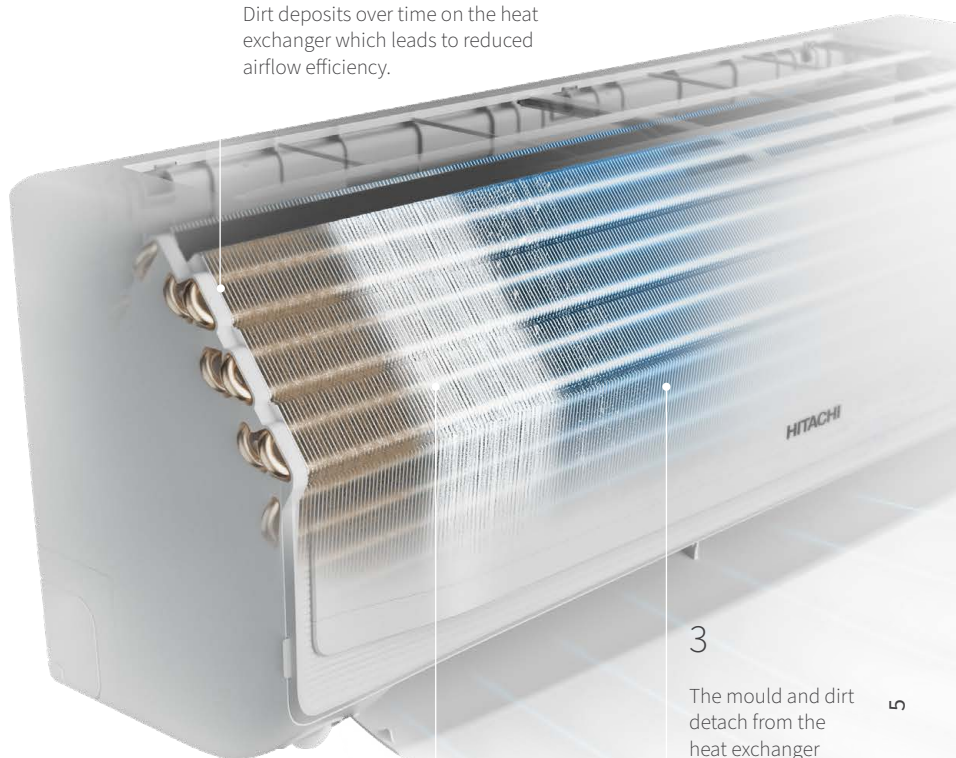## Sanitising effects

99%

Viruses eliminated[2]

99%

Bacteria eliminated[2]

95%

Mould reduction[3]

Bonus
Let FrostWash work when you're absent

- The optional **airCloud Go app** includes the control of FrostWash, so you can operate it remotely with your phone.

Wireless comfort

Intuitive and convenient comfort control

- 0.5° Set Temperature
- Manual FrostWash
- 5 Fan Speeds + Auto
- My Mode
- Eco Mode
- Leave Home
- Automatic Mode
- Backlit display
- Timer OFF/ON
- Good Sleep
- Silent Mode
- Powerful Mode
- Up/Down Louvre Control

Eco mode saves energy

Activate Eco mode to switch to more energy-efficient cooling and heating.

Eco mode automatically adjusts the temperature and fan speed to reduce power consumption, saving energy and reducing your running costs.

Climate Control

Ensures year-round comfort control

Cooler home in summer
Cooling operation
up to +46°C outside.

Warmer home in winter
Heating operation
up to -15°C outside.

Energy Efficient

airHome's DC power system - including the Cascade Vector DC Inverter - minimises energy consumed during operation.

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Program **GoodSleep** to turn off after a specified number of hours

Set the GoodSleep Timer on the remote, so once activated, the air conditioner will run for your selected number of hours and then automatically turn off.

During the hours of operation, to promote better sleep, it will allow the temperature to gradually increase by 2°C if in cooling mode, or decrease by 2°C if in heating, and operate the fan in a low-noise mode.
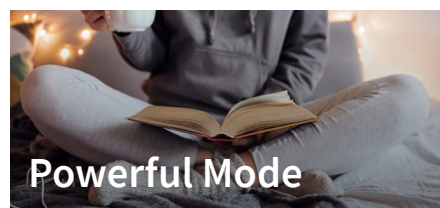
7

More features providing adaptive comfort
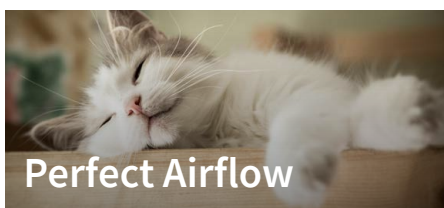
Perfect Airflow

Suitable for large rooms, the airHome 400 Distributes air effectively across any room in your house, reaching up to 24m away[1]
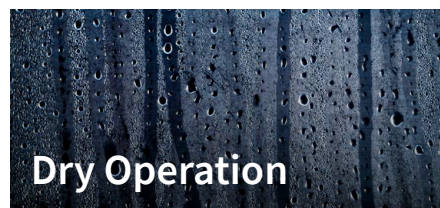
Powerful Mode

Powerful mode runs your system at maximum cooling or heating, and highest fan speed for 20-minutes to rapidly cool or heat a room

Silent Mode

So quiet, you'll forget it's on!
Thanks to the unique wave blade fan, the air conditioner will run as quiet as 20dB(A)[2]

Dry Operation

On humid days, Dry Operation dehumidifies the room efficiently and silently

1. Airflow distance will vary according to fan speed setting, environmental factors and model capacity. Claim refers to models with 5.3kW capacity and fan speed of 1200rpm creating an air velocity of 0.15m/s or more according to anemometer tests.
2. The number is observed on airHome400 (2.0~3.5kW model) when the silent mode is set. Tested at Johnson Controls-Hitachi Tochigi factory, Japan.

airHome 400 Wall Mounted Systems

Effortless comfort
with hassle-free controls

Control your AC from anywhere

All airHome air conditioners can connect to our next-generation airCloud Go app via home wifi[1].

Check and control your air conditioner's status from wherever you are, whenever you need it.

**You will never have to worry if you've left the AC on ever again.**

airCloud Go app

airCloud Go provides automated comfort as you come & go

Link your phone's location to your air conditioner with airCloud Go's Smart-Fence function. Your air conditioner will heat or cool to your ideal temperature once you reach a pre-set distance to your home.

As you leave home, you can set your air conditioner to automatically turn off or switch to a more energy-efficient temperature.
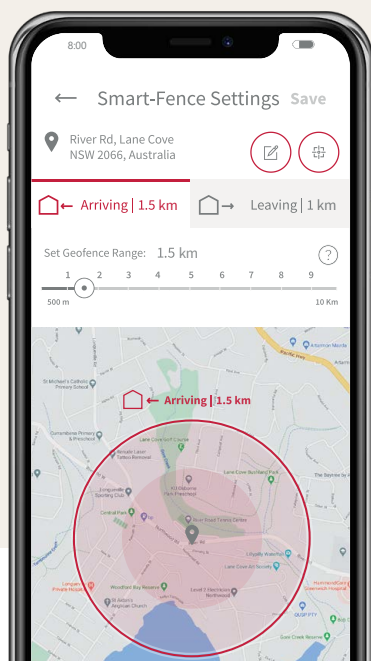
More airCloud Go features for better indoor climate control from the convenience of your phone

Turn the air conditioner on/off and set the desired temperature, fan speed and airflow direction
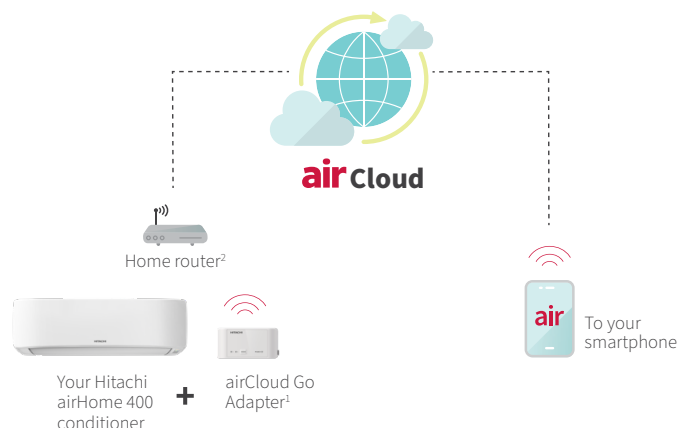
Program your air conditioning operation with the Simple Timer and/or Weekly Timer

Pair your account with unlimited air conditioners

Invite up to 20 users to manage each air conditioner

Home router[2]

Your Hitachi airHome 400 conditioner **+** airCloud Go Adapter[1]

To your smartphone

airCloud Go voice control with Alexa and Google Home

Via airCloud Go connect your airHome air conditioner to your smart speaker for hands-free operation[3].

Alexa, decrease temperature by 3°C

~3°C

airCloud Go energy cost estimator

Track AC usage in your home and preview estimates of your daily, weekly, monthly and/ or annual expenditure.

You can also set a budget limit and receive notifications as you near this threshold.
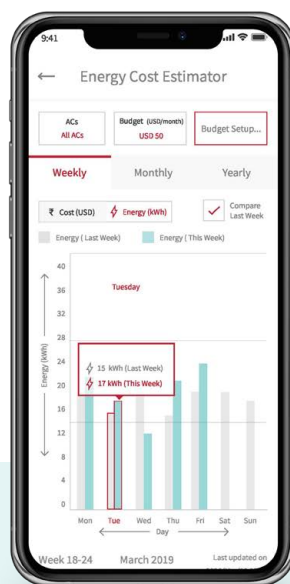
A brand-new design remote controller

With a more intuitive controller than ever before, controlling your air conditioner has never been easier.

New 'My Mode' button

The new 'My Mode' button enables you to save up to 3 combinations of your favorite settings (operation mode, set temperature, fan speed) so you can recreate your preferred climate in one touch.

0.5°C temperature control

Set the temperature by 0.5°C increments for more precise comfort.
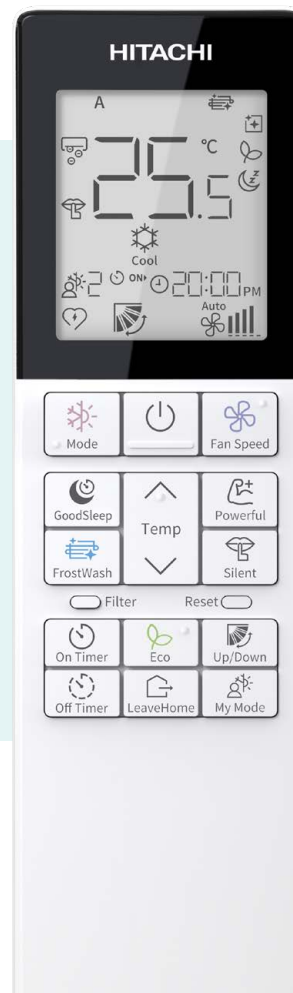
1. airCloud Go Adapter is available as an optional accessory. Access to a wifi network is required to pair airHome 400 to airCloud Go app.
2. Required router supporting 2.4GHz band.
3. Amazon Echo supports English, French, Italian, Spanish, German.
   Google Home supports English, French, Italian, Spanish, German, Portuguese-BR, Dutch, Danish, Swedish, Thailand, Chinese(Traditional), Indonesia.

Optional Accessories

Remote On/Off Adapter

Switches the unit on or off via a remote device such as a hotel room card key. Save energy by switching the unit off when the room is unoccupied.

Demand Response Module ⁽DRED⁾

Optional DRM module for instances where local requirements specify DRED compatibility.

SPX-WKT4 Wired Controller

In addition to essential functions, you will have access to:

- Weekly programming: schedule up to 5 on/off and temperature settings per day
- Ventilation speed
- 'Holiday' function: deactivates the time clock to avoid operation when not required
- Monthly consumption is saved and displayed
- Temperature limiting function
- Operation mode lock
- Error history
- Key lock function: locks all buttons on the remote controller, ideal for homes and offices.
- Multi-lingual support, easy AC operation in your preferred language
- Thermistor selection (indoor, controller, average)
- Room temperature display
- Celsius or Fahrenheit
- On and off timer (once off or everyday)
- FrostWash activation
- Daylight saving time adjustment

Features & Options

airHome 400

Manual FrostWash	●
ViroSense Air Purifying Filter	●
Eco mode function	●
Good Sleep	●
Powerful mode	●
Power Safe Mode	●
MY Mode (personalised mode)	●
2-way auto swing (up-down)	●
Auto restart function	●
12-hour timer control	●
Silent Mode	●
Auto Clean Operation	●
Leave home function	●
Backlit wireless remote	●
Power tracking display	☐
SmartFence (geo-location control)	☐
24/7 time clock function	☐
24-hour On/Off timer	☐
Remote on/off input	■
SPX-WKT4 Wired Controller	■
DRED Demand Response Module	■
Wifi connectivity - airCloud Go	■

●	Standard
☐	With optional airCloud Go Wifi App
■	Optional Accessory

Notes:

The Rated Capacity, Power Input and Running Current are measured under T1 (cooling) conditions and H1 (heating) conditions in accordance with AS/NZS 3823.1.1

Cooling: Indoor temp: 27°CDB / 19°CWB
Outdoor temp: 35°CDB / 24°CWB
Heating: Indoor temp: 20°CDB / 15°CWB
Outdoor temp: 7°CDB / 6°CWB

The indoor and outdoor unit sound levels are measured in an anechoic chamber:-
- 1 metre from the air outlet grille
- 0.8 metre beneath indoor height centre

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Specifications

airHome 400

Series			airHome 400				
Model	Indoor Unit		RAK-DJ25PHAT	RAK-DJ35PHAT	RAK-DJ50PHAT	RAK-DJ60PHAT	RAK-DJ70PHAT
	Outdoor Unit		**RAC-DJ25PHAT**	**RAC-DJ35PHAT**	**RAC-DJ50PHAT**	**RAC-DJ60PHAT**	**RAC-DJ70PHAT**
Capacity & Rating	Rated Capacity (Min. - Max.)	Cooling kW	2.5 (1.0 - 3.2)	3.5 (1.0- 4.0)	5.0 (1.0- 5.5)	6.0 (1.9- 6.8)	7.0 (2.5- 8.0)
		Heating kW	3.2 (1.0 - 4.5)	4.0 (1.0 - 5.0)	5.3 (1.0 - 6.5)	7.0 (1.8 - 7.8)	8.0 (1.8 - 8.8)
	Rated Cooling Power Input (Min. - Max.) kW		0.520 (0.25 ~ 1.29)	0.890 (0.25 ~ 1.46)	1.415 (0.50 ~ 2.10)	1.800 (0.5 ~ 3.05)	2.160 (0.5 ~ 3.50)
	Rated Heating Power Input (Min. - Max.) kW		0.660 (0.25 ~ 1.25)	0.880 (0.25 ~ 1.70)	1.415 (0.50 ~ 2.75)	1.880 (0.5 ~ 3.05)	2.150 (0.5 ~ 3.50)
	Dehumidification l / h		1.4	1.6	2.0	2.8	4.8
	Zone Energy Efficiency Star Rating	Hot Zone cooling	5.5	5.0	4.0	4.0	3.5
		Hot Zone heating	3.5	3.5	3.0	3.0	4.0
		Mixed Zone cooling	5.0	4.5	3.5	3.5	3.5
		Mixed Zone heating	3.5	3.0	2.5	2.5	2.5
		Cold Zone cooling	5.0	4.5	4.0	4.0	3.5
		Cold Zone heating	3.0	2.5	2.0	2.0	2.0
		AEER	4.758	3.909	3.520	3.321	3.231
		ACOP	4.809	4.518	3.731	3.811	3.709
Air Quality	airCloud Go	Wifi app for remote control	option	option	option	option	option
	Pre-Filter	Filters large particles	✓	✓	✓	✓	✓
	Air Purification Filter	ViroSense Z1 filter	✓	✓	✓	✓	✓
	Manual FrostWash	self-cleaning coil	✓	✓	✓	✓	✓
Technical Specifications	Power Supply V / Phase / Hz		220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz
	Rated Running Current (cooling/heating) Amps		2.91 / 3.51	4.53 / 4.29	6.16 / 5.90	7.95 / 8.30	9.53 / 9.49
	Maximum Current Amps		5.33	7.15	11.00	13.00	15.00
	Interconnecting Wire		3+EARTH	3+EARTH	3+EARTH	3+EARTH	3+EARTH
	Power supply To		outdoor unit	outdoor unit	outdoor unit	outdoor unit	outdoor unit
	Operation Range	Cooling °C	-10°C ~ 46°C	-10°C ~ 46°C	-10°C ~ 46°C	-10°C ~ 46°C	-10°C ~ 46°C
		Heating °C	-15°C ~ 24°C	-15°C ~ 24°C	-15°C ~ 24°C	-15°C ~ 24°C	-15°C ~ 24°C
	Compressor Type		Rotary	Rotary	2 Cylinder Rotary	2 Cylinder Rotary	2 Cylinder Rotary
	Diameter of Pipes	Liquid / Gas mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35 / 15.8
	Refrigerant	Type	R32	R32	R32	R32	R32
		Factory pre-charged amount (length)	870g (20m)	870 (20m)	1050 (30m)	1500 (30m)	1500 (30m)
	Min. / Max. / Lift Pipe Length m		3 / 20 / 15	3 / 20 / 15	3 / 30 / 20	3 / 30 / 20	3 / 30 / 20
	Indoor Unit	Dimension (WxHxD) mm	780 × 280 × 222	780 × 280 × 222	780 × 280 × 222	950 x 294 x 230	1050 × 294 × 250
		Weight kg	8.4	8.4	8.6	10.5	12.2
		Fan Speeds	Super High / High / Medium / Low / Quiet (+ Auto)				
		Air Flow (cooling) l / s	161/124/87/56/53	174/139/111/69/59	197/172/118/80/63	260/236/198/142/112	316/281/235/171/138
		Air Flow (heating) l / s	189/156/121/67/58	230/181/161/83/63	235/209/162/128/86	265/236/200/143/111	318/285/240/180/140
		Noise (cooling) dB(A)	40/38/33/24/20	43/41/36/26/22	47/45/39/33/24	48/45/42/33/30	48/45/42/36/32
		Noise (heating) dB(A)	41/39/34/23/20	44/42/36/27/21	47/45/39/33/24	48/45/42/33/30	48/45/42/36/32
	Outdoor Unit	Dimensions (WxHxD) mm	759 × 548 × 288	759 × 548 × 288	792 × 600 × 299	850 × 750 × 298	850 × 800 × 298
		Weight kg	31.6	31.6	39.5	47.0	49.0
		Sound Power dB(A)	60	61	63	64	65
		Sound Pressure (cool / heat) dB(A)	46/47	47/48	50/51	53/54	54/55

air

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Wellington: (04) 569 3262
Christchurch: (03) 379 3216

6 YEARS

WARRANTY
Must be maintained in accordance with maintenance
recommendations.

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