



Superior range of **reverse cycle air conditioning**



Frank Seeley AM FAICD

Founder and Executive Chairman



Seeley International is Australia's largest and most awarded air conditioning manufacturer with a history spanning more than 40 years.

Renowned for ingenuity and innovation, Seeley International leads the market in the design and manufacture of heating and cooling systems, with award winning brand names including Breezair, Braemar, Climate Wizard, Convair, Coolair and Coolerado.

With factories in Adelaide, South Australia and Albury, New South Wales, when you buy a Seeley International product you can be confident you're investing in a quality, Australian made climate control solution.

Seeley International never stops striving to engineer and build the world's most energy efficient heaters and coolers. It is this commitment to excellence that's at the heart of everything we do.



For Breezair, the product range is made in Australia.

For Braemar, the evaporative and gas heating product ranges are made in Australia.
The inverter add-on cooling product range is assembled in Australia.

For Climate Wizard, the product range is made in Australia.

For Convair, the evaporative product range is made in Australia.

For Coolair, the product range is made in Australia.

For Braemar Tudor Romeo, the product range is made in Australia.

For Coolerado, the product range is made/assembled in the US.

Just a few recent awards...

Seeley International is delighted to have been repeatedly recognised for innovation and excellence.

CCN Awards 2015

Winner: HVAC&R Leader of the Year

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The Australian Business Awards 2015

Winner: Best New Product

Braemar 7 star equivalent ducted gas heater*

Good Design Awards 2015

Winner: Product Design: Hardware and Building category

Braemar 7 star equivalent ducted gas heater*

BRW Most Innovative Companies List 2015

Top 50 Most Innovative Companies

Seeley International Pty Ltd

BRW Momentum Mid-Market Leaders Awards 2014

Winner: Best Mid-Market Business

(revenue \$100 million to \$250 million p.a.)

Seeley International Pty Ltd

Australian Design Awards 2014

Winner: Good Design® Selection

MagIQtouch Controller

United Nations Association of Australia

World Environment Day Awards 2014

Winner: Swinburne University of Technology Excellence in Sustainable Product Design Award

Braemar "Super-Six" ducted gas heating

Melbourne Design Awards 2013

Winner: Product Design: Housing & Building Awards

Braemar "Super-Six" ducted gas heating

Family Business Australia

Winner: Award for Entrepreneurship 2013

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*Star rating equivalent. Based on Australian Gas Association's results calculated in accordance with the testing methodology in AS4556-2011.



The Braemar advantage

Braemar's superior range of reverse cycle air conditioners are brought to you by Seeley International, Australia's leading cooling and heating systems manufacturer.

For more than 50 years Braemar has been comforting Australian families with superb high-performance heating and cooling products and has cemented its reputation as a trusted and innovative Australian company, and even more so, since becoming part of the Seeley International group.

For premium quality, proven reliability and the superb comfort for which it has become so famous, Braemar really is the premium choice for guaranteed comfort in all conditions, and ranks very highly among all the

celebrated Seeley International brands and their award-winning and world-leading products.

Reverse cycle air conditioning is a popular choice for home or office comfort. Braemar's superior range of MEPS (Minimum Energy Performance Standards) compliant air conditioning systems includes a suitable option for your individual needs, whether you are interested in a single space, whole-of-home or office heating or cooling.

Quick reference guide

Wall-mounted inverter split system

Ideal solution to cool or heat just one room or area of your home or office.

The system consists of:

- an indoor wall-mounted unit
- an outdoor unit

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Ducted inverter reverse cycle

Great for whole-of-home or office cooling and heating.

The system consists of:

- an indoor unit (placed within the roof space)
- an outdoor unit

The air is circulated via ductwork. Inverter technology ensures uninterrupted comfort and savings in running costs.

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Ducted fixed speed reverse cycle

A popular choice for whole-of-home or office comfort.

The system consists of:

- an indoor unit (placed within the roof space)
- an outdoor unit

The air is circulated via ductwork. It enables to heat or cool up to four different zones.

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Multi system

Cool or heat multiple rooms individually from just one system, with a choice of indoor solutions to suit your needs:

- Wall-mounted inverter split systems
- Ducted unit (hidden above cupboard spaces or ceiling)
- Cassette (installed in the ceiling)

Suitable for residential and commercial settings.

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Add-on cooling systems

Ideal solution for whole-of-home comfort, complimenting your new or existing Braemar ducted gas heating system.

The system consists of:

- an indoor unit (placed within the roof space)
- an outdoor unit
- one controller for heating and cooling, with zoning option available

All add-on cooling options use the same ductwork and grilles as Braemar ducted gas heating.

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Warranty

Braemar reverse cycle air conditioners come with a comprehensive 5 year warranty. And, like all Braemar products, Braemar reverse cycle air conditioning systems are backed by Seeley International's renowned service and support.



With a network of experienced dealers and service agents throughout Australia, you can be confident that, when you're buying a Seeley-backed product, you're buying energy efficiency, excellence and reliability.

MEPS compliant

The Australian Minimum Energy Performance Standards (MEPS) ensures that all air conditioning systems (up to 65 kW) sold in Australia comply with the standard, to help reduce Australia's carbon emissions.



Committed to energy efficiency, all Braemar reverse cycle air conditioners meet the MEPS requirements.

Demand Response Enabling Device (DRED)*

With the introduction of smart power meters (PeakSmart in QLD), the electrical supply authority can limit the amount of power to your property at certain times during extreme weather conditions, when the power supply is at its peak demand.

In some states, the power supply authorities offer financial incentives to consumers who install DRED enabled air conditioning systems.

All of Braemar's latest inverter products now come with DRED as standard.

*Only available on specified models.



Another great benefit, is running cost savings during peak demand times, as during these times, our electricity charge is also at a peak.

So, why is this important? The aim is to reduce overall power consumption to the supply network at critical peak load times therefore reducing power outages to homes during these periods.

R410A refrigerant

All Braemar reverse cycle air conditioners use eco-friendly R410A refrigerant.

What is DC Inverter technology?

An “inverter” is a power conversion circuit that electronically regulates the voltage, current and frequency of products such as air conditioners. This circuit controls the compressor and, therefore, the air conditioner’s output. Raising the frequency increases the output, while lowering the frequency reduces it. In this way, inverter air conditioners provide much finer temperature control than conventional models can.

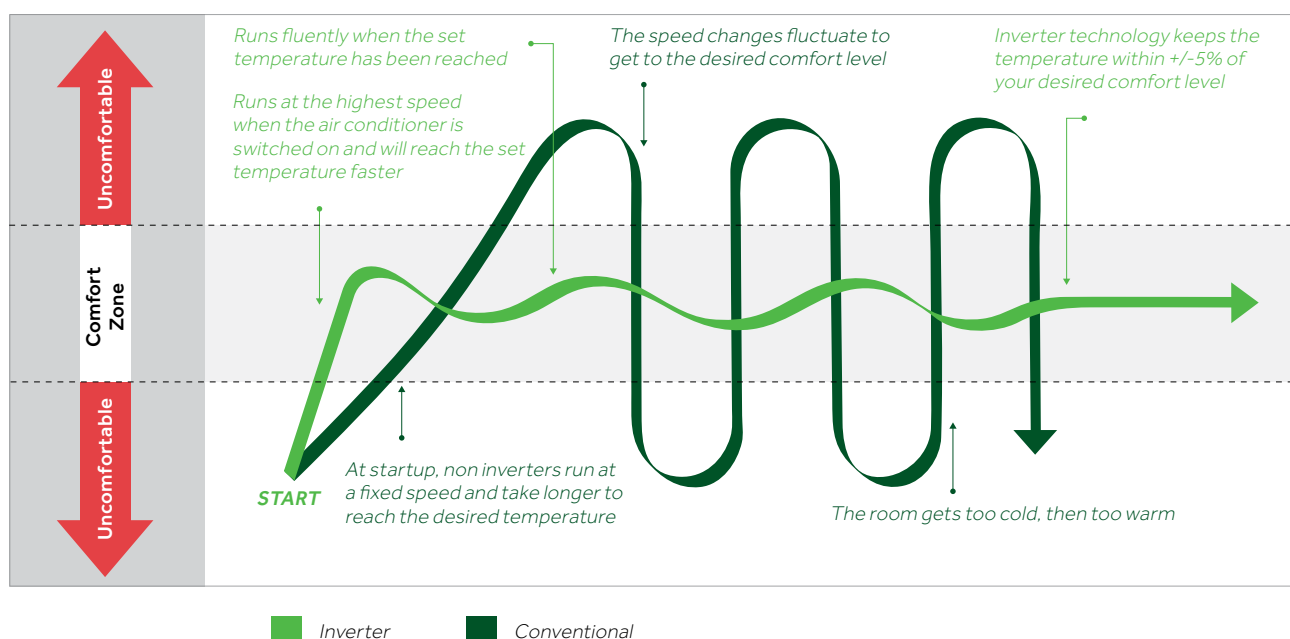
Braemar inverters provide a range of benefits over conventional start/stop systems:

- Significantly lower running costs compared with conventional systems
- Quickly and efficiently adjusts the room temperature to your set comfort zone
- Elimination of temperature fluctuations associated with traditional start/stop systems
- Greatly reduced system noise both inside and outside the home.

Inverter and conventional comparison:

Apart from its significantly reduced running costs, inverter technology has two distinct comfort advantages over conventional air conditioners:

1. Whether cooling or heating, it will reach the selected “Comfort Zone” more quickly as shown in the graph below.
2. It can then maintain operating temperatures within the “Comfort Zone” at all times, which conventional air conditioners are unable to do – also as seen in the graph below.

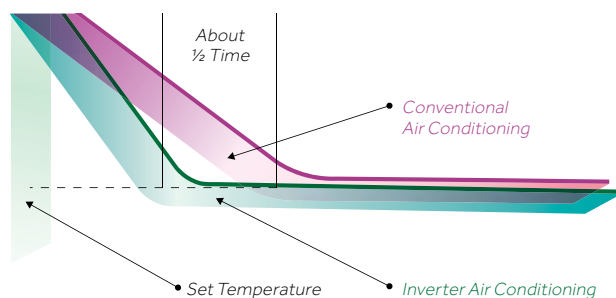


High efficiency compressor

Braemar inverters feature high efficiency DC compressors. The result is:

- Higher energy efficiencies than conventional compressors
- Wider operating ranges
- Less vibration, resulting in quieter operation.

Quick comfort



Greater energy savings

Inverter systems deliver substantial energy savings compared with conventional start/stop systems, under normal operating conditions. By optimising energy consumption, not only will energy be saved, but CO₂ emissions will also be reduced.

Greater comfort

When an inverter air conditioner is switched on, it supplies the exact power needed to heat or cool the room rapidly. This enables the air conditioner to reach the set temperature in around half the time required by conventional models.

Air conditioning noise levels inside and outside the home are dramatically reduced by Braemar inverter systems because they always seek the lowest operating level, while providing the maximum heating or cooling effect.

Why choose Braemar?

- Produced by a large global manufacturer – you can feel confident that your air conditioner will perform and is reliable
- DC Inverter technology – it provides more precise temperature control, but uses less energy
- R410A refrigerant – better for the environment
- Compact design
- Filter – Impurities are removed from the air before it is conditioned and redistributed, for cleaner and healthier air.



Wall-mounted inverter split system air conditioning

What is wall-mounted inverter split system air conditioning?

Wall-mounted inverter split system air conditioning is an ideal solution to cool or heat just one room or area of your home or office.



It consists of a wall-mounted indoor unit and an outdoor unit.

Braemar split systems utilise DC inverter technology, which means they automatically regulate the power applied to the compressor to provide more precise climate control, while using less energy.

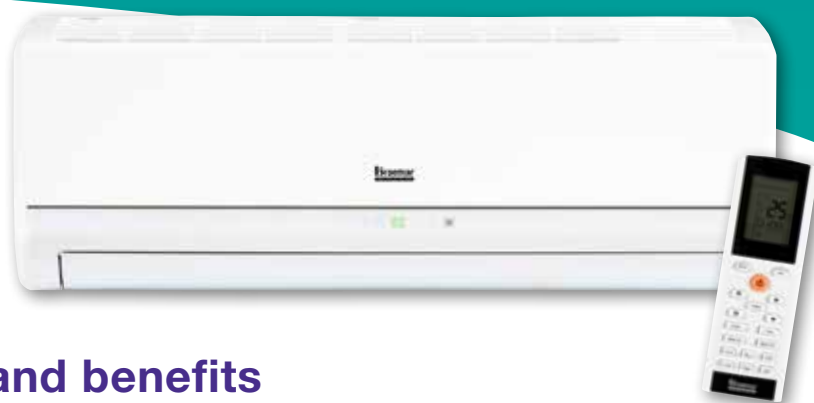
Braemar offers a wide range of inverter split system air conditioners to suit your home:

- Premium range includes 5 models, from 2.6 kW to 8.0 kW in cooling capacity. This range is more economical to run than the universal range using up to 9% less energy as well as offering up to 9% greater efficiency.
- Universal range includes 6 models, ranging from 2.6 kW to 8.0 kW in cooling capacity.

The sleek design of the indoor wall-mounted unit will complement the modern surroundings of your home or office.

The indoor unit also suits the multi split air conditioning system, thus delivering a consistent appearance through homes and offices when multi split system installations are mixed with single split systems.

Premium range



Indoor unit features and benefits



7 fan settings

Select the most comfortable setting for improved personal comfort.



'I Feel' wireless remote control

Control the room temperature at the position of the remote.



3D airflow, vertical and horizontal motorised louvers

For comfortably even temperature and air distribution.



1 watt standby power consumption*

Saves money in running costs by lowering energy consumption.

*Applicable for 5.3 kW, 7.0 kW, 8.0 kW models only.



Auto restart

Permits automatic return to previous operation conditions.



Quiet mode

Reduces fan speed to ensure air conditioner runs quietly.



Turbo mode

Achieves comfortable room temperature in the shortest possible time.



Consistent appearance

The indoor unit also suits the multi system installation.

Inverter controller features and benefits

Wall-mounted split system is easily managed from a user friendly remote control with an easy-to-read display, enabling you to set the right system control configuration to suit your needs.



5 modes

Auto, cool, dry, fan, heat.



7 fan settings

Auto, low, medium low, medium, medium high, high, turbo.



Sleep function

Adjusts temperature up or down a few degrees during the night to reduce energy usage and ensure optimal temperature while you sleep.



Quiet function

Reduces fan speed to ensure air conditioner runs quietly.



Turbo function

Ultra high fan speed to quickly cool your home.



Energy-saving function

Change the pre-set upper and lower temperatures. Perfect for apartments to reduce energy usage.



Timer

Delay the on/off of your air conditioner to save you money.



Error code display on fascia

Assists in fault identification and troubleshooting. Also displays when DRED is in operation.

Wall-mounted inverter split system air conditioning

Universal range



Indoor unit features and benefits



5 fan settings

Select the most comfortable setting for improved personal comfort.



'I Feel' wireless remote control

Control the room temperature at the position of the remote.



Motorised vertical louvers, up-down airflow

For comfortably even temperature and air distribution.



Auto restart

Permits automatic return to previous operation conditions.



Turbo mode

Achieves comfortable room temperature in the shortest possible time.



Consistent appearance

The indoor unit also suits the multi system installation.

Inverter controller features and benefits

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Auto, low, medium, high, turbo.



Sleep function

Adjusts temperature up or down a few degrees during the night to reduce energy usage and ensure optimal temperature while you sleep.



Turbo function

Ultra high fan speed to quickly cool your home.



Timer

Delay the on/off of your air conditioner to save you money.



Error code display on fascia

Assists in fault identification and troubleshooting. Also displays when DRED is in operation.



Premium and universal range

Outdoor unit features and benefits



DRED (RJ45 connector)

Saves power in peak usage times, refer to page 5 for more information.



Long pipe runs (up to 30m)

Allows more flexibility in placing an outdoor unit.



DC fan motor and DC compressor

Saves you money by reducing running costs.



Slim design

Allows more flexibility in placing an outdoor unit.



Single drain connection point

Allows faster installation.



Wide outdoor operating range*

From a freezing -15 °C through to a scorching 48 °C. You and your family will remain comfortable in extreme conditions.

*Model specific – refer to specifications table



Wall-mounted inverter split system air conditioning

Premium range specifications

Model No.	Indoor unit	MSHV25D1S	MSHV35D1S	MSHV53D1S	MSHV71D1S	MSHV80D1S
	Outdoor unit	SCHV25D1S	SCHV35D1S	SCHV53D1S	SCHV71D1S	SCHV80D1S
Capacity	Cooling (kW)	2.60 (0.70~3.10)	3.50 (1.00~4.00)	5.30 (1.00~6.50)	7.00 (1.20~8.00)	8.00 (1.20~8.80)
	Heating (kW)	3.00 (0.60~3.50)	4.00 (1.40~4.20)	5.80 (1.00~7.30)	7.40 (1.40~10.00)	8.40 (1.30~11.00)
Star rating	Cooling	3.0	3.0	2.0	2.0	2.0
	Heating	3.0	3.0	2.0	2.0	2.0
AEER / ACOP	W / W (tested)	3.96 / 3.84	3.80 / 3.86	3.28 / 3.30	3.25 / 3.27	3.37 / 3.38
EER / COP	W / W (rated)	3.88 / 3.90	3.85 / 3.88	3.49 / 3.49	3.24 / 3.25	3.35 / 3.35
Power supply	V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Power input	Cooling (kW)	0.67 (0.17~1.02)	0.91 (0.20~1.05)	1.52 (0.32~2.45)	2.16 (0.40~3.00)	2.39 (0.40~2.90)
	Heating (kW)	0.77 (0.16~1.10)	1.03 (0.33~1.15)	1.66 (0.32~2.50)	2.28 (0.42~3.50)	2.51 (0.42~4.20)
Current input (max.)	Cooling (A)	6	8	10.5	16	18
	Heating (A)	6	8	10.5	16	18
Indoor unit	Airflow volume @ 50 Pa (L/s)	64~153	78~181	133~264	167~333	217~333
	Sound pressure level (dB(A))	25~40	28~42	30~49	36~51	36~51
Outdoor unit	Dimensions (W × H × D), outline (mm)	806 x 292 x 209	866 x 292 x 209	1018 x 319 x 230	1178 x 326 x 264	1178 x 326 x 264
	Net / Gross weight (kg)	10.5 / 13.5	11.0 / 14.0	16.0 / 19.0	18.0 / 24.0	18.0 / 24.0
Refrigerant charge	Sound pressure level (dB(A))	50	52	56	58	58
	Dimensions (W × H × D) (mm)	776 x 540 x 320	842 x 596 x 320	955 x 700 x 396	955 x 700 x 396	980 x 790 x 427
Pipe	Net / Gross weight (kg)	28.5 / 31.5	34.0 / 37.0	50.0 / 53.0	55.0 / 61.0	69.0 / 75.0
	R410A (kg)	0.95	1.2	1.6	1.8	2.4
Electrical	Liquid size (mm)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas size (mm)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Set temperature range	Pre-charge length (m)	7.5	7.5	7.5	7.5	7.5
	Additional charge (g/m)	20	20	50	50	50
Ambient temperature range	Max distance height / length (m)	10 / 15	10 / 20	10 / 25	10 / 25	10 / 30
	Indoor to outdoor (mm ²) (includes comms)	1.0	1.0	1.0	1.0	1.0
	Power to indoor (mm ²)	From outdoor	From outdoor	From outdoor	From outdoor	From outdoor
	Power to outdoor (mm ²)	1.0	1.5	1.5	2.5	2.5
	Recommended fuse (amp)	10	16	16	25	25
	°C	16~30	16~30	16~30	16~30	16~30
	Cooling (°C)	18~48	18~48	18~43	18~43	18~43
	Heating (°C)	-15~24	-15~24	-15~24	-15~24	-15~24

Universal range specifications

Model No.	Indoor unit	BSHV25D1S	BSHV35D1S	BSHV50D1S	BSHV60D1S	BSHV70D1S	BSHV80D1S
	Outdoor unit	BCHV25D1S	BCHV35D1S	BCHV50D1S	BCHV60D1S	BCHV70D1S	BCHV80D1S
Capacity	Cooling (kW)	2.60 (0.80~3.70)	3.50 (0.90~3.90)	5.20 (0.65~6.00)	6.30 (0.70~7.00)	7.00 (1.40~8.70)	8.00 (1.40~8.70)
	Heating (kW)	2.80 (0.80~3.80)	3.85 (1.20~4.00)	5.85 (0.97~7.00)	6.30 (0.95~8.00)	7.50 (1.05~10.00)	8.40 (1.50~10.00)
Star rating	Cooling	3.0	2.5	1.5	1.5	1.5	1.5
	Heating	3.0	2.5	1.5	1.5	1.5	1.5
AEER / ACOP	W / W (tested)	3.94 / 3.81	5.05* / 4.50*	3.31* / 4.22*	3.28* / 3.36*	3.66* / 3.83*	3.70* / 3.96*
EER / COP	W / W (rated)	3.82 / 3.84	3.68 / 3.74	3.27 / 3.27	3.26 / 3.26	3.27 / 3.26	3.25 / 3.29
Power supply	V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Power input	Cooling (kW)	0.68 (0.16~1.10)	0.95 (0.30~1.10)	1.59 (0.31~2.10)	1.93 (0.31~2.25)	2.14 (0.47~3.60)	2.46 (0.47~3.60)
	Heating (kW)	0.73 (0.22~1.20)	1.03 (0.35~1.20)	1.79 (0.31~2.50)	1.93 (0.31~2.55)	2.30 (0.42~3.60)	2.55 (0.42~3.60)
Current input (max.)	Cooling (A)	8	9	12	12	16	16
	Heating (A)	8	9	12	12	16	16
Indoor unit	Airflow volume @ 50 Pa (L/s)	94~161	97~161	153~236	153~264	250~333	250~333
	Sound pressure level (dB(A))	31~40	33~42	35~46	39~51	40~51	40~51
	Dimensions (W x H x D), outline (mm)	845 x 275 x 180	845 x 275 x 180	940 x 298 x 200	1007 x 315 x 219	1178 x 326 x 253	1178 x 326 x 253
	Net / Gross weight (kg)	9.5 / 11.5	9.5 / 11.5	13.0 / 16.0	16.0 / 19.5	17.5 / 21.5	17.5 / 21.5
Outdoor unit	Sound pressure level (dB(A))	50	52	56	56	59	59
	Dimensions (W x H x D) (mm)	776 x 540 x 320	842 x 596 x 320	955 x 700 x 396	955 x 700 x 396	980 x 790 x 427	980 x 790 x 427
	Net / Gross weight (kg)	28.5 / 31.5	34.0 / 37.0	44.0 / 48.5	50.0 / 54.5	65.0 / 70.0	70.0 / 75.0
	R410A (kg)	0.87	1.20	1.20	1.90	1.80	2.40
Pipe	Liquid size (mm)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas size (mm)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Pre-charge length (m)	7.5	7.5	7.5	7.5	7.5	7.5
	Additional charge (g/m)	20	20	20	50	50	50
Electrical	Max distance height / length (m)	10 / 15	10 / 20	10 / 25	10 / 25	10 / 30	10 / 30
	Indoor to outdoor (mm²) (includes comms)	1.0	1.0	1.0	1.0	1.0	1.0
	Power to indoor (mm²)	From outdoor	From outdoor	From outdoor	From outdoor	From outdoor	From outdoor
	Power to outdoor (mm²)	1.0	1.5	1.5	1.5	2.5	2.5
Set temperature range	Recommended fuse (amp)	10	16	16	16	25	25
	°C	16~30	16~30	16~30	16~30	16~30	16~30
	Cooling (°C)	18~48	18~48	18~43	18~43	18~43	18~43
	Heating (°C)	-15~24	-15~24	-7~24	-7~24	-7~24	-7~24

*Part load AEER / ACOP used for MEPS compliance.

Ducted inverter reverse cycle air conditioning

What is ducted inverter reverse cycle air conditioning?

Ducted inverter reverse cycle air conditioning is an ideal solution for whole-of-home or office cooling or heating.

Ducted reverse cycle air conditioning consists of an indoor unit and an outdoor unit.

The indoor unit is placed within the roof space and is connected to a series of outlets within the house via ductwork. Depending on the climate function selected, warm or cool air is circulated to all rooms via vents in the ceiling.

Braemar ducted systems can be designed to operate in different zones which can be cooled or heated at different times, saving money on energy costs.

The inverter technology ensures an uninterrupted comfort and significant savings in running costs (see page 6 for more information).

Braemar's superior range of Minimum Energy Performance Standard (MEPS) compliant systems includes seven inverter models. The inverter range has five models from 7.0 kW to 16.0 kW single phase, and two 23.5 kW and 26.5 kW three phase models.



Smart controller features and benefits

Ducted inverter single phase



LCD backlit display
For visibility at night.



5 modes
Auto, cool, dry, fan, heat.



7 fan settings
Auto, low, medium low, medium, medium high, high, super high.



Sleep function
Adjusts temperature up or down a few degrees during the night. Reduces energy usage while you sleep.



Vacation function
Prevents the temperature dropping below 8°C while you are away on holidays.



Quiet function
Reduces fan speed to ensure air conditioner runs quietly.



Memory function (if a power failure occurs)
Automatically restarts and resumes the settings.



Turbo function
Ultra high fan speed to quickly cool your home.



Energy-saving function
Change the pre-set upper and lower temperatures. Perfect for apartments to reduce energy usage.



Blow function (in cooling mode)
Extends the time the fan continues to run after the cooling set point temperature is met.



Defrosting function
Auto function to ensure optimum heating even in the iciest environments.



Filter clean remind
Automatically reminds you when the filter needs cleaning.



Timer
Delay the on/off of your air conditioner to save you money.



Child lock
Children are unable to change settings.



Error code display
Assists in fault identification and troubleshooting. Also displays when DRED is in operation.



Read ambient outdoor temperature
Understand how well the unit is functioning.



Ducted inverter three phase



LCD display



5 modes
Auto, cool, dry, fan, heat.



4 fan settings
Auto, low, medium, high.



Quiet function (reduces fan speed)
Ensures air conditioner runs quietly.



Memory function (if a power failure occurs)
Automatically restarts and resumes the settings.



Filter clean remind
Automatically reminds you when the filter needs cleaning to save you money.



Timer
Delay the on/off of your air conditioner to save you money.



Child lock
Ensure controller is locked so that children are unable to change settings.



Ducted inverter reverse cycle air conditioning

Indoor unit features and benefits

Ducted inverter single phase



Built in drain pump and low profile design

Allows more flexibility in placing an indoor unit.



Wide ESP range, 0 – 200 Pa, 9 settings adjustable from wired controller, STD 50 Pa

The installer can tailor the airflow to your own home to ensure the most efficient and quiet operation.



2 core signal cable to outdoor unit (non polarity)

Allows quicker installation.



Outside air (fan or damper) control from indoor PCB*

Provides additional fresh air.



DC fan motor

Saves you money by reducing running costs.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.



Remote On/Off external connections*

Applications that require connection to a Building Management System (BMS), or require a room card.



Motion sensor input*

Saves money and energy by turning the system off while you are away.



MODBUS compatible

Allows operation with a wide range of home automation systems.

*Ideal for commercial applications

Outdoor unit features and benefits

Ducted inverter single phase



DRED (RJ45 connector)

Saves power in peak usage times, refer to page 5 for more information.



Long pipe runs (50 m)

Allows more flexibility in placing an outdoor unit.



Single drain connection

Allows faster installation.



DC fan motor and DC compressor

Saves you money by reducing running costs.



Slim design

Allows more flexibility in placing an outdoor unit.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.



Wide outdoor operating range

Cool: -15 °C to 48 °C,

Heat: -10 °C to 24 °C.

With system properly designed
- you and your family will remain comfortable in extreme conditions.



Ducted inverter reverse cycle air conditioning

Indoor unit features and benefits

Ducted inverter three phase



Low profile

Allows more flexibility in placing an indoor unit.



Wide ESP range, 0 – 200 Pa, 5 settings, STD 50 Pa

The installer can tailor the airflow to your own home to ensure most efficient and quiet operation.



3 core shielded signal cable to outdoor unit

Allows for quick installation.



Remote On / Off control*

Applications that require connection to a Building Management System (BMS), or require a room card.



DRED

Saves power in peak usage times, refer to page 5 for more information.



Alarm output

Ideal for commercial applications that require notification of equipment fault.



DC fan motor

Saves you money by reducing running costs.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.

*Ideal for commercial applications

Outdoor unit features and benefits

Ducted inverter three phase



Long pipe runs (50 m)

Allows more flexibility in placing an outdoor unit.



Single drain connection

Allows faster installation.



DC fan motor and DC compressor

Saves you money by reducing running costs.



Top fan discharge

Ideal for installation in tight spaces.



Slim design

Allows more flexibility in placing an outdoor unit.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.



Wide outdoor operating range

Cool: 15 °C to 48 °C,
Heat: -15 °C to 24 °C.

With system properly designed
- you and your family will remain comfortable in extreme conditions.



Ducted inverter reverse cycle air conditioning

Ducted inverter single phase specifications



Indoor unit



Outdoor unit

Model No.	Indoor unit	SDHV07D1S	SDHV10D1S	SDHV12D1S	SDHV14D1S	SDHV16D1S	
	Outdoor unit	SCHV07D1S	SCHV10D1S	SCHV12D1S	SCHV14D1S	SCHV16D1S	
Capacity	Cooling (kW)	7.0 (2.40~9.50)	10.0 (3.20~11.00)	12.0 (4.00~13.50)	13.7 (6.00~14.50)	16.0 (6.40~17.00)	
	Heating (kW)	8.0 (2.40~10.00)	12.0 (2.90~13.00)	13.8 (4.00~15.00)	16.0 (5.20~17.00)	18.0 (5.30~19.50)	
AEER / ACOP	W / W (tested)	3.11 / 3.45	3.23 / 3.53	3.21 / 3.34	3.24 / 3.34	3.16 / 3.66	
EER / COP	W / W (rated)	3.21 / 3.51	3.23 / 3.64	3.24 / 3.45	3.22 / 3.33	3.20 / 3.60	
Power supply	Indoor & outdoor (V / Ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	
Power input	Cooling (kW)	2.18 (0.85~2.50)	3.10 (0.70~4.50)	3.70 (0.65~4.70)	4.25 (1.40~5.6)	5.00 (1.20~6.9)	
	Heating (kW)	2.28 (0.80~2.75)	3.30 (0.70~4.60)	4.00 (1.30~5.50)	4.80 (1.30~5.5)	5.00 (1.20~6.90)	
Current input (max.)	Cooling / heating indoor (A)	1	1	1	2	2	
	Cooling / heating outdoor (A)	16	19	21	28	31	
Indoor unit	Rated airflow @ 50 Pa (L/s)	417	556	611	694	861	
	Range (9 settings) Pa	0-200	0-200	0-200	0-200	0-200	
	Rated speed (min/max)	S09 (S05 to S13)	S09 (S05 to S13)	S09 (S05 to S13)	S09 (S05 to S13)	S09 (S05 to S13)	
	Duct flange S/A (mm)	820 x 160	850 x 190	850 x 190	850 x 190	990 x 190	
	Duct flange R/A (mm)	980 x 230	950 x 315	950 x 315	950 x 315	1150 x 345	
	Sound pressure level (dB(A))	40~47	42~50	43~52	46~54	47~55	
	Dimensions (W × H × D), outline (mm)	1220 × 290 × 790	1340 × 350 × 750	1340 × 350 × 750	1340 × 350 × 750	1497 × 389 × 799	
	Net / Gross weight (kg)	47 / 55	56 / 68	59 / 70	59 / 71	79 / 103	
	Outdoor unit	Sound pressure level (dB(A))	56	60	60	61	61
	Dimensions (W × H × D) (mm)	980 × 790 × 427	1107 × 1100 × 440	1107 × 1100 × 440	1085 × 1365 × 427	1085 × 1365 × 427	
Refrigerant charge	Net / Gross weight (kg)	69 / 74	91 / 100	101 / 111	117 / 128	121 / 133	
	R410A (kg)	2.2	3.5	3.9	4.0	5.5	
Pipe	Liquid size (mm)	9.53 (3/8)	9.53 (3/8)	9.53 (3/8)	9.53 (3/8)	9.53 (3/8)	
	Gas size (mm)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	
	Pre-charge length (m)	7.0	7.0	7.0	9.5	9.5	
	Additional charge (g/m)	60	60	60	60	60	
	Max. distance height / length (m)	15 / 50	15 / 50	30 / 50	30 / 50	30 / 50	
	Electrical	Indoor to outdoor (mm²)	2 x 0.75 non shielded (H05RN-F)	2 x 0.75 non shielded (H05RN-F)	2 x 0.75 non shielded (H05RN-F)	2 x 0.75 non shielded (H05RN-F)	2 x 0.75 non shielded (H05RN-F)
	Power to indoor (mm²)	3 x 1.0 (H05RN-F)	3 x 1.0 (H05RN-F)	3 x 1.0 (H05RN-F)	3 x 1.0 (H05RN-F)	3 x 1.0 (H05RN-F)	
	Power to outdoor (mm²)	3 x 2.5 (H07RN-F)	3 x 4.0 (H07RN-F)	3 x 4.0 (H07RN-F)	3 x 6.0 (H07RN-F)	3 x 6.0 (H07RN-F)	
	Recommended fuse (amp) - indoor	6	6	6	6	6	
	Recommended fuse (amp) - outdoor	20	25	25	40	40	
	Set temperature range	°C	16~30	16~30	16~30	16~30	16~30
	Ambient temperature range	Cooling (°C)	-15~48	-15~48	-15~48	-15~48	-15~48
Heating (°C)		-10~24	-10~24	-10~24	-10~24	-10~24	

Ducted inverter three phase specifications



Indoor unit



Outdoor unit

Model No.	Indoor unit	SDHV22B1S	SDHV26B1S
	Outdoor unit	SCHV22B3S	SCHV26B3S
Capacity	Cooling (kW)	23.5 (8.86~26.60)	26.5 (10.00~30.00)
	Heating (kW)	25.5 (12.31~28.30)	26.5 (13.00~30.00)
AEER / ACOP	W / W (tested)	3.23 / 3.29	3.11 / 3.29
EER / COP	W / W (rated)	3.36 / 3.38	3.23 / 3.31
Power supply	Indoor (V / Ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50
	Outdoor (V / Ph / Hz)	380-415 / 1 / 50	380-415 / 1 / 50
Power input	Cooling (kW)	7.00 (2.05~8.57)	8.20 (2.40~9.80)
	Heating (kW)	7.55 (3.20~9.24)	8.00 (3.40~9.80)
Current input (max.)	Cooling / heating indoor (A)	4.5	4.5
	Cooling / heating outdoor (A)	16	16
Indoor unit	Rated airflow @ 50 Pa (L/s)	1389	1389
	Range (9 settings) Pa	0-200	0-200
	Rated speed (min/max)	5 Settings	5 Settings
	Duct flange S/A (mm)	800 x 200	800 x 200
	Duct flange R/A (mm)	1145 x 395	1145 x 395
	Sound pressure level (dB(A))	56	56
	Dimensions (W x H x D), outline (mm)	1470 x 510 x 795	1470 x 510 x 795
	Net / Gross weight (kg)	83 / 92	83 / 92
Outdoor unit	Sound pressure level (dB(A))	66	66
	Dimensions (W x H x D) (mm)	948 x 1585 x 968	948 x 1585 x 968
	Net / Gross weight (kg)	231 / 256	231 / 256
Refrigerant charge	R410A (kg)	10	10
Pipe	Liquid size (mm)	12.70 (1/2)	12.70 (1/2)
	Gas size (mm)	28.60 (1,1/8)	28.60 (1,1/8)
	Pre-charge length (m)	5	5
	Additional charge (g/m)	120	120
	Max distance height / length (m)	30 / 50	30 / 50
Electrical	Indoor to outdoor (mm²)	3 x 0.75 Shielded (H05RN-F)	3 x 0.75 Shielded (H05RN-F)
	Power to indoor (mm²)	3 x 2.5 (H07RN-F)	3 x 2.5 (H07RN-F)
	Power to outdoor (mm²)	5 x 6.0 (H07RN-F)	5 x 6.0 (H07RN-F)
	Recommended fuse (amp) - indoor	16	16
	Recommended fuse (amp) - outdoor	40	40
Set temperature range	°C	17~30	17~30
Ambient temperature range	Cooling (°C)	15~48	15~48
	Heating (°C)	-15~24	-15~24

Ducted fixed speed reverse cycle air conditioning

What is fixed speed reverse cycle air conditioning?

Braemar's fixed speed reverse cycle air conditioning is a popular choice for whole-of-home or office comfort, with a fixed amount of cooling or heating provided to selected zones.

The system consists of an indoor unit and an outdoor unit. The indoor unit is placed within the roof space and the air is circulated to all rooms with a duct outlet in the ceiling.

Braemar's fixed speed reverse cycle air conditioning allows you to cool or heat your whole home, or just areas you are currently using, via your zoned touch control.

The fixed speed range is compliant with Minimum Energy Performance Standard (MEPS) and features 8 models, ranging from 9.1 kW to 15.0 kW single phase, and 15.0 kW to 24.9 kW three phase.

Controller features and benefits



Manual and time-programmable zone
On/off control with two, five and seven day timer options.



User-friendly wall touch pad with backlit display



All-damper-off protection



Low, medium, high and auto fan settings



Automatic changeover from cooling to heating (and vice versa).



Advanced controller features

Providing you with total control over the comfort level in each zone in your home, Braemar ducted reverse cycle air conditioners come standard with a four zone controller.

Braemar's advanced zoning functionality enables you to choose which zones of your home you

wish to heat or cool at any time, thus increasing the overall efficiency of your system.

By running your Braemar air conditioning system only in the zones you are using, you'll eliminate wasteful cooling to unused areas, saving on running costs.

Indoor unit features and benefits



Five speed fan motor*

Greater flexibility of airflow volume.



"Ultra-Smart" control system

Easy to use wired 7 day programmable control comes with 4-zone functionality, as **standard**.



Long-life cabinet

Made of high quality, powder-coated sheet steel and closed cell insulation – providing thermal protection and lowering noise.



Superior drain tray

Designed to collect and dispose of condensation safely and efficiently. The tray is powder-coated with epoxy paint and insulated with 10 mm thick closed cell insulation.



Evaporator coils

Made of high quality copper tubes and coated hydrophilic aluminium louvre fins for greater cooling efficiency.



Slim design

At 440 mm high, the indoor unit is compact and suitable for installation in almost all roof cavities.



Quick and easy servicing

Three-way access to the blower and fan assembly from above, in front, or below the unit.



* 3 speeds selectable at wall control

Ducted fixed speed reverse cycle air conditioning

Outdoor unit features and benefits



Long-life cabinet

Made of high quality galvanised steel for long life and extra strength and electrostatically powder-coated and oven-baked with high quality epoxy paint for added protection.



Three speed fan motor

Computer-controlled to automatically reduce the fan speed when the ambient temperature lowers, reducing operating noise at night and providing greater fan control and comfort to suit your zoning requirements.



Wide outdoor operating range

Cool: 15 °C to 43 °C,
Heat: -10 °C to 24 °C.
With system properly designed
- you and your family will remain
comfortable in extreme conditions.



Corrosion protection

Pre-coated hydrophilic aluminium fins provide resistance against corrosion from sea salts and chemical vapours.



Long pipe runs

Up to 50 m (additional refrigerant will be required).



Ducted fixed speed specifications

Model No.	Indoor unit	Single phase				Three phase			
		SDHF09C1S	SDHF11C1S	SDHF15C1S	SDHF15C1S	SDHF15C3S	SDHF18C3S	SDHF21C3S	SDHF25C3S
Capacity	Outdoor unit	SCHF09C1S	SCHF11C1S	SCHF13C1S	SCHF15C1S	SCHF15C3S	SCHF18C3S	SCHF21C3S	SCHF25C3S
	Cooling (kW)*	9.10	11.00	13.40	15.00	15.00	18.60	21.00	24.99
AEER / ACOP	Heating (kW)**	8.80	11.20	13.40	14.90	14.60	18.40	21.00	24.70
	W / W (tested)	3.13 / 3.19	3.16 / 3.58	3.14 / 3.56	3.11 / 3.44	3.11 / 3.64	3.12 / 3.53	3.12 / 3.32	3.10 / 3.28
EER / COP	W / W (rated)	3.14 / 3.20	3.17 / 3.59	3.15 / 3.57	3.11 / 3.45	3.11 / 3.65	3.13 / 3.54	3.12 / 3.32	3.10 / 3.29
Power supply	Indoor (V / Ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
	Outdoor (V / Ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Power input	Cooling (kW)	2.90	3.47	4.26	4.82	4.82	5.95	6.73	8.05
	Heating (kW)	2.75	3.12	3.75	4.32	4.00	5.20	6.32	7.51
Current input (max.)	Cooling / heating indoor (A)	12.60	15.20	20.50	22.50	7.65	9.25	12.60	15.00
	Cooling / heating outdoor (A)	12.00	13.90	18.40	21.00	6.45	8.30	10.15	14.30
Indoor unit	Rated airflow @ 50 Pa (l/s)	450~660	535~760	815~930	815~930	815~930	750~1040	840~1230	1020~1500
	External static pressure (min-max) Pa	25 - 120	25 - 150	25 - 150	25 - 150	25 - 150	25 - 150	25 - 150	25 - 150
	Duct flange S/A (mm)	1080 x 224	1300 x 284	1300 x 284	1300 x 284	1300 x 284	1300 x 364	1550 x 364	1750 x 364
	Duct flange R/A (mm)	1080 x 224	1300 x 284	1300 x 284	1300 x 284	1300 x 284	1300 x 364	1550 x 364	1750 x 364
	Sound pressure level (dB(A))	44~48	44~48	47~51	47~51	47~51	47~51	44~54	46~56
	Sound pressure level at 1 m (dB(A))	49~59	51~60	55~61	55~61	55~61	55~61	51~67	49~65
	Dimensions (W x H x D), outline (mm)	1180 x 300 x 600	1400 x 360 x 660	1400 x 360 x 660	1400 x 360 x 660	1400 x 360 x 660	1400 x 440 x 850	1650 x 440 x 810	1850 x 440 x 810
	Net / Gross weight (kg)	45 / 50	62 / 68	73 / 79	73 / 79	73 / 79	80 / 88	88 / 106	98 / 118
	Outdoor unit	Dimensions (W x H x D) (mm)	1008 x 760 x 390	970 x 965 x 390	970 x 1320 x 390	970 x 1320 x 390	970 x 1470 x 390	1150 x 1552 x 490	1150 x 1552 x 490
	Net / Gross weight (kg)	80 / 84	90 / 94	102 / 107	106 / 111	106 / 111	130 / 135	148 / 153	172 / 177
Refrigerant charge	R410A (kg)	3.35	3.75	4.65	5.55	4.85	5.95	7.95	9.45
	Pipe	Liquid size (mm)	9.50	9.50	12.70	12.70	12.70	12.70	12.70
Electrical	Gas size (mm)	15.88	15.88	19.05	19.05	19.05	19.05	22.20	28.60
	Pre-charge length (m)	12	12	12	12	12	12	12	12
	Additional charge (g/m)	50	50	100	100	100	100	100	100
	Max distance height / length (m)	30	30	30	30	30	30	50	50
	Indoor to outdoor (mm²)	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8	3 x 2.5mm & Fig 8
Set temperature range	Power to indoor (mm²) (from outdoor)	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm	3 x 2.5mm
	Power to outdoor (mm²)	4.0	4.0	4.0	4.0	2.5	2.5	4.0	4.0
	Recommended fuse (amp)	25	30	30	30	25	25	30	30
	°C	18~30	18~30	18~30	18~30	18~30	18~30	18~30	18~30
Ambient temperature range	Cooling °C	15~43	15~43	15~43	15~43	15~43	15~43	15~43	15~43
	Heating °C	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24

* Cooling capacity and electric characteristics based on 27°C DB, 19°C WB indoor temp. and 35°C outdoor temp. at medium speed, Power Supply 240V/1PH/50Hz, Refrigerant pipe length 7.5 m.

** Heating capacity and electric characteristics based on 20°C DB indoor temp. and 7°C DB, 6°C WB outdoor temp. at medium speed, Power Supply 240V/1PH/50Hz, Refrigerant pipe length 7.5 m.

Multi system air conditioning

What is multi system air conditioning?

Multi system air conditioning enables you to connect up to five indoor units to a single outdoor unit, therefore offering you a number of options to select from to match each room's cooling or heating requirements individually. This will help you save running costs by heating or cooling rooms as required, with setting different temperatures in each room as required.

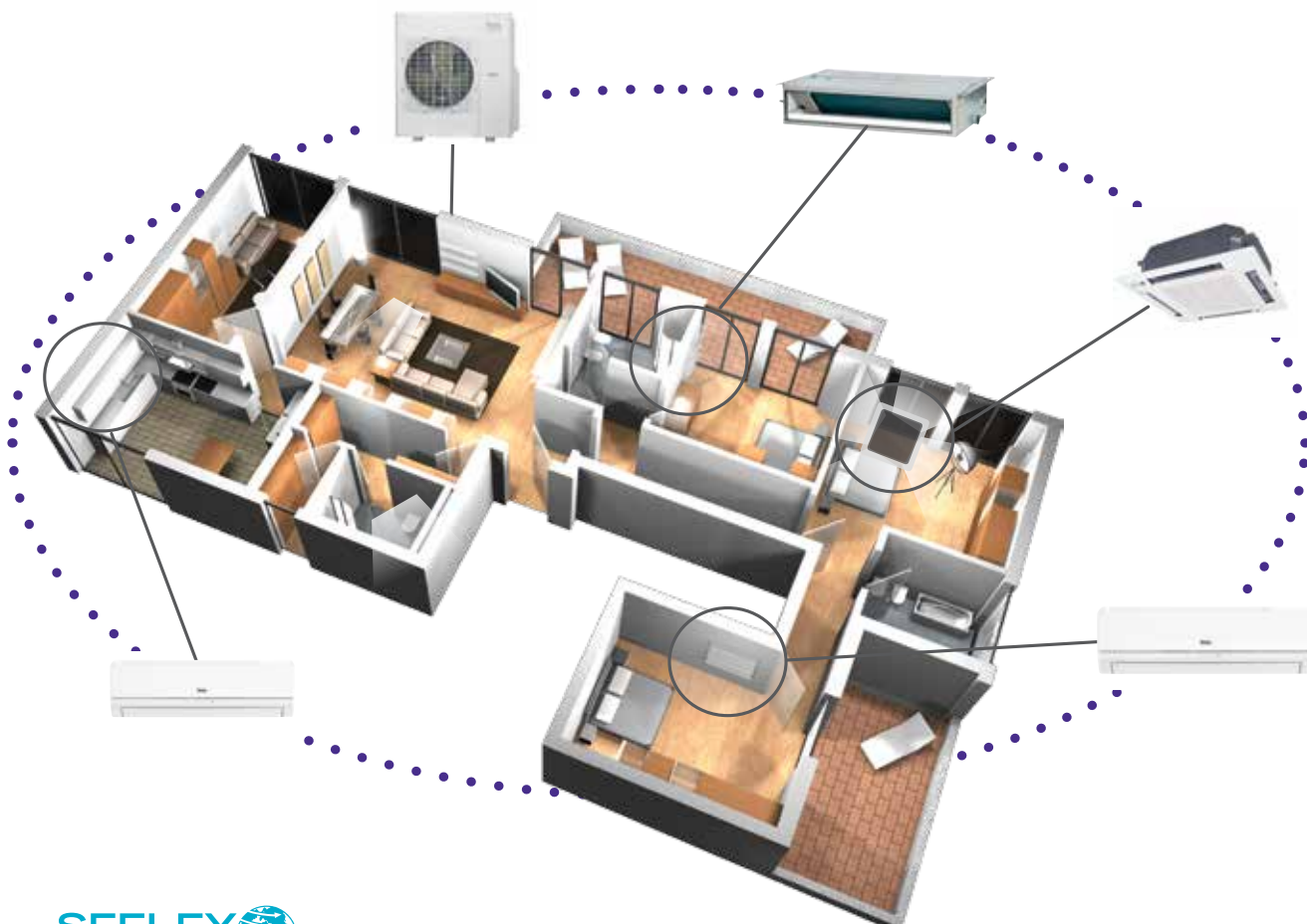
Braemar offers a range of indoor units to suit your individual needs – wall-mounted split systems, ceiling mounted cassettes and ducted concealed ceiling units and can be used in both residential and commercial settings.

Braemar offers a wide range of inverter split system air conditioners to suit your home:

- Universal range includes 6 models, ranging from 2.6 kW to 8.0 kW in cooling capacity.
- Premium range includes 5 models, from 2.6 kW to 8.0 kW in cooling capacity.

Ceiling mounted cassettes are available in 3 sizes, ranging from 3.5 kW to 7.1 kW and are ideal for open plan applications.

Ducted concealed ceiling units are available in 5 different sizes, ranging from 2.5 kW to 7.1 kW. These are hidden in the ceiling or in a space above the cupboard and are a discreet solution for any living or working space.



Smart controller features and benefits

Wall-mounted inverter split system controller (premium range)



5 modes

Auto, cool, dry, fan, heat.



7 fan settings

Auto, low, medium low, medium, medium high, high, turbo.



Sleep function

Adjusts temperature up or down a few degrees during the night to reduce energy usage and ensure optimal temperature while you sleep.



Quiet function

Reduces fan speed to ensure air conditioner runs quietly.



Turbo function

Ultra high fan speed to quickly cool your home.



Energy-saving function

Change the pre-set upper and lower temperatures. Perfect for apartments to reduce energy usage.



Timer

Delay the on/off of your air conditioner to save you money.



Error code display on fascia

Assists in fault identification and troubleshooting. Also displays when DRED is in operation.



Wired controller cassette and ducted ceiling unit



LCD backlit display

For visibility at night.



5 modes

Auto, cool, dry, fan, heat.



4 fan settings

Auto, low, medium, high.



Sleep function

Adjusts temperature up or down a few degrees during the night. Reduces energy usage while you sleep.



Quiet function

Reduces fan speed to ensure air conditioner runs quietly.



Memory function (if a power failure occurs)

Automatically restarts and resumes the settings.



Turbo function

Ultra high fan speed to quickly cool your home.



Energy-saving function

Change the pre-set upper and lower temperatures. Perfect for apartments to reduce energy usage.



Blow function (in cooling mode)

Extend the time the fan continues to run after the cooling set point temperature is met.



Defrosting function

Auto function to ensure optimum heating even in the iciest environments.



Timer

Delay the on/off of your air conditioner to save you money.



Error code display

Assists in fault identification and troubleshooting. Also displays when DRED is in operation.



Multi system air conditioning

Wall-mounted inverter split system features and benefits



Multiple fan settings

Select the most comfortable setting for improved personal comfort.



'I Feel' wireless remote control

Control the room temperature at the position of the remote.



Motorised louvers

For comfortably even temperature and air distribution.



1 watt standby power consumption*

Saves money in running costs by lowering energy consumption.



Auto restart

Permits automatic return to previous operation conditions.



Quiet mode*

Reduces fan speed to ensure air conditioner runs quietly.



Turbo mode

Achieves comfortable room temperature in the shortest possible time.



Consistent appearance

Allows for a mix of multi and single split system installation.

*Premium range only.

Ceiling mounted cassette features and benefits



Airflow distributed from the ceiling and adjustable air velocities

Ensures better room airflow distribution and fewer draughts.



Light weight fan

Reduced unit weight and improved efficiency. Allows more flexibility in placing the unit.



Stain resistant and easily able decoration panel coating

For easy maintenance.



4 user selectable fan settings

(A, H, M and L) Select the most comfortable setting for improved personal comfort.



Built-in condensate pump

Allows for more options for installation.

Ducted concealed ceiling unit features and benefits



ESP range, 0 – 15 Pa, 4 settings

The installer can tailor the airflow to ensure most efficient and quiet operation.



User selectable fan settings and screw connect electrical terminals

Allows to select the most desirable setting and ensures that electrical connection is reliable for improved personal comfort.



Low profile design and service access from below

Allows more flexibility in placing the unit.



Built-in condensate pump

Allows for more options for installation.



DC fan motor

Saves you money by reducing running costs.

Wireless controller

Available as an option, to be used in conjunction with the wired wall controller.



Multi system air conditioning

Outdoor unit features and benefits



DRED (RJ45 connector)

Saves power in peak usage times, refer to page 5 for more information.



Long pipe runs (up to 75 m)

Allows more flexibility in placing an outdoor unit.



DC fan motor and compressor

Saves you money by reducing running costs.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.



Slim design

Allows more flexibility in placing an outdoor unit.



Single drain connection point

Allows faster installation.



Wide outdoor operating range*

Cool :-7 °C to 48 °C, Heat: -15 °C to 30 °C.
With system properly designed - you and your family will remain comfortable in extreme conditions.

*Model specific – refer to specifications table.





Multi system air conditioning

Wall-mounted split system unit specifications

Premium range

Model No.	Indoor unit	MSHV25D1S	MSHV35D1S	MSHV53D1S	MSHV71D1S	MSHV80D1S
Capacity	Cooling (kW)	2.60	3.50	5.30	7.00	8.00
	Heating (kW)	3.00	4.00	5.80	7.40	8.40
Airflow	L/s	153	181	264	333	333
Sound pressure level	dB(A)	25~40	28~42	30~49	36~51	36~51
Dehumidify volume	L/h	0.80	1.40	1.80	2.40	2.70
Dimensions	W x H x D (mm)	806 x 292 x 209	866 x 292 x 209	1018 x 319 x 230	1178 x 326 x 264	1178 x 326 x 264
Weight	Net / Gross (kg)	10.5 / 13.5	11 / 14	16 / 19	18 / 24	18 / 24
Connection pipe	Liquid (mm)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Vapour mm (inches)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Set temperature range	°C	16~30	16~30	16~30	16~30	16~30

Universal range

Model No.	Indoor unit	BSHV25D1S	BSHV35D1S	BSHV50D1S	BSHV60D1S	BSHV70D1S	BSHV80D1S
Capacity	Cooling (kW)	2.60	3.50	5.20	6.30	7.00	8.00
	Heating (kW)	2.80	3.85	5.85	6.30	7.50	8.40
Airflow	L/s	94~161	97~161	153~236	153~264	250~333	250~333
Sound pressure level	dB(A)	31~40	33~42	35~46	39~51	40~51	40~51
Dehumidify volume	L/h	0.80	1.40	1.80	2.50	2.50	2.70
Dimensions	W x H x D (mm)	845 x 180 x 275	845 x 180 x 275	940 x 200 x 298	1007 x 219 x 315	1178 x 253 x 326	1178 x 253 x 326
Weight	Net / Gross (kg)	9.5 / 11.5	9.5 / 11.5	13 / 16	16 / 19.5	17.5 / 21.5	17.5 / 21.5
Connection pipe	Liquid (mm)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Vapour mm (inches)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Set temperature range	°C	16~30	16~30	16~30	16~30	16~30	16~30

Cassette unit specifications

Model No.	Indoor unit	MBHV35D1S	MBHV45D1S	MBHV71D1S
Capacity	Cooling (kW)	3.50	4.50	7.10
	Heating (kW)	4.00	5.00	8.00
Airflow	L/s	167	167	328
Sound pressure level	dB(A)	42~46	42~46	33~39
Dehumidify volume	L/h	1.40	1.80	1.80
Dimensions	W x H x D (mm)	570 x 260 x 570	570 x 260 x 570	840 x 260 x 840
Panel	W x H x D (mm)	650 x 60 x 650	650 x 60 x 650	950 x 60 x 950
Weight	Net / Gross (kg)	18 / 23	18 / 23	28 / 35
Connection pipe	Liquid mm (inches)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Vapour mm (inches)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)
Set temperature range	°C	16~30	16~30	16~30

Bulkhead ducted unit specifications

Model No.	Indoor unit	MDHV25D1S	MDHV35D1S	MDHV50D1S	MDHV60D1S	MDHV70D1S
Capacity	Cooling (kW)	2.50	3.50	5.00	6.00	7.10
	Heating (kW)	2.80	3.85	5.50	6.60	8.00
Airflow	L/s	125	153	194	278	278
Sound pressure level	dB(A)	31~37	32~39	33~41	34~42	34~42
Dehumidify volume	L/h	0.80	1.40	1.80	2.00	2.50
Dimensions	W x H x D (mm)	700 x 200 x 615	700 x 200 x 615	900 x 200 x 615	1100 x 200 x 615	1100 x 200 x 615
Weight	Net / Gross (kg)	22 / 27	23 / 29	27 / 36	31 / 41	31 / 41
Connection pipe	Liquid (mm)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
	Vapour mm (inches)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)
Set temperature range	°C	16~30	16~30	16~30	16~30	16~30

Multi system air conditioning

Inverter outdoor unit combination specifications

Model No.	Outdoor unit	MCHV54D12	MCHV73D13	MCH81D14	MCHV10D14	MCHV11D15
Capacity	Cooling (kW)	5.40 (2.85 - 6.50)	7.30 (4.50 - 10.00)	8.15 (5.00 - 10.00)	10.00 (2.60 - 10.50)	11.40 (2.60 - 12.00)
	Heating (kW)	5.50 (2.40 - 6.65)	8.80 (4.00 - 11.00)	9.30 (3.00 - 11.00)	11.20 (2.60 - 12.00)	12.00 (2.60 - 13.00)
Maximum indoor connect ability (cool)	kW	7.20	9.80	11.00	13.50	15.10
AEER / ACOP	W/W (tested)	3.66 / 3.83	3.33 / 3.62	3.42 / 3.55	3.49 / 3.88	3.19 / 3.78
EER / COP	W/W (rated)	3.53 / 3.59	3.49 / 3.52	3.54 / 3.66	3.33 / 3.61	3.26 / 3.69
Power supply	V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Power input	Cooling (kW)	1.53	2.18	2.43	3.00	3.50
	Heating (kW)	1.53	2.50	2.54	3.10	3.25
Current input (max.)	Cooling (A)	6.7	9.5	10.6	13.0	15.2
	Heating (A)	6.7	10.9	11.0	13.5	14.1
Maximum drive IDU No.	Unit	2	3	4	4	5
Sound pressure level	dB(A)	56	58	58	61	61
Dimensions	W x H x D (mm)	963 x 700 x 396	1001 x 790 x 427	1001 x 790 x 427	1098 x 1106 x 440	1098 x 1106 x 440
Weight	Net / Gross (kg)	47.0 / 51.5	59.0 / 64.0	65.0 / 70.0	89.0 / 98.0	90.0 / 98.0
Refrigerant charge	(R410A) kg	1.6	2.2	2.3	3.65	3.65
Pipe	Pre-charge length (m)	10	30	40	40	40
	Additional charge (g/m)	20	20	20	20 - 50	20 - 50
Max. pipe length	Indoor to outdoor (m)	10	20	20	25	25
	Sum of all indoors (m)	20	60	70	75	75
Max. vertical separation	Field connections mm (inch)	2 x 6.35 (1/4) 2 x 9.52 (3/8)	3 x 6.35 (1/4) 3 x 9.52 (3/8)	4 x 6.35 (1/4) 4 x 9.52 (3/8)	4 x 6.35 (1/4) 4 x 9.52 (3/8)	5 x 6.35 (1/4) 5 x 9.52 (3/8)
	Indoor to indoor (m)	5	5	5	7.5	7.5
Electrical	Indoor above or below outdoor (m)	5	5	5	15	15
	Maximum current (amp)	12	21	21	30	30
Ambient temperature range	Recommended fuse (amp)	16	25	25	32	32
	Cooling °C	-15 ~ 43	-15 ~ 43	-15 ~ 43	-7 ~ 48	-7 ~ 48
	Heating °C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 30	-15 ~ 30

Combination specifications

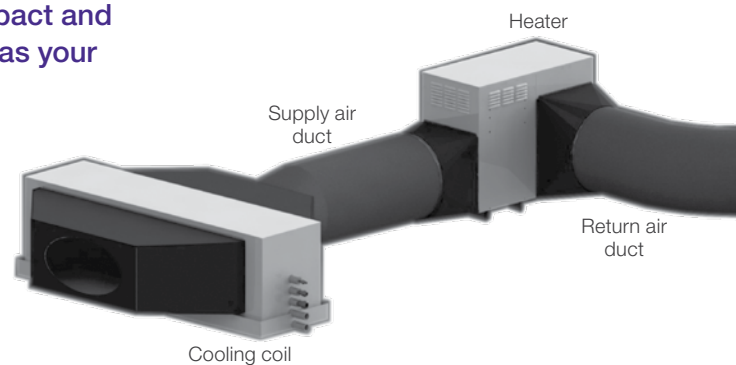
MCHV54D12	2 unit combination				
	25 + 25				
	25 + 35				
	35 + 35				
MCHV73D13	2 unit combination		3 unit combination		
	25 + 25		25 + 25 + 25		
	25 + 35		25 + 25 + 35		
	35 + 35		25 + 35 + 35		
	25 + 53				
	25 + 60				
	35 + 53				
	35 + 60				
MCHV81D14	2 unit combination		3 unit combination	4 unit combination	
	25 + 25		25 + 25 + 25	25 + 25 + 25 + 25	
	25 + 35		25 + 25 + 35		
	35 + 35		25 + 35 + 35		
	25 + 53		35 + 35 + 35		
	35 + 53		25 + 25 + 53		
	53 + 53				
	25 + 60				
	25 + 70				
	25 + 80				
	35 + 60				
	35 + 70				
	MCHV10D14	2 unit combination		3 unit combination	4 unit combination
		25 + 25		25 + 25 + 25	25 + 25 + 25 + 25
35 + 35		25 + 25 + 35	25 + 25 + 25 + 35		
53 + 53		25 + 25 + 53	25 + 25 + 25 + 53		
60 + 60		25 + 25 + 60	25 + 25 + 35 + 35		
25 + 35		25 + 25 + 70			
25 + 53		25 + 25 + 80			
25 + 60		25 + 35 + 35			
25 + 70		25 + 35 + 53			
25 + 80		25 + 35 + 60			
35 + 53		25 + 35 + 70			
35 + 60		35 + 35 + 35			
35 + 70		35 + 35 + 53			
35 + 80		35 + 35 + 60			
53 + 60					
53 + 70					
53 + 80					
		60 + 70			
MCHV11D15	2 unit combination		3 unit combination	4 unit combination	5 unit combination
	25 + 25		25 + 25 + 25	25 + 25 + 25 + 25	25 + 25 + 25 + 25 + 25
	35 + 35		35 + 35 + 35	35 + 35 + 35 + 35	25 + 25 + 25 + 25 + 35
	53 + 53		25 + 25 + 35	25 + 25 + 25 + 35	25 + 25 + 25 + 35 + 35
	60 + 60		25 + 25 + 53	25 + 25 + 25 + 53	
	70 + 70		25 + 25 + 60	25 + 25 + 25 + 60	
	25 + 35		25 + 25 + 70	25 + 25 + 25 + 70	
	25 + 53		25 + 25 + 80	25 + 25 + 35 + 35	
	25 + 60		35 + 35 + 53	25 + 25 + 35 + 53	
	25 + 70		35 + 35 + 60	25 + 25 + 35 + 60	
	25 + 80		35 + 35 + 70	25 + 35 + 35 + 35	
	35 + 53		35 + 35 + 80	25 + 35 + 35 + 53	
	35 + 60		25 + 35 + 53		
	35 + 70		25 + 35 + 60		
	35 + 80		25 + 35 + 70		
	53 + 60		25 + 35 + 80		
	53 + 70		25 + 53 + 60		
	53 + 80		25 + 53 + 70		
	60 + 70		35 + 53 + 53		
	60 + 80		35 + 53 + 60		
	70 + 80				

Add-on cooling systems

What is Braemar add-on cooling?

Braemar add-on cooling systems are specifically designed to complement your new or existing^ Braemar ducted gas heating system, to achieve a year-round comfort. Compact and economical to run, it can be installed at the same time as your heating system, or added later.

^Applicable to installations where airflow requirements and duct design are suitable. Not all models of Braemar ducted gas heaters are suitable for add-on cooling, so please check with your dealer.



Australia's first and only TRUE inverter add-on cooling – the Invertair™ series

Braemar offers an energy-efficient range of add-on cooling, with Australia's first and only TRUE inverter add-on cooling – the Invertair™ series.

There are four models in Braemar's new Invertair series delivering 550 to 1050 litres per second of nominal airflow and a rated capacity of 10 kW to 15.5 kW.

Invertair indoor unit features and benefits

Being Australia's only true inverter add-on cooling system, it automatically adjusts the outdoor fan speed as the evening temperature drops, thus always providing the most energy-efficient add-on cooling at the quietest noise levels for your comfort.



High energy efficiency



Quiet operation



Significant savings in running costs



Low profile design



Compact and suitable for installation in almost all roof cavities

Note: The new inverter series can only be installed with the TQ heater & MagIQtouch controller.

MagIQtouch Controller features and benefits

You can have year round heating and cooling, using one controller – the innovative and intuitive Braemar MagIQtouch™ Controller, available on all Invertair add-on coolers when matched with TQ model ducted gas heater.

Now, using Braemar ducted gas heaters with Braemar add-on cooling, you can have different cooling temperatures in different zones, too. You can even choose to just cool one zone* – enhancing your comfort and helping to reduce your power bills.

One heater, one cooler, one control

- Advanced touch screen technology
- Enjoy different temperatures in up to 10 zones*
- One touch controller for Braemar heating and add-on cooling

*Note: zoning not available with TQ3 star heaters.



Add-on cooling systems

Invertair™ outdoor unit features and benefits



DRED (RJ45 connector)

Saves power in peak usage times, refer to page 5 for more information.



Long pipe runs (50 m)

Allows more flexibility in placing an outdoor unit.



Single drain connection

Allows faster installation.



DC fan motor and DC compressor

Saves you money by reducing running costs.



Slim design

Allows more flexibility in placing an outdoor unit.



Screw connect electrical terminals

Ensures that electrical connection is reliable so you remain comfortable.



Wide outdoor operating range

Cool: -15 °C to 48 °C.

With system properly designed you and your family will remain comfortable in extreme conditions.



5 YEAR
COMPREHENSIVE
WARRANTY



Invertair™ system specifications

Model No.	Indoor unit	SACV10D1S	SACV12D1S	SACV14D1S	SACV16D1S
	Outdoor unit	SCHV10D1S	SCHV12D1S	SCHV14D1S	SCHV16D1S
Capacity	Cooling (kW)	10.00	13.00	14.50	15.50
AEER	W/W (rated)	3.44	3.71	3.71	3.36
Power supply	V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Power input	Cooling (kW)	2.90	3.50	3.90	4.60
Indoor unit	Rated airflow (L/s)	550	610	700	1050
	Dimensions (W x H x D) mm	1280 x 366 x 450	1280 x 366 x 450	1280 x 366 x 450	1442 x 412 x 435
	Net weight (kg)	25	25	25	28
	Pressure drop dry/wet (Pa)	19/22	27/30	37/40	46/56
Outdoor unit	Sound pressure level (dB(A))	60	61	60	62
	Dimensions (W x H x D) mm	1107 x 1100 x 440	1107 x 1100 x 440	1085 x 1365 x 427	1085 x 1365 x 427
	Net / Gross weight (kg)	91 / 100	101 / 111	117 / 128	121 / 133
	R410A (kg)	3.5	3.9	4.0	5.5
Refrigerant charge	Pipe				
	Liquid size (mm)	Ø9.53 (3/8)	Ø9.53 (3/8)	Ø9.53 (3/8)	Ø9.53 (3/8)
	Gas size (mm)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
	Pre-charge length (m)	7.0	7.0	9.5	9.5
Electrical	Additional charge (g/m)	60	60	60	60
	Max distance height / length (m)	15 / 50	30 / 50	30 / 50	30 / 50
	Indoor to outdoor (mm²)	2 x 0.75 non-shielded (H05RN-F)	2 x 0.75 non-shielded (H05RN-F)	2 x 0.75 non-shielded (H05RN-F)	2 x 0.75 non-shielded (H05RN-F)
	Power to indoor (mm²)	3 core plug & cord (supplied)	3 core plug & cord (supplied)	3 core plug & cord (supplied)	3 core plug & cord (supplied)
Set temperature range	Power to outdoor (mm²)	3 x 4.0 (H07RN-F)	3 x 4.0 (H07RN-F)	3 x 6.0 (H07RN-F)	3 x 6.0 (H07RN-F)
	Recommended fuse (amp)	25	25	40	40
	°C	16~30	16~30	16~30	16~30
	Ambient temperature range				
Ambient temperature range	Cooling °C	-15~48	-15~48	-15~48	-15~48

Note: The above design and specifications are subject to change without notice for product improvement.

Indoor unit	Outdoor unit	Ducted gas heater airflow l/s @ 100Pa @ Fan Speed 10	Invertair capacity Min-Nominal-Max Capacity (kW) Airflow (l/s)	Max fan speed setting	Applicable Braemar "TQ" ducted gas heaters
SACV10D1S	SCHV10D1S	695	3.20-10.00-11.00 330-550-650	9	TQ3X20, TQS3X20, TQ4X20, TQS4X20
		755		8	TQS5X23, TQS6X23, TQM5X20, TQ5X23, TQM6X23
SACV12D1S	SCHV12D1S	695	4.00-13.00-13.50 415-610-800	10	TQ3X20, TQS3X20, TQ4X20, TQS4X20
		755		10	TQS5X23, TQS6X23, TQM5X20, TQ5X23, TQM6X23
SACV14D1S	SCHV14D1S	695	6.00-14.50-14.50 470-700-800	10	TQ3X20, TQS3X20, TQ4X20, TQS4X20
		755		10	TQS5X23, TQS6X23, TQM5X20, TQ5X23, TQM6X23
		810		10	TQ3X25, TQ4X25
SACV16D1S	SCHV16D1S	1050	6.40-15.50-17.00 610-1050-1070	10	TQ3X30, TQ4X30
		1070		10	TQM5X30, TQ5X32, TQM6X32

Note: Care must be taken to ensure that the AOC coil maximum airflow is not exceeded. This can be done by setting the ducted gas heater maximum airflow during the commissioning and set up stage. Please refer to the TQ model Installation Manual. The above Invertair models are only available with MagiQtouch Controller and must be purchased as a package with Braemar ducted gas heating.

Add-on cooling systems

U & SACC series (Fixed speed add-on cooling)

Enjoy exceptional comfort without the worry of high energy costs with high quality fixed speed add-on cooling system.

There are seven models in Braemar's U & SACC series of add-on cooling. SACC models are up to 45% smaller than the U series models, and the largest capacity in the nation delivering 630 to 1050 litres per second of nominal airflow and a rated capacity of 8.8 kW to 24 kW.

Controller features and benefits

One heater, one cooler, one control

Control heating or cooling from the convenience of one controller, that comes with your Braemar ducted gas heater, either manual controller or the intuitive touch screen MagIQtouch Controller.



Manual Controller



MagIQtouch Controller

- Advanced touch screen technology
- Enjoy different temperatures in up to 10 zones*
- One touch controller for Braemar heating and add-on cooling

*Note: zoning not available with TQ3 star heaters.



U & SACC indoor unit features and benefits



Energy-efficient cooling

Enjoy exceptional comfort without the worry of high energy costs with high quality fixed speed add-on cooling system.



U series - first with MEPS compliance

The Australian Minimum Energy Performance Standard (MEPS) ensures that all air conditioning systems (up to 65 kW) sold in Australia comply with the standard, to help reduce Australia's carbon emissions.



Add-on cooling systems

U & SACC outdoor unit features and benefits



Long-life cabinet

Made of high quality galvanised steel for long life and extra strength and electrostatically powder-coated and oven-baked with high quality epoxy paint for added protection.



Three speed fan motor

Computer-controlled to automatically reduce the fan speed when the ambient temperature lowers, reducing operating noise at night and providing greater fan control and comfort to suit your zoning requirements.



Wide outdoor operating range

Cool: 15 °C to 43 °C. With system properly designed you and your family will remain comfortable in extreme conditions.



Corrosion protection

Pre-coated hydrophilic aluminium fins provide resistance against corrosion from sea salts and chemical vapours.



Long pipe runs

Up to 50 m (additional refrigerant will be required).

U & SACC system specifications

Model No.	Indoor unit	U3509A	SACC11C-S	SACC15C-S	SACC18C-S	SACC18C-S	SACC21C-S	SACC21C-S
	Outdoor unit	U3009A	SCHF11C1S	SCHF15C1S	SCCF18C1S	SCHF18C3S	U30213A	BC253A
Capacity	Cooling (kW)	8.8	10.8	14.5	16.6	17.1	21.0	24.0
AEER	W/W (tested)	3.28	3.34	3.47	3.38	3.19	3.14	3.25
Power supply	V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Power input	Cooling (kW)	2.67	3.21	4.18	4.90	5.36	6.68	7.35
Indoor unit	Rated airflow (L/s)	630	755	935	935	935	1050	1050
	Dimensions (W x H x D) mm	1111 x 480 x 460	1060 x 480 x 340	1210 x 480 x 340	1310 x 480 x 340	1310 x 480 x 340	1552 x 480 x 480	1552 x 480 x 480
	Net weight (kg)	24	20	24	27	27	46	46
	Pressure drop (dry/wet) Pa	52 / 67	66 / 88	72 / 90	72 / 104	73 / 104	36 / 50	36 / 57
Outdoor unit	Sound pressure level (dB(A)) @ 1 m	49~59	51~60	55~61	55~61	55~61	51~67	49~65
	Dimensions (W x H x D) mm	1008 x 760 x 390	970 x 970 x 390	970 x 1316 x 390	970 x 1474 x 390	970 x 1474 x 390	1150 x 1552 x 490	1150 x 1552 x 490
	Net weight (kg)	80	90	106	130	130	148	172
Refrigerant charge	R410A (kg)	3.35	3.75	5.15	6.05	5.95	7.85	9.45
Pipe	Liquid size (mm)	Ø9.53 (3/8)	Ø9.53 (3/8)	Ø12.70 (1/2)	Ø12.70 (1/2)	Ø12.70 (1/2)	Ø12.70 (1/2)	Ø12.70 (1/2)
	Gas size (mm)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.20 (7/8)	Ø28.60 (1 1/8)
	Drain size (mm)	Ø24ID	Ø24ID	Ø24ID	Ø24ID	Ø24ID	Ø24ID	Ø24ID
	Pre-charge length (m)	12	2	12	12	12	12	0
	Max. pipe length (m)	30	30	30	30	30	50	50
	Max. difference in level (m)	15	15	15	15	15	15	15
Electrical	Power to outdoor (mm²)	3 x 2.5	3 x 4.0	3 x 6.0	3 x 6.0	4 x 2.5	4 x 4.0	4 x 4.0
	Recommended fuse (amp)	16	25	40	40	16	25	25
Set temperature range	°C	18~37	18~37	18~37	18~37	18~37	18~37	18~37
Ambient temperature range	Cooling °C	15~43	15~43	15~43	15~43	15~43	15~43	15~43

Note: The above design and specifications are subject to change without notice for product improvement.

Indoor unit	Outdoor unit	Nominal airflow (l/s @ 100Pa)	Nominal capacity Total/Sensible (kW)	Nominal AEER	Applicable Braemar ducted gas heaters
U3509A	U3009A	630	8.8 / 7.4	3.28	TSS6X23, THM6X23, THM5X20, TH5X23, TH4X20, TH3X20, TQ4X20, TQM5X20, TQ5X23, TQM6X23
SACC11C-S	SCHF11C1S	755	10.8 / 9.6	3.34	TSS6X23, THM6X23, TH5X23, TH4X25, TH3X25, TQ4X25, TQ5X23, TQM6X23
SACC15C-S	SCHF15C1S	935	14.5 / 12.7	3.47	THM6X32, THM5X30, TH5X32, TH4X30, TH3X30, TQ4X30, TQ5X32, TQM6X32
SACC15C-S	SCHF15C1S	810	14.0 / 11.3*	3.40*	TH4X25, TH3X25, TQ4X25
SACC18C-S	SCCF18C1S	935	16.6 / 13.5	3.38	THM6X32, THM5X30, TH5X32, TH4X30, TH3X30, TQ4X30, TQ5X32, TQM6X32
SACC18C-S	SCCF18C1S	810	16.0 / 12.5*	3.30*	TH4X25, TH3X25, TQ4X25
SACC18C-S	SCHF18C3S	935	17.1 / 14.0	3.19	THM6X32, THM5X30, TH5X32, TH4X30, TH3X30, TQ4X30, TQ5X32, TQM6X32
SACC18C-S	SCHF18C3S	810	16.5 / 12.6*	3.15*	TH4X25, TH3X25, TQ4X25
SACC21C-S	U30213A	1050	21.0 / 17.0	3.14	THM6X32, THM5X30, TH5X32, TH4X30, TH3X30, TQ4X30, TQ5X32, TQM6X32
SACC21C-S	BC253A	1050	24.0 / 18.0	3.25	THM6X32, THM5X30, TH5X32, TH4X30, TH3X30, TQ4X30, TQ5X32, TQM6X32

*Capacity and AEER is estimated using HPRate™ Version 5 simulation software.



Seeley International is Australia's largest air conditioning and ducted gas heating manufacturer and a global leader in developing ingenious, energy-efficient cooling and heating products.

Our vision is to lead the world in creating climate control solutions which continue to be highly innovative, of premium quality and inspirational in their delivery of energy-efficiency.

But it's more than just a vision... it's a way of life!

A commitment to innovation and excellence is at the heart of all that we do. Our success in delivering on that commitment has been recognised by our many awards and our expanding global presence. Seeley International now exports to well over 120 countries. Not bad for a company that started out in 1972 in the garage of its founder and Executive Chairman, Frank Seeley AM FAICD, who was named South Australian of the Year for 2011!

Seeley International offers a range of heating and cooling solutions, many of which can be combined.

	Ducted evaporative cooling	Indirect evaporative cooling	Ducted gas heating	Reverse cycle air conditioning & add-on cooling	Portable heating / cooling	Wall furnaces & space heaters	Gas cooktops
Breezair	✓						
Braemar	✓		✓	✓		✓	
Climate Wizard		✓					
Convair					✓		
Coolair	✓						
Braemar Tudor Romeo							✓
Coolerado		✓					

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Information in this brochure was correct at the time of preparation. E & OE