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# Split System Air Conditioning

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Transforming global energy-efficiency  
into an art form!

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## About Braemar

Braemar split system air conditioners are brought to you by Seeley International, Australia's leading evaporative air conditioning and gas heating manufacturer. For over 50 years Braemar has been providing Australian families with superb high-performance heating and cooling products and has cemented its reputation as a trusted and innovative Australian company, especially so, since becoming part of the Seeley International group.

For outstanding quality, proven reliability and superior comfort that has stood the test of time, you can trust Braemar along with all of Seeley International's award-winning brands.

## Why Braemar

- Made by a large global manufacturer – you can feel confident that your air conditioner will perform with outstanding reliability
- 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

## Some of Seeley International's awards...

**BRW Most Innovative Companies Top 50 List**  
Seeley International

**Manufacturers' Monthly Lifetime Achievement Award**  
– Winner  
Frank Seeley AM FAICD

**Manufacturers' Monthly Australian Consumer/Trade Product of the Year Award**  
– Winner  
Braemar Six Star Ducted Gas Heating Range

**Australian Design Awards – Housing and Building Design Award™ Good Design Award**  
– Winner  
Braemar world's first five star non-condensing ducted gas heating range

**Australian Design Awards – Housing and Building Design Award™ Good Design Award**  
– Winner  
Braemar world's first six star ducted gas heating range

**Australian Innovation Challenge Awards**  
– Finalist  
Climate Wizard

**Advantage SA**  
– South Australia of The Year Award  
Frank Seeley AM FAICD

**AIRAH Awards**  
– Winner: Award for Excellence in Innovation  
Climate Wizard

**49th Australian Export Awards**  
– Finalist  
Seeley International

**Business SA Export Awards**  
– Winner: Large Advanced Manufacturer SA

**Australian Design Awards**  
– Winner Housing and Building Design Award™  
Climate Wizard

**Australia's Best Manufacturing Magazine**  
– Platinum Award for supply-chain and purchasing excellence  
Seeley International, Frank Seeley AM FAICD

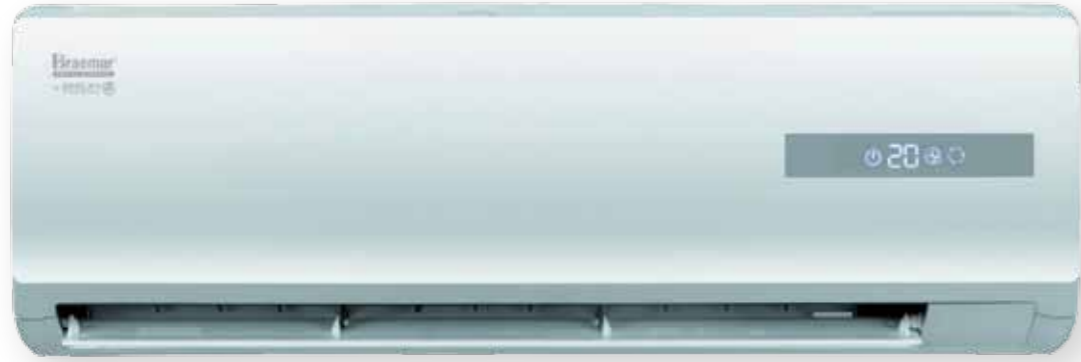
**Manufacturers' Monthly 2011 Endeavour Awards**  
– Winner: Australian Consumer/Trade Product of the Year Award  
Climate Wizard

**Manufacturers' Monthly 2011 Endeavour Awards**  
– Finalist: Australian Industrial Product of the Year Award  
Climate Wizard

**NSW GAS Awards for Excellence**  
– Winner: Industry Category – Environmentally Sustainable Product  
Braemar Gas Heating



## 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.

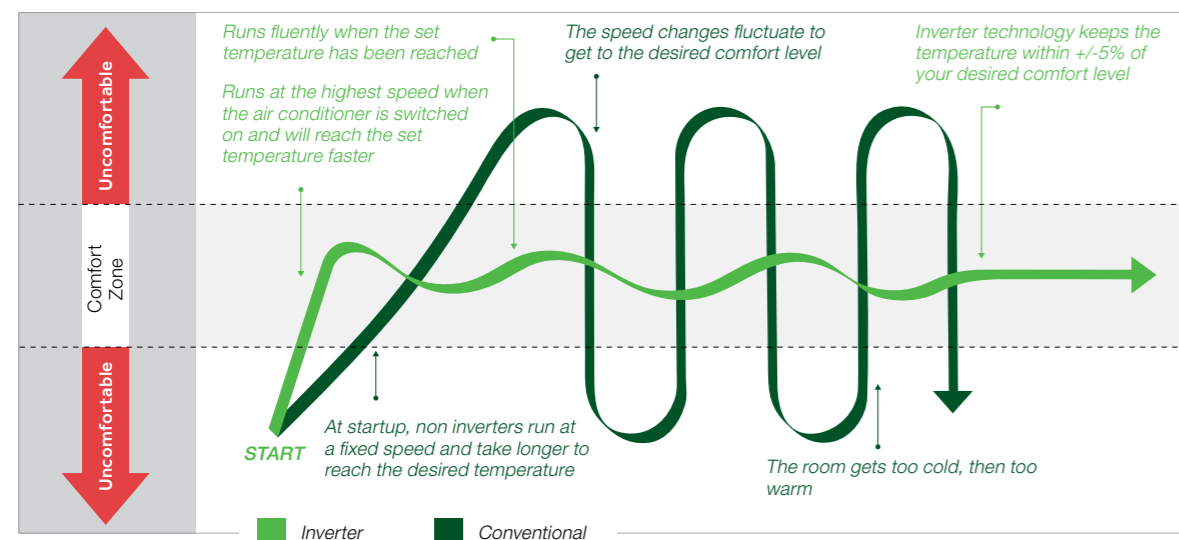
Braemar inverters provide a range of benefits over conventional start/stop systems. These include:

- Significantly lower running costs compared with conventional systems
- Quickly and efficiently adjust 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.



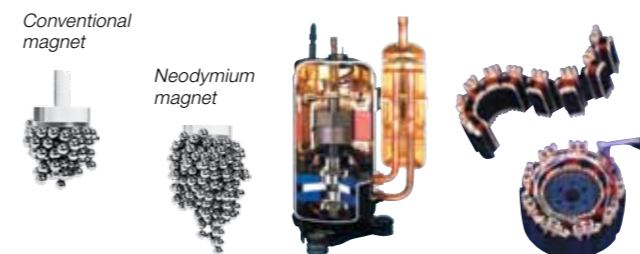
## Braemar's superior performance



### High efficiency compressor

Braemar twin rotary compressors feature powerful neodymium magnets which are 10 times more powerful than conventional magnets. The result is:

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

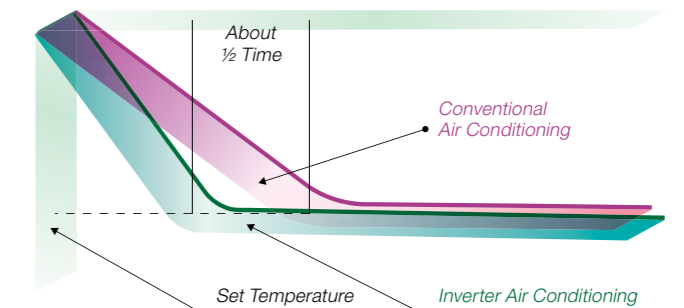


### Greater comfort

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 comfort.

### Quick comfort

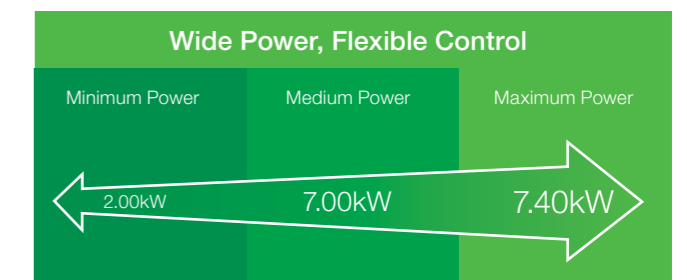


Temperature changes during cooling

### Greater energy savings

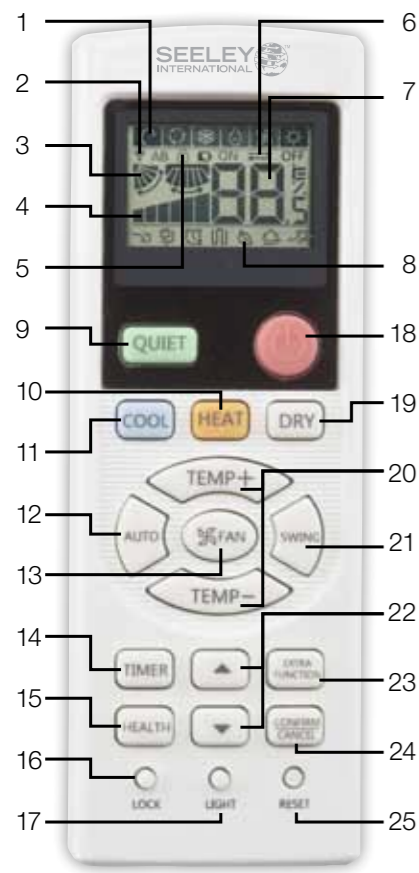
Inverter systems deliver substantial energy savings compared with conventional start/stop systems, under normal operating conditions. By optimising energy consumption, not only will energy be saved, but CO<sub>2</sub> emissions will also be reduced.

### Flexible power control & energy saving



The graph shows the BM70 - ODU70 wide power output range during cooling

## Inverter controller display functions



1. Mode display  
Operation modes (left to right):  
Auto | Cool | Dry | Heat | Fan
2. Signal sending display
3. SWING display
4. FAN SPEED display  
LO - MED - HI - AUTO
5. LOCK display
6. TIMER display  
ON | OFF
7. TEMPERATURE display
8. Additional functions display  
QUIET | SLEEP | HEALTH | POWER
9. QUIET button
10. HEAT button
11. COOL button
12. AUTO button
13. FAN SPEED button
14. TIMER button
15. HEALTH button\*
16. LOCK button  
Used to lock buttons and LCD display
17. LIGHT button  
Turn the indoor LED display board on/off
18. POWER ON/OFF button
19. DRY button
20. TEMP button
21. SWING button
22. HOUR button
23. EXTRA FUNCTION button  
Functions:
  - FAN only mode
  - Upper airflow position
  - Lower airflow position
  - Restore original louver position
  - Right/Left airflow (not used)
  - A-B remote selection
  - Heating mode
  - SLEEP mode
  - Electrical element heating (not used)
  - Refresh air (not used)
  - POWER operation
  - Fahrenheit/Celsius display
24. CANCEL/CONFIRM button  
Function: Set and cancel the timer and other functions
25. RESET button  
Use a sharp pointed object to press this button to reset the remote

\* Not available in BM series

## Inverter controller features

- 4 fan setting**  
Select the fan speed LO, MED, HI, AUTO
- Anti-mould filter**  
Catches most small particles and removes unpleasant odours effectively
- Sleep mode**  
The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode" during night sleep
- 24 hour timer**  
Use the timer function to set on, or off, or from on to off, or from off to on
- Auto restart**  
The function permits automatic return to previous operation conditions

- Easy clean design**  
The panel is easy to wash and the airflow vents can be detached without any special tools for quick cleaning of the inside of the air conditioner
- Child lock**
- Intelligent air**  
With twin-blade technology, the direction of the airflow can be adjusted
- Power mode**  
Quick cooling or heating
- Quiet mode**  
Lower noise operation

## Specifications

System Model Number	HSU-09HEK03/R2(DB)	HSU-12HEK03/R2(DB)	HSU-18HEK03/R2(DB)	HSU-24HEK03/R2(DB)
Seeley Model Number (Indoor/Outdoor)	BM25 / ODU25	BM35 / ODU35	BM50 / ODU50	BM70 / ODU70
Performance <sup>1</sup>				
Rated Cooling Capacity (kW)	2.6 (1.3-3.4)	3.5 (1.4-3.9)	5.0 (1.5 - 5.7)	7.0 (2.0 - 7.4)
Rated Heating Capacity (kW)	2.9 (1.4-3.8)	3.7 (1.5-4.1)	5.4 (1.6 - 6.0)	7.5 (2.5 - 7.7)
Cooling EER (W/W)	3.88	3.80	3.38	3.30
Heating COP (W/W)	3.92	3.85	3.86	3.36
Power Input <sup>1</sup>				
Cooling (kW)	0.67 (0.32-1.08)	0.92 (0.35-1.35)	1.48 (0.39 - 2.0)	2.12 (0.54 - 2.66)
Heating (kW)	0.74 (0.33-1.18)	0.96 (0.37-1.35)	1.4 (0.4 - 2.4)	2.23 (0.64 - 2.77)
Indoor Sound Level <sup>2</sup>				
Sound Pressure Level L/M/H (dB(A))	30/36/39	34/39/42	39/43/47	41/44/47
Outdoor Sound Level <sup>2</sup>				
Sound Power Level (dB(A))	53	53	54	59
Air Circulation <sup>3</sup>				
Nominal Airflow H/M/L (m³/min) Cool	8.3/6.6/5.0	10.7/8.3/6.0	15/12/9.17	18.3/15/11.7
Nominal Airflow H/M/L (m³/min) Heat	8.7/7.2/5.6	11.1/8.6/6.4	15.8/12.8/9.97	18.5/15.6/12.7
Moisture Removal (L/hr)	1.20	1.60	2.40	3.00
Electrical Data				
Power Supply (V/Ph/Hz)	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Running Current (Cool/Heat (A))	3.8/4.2	4.1/4.3	6.5/6.2	9.7/10.2
Start Current (Cool/Heat (A))	5.0/5.0	5.0/5.0	8.0/8.0	8.0/8.0
Maximum Current (Cool/Heat (A))	6.4/6.4	6.0/6.0	8.8/10.5	13.3/13.8
Refrigeration Circuit				
Max Line Length (m)	15.0	15.0	25.0	25.0
Max Line Lift (m)	10.0	10.0	15.0	15.0
Pre-Charged Line Length (m)	7.0	7.0	7.0	7.0
Base Charge (g)	1000	1080	1550	2100
Extra g/m over Pre-charge Length	20.0	20.0	20.0	50.0
Refrigerant Type	R410A	R410A	R410A	R410A
Liquid Line Size (mm)	6.35	6.35	6.35	9.52
Vapour Line Size (mm)	9.52	9.52	12.70	15.88
Compressor Type	Inverter DC Rotary	Inverter DC Rotary	Inverter DC Rotary	Inverter DC Rotary
Dimensions				
Indoor (W x H x D) - (mm)	795/265/187	938/265/187	1046/299/234	1147/320/261
Outdoor (W x H x D) - (mm)	780/540/245	780/640/245	810/688/288	860/730/308
Weight				
Indoor - Unit/Packaged (kg)	8.8/11.3	10.5/12.5	13/16.5	16.5/19.5
Outdoor - Unit/Packaged (kg)	32.2/35	35.5/38.5	43/45.5	50.5/54
Additional Features				
Remote Control Model	YR-HD01	YR-HD01	YR-HD01	YR-HD01
Child Lock	Y	Y	Y	Y
24 Hour Timer	Y	Y	Y	Y
Easy Clean Design	Y	Y	Y	Y
Intelligent Air	Y	Y	Y	Y
Anti-mould Filter	Y	Y	Y	Y
Photocatalyst Filter	Y	Y	Y	Y
Active Carbon Filter	Y	Y	Y	Y
Sleep Mode	Y	Y	Y	Y
4 Fan Settings	Y	Y	Y	Y
Power Mode	Y	Y	Y	Y
Quiet Mode	Y	Y	Y	Y
Manual left-right louvers	Y	Y	Y	Y
Auto Restart after Power Fail	Y	Y	Y	Y
Warranty Period	5 Year	5 Year	5 Year	5 Year
Operating Limits				
Cooling - Indoor (DB/WB)	16°C/32°C	16°C/32°C	16°C/32°C	16°C/32°C
Cooling - Outdoor (DB/WB)	18°C/46°C	18°C/46°C	18°C/47°C	18°C/47°C
Heating - Indoor (DB/WB)	10°C/30°C	10°C/30°C	10°C/30°C	10°C/30°C
Heating - Outdoor (DB/WB)	-7°C/24°C	-7°C/24°C	-7°C/24°C	-7°C/24°C

1. Rated Performance Conditions in accordance with AS/NZS 3823.1.1. T1 and H1 as follows: Cooling (DB/WB) Indoor 27°C DB/19°C WB Outdoor 35°C DB/24°C WB Heating (DB/WB): Indoor 20°C DB/15°C WB Outdoor 7°C DB/6°C WB 2. Sound pressure and power levels measured at 1m from unit, supplied as indicative figures only. 3. Airflow for units is measured at free air discharge.

## SEELEY INTERNATIONAL

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 100 countries. Not bad for a company that started out in 1972 in the garage of its founder and Chairman, Frank Seeley AM FAICD, who was named South Australian of the Year for 2011!



\*Haier air conditioning products are proudly distributed by Seeley International throughout Australia.

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