

Leading edge

# Reverse cycle air conditioning

Ducted and ceiling cassette



*“Seeley International never stops striving to innovate and build the world’s most energy efficient heaters and air conditioners.*

*It is this commitment to excellence that’s at the heart of everything we do.”*

Frank Seeley AM, DUniv Flin, FAICD  
Founder and Executive Chairman



## The award winning company

Seeley International consistently wins awards each year for new product design, innovation and the environment.

Recent awards include:



# The ultimate choice for **comfort in all conditions**



## **DUCTED REVERSE CYCLE SYSTEMS**

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The ideal solution for whole of home or office heating and cooling. The air is circulated via ductwork and inverter technology ensures uninterrupted comfort and valuable energy savings.

Ducted reverse cycle systems consist of two parts; an indoor unit (placed within the roof space) and an outdoor unit.

# The Braemar difference



## COST EFFECTIVE

MEPS (Minimum Energy Performance Standards) compliant

DRED (Demand Response Enabling Device) feature



## AUSTRALIAN OWNED

Seeley International, Australia's leading cooling and heating manufacturer



## RANGE

Braemar offers a comprehensive range to suit everyone's needs



## QUALITY

65 year history of Braemar excellence and reliability

Leading technology and innovation come as standard



## WARRANTY

Quality that lasts – 5 year comprehensive manufacturer's warranty

A network of highly professional dealers and service agents throughout Australia



## ENVIRONMENT

The ducted reverse cycle air conditioning range uses eco-friendly R410A refrigerant



# Standard features

## The DC inverter technology difference

All Braemar ducted inverter systems feature DC inverter technology.

An inverter is a power conversion circuit that electronically regulates the voltage, current and frequency of an air conditioner. This circuit controls the compressor, outdoor and indoor fans, maximising the air conditioner's efficiency.

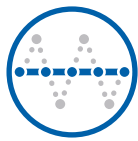
Compared to conventional models, inverter air conditioners provide:



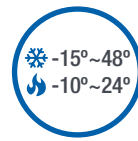
Quicker and finer temperature control and comfort



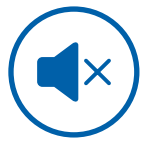
Significantly lower running costs



Elimination of temperature fluctuations



Wider operating temperatures (model specific)



Greatly reduced system noise inside and outside the home

## DC inverter technology vs. conventional

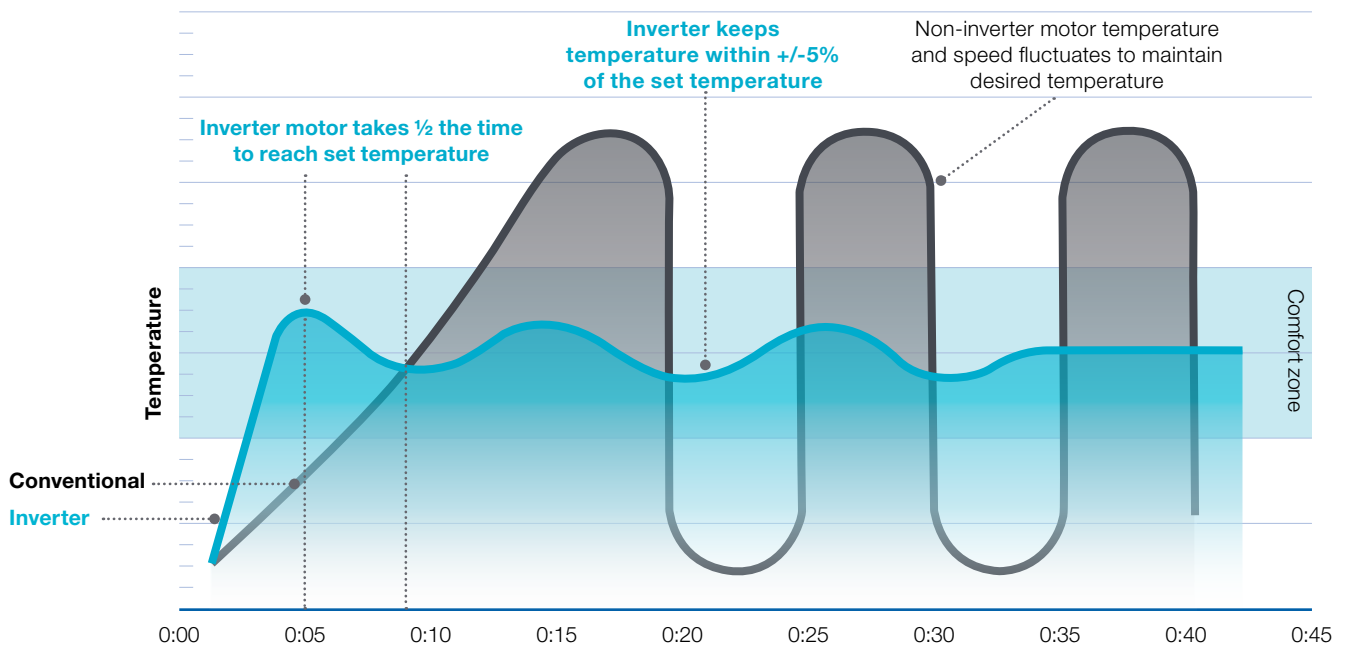


Table for illustration purposes only.



## DRED as standard

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

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.**

# Single phase ducted reverse cycle

## Indoor unit



### POWER SAVING

High energy efficiency results in significant savings in running costs.



### EFFICIENT AND QUIET

Inverter technology, optional motion sensor and installer settings tailoring airflow all make for best efficiency and the quietest operation.



### LOW PROFILE DESIGN

Visually appealing, discrete and low profile unit to deliver conditioned air via ducting and suitable ceiling or wall grilles.



### HOME AUTOMATION SYSTEM ADAPTABLE

Modbus compatibility allows operation with a wide range of home automation systems. Remote on/off control available for applications that require connection to a Building Management System (BMS), or require a room card.



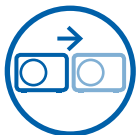
### EASY AND FLEXIBLE INSTALLATION

Compact, adaptable room positioning and built in drain pump allows for flexible installation choices. 2 core signal cable to outdoor unit allows for quick installation.

Available in 5 sizes.

# Single phase ducted reverse cycle

## Outdoor unit



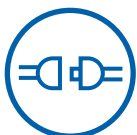
### FLEXIBLE OUTDOOR PLACEMENT

Long pipe runs of up to 50m allows flexibility in placing an outdoor unit.



### SLIM DESIGN

Allows more flexibility in placing an outdoor unit.



### QUICK AND EASY INSTALLATION

Single drain connection point allows for quick and easy installation.

# Three phase ducted reverse cycle

## Indoor unit



### POWER SAVING

High energy efficiency results in significant savings in running costs.



### EFFICIENT AND QUIET

Inverter technology and installer settings tailoring airflow all make for best efficiency and the quietest operation.



### LOW PROFILE DESIGN

Visually appealing, discrete and low profile design that can be concealed above ceilings to deliver conditioned air via ducting and suitable ceiling or wall grilles.



### HOME AUTOMATION SYSTEM ADAPTABLE

Remote on/off control available for applications that require connection to a Building Management System (BMS), or require a room card.



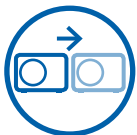
### EASY AND FLEXIBLE INSTALLATION

Compact and adaptable room positioning allows for flexible installation choices. 3 core signal cable to outdoor unit allows for quick installation.

Available in 2 sizes.

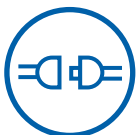
# Three phase ducted reverse cycle

## Outdoor unit



### FLEXIBLE OUTDOOR PLACEMENT

Long pipe runs of up to 50m allow flexibility in placing an outdoor unit.



### QUICK AND EASY INSTALLATION

Single drain connection point allows for quick and easy installation.

# Single ceiling mounted cassette

## Indoor unit



### AIRFLOW DISTRIBUTION

better airflow distribution from the ceiling



### QUIET

low noise, even at full capacity



### EFFICIENT

cools and heats quickly



### EASY AND FLEXIBLE INSTALLATION

built in condensate pump, a light weight fan and easy levelling



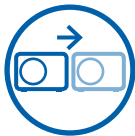
### EASY MAINTENANCE

easy to clean with a stain resistant surface and easy clean filter

- **Single** system only.
- **4 fan settings.**
- **Compact** modern design.
- **Efficient** R410A refrigerant.
- **Available in** 4 sizes.

# Single ceiling mounted cassette

## Outdoor unit



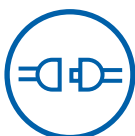
### FLEXIBLE OUTDOOR PLACEMENT

Long pipe runs of up to 50m allows flexibility in placing outdoor units.



### SLIM DESIGN

Allows more flexibility in placing outdoor units.



### QUICK AND EASY INSTALLATION

Single drain connection point allows for quick and easy installation.





# Smart controllers

Ducted  
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 sleeping.



## Quiet function

Reduces fan speed to ensure air conditioner runs more quietly.



## Memory function (if a power failure occurs)

Automatically restarts and resumes the settings.



## Turbo function

Ultra high fan speed to quickly cool the 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

Automatic reminder that filter needs cleaning.



## Timer

Delay the on/off of the air conditioner to save 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.

Ceiling cassette and  
ducted single phase (optional)



## 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 sleeping.



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Automatic reminder that filter needs cleaning.



## Timer

Delay the on/off of the air conditioner to save 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.



## Weekly timer

7 or 14 day programmable weekly timer

Other single phase controllers are available, please check with the dealer.

# Smart controllers

## Ducted three phase



### LCD backlit display

For visibility at night.



### 5 modes

Auto, cool, dry, fan, heat.



### 6 fan settings

Auto, low, mid-flow, medium, mid-high, high.



### Quiet function

Reduces fan speed to ensure air conditioner runs more quietly.



### Memory function (if a power failure occurs)

Automatically restarts and resumes the settings.



### Filter clean remind

Automatic reminder that filter needs cleaning.



### Timer

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



### Child lock

Children are unable to change settings.



# Single phase ducted reverse cycle

## Specifications

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 and 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 (1.40~5.60)	5.00 (1.20~6.90)
	Heating (kW)	2.28 (0.80~2.75)	3.30 (0.70~4.60)	4.00 (1.30~5.50)	4.80 (1.30~5.50)	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)	415	555	610	695	860
	Min/max airflow (L/s)	250-500	330-750	420-900	470-950	610 -1000
	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 x H x D), outline (mm)	1220 x 290 x 790	1340 x 350 x 750	1340 x 350 x 750	1340 x 350 x 750	1497 x 389 x 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 x H x D) (mm)	980 x 790 x 427	1107 x 1100 x 440	1107 x 1100 x 440	1085 x 1365 x 427	1085 x 1365 x 427
	Net / Gross weight (kg)	69 / 74	91 / 100	101 / 111	117 / 128	121 / 133
Refrigerant charge	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 (mm <sup>2</sup> )	2 x 0.75 non shielded	2 x 0.75 non shielded	2 x 0.75 non shielded	2 x 0.75 non shielded	2 x 0.75 non shielded
	Power to indoor (mm <sup>2</sup> )	3 x 1.0	3 x 1.0	3 x 1.0	3 x 1.0	3 x 1.0
	Power to outdoor (mm <sup>2</sup> )	3 x 2.5	3 x 4.0	3 x 4.0	3 x 6.0	3 x 6.0
	Recommended fuse indoor (amp)	6	6	6	6	6
	Recommended fuse outdoor (amp)	20	25	25	40	40
Set temp. 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

# Three phase ducted reverse cycle

## Specifications

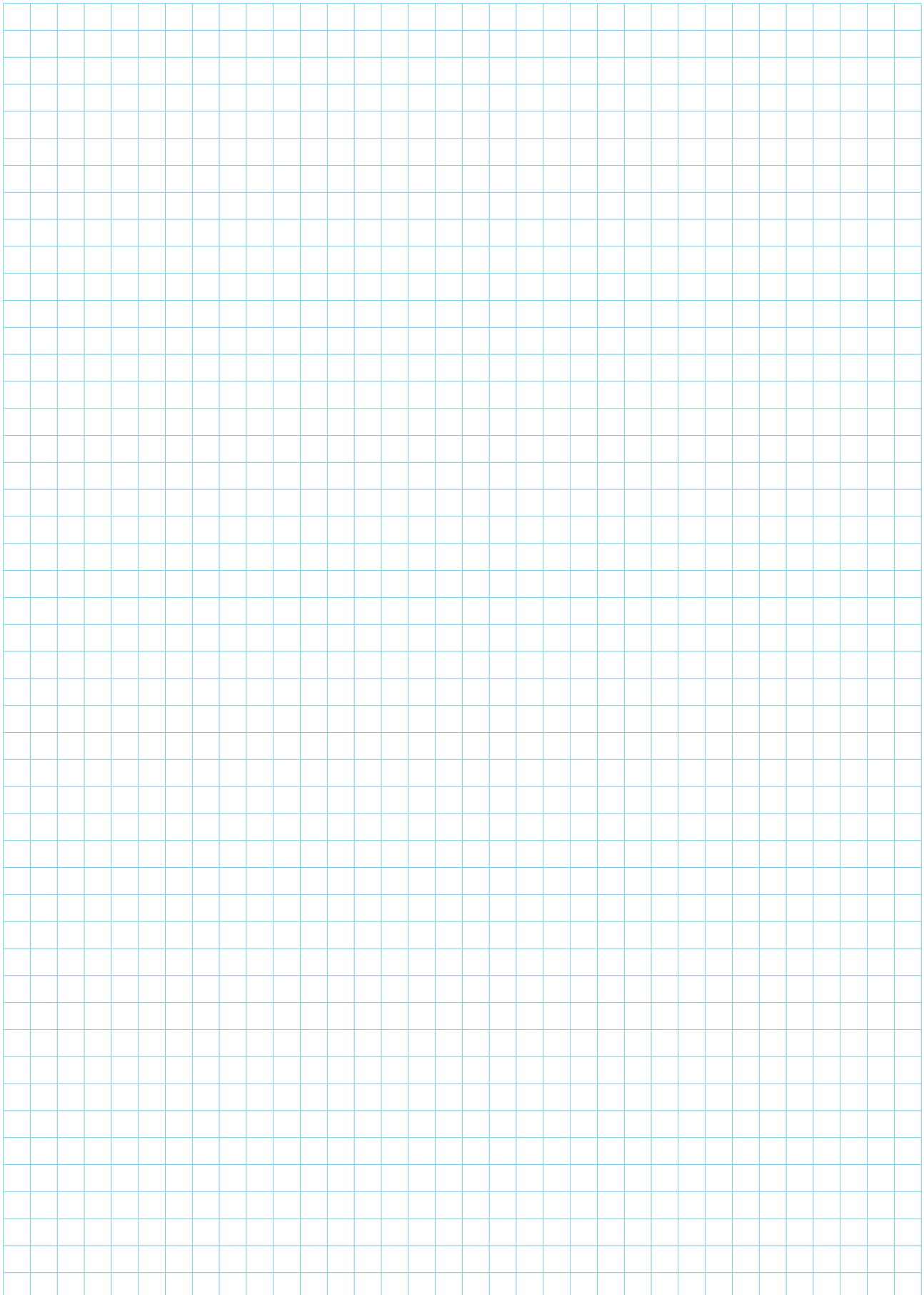
Model No.	Indoor unit	SDHV20D1S	SDHV24D1S
	Outdoor unit	SDHV20D3S	SDHV24D3S
Capacity	Cooling (kW)	<b>20 ( 10~25 )</b>	<b>24 ( 11~27.5 )</b>
	Heating (kW)	<b>22.4 (10~30)</b>	<b>26 (11~33)</b>
AEER / ACOP	W / W (tested)	3.28/3.71	3.35/3.69
EER / COP	W / W (rated)	3.24	3.28
Power supply	Indoor (V / Ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50
	Outdoor (V / Ph / Hz)	380-415 / 3 / 50	380-415 / 3 / 50
Power input	Cooling (kW)	6.06	7.12
	Heating (kW)	6	7.02
Current input (max.)	Cooling/heating indoor (A)	11.2	13.5
	Cooling/heating outdoor (A)	12.3	14.4
Indoor unit	Rated airflow @ 50 Pa (L/s)	1220	1390
	Min/max airflow (L/s)	830 - 1400	830 - 1400
	Range (9 settings) Pa	0 - 250	0 - 250
	Rated speed (min/max)	6 Settings	6 Settings
	Duct flange S/A (mm)	270 x 980	270 x 980
	Duct flange R/A (mm)	420 x 1350	420 x 1350
	Sound pressure level (dB(A))	53	55
	Dimensions (W × H × D), outline (mm)	1690 x 440 x 870	1690 x 440 x 870
	Net / Gross weight (kg)	110/135	113/140
Outdoor unit	Sound pressure level (dB(A))	60	62
	Dimensions (W × H × D) (mm)	940 x 1615 x 460	940 x 1615 x 460
	Net / Gross weight (kg)	155/170	175/190
Refrigerant charge	R410A (kg)	6.7	9.5
Pipe	Liquid size (mm)	9.53 (3/8")	9.53 (3/8")
	Gas size (mm)	19.05 (3/4")	22.2 (7/8")
	Pre-charge length (m)	7.5	7.5
	Additional charge (g/m)	54	54
	Max distance height / length (m)	30/50	30/50
Electrical	Indoor to outdoor (mm <sup>2</sup> )	2 x 0.75	2 x 0.75
	Power to indoor (mm <sup>2</sup> )	3 x 1.5	3 x 1.5
	Power to outdoor (mm <sup>2</sup> )	5 x 4.0	5 x 4.0
	Recommended fuse indoor (amp)	-	-
	Recommended fuse outdoor (amp)	32	32
Set temp. range	°C	16~30	16~30
Ambient temperature range	Cooling (°C)	-7~48	-7~48
	Heating (°C)	-15~24	-15~24

# Single ceiling mounted cassette

## Specifications

Model No.	Indoor unit	SBHV07D1S	SBHV10D1S	SBHV12D1S	SBHV14D1S
	Outdoor unit	SCHV07D1S	SCHV10D1S	SCHV12D1S	SCHV14D1S
	Fascia	TC04	TC04	TC04	TC05
Capacity	Cooling (kW)	<b>7.2</b> (2.4 ~ 9.5)	<b>10.0</b> (3.2 ~ 11.0)	<b>11.5</b> (4.0 ~ 12.0)	<b>14.0</b> (6.0 ~ 15.0)
	Heating (kW)	<b>8.2</b> (2.4 ~ 10.0)	<b>12.0</b> (2.9 ~ 13.0)	<b>13.8</b> (4.0 ~ 15.0)	<b>16.0</b> (5.2 ~ 17.0)
AEER / ACOP	W / W (tested)	3.24 / 3.39	3.31 / 3.32	3.20 / 3.37	3.25 / 3.50
EER / COP	W / W (rated)	3.21 / 3.51	3.23 / 3.64	3.24 / 3.45	3.22 / 3.33
Power supply	Indoor and outdoor V / Ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Power input	Cooling (kW)	2.15 (0.85~2.50)	3.00 (0.70~4.50)	3.50 (0.65~4.70)	4.30 (1.40~5.60)
	Heating (kW)	2.45 (0.80~2.75)	3.50 (0.70~4.60)	4.20 (1.30~5.50)	4.50 (1.30~5.50)
Current input (max.)	Cooling/heating indoor (A)	1	1	1	1
	Cooling/heating outdoor (A)	16	19	21	28
Indoor unit	Rated airflow (L/s)	385	525	550	635
	Sound pressure level (H/M/L) (dB(A))	43~48	47~52	47~52	47~52
	Dimensions (W × H × D), outline (mm)	840 × 240 × 840	840 × 290 × 840	840 × 290 × 840	910 × 290 × 910
	Net / Gross weight (kg)	29 / 37	33 / 41	34 / 42	43 / 53
Outdoor unit	Sound pressure level (dB(A))	56	60	60	61
	Dimensions (W × H × D) (mm)	980 × 790 × 427	1107 × 1100 × 440	1107 × 1100 × 440	1085 × 1365 × 427
	Net / Gross weight (kg)	69 / 74	91 / 100	101 / 111	117 / 128
Fascia	Dimensions (W × H × D) (mm)	952 x 60 x 952	952 x 60 x 952	952 x 60 x 952	1040 x 65 x 1040
	Net / Gross weight (kg)	7 / 11	7 / 11	7 / 11	8 / 12
Refrigerant charge	R410A (kg)	2.2	3.5	3.9	4.0
Pipe	Liquid size (mm)	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)
	Pre-charge length (m)	7.0	7.0	7.0	9.5
	Additional charge (g/m)	60	60	60	60
	Max distance height / length (m)	15 / 50	15 / 50	30 / 50	30 / 50
Electrical	Indoor to outdoor (mm <sup>2</sup> )	2 x 0.75 non shielded	2 x 0.75 non shielded	2 x 0.75 non shielded	2 x 0.75 non shielded
	Power to indoor (mm <sup>2</sup> )	3 x 1.0	3 x 1.0	3 x 1.0	3 x 1.0
	Power to outdoor (mm <sup>2</sup> )	3 x 2.5	3 x 4.0	3 x 4.0	3 x 6.0
	Recommended fuse indoor (amp)	6	6	6	6
	Recommended fuse outdoor (amp)	20	25	25	40
Set temp. range	°C	16~30	16~30	16~30	16~30
Ambient temperature range	Cooling (°C)	-15~48	-15~48	-15~48	-15~48
	Heating (°C)	-10~24	-10~24	-10~24	-10~24

# Notes







### **BREEZAIR**

Ducted Evaporative Air Conditioning

### **BRAEMAR**

Ducted Evaporative Air Conditioning | Ducted Gas Heating | Add On Cooling  
Reverse Cycle Air Conditioning | Gas Wall Furnaces and Space Heaters

### **CLIMATE WIZARD**

Indirect Evaporative Air Conditioning

### **CONVAIR**

Portable Air Conditioning

### **COOLAIR**

Ducted Evaporative Air Conditioning

### **COOLERADO**

Indirect Evaporative Air Conditioning

### **AIRA**

Direct and Indirect Evaporative Air Conditioning | Ducted Gas Heating  
Commercial Gas Space Heating | Energy Recovery Systems

### **INTEGRATED COMFORT INCORPORATED (ICI)**

Dual Cool® Patented Dual Evaporative pre-cooling products

[seeleyinternational.com/braemar](http://seeleyinternational.com/braemar)

1300 360 815



With the generous support of our Australasian dealers we are proud to be the National Variety Bash partner supporting kids in need across Australia.

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

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Quality  
ISO 9001