

2020



Leading edge **Add-on Cooling**

For cosy ducted gas heating



AUSTRALIAN
OWNED

“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



Award Winning Company

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

Recent awards include:



melbourne
design
awards



WINNER

sydney
design
awards



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*.

*Only Braemar extra air models are designed to be paired with Braemar add-on cooling systems.

The Braemar difference



COST EFFECTIVE

MEPS (Minimum Energy Performance Standards) compliant

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



AUSTRALIAN DESIGNED, MADE AND OWNED*

Seeley International, Australia's leading cooling and heating manufacturer



RANGE

Braemar offers a comprehensive range to suit everyone's needs



QUALITY

80 year history of Braemar excellence and reliability

Leading technology and innovation come as standard



WARRANTY

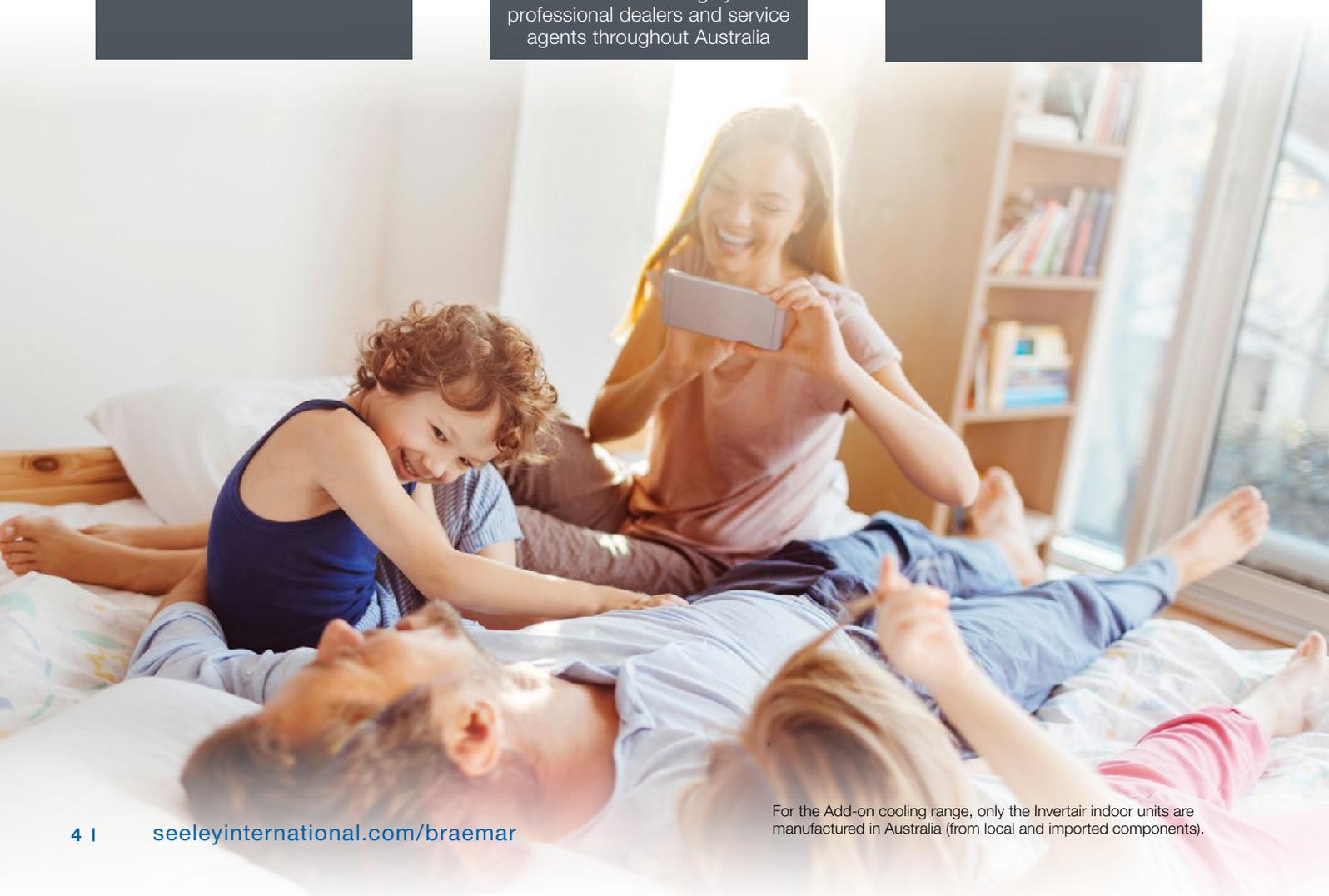
Quality that lasts – 5 year comprehensive manufacturer's warranty

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.

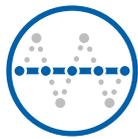
Compared to conventional models, inverter air conditioners provide:



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

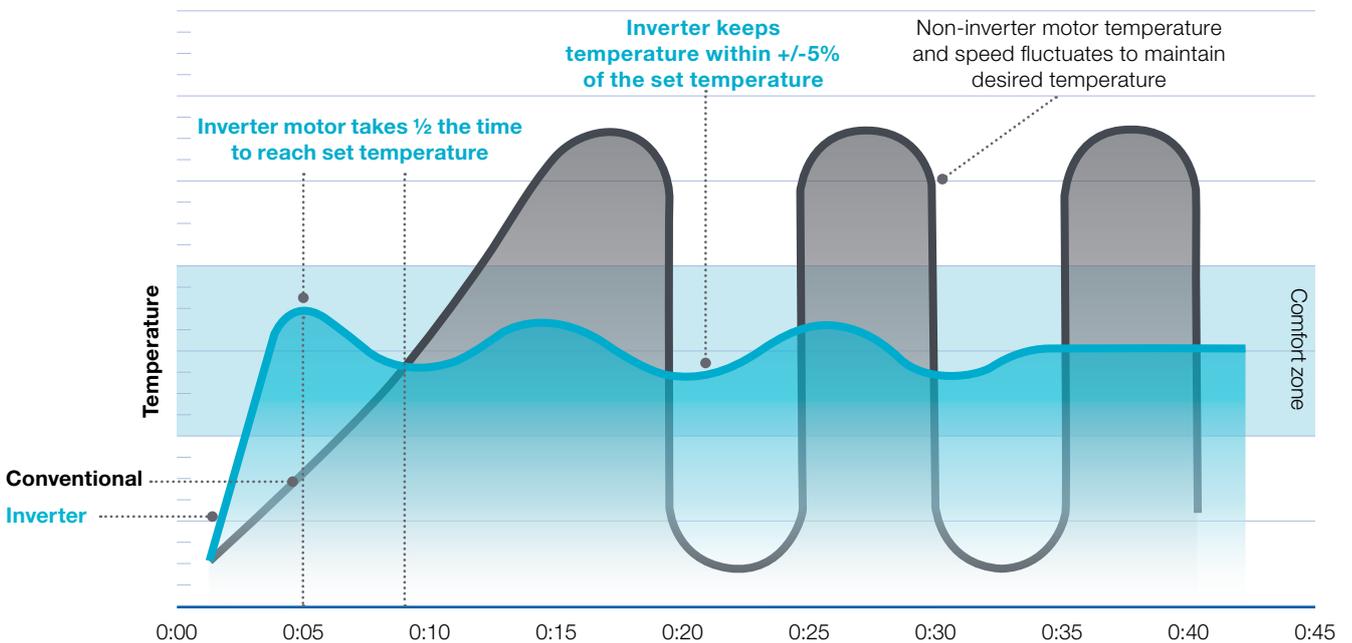


Table for illustration purposes only.



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[^] 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.



[^]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

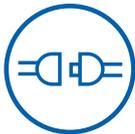
Single drain connection point allows for quick and easy installation.





Coolmaster™

Indoor unit – Fixed speed add-on cooling system



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.[◇]
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[◇] and servicing information.

Program mode

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

[◇]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 ²) | 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 ²) | 3 x 4.0 | 3 x 4.0 | 3 x 6.0 | 3 x 6.0 |
| | Power to indoor (mm ²) | 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.

Coolmaster™ Fixed speed 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) | 108/137 | 108/137 | 148/180 | 153/185 | 153/185 | 159/196 | 162/199 |
| 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) |
| | 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 (mm²) | 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: 4, 5 and 6 star extra air heaters are suitable for add-on cooling.

Note: For the Add-on cooling range, only the Invertair indoor units are manufactured in Australia (from local and imported components).



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

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