

Leading edge  
**Add-on cooling**  
for ducted gas heating



*“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**



## **ADD-ON COOLING SYSTEMS**

The ideal solution for whole of home comfort, complementing a new or existing Braemar ducted gas heating system.

Add-on cooling systems utilise existing Braemar ducted gas heating ductwork and grilles to provide refrigerated cooling. The system consists of an indoor unit, an outdoor unit and one controller for heating and cooling, with zoning options available\*.



# The Braemar difference



## COST EFFECTIVE

MEPS (Minimum Energy Performance Standards) compliant

DRED (Demand Response Enabling Device) feature (on Invertair™ models)



## 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 add-on cooling range uses eco-friendly R410A refrigerant



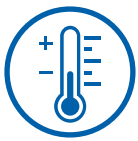
# Standard features

## The DC inverter technology difference

All Braemar Invertair™ add-on cooling 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 and the outdoor fan, maximising the air conditioner's efficiency.

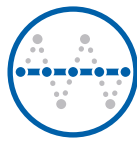
Compared to conventional models, inverter air conditioners provide:



Quicker and finer temperature control and comfort



Significantly lower running costs



Elimination of temperature fluctuations



Wider operating temperatures



Greatly reduced system noise inside and outside the home

## DC inverter technology vs. conventional

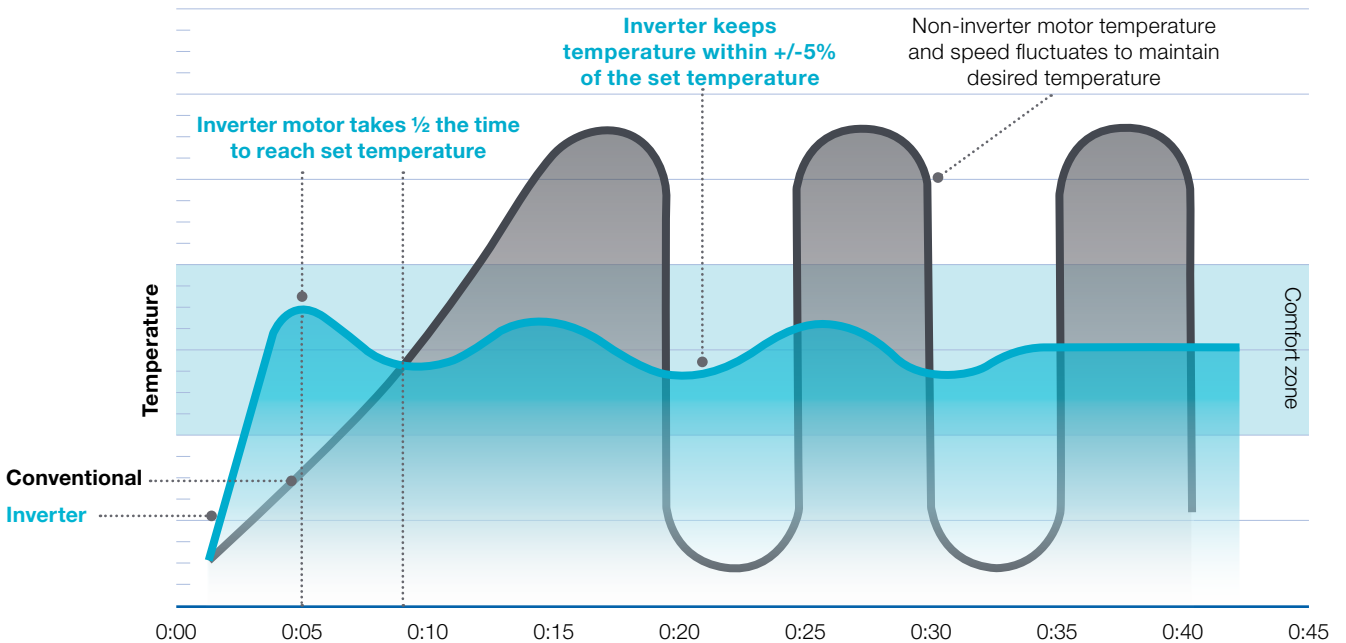


Table for illustration purposes only.



## 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.**

# Add-on cooling for gas heating

## The ideal solution for whole of home comfort

Add-on cooling systems are specifically designed to complement a new or existing<sup>^</sup> Braemar ducted gas heating system. Compact and economical to run, it can be installed at the same time as a heating system, or added later.



<sup>^</sup>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 the dealer.

# Invertair™

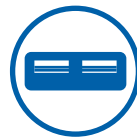
## Indoor unit – Australia's first and only true inverter add-on cooling system

The inverter technology in **Invertair™ add-on cooling** ensures uninterrupted comfort and a significant saving in running costs.



### POWER SAVING

High energy efficiency results in significant savings in running costs.



### LOW PROFILE DESIGN

Visually appealing with a discrete and low profile design that can be concealed above ceilings or below the floor to deliver conditioned air via ducting and suitable ceiling or floor grilles.



### EFFICIENT AND QUIET

Inverter technology, 1W standby mode and automatic fan adjustment as the evening temperature drops all make for best efficiency and the quietest operation.



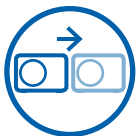
### EASY AND FLEXIBLE INSTALLATION

Compact and suitable for installation in almost all roof cavities. Room positioning and grille options allow for flexible installation choices.

**Note:** the Invertair™ series can only be installed with the TQ heater and MagIQtouch® controller. Available in 4 sizes.

# Invertair™

## Outdoor unit



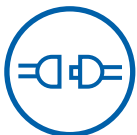
### FLEXIBLE OUTDOOR PLACEMENT

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.

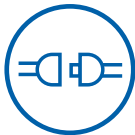






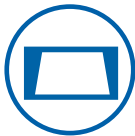
# Fixed speed add-on cooling range

## Indoor unit



### EASY SINGLE POINT CONNECTION

Quick and easy single point duct connection of indoor unit.



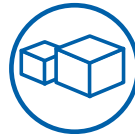
### BUILT IN SAFE TRAY

Provides peace of mind, knowing that your Braemar add on cooling unit has a built in safety drain tray, thus, eliminating the risk of water damage.



### EASY AND FLEXIBLE INSTALLATION

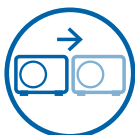
Compact design allows for installation in ceiling or under floor.



### 10KW TO 23KW CAPACITY UNITS

The range is suitable for all types of applications, from small apartments to large homes and open spaces.

## Outdoor unit



### FLEXIBLE OUTDOOR PLACEMENT

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



### EFFICIENT AND QUIET WITH 3 SPEED FAN

Automatic fan speed adjustment as the evening temperature drops makes for best efficiency and quietest operation.



### LONG LIFE UNIT PROTECTION

Cabinet is made of high quality galvanised steel and powder-coated with high quality epoxy paint for long life and extra strength. Pre-coated aluminium fins provide resistance against corrosion.



### VERTICAL DISCHARGE

Top airflow outdoor unit allows for flexible installation.



# Innovative MAGIQTOUCH® controller

## Touch screen technology

Smart, sophisticated and incredibly intuitive, the MagIQtouch® controller makes operating a Braemar so simple. Discreet and modern design will blend seamlessly into the décor of any home.



### Touch screen

Easy to use intuitive touch screen control.

### Heat or cool with one touch

With one simple touch, turn the heater or cooler on or off.

### Zone the home

Switch between zones in the home and control your settings in each zone. Save on running costs by switching zones off.<sup>◇</sup>  
Zoning is an optional extra

### Target temperature

Displays the temperature to be reached.

### Switch to heating or cooling

Quickly switch to heating. Display turns blue when cooling and red when heating.

### Current temperature

Quickly and easily view the current temperature inside the home.

### Temperature control

Tap the minus to reduce target temperature or plus to increase target temperature.

### Wake up

Press to wake the controller from sleep, only lighting up the screen when in use.

### Settings

Access features such as child lock, night quiet mode<sup>◇</sup> and servicing information.

### Program mode

Tap to change the 7 day program with 4 simple time periods (including a temporary over-ride function).

<sup>◇</sup>TQ3 and TQD3 models: night quiet mode and zoning is not available, and fan speed is not user-adjustable.

# Invertair™ series

## 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)	3.40	3.71	3.72	3.35
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	4.62
Indoor unit	Rated airflow (L/s)	550	610	700	1050
	Dimensions (W × H × D), outline (mm)	1280 x 366 x 450	1280 x 366 x 450	1280 x 366 x 450	1442 x 412 x 450
	Net / Gross weight (kg)	23	25	25	30
	Pressure drop dry/wet (Pa)	19/22	27/30	37/40	46/56
Outdoor unit	Sound pressure level (dB(A))	60	60	61	62
	Dimensions (W × H × 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
Refrigerant charge	R410A (kg)	3.5	3.9	4.0	5.5
Pipe	Liquid size (mm)	Ø9.53 (¾)	Ø9.53 (¾)	Ø9.53 (¾)	Ø9.53 (¾)
	Gas size (mm)	Ø15.88 (¾)	Ø15.88 (¾)	Ø15.88 (¾)	Ø19.05 (¾)
	Pre-charge length (m)	7.0	7.0	9.5	9.5
	Additional charge (g/m)	60	60	60	60
	Max distance height / length (m)	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
	Power to outdoor (mm <sup>2</sup> )	3 x 4.0	3 x 4.0	3 x 6.0	3 x 6.0
	Power to indoor (mm <sup>2</sup> )	3 core plug & cord	3 core plug & cord (supplied)	3 core plug & cord (supplied)	3 core plug & cord (supplied)
	Recommended fuse (amp)	25	25	40	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

**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 extra air ducted gas heaters
SACV10D1S	SCHV10D1S	695	3.20-10.00-11.00 330-550-650	9	X20, X23
		755		8	X20, X23
SACV12D1S	SCHV12D1S	695	4.00-13.00-13.50 415-610-800	10	X20, X23
		755		10	X20, X23
SACV14D1S	SCHV14D1S	695	6.00-14.50-14.50 470-700-800	10	X23, X25
		755		10	X23, X25
		810		10	X23, X25
SACV16D1S	SCHV16D1S	1050	6.40-15.50-17.00 610-1050-1070	10	X30, X32
		1070		10	X30, X32

**Note:** 4, 5 and 6 star extra air heaters are suitable for add-on cooling. 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.

# Fixed speed add-on cooling series

## Specifications

Model No.	Indoor unit	AOCF10C-S	AOCF12C-S	AOCF15C-S	AOCF18C-S	AOCF18C-S	AOCF21C-S	AOCF23C-S
	Outdoor unit	TCCF10C1S	TCCF12C1S	TCCF15C1S	TCCF18C1S	TCCF18C3S	TCCF21C3S	TCCF23C3S
Normal Capacity	Cooling (kW)	10.1	11.8	14.8	17.8	17.8	21.1	23.3
AEER	W / W (rated)	3.49	3.34	3.46	3.52	3.56	3.58	3.46
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
Normal Power input	Cooling (kW)	2.89	3.53	4.27	5.05	4.99	5.89	6.73
Indoor unit	Nominal airflow (L/s)	755	755	935	935	935	1050	1200
	Min-Max airflow (L/s)	400-800	400-800	700-1000	700-1000	700-1000	760-1200	760-1200
	Dimensions (H x W x D) outline (mm)	500 x 685 x 760	500 x 685 x 760	560 x 730 x 815	560 x 850 x 815	560 x 850 x 815	590 x 850 x 945	590 x 850 x 945
	Net / Gross weight (kg)	31/34	31/34	37/41	47/52	47/52	55/61	55/61
	Pressure drop wet/dry(Pa)	69/58	112/74	106/60	87/74	94/74	96/58	113/72
Outdoor unit	Sound pressure level @ 1m (dB(A))	60/56/51	60/56/51	61/58/55	61/58/55	61/58/55	67/60/51	67/60/51
	Dimensions (H x W x D) (mm)	1000 x 1200 x 540	1000 x 1200 x 540	1320 x 1200 x 590	1320 x 1200 x 590	1320 x 1200 x 590	1280 x 1400 x 685	1280 x 1400 x 685
	Net / Gross weight (kg)	97/101	97/101	139/144	143/148	143/148	150/156	157/163
Refrigerant charge	R410A (kg)	3.95	3.85	5.45	7.35	7.15	7.15	8.15
Add refrigerant if over 12m Pipe	Liquid size mm (inch)	Ø9.50 (3/8)	Ø9.50 (3/8)	Ø12.70 (½)	Ø12.70 (½)	Ø12.70 (½)	Ø12.70 (½)	Ø12.70 (½)
	Gas size mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.22 (7/8)	Ø22.22 (7/8)
	Pre-charge length (m)	12	12	12	12	12	12	12
	Additional charge (g/m)	50	50	100	100	100	100	100
	Max distance height / length (m)	15/30	15/30	15/30	15/30	15/30	15/50	15/50
Electrical	Running current*	13.1	15.9	21.8	22.6	8.7	11.1	12.0
	Rated current	18.5	21.5	31.0	36.0	12.0	14.5	16.0
	Extreme Condition current**	21.0	24.4	35.2	40.0	13.1	16.1	17.6
	Power to outdoor (mm <sup>2</sup> )	4.0	4.0	6.0	6.0	2.5	4.0	4.0
	Recommended Circuit breaker (amp)	25	25	40	40	16	20	20
Recommended Set temp. range	°C	20~28	20~28	20~28	20~28	20~28	20~28	20~28
Ambient temperature range	Cooling (°C)	20~43	20~43	20~43	20~43	20~43	20~43	20~43

**Note:** The above design and specifications are subject to change without notice for product improvement. \*Maximum current based on 43°C Ambient and 32°C Indoor. \*\*Extreme condition current when operated at 52°C outdoor ambient temperature.

Indoor unit	Outdoor unit	Nominal airflow l/s @ 100Pa	Nominal capacity Total/sensible (kW)	Nominal AEER	Applicable Braemar extra air ducted gas heaters
AOCF10C-S	TCCF10C1S	755	10.1 / 9.5	3.49	X20, X23
AOCF12C-S	TCCF12C1S	755	11.8 / 10.3	3.34	X23, X25
AOCF15C-S	TCCF15C1S	935	14.8 / 12.0	3.46	X30, X32
AOCF18C-S	TCCF18C1S	935	17.8 / 13.5	3.52	X30, X32
AOCF18C-S	TCCF18C3S	935	17.8 / 14.0	3.56	X30, X32
AOCF21C-S	TCCF21C3S	1050	21.1 / 16.6	3.58	X30, X32
AOCF23C-S	TCCF23C3S	1200	23.3 / 18.5	3.46	TQA5X30N

**Note:** Note: 4, 5 and 6 star extra air heaters are suitable for add-on cooling.



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Ducted Evaporative Air Conditioning

### **BRAEMAR**

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Reverse Cycle Air Conditioning | Gas Wall Furnaces and Space Heaters

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### **COOLAIR**

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### **COOLERADO**

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Commercial Gas Space Heating | Energy Recovery Systems

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