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INTRODUCING ACPAC SEMI'S WITH VARIABLE SPEED DRIVE



The Variable speed drive (VSD) models of the APS Semi hermetic Acpac range include a fully programmed Vacon VSD to adjust the compressor speed to maintain the desired evaporating pressure.

In extreme ambient temperatures the VSD models will act to ensure the compressor stays inside it's operating envelope, this is called the High Limit Pressure Safety (HLPS) feature and will allow the compressor to provide the maximum amount of cooling capacity at high ambient conditions.

The APS VSD models are quick and easy to install and commission and are suitable for either R134a or R404A refrigerants.

These models are well suited for refrigerated reach-in and walk-in cool rooms and freezers for every product imaginable including butcher shops, fish shops, fruit and vegetable stores, fast food chains, food processors and many more.

ACPAC VSD FAST FACTS:

- Vacon VSD adjusts compressor speed to match the refrigeration load required.
- Comes pre-programmed for trouble free operation and fast commissioning.
- Ensures the compressor operates below its maximum operating current.
- Contactor and Overload no longer required as power goes direct to VSD.
- Electronic Oil Regulator installed to ensure oil return is always maintained.



MODELS AVAILABLE

| Product Code | Model | Со | mpres | sor | | Fan(s) | | Liquid Receiver Capacity | Line Size inches | | Nett Weight | Sound Power Level |
|-----------------|-----------------|-----------|-----------|---------------|-----------------|-----------|---------------|-----------------------------|---------------------|--------|-------------|----------------------|
| | | Model | MOC, Amps | Volts / Phase | No. Diam. mm | MOC, Amps | Volts / Phase | kg @ 80% | Suction | Liquid | kg | dBA▲ |
| 3508002 | APS6.0ML2-1VSD | SH4536ZYZ | 6.7 | DOL | 2×350 | 2 × 0.65 | 240/1 | 10.0 | 7/8 | 1/2 | 175 | 67 |
| 3508004 | APS11.7ML3-1VSD | SH4567ZYZ | 12.5 | DOL | 3 × 350 | 3 × 0.65 | 240/1 | 10.0 | 1-1/8 | 1/2 | 205 | 70 |
| 3508007 | APS25.8ML2-1VSD | SH4615ZMZ | 22.4 | DOL | 2×500 | 2 × 3.3 | 240/1 | 12.0 | 1-3/8 | 5/8 | 348 | 75 |
| 3508011 | APS56.4ML2-1VSD | SH4632ZMZ | 49.2 | DOL | 2 × 710 | 2 × 1.5 | 415/3 | 25.0 | 2-1/8 | 1-1/8 | 660 | 81 |





In our last edition of The Gauge, we highlighted the fact that the days of R404A are limited, it's important to realise the days of all HFC refrigerants are dwindling. The GWP of R404A is almost three times that of R134a so you can imagine with the quota system, this will more than likely be one of the first to diminish – but R134a won't be too far behind, so what do we use to replace this single component sky-blue baby?

There are already a few lower GWP alternatives available for retrofitting most common refrigerants. These are blends of HFC and HFO refrigerants, with HFO refrigerants having near zero GWP and the HFC component providing similar characteristics to the refrigerant they are replacing. Changing to a low GWP option will prolong the availability of refrigerants that can be used on existing systems. In this article we will highlight some of the better performers in the non-flammable arena, however if you'd like to know more about the HFO options that would require new equipment, simply talk to your local branch manager.

| Туре | ASHRAE No | Brand name | GWP (AR5) | Glide | Flammable |
|---------|-----------|--------------|-----------|-------|-----------|
| HFC | R134a | R134a | 1300 | 0.0 | No (A1) |
| HFO/HFC | R450A | Solstice N13 | 547 | 0.6 | No (A1) |
| HFO/HFC | R513A | Opteon XP10 | 573 | 0.0 | No (A1) |

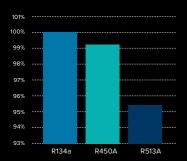
What is our recommendation? While very similar in areas, R450A slightly pips R513A in our eyes, let's look a little closer at why.

- R450A COP is nearly identical to R134a, R513A is lower, where higher is more desirable
- R450A Compressor power is nearly identical to R134a, R513A is higher, where lower is more desirable
- The Mass flow for R450A is more desirable
- · R450A discharge temperature is below R134a
- The GWP for R450A is lower than both R134a and R513A





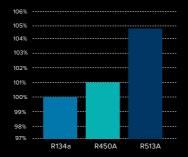
COP cool above 100% is desirable



- Measures the cooling capacity in relation to the power consumed.
- R450A has the best COP of the alternatives.
- Both alternatives fall short of R134a's COP. Minimising this difference is important otherwise equipment will not perform as originally engineered.

Compressor Power

lower than 100% is desirable



- Measures the power consumption of the compressor.
 The lower the better.
- R450A is just above R134a and performs much better than R513A.
- Both alternatives are higher than R134a's power consumption. Minimising this difference will save on energy costs.

Mass Flow

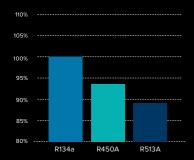
above 100% is desirable



- Mass flow tells us how much refrigerant can be moved through the system, generally the more the more the better.
- Note: The higher the difference compared to the refrigant it is replacing, the more adjustments on the system will be required e.g. TX valve.

Discharge temperature

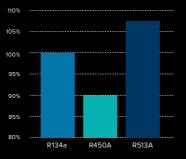
lower is better



- A measure of the temperature of the refrigerant leaving the compressor.
- The higher the temperature the more stress on the compressor components.
- A lower discharge temperature is good. R450A is 8% lower than R134a.

Refrigeration Capacity

above 100% is desirable



- This is a measure of the capacity of the refrigerant to cool. The higher the better.
- This is R450A's only weakness which is more than compensated by its other attributes.
- R450A would benefit installing an EXV to compensate capacity shortfall.

Charge Size



- Charge size is a reference to the volume in kilograms of refrigerant needed in a system.
- R450A is 3% lower than R134a.

One area where R513A does trump our recommended alternative is in refrigeration capacity. Although its other attributes more than compensate for this weakness, as R450A overall is the closest match to R134a.

If you would like to see transparent chart of more HFC alternatives, ask your local branch for your very own Prime Refrigerant Comparison Chart. The chart provides a good representation of the abilities of each refrigerant under common conditions to enable a fair comparison. This will enable you to choose the best alternative for you without all the noise!

COMPARISON CHART FOR HFC AND HFO REPLACEMENT REFRIGERANTS



Still unsure? Take a look at the detailed chart below comparing the attributes of new alternatives to help you decide which is the better choice for you. Grab a copy of this comparison chart at your local branch.

| Current Refrigerant | Туре | ASHRAE No | Brand name | GWP (AR5)* | Glide | Flammable | Oil | Refrigeration Capacity | Charge size | COP cool |
|------------------------|---------|--------------|------------------------------|---------------|-------|-----------|-------------|---------------------------|-------------|----------|
| | HFC | R22 | R22 | 1760 | 0.0 | No (A1) | MO and POE | 100.0% | 100.0% | 100.0% |
| | HFC | R407C | R407C | 1624 | 7.2 | No (A1) | POE | 94.8% | 93.7% | 96.6% |
| | HFC | R427A | Forane 427A | 1828 | 6.8 | No (A1) | POE | 90.5% | 92.9% | 96.0% |
| R22 | HFC | R438A | MO99 | 2059 | 3.6 | No (A1) | MO* and POE | 86.9% | 94.1% | 94.6% |
| | HFC | R422D | Genetron 422D Isceon MO29 | 2230 | 2.3 | No (A1) | MO* and POE | 85.0% | 92.7% | 89.8% |
| | HFC | R434A | RS 45 | 3245 | 1.3 | No (A1) | MO* and POE | 90.9% | 87.9% | 88.0% |
| | HFO/HFC | ? | Solstice N20 | 891 | | No (A1) | POE | | | |
| | HFO/HFC | R444B | Solstice L20 | 295 | 6.9 | Low (A2L) | POE | 94.3% | 84.1% | 97.2% |
| | HFC | R134a | R134a | 1300 | 0.0 | No (A1) | POE | 100.0% | 100.0% | 100.0% |
| | HFO/HFC | R450A | Solstice N13 | 547 | 0.6 | No (A1) | POE | 89.7% | 97.0% | 99.2% |
| | HFO/HFC | R513A | Opteon XP10 | 573 | 0.0 | No (A1) | POE | 107.6% | 94.2% | 95.5% |
| R134a | HFO | R1234yf | Solstice yf Opteon YF | <1 | 0.0 | Low (A2L) | POE | 94.0% | 90.0% | 94.6% |
| | HFO | R1234ze | Solstice ze | <1 | 0.0 | Low (A2L) | POE | 73.5% | 97.2% | 99.6% |
| | HFO/HFC | R516A | Forane 516A | 131 | | Low (A2L) | POE | 102.5% | 89.9% | 99.6% |
| | HFC | R404A | R404A | 3943 | 0.9 | No (A1) | POE | 100.0% | 100.0% | 100.0% |
| | HFC | R407A | Suva 407A | 1923 | 4.1 | No (A1) | POE | 94.4% | 111.0% | 108.2% |
| | HFC | R407F | Performax LT | 1674 | 4.3 | No (A1) | POE | 101.5% | 108.3% | 109.2% |
| | HFO/HFC | R448A | Solstice N40 | 1273 | 3.5 | No (A1) | POE | 102.6% | 106.8% | 107.5% |
| R404A | HFO/HFC | R449A | Opteon XP40 | 1282 | 3.3 | No (A1) | POE | 101.7% | 107.4% | 107.3% |
| | HFO/HFC | R449B | Forane 449B | 1296 | 3.4 | No (A1) | POE | 101.9% | 107.4% | 107.5% |
| | HFO/HFC | R452A | Opteon XP44 | 1945 | 1.8 | No (A1) | POE | 103.0% | 108.9% | 100.4% |
| | HFO/HFC | R455A | Solstice L40 | 145 | 8.2 | Low (A2L) | POE | 96.9% | 94.7% | 111.0% |
| | HFO/HFC | R465A | Forane 465A | 137 | | Low (A2L) | POE | 91.0% | 100.8% | 108.5% |
| | | 5464 | 2404 | 4004 | 0.4 | | 205 | 100.00/ | 100.00/ | 100.00/ |
| | HFC | R410A | R410A | 1924 | 0.1 | No (A1) | POE | 100.0% | 100.0% | 100.0% |
| D4404 | HFO/HFC | R446A | Solstice L41z | 715 | 4.0 | Low (A2L) | POE | 124.1% | 95.3% | 94.1% |
| R410A | HFO/HFC | R447A | Solstice L41 | 572 | 3.1 | Low (A2L) | POE | 128.1% | 96.9% | 94.3% |
| | HFO/HFC | R452B | Opteon XL55 | 675 | 0.5 | Low (A2L) | POE | 140.6% | 97.5% | 93.2% |
| | HFO/HFC | R459A | Forane 459A | 461 | | Low (A2L) | POE | 136.7% | 100.2% | 94.8% |
| R123 | HCFC | R123 | R123 | 79 | 0.0 | No (A1) | MO | 100.0% | 100.0% | 100.0% |
| K123 | HFO | R1233zd | Solstice zd | 1 | 0.0 | No (A1) | POE | 140.0% | 100.0% | |

Table shows % comparison of various attributes to refrigerant it is replacing.



Note: % above 100% is generally regarded as a better result for COP, Mass flow, and Refrigeration capacity.

% below 100% is a generally regarded as a better result for Compressor power, Discharge temp, and Charge size.



| Compressor Power [kW] | Mass Flow [m3/h] | Discharge Temperature [°C] | COP heat | Retrofit? | Additional notes |
|--------------------------|---------------------|----------------------------------|----------|-----------------------|--------------------------------------------------------------------------------------------------------|
| 100.0% | 100.0% | 100.0% | 100.0% | | |
| 103.5% | 105.4% | 89.2% | 97.4% | Suitable for retrofit | Higher glide and must have oil change. System flush required |
| 104.2% | 110.5% | 85.4% | 96.9% | Suitable for retrofit | Closest match to R22 with low discharge temperatures and lowest GWP. Oil change recommended |
| 105.7% | 115.1% | 80.3% | 95.8% | Suitable for retrofit | Higher GWP, low discharge temperature but lower capacity. Manufacturer claims no oil change required. |
| 111.3% | 117.7% | 74.7% | 92.1% | Suitable for retrofit | High GWP with lower COPs and capacity. Manufacturer claims no oil change required. |
| 113.6% | 110.0% | 74.9% | 90.7% | Suitable for retrofit | Very high GWP and lower COPs and low capacity |
| | | | | Suitable for retrofit | |
| 102.9% | 106.0% | 96.9% | 97.8% | New equipment only | |
| 100.0% | 100.0% | 100.0% | 100.0% | | |
| 100.9% | 111.4% | 92.4% | 99.4% | Suitable for retrofit | Closest match to R134a with low GWP |
| 104.8% | 93.0% | 88.7% | 96.6% | Suitable for retrofit | |
| 105.7% | 106.4% | 81.9% | 96.0% | New equipment only | Automotive A/C |
| 100.5% | 136.0% | 87.7% | 99.7% | New equipment only | A/C and refrigeration |
| 103.6% | 97.6% | 88.9% | 97.5% | New equipment only | |
| 100.0% | 100.0% | 100.0% | 100.0% | | |
| 92.4% | 106.0% | 126.0% | 105.2% | Suitable for retrofit | High GWP and high discharge temps |
| 91.6% | 98.5% | 138.3% | 105.8% | Suitable for retrofit | High GWP and very high discharge temperature. |
| 93.1% | 97.5% | 125.0% | 104.7% | Suitable for retrofit | Lower GWP. Improved COP but high discharge temperatures |
| 93.2% | 98.3% | 123.1% | 104.6% | Suitable for retrofit | Lower GWP. Improved COP but high discharge temperatures |
| 93.0% | 98.1% | 125.0% | 104.7% | Suitable for retrofit | Lower GWP. Improved COP but high discharge temperatures |
| 99.6% | 97.1% | 100.4% | 100.3% | Suitable for retrofit | Prefered option for low temperature transport refrigeration. |
| 90.1% | 103.2% | 117.4% | 106.9% | New equipment only | |
| 92.1% | 109.8% | 113.5% | 105.3% | New equipment only | |
| 100.0% | 100.0% | 100.0% | 100.0% | | |
| 106.2% | 80.6% | 105.3% | 95.4% | New equipment only | |
| 106.0% | 78.0% | 105.6% | 95.6% | New equipment only | |
| 107.3% | 71.1% | 101.3% | 94.7% | New equipment only | |
| 106.8% | 73.2% | 102.2% | 95.1% | New equipment only | |
| | | | | , , | |
| 100.0% | 100.0% | 100.0% | 100.0% | | |
| | | | | New equipment only | Low pressure chillers |

GWP based on AR5. Import of HFCs in Australia is limited by a quota system relative to the GWP of the imported refrigerants. Higher GWP refrigerants reduce total available quota volume so are likely to be higher priced.

*Mineral oil is only suitable for some applications. Oil changes are sometime quoted as "not required" but well maintained systems are likely to perform better and with longer life if POE is used. If mineral oil is used and the oil level is falling, top up with POE.

The data in these charts was derived using CYCLE_D (NIST) software.

Parameters used:

R134A SST=-5, SCT=45, SC=3 R404A SST=-25, SCT=40, SC=3 R22 SST=7, SCT=50, SC=3 R410A SST=7, SCT=50, SC=3

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The power/capacity figures don't take into account any changes in heat exchanger performance for retrofit options.



Factory fitted HP/LP

- Pre fitted for added value
- Reduces labour during installation

New AJ² Compressor

- Easy quick connect electrical connection
- Smaller than legacy model AJ compressors
- Quieter redesigned housing
- New valve plate design for higher efficiency





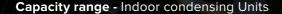
- New design reduces vibration Reduces risk of damage
- during transit Will stop people using it as a
- lifting point

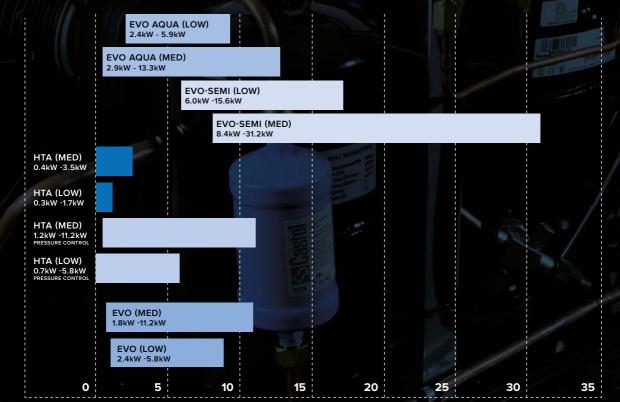
Flexible pressure lines

- Extended tails to distribute heat and increase reliability
- 4mm lines for durability

INDOOR VERSUS OUTDOOR ROUND ONE INDOOR CONDENSING UNITS

Bing bing, let's get ready to rumble. While both have their place within the industry it's important you consider which is best for your next job. To make the right choice, you need the right info. So introducing in our first competitor – our indoor units.





Capacity (kW)

COMPARING THE



TECUMSEH HTA HERMETIC REFRIGERATION CONDENSING UNIT

Medium Temperature Application Range: 0.4kW --- 3.5kW Low Temperature Application Range: 0.3kW --- 1.7kW

Tecumseh High Temperature Ambient (HTA) condensing units are fitted with the AE2 and CAJ range of Tecumseh compressors, giving you the most flexibility to connect the components that suit your customers specific needs.

Features:

- Fitted with Tecumseh Hermetic compressors. A world renowned compressor manufacturer
- Large HTA condenser to suit the Australia's extreme climate
- Copper tails on all Rotalock valves making installation quicker and easier



TECUMSEH HTA WITH PRESSURE CONTROL

Medium Temperature Application Range: 1.2kW --- 11.2kW Low Temperature Application Range: 0.7kW --- 5.8kW

Tecumseh High Temperature Ambient (HTA) condensing units are fitted with the CAJ, FH, TFH and TAG range of Tecumseh compressors. They come fitted with a dual pressure control and flexible pressure line for added safety and easy installation.

Features:

- All the features of the Tecumseh HTA
- Reworked discharge tube to reduce vibration
- Flexible pressure lines with extended tails to distribute heat and increase reliability
- HP/LP pre fitted to reduce labour during installation





TECUMSEH EVO-AQUA WATER-COOLED REFRIGERATION CONDENSING UNIT

Medium Temperature Application Range: 2.9kW --- 13.3kW Low Temperature Application Range: 2.4kW --- 5.9kW

Tecumseh's line of water cooled condensing units are the perfect alternative when air cooled units are impractical due to excessively high ambient temperatures or excessive fan noise.

All water-cooled models utilise performance proven reciprocating compressors and high-quality brazed plate condensers. The high efficiency, low operating pressures primary advantages of the water-cooled design ensuring optimum performance.

Features:

- · Tecumseh Hermetic compressor
- Brazed plate condenser
- Noise advantage compared to air-cooled condensing units
- Consistent operation conditions provided by constant condensing water temperatures
- Suction accumulator on low temperature models
- Complete factory wiring: Compressor contactor Thermal overload, HP/LP control. circuit breakers



TECUMSEH EVO HERMETIC REFRIGERATION CONDENSING UNIT

Medium Temperature Application Range: 1.8kW --- 11.2kW Low Temperature Application Range: 2.4kW --- 5.8kW

The Tecumseh Evo condensing unit range is fully factory fitted allowing an exceptionally quick installation. Every Evo unit includes all the required vessels and is fully wired to a factory fitted electrical enclosure with contactor, overload, circuit breakers and HP/LP control.

Features:

- Fitted with Tecumseh Hermetic compressors. A world renowned compressor manufacturer
- Large HTA condenser to suit the Australia's extreme climate
- Complete factory wiring: compressor contactor/overload, HP/LP and control circuit breakers
- Oil Separator fitted to all models, Suction accumulator fitted to low temperature models.
- Liquid line assembly including drier and sight glass fitted for quick installation



TECUMSEH EVO-SEMI HERMETIC REFRIGERATION CONDENSING UNIT

Medium Temperature Application Range: 8.4kW --- 31.2kW Low Temperature Application Range: 6.0kW --- 15.6kW

This range of semi-hermetic condensing units are fully fitted and wired to make installation fast and efficient. EVO Semi has been designed to operate efficiently in both the hot and cold extremes of the Australian environment. The range is designed for R134a, R404A, R407F and R507 and can be applied in both low and medium temperature applications.

Features:

- High ambient temperature capability designed for Australia's extreme climate
- Oil Separator, Suction accumulator and liquid line assembly fitted to all models to make the installation process quick and easy
- Carel fan speed controller fitted to EBM fans for complete condensing pressure control
- Fully Wired including circuit breakers, contactor, electronic overload and spare DIN rail in an enclosure
- Fitted with Tecumseh Semi-Hermetic compressors. A world-renowned compressor manufacturer

Now we've introduced you to our indoor condensing unit range, lets find out which evaporator combo is going to suit your needs best. Using the simple selection table below you can now take some of the guess work out of sizing up your next cool room or freezer.

INDOOR STANDARD COMBO KITS

MEDIUM TEMPERATURE R404A

| | | | | To suit room dimensions (External) | | | | | |
|----------|-----------------------------|-----------------|-------------|------------------------------------|------------|------------|---------------------|--|--|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) | | |
| 3535007 | 1406 | CAJT9480ZMHR | CH4B1/30-1* | 1.0 | 2.0 | 2.4 | 4.8 | | |
| 3535008 | 1760 | CAJT9510ZMHR | CH4C1/30-1 | 2.0 | 2.0 | 2.4 | 9.6 | | |
| 3535009 | 2263 | CAJT9513ZMHR | CH4B1/35-1 | 2.0 | 3.0 | 2.4 | 14.4 | | |
| 3535010 | 2480 | CAJT4517ZHR | CH4C1/35-1 | 3.0 | 3.0 | 2.4 | 21.6 | | |
| 3535011 | 3297 | CAJT4519ZHR | CH4D1/35-1 | 3.0 | 4.0 | 2.4 | 28.8 | | |
| 3535012 | 3887 | FHT4524ZHR | CH4C2/30-1 | 4.0 | 4.0 | 2.4 | 38.4 | | |
| 3535013 | 5292 | FHT4531ZHR | CH4C2/35-1 | 5.0 | 5.0 | 2.4 | 60.0 | | |
| 3535014 | 6344 | FHT4540ZHR | CH4D2/35-1 | 6.0 | 6.0 | 2.4 | 86.4 | | |

MEDIUM TEMPERATURE R134a

| | | | | To suit room dimensions (External) | | | | |
|----------|-----------------------------|-----------------|-------------|------------------------------------|------------|------------|---------------------|--|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) | |
| 3535015 | 1161 | CAJT4476YHR | CH4B1/30-1* | 1.0 | 2.0 | 2.4 | 4.8 | |
| 3535016 | 1509 | CAJT4492YHR | CH4C1/30-1 | 2.0 | 2.0 | 2.4 | 9.6 | |
| 3535017 | 1944 | CAJT4511YHR | CH4B1/35-1 | 2.0 | 3.0 | 2.4 | 14.4 | |
| 3535018 | 2991 | FHT4518YHR | CH4D1/35-1 | 3.0 | 3.0 | 2.4 | 21.6 | |
| 3535019 | 3915 | FHT4525YHR | CH4B2/35-1 | 4.0 | 4.0 | 2.4 | 38.4 | |

LOW TEMPERATURE R404A

| | | | | To suit room dimensions (External) | | | | | |
|----------|-----------------------------|-----------------|-------------|------------------------------------|------------|------------|---------------------|--|--|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) | | |
| 3535020 | 625 | CAJT2428ZBR | PCL60* | 1.0 | 1.0 | 2.4 | 2.4 | | |
| 3535021 | 762 | CAJT2432ZBR | PCL80* | 1.0 | 1.2 | 2.4 | 2.9 | | |
| 3535022 | 1110 | CAJT2446ZBR | PCL120 | 1.0 | 1.6 | 2.4 | 3.8 | | |
| 3535023 | 1501 | CAJT2464ZBR | CH4C1/30E-1 | 1.0 | 2.0 | 2.4 | 4.8 | | |
| 3535024 | 2166 | FHT2480ZBR | CH4C1/35E-1 | 2.0 | 2.0 | 2.4 | 9.6 | | |
| 3535025 | 2931 | FHT2511ZBR | CH4E1/35E-1 | 2.0 | 3.0 | 2.4 | 14.4 | | |

^{*}internally equalised expansion value required.

INDOOR FITTED COMBO KITS

MEDIUM TEMPERATURE R404A

| | | | To suit room dimensions (External) | | | | |
|----------|-----------------------------|-----------------|------------------------------------|-----------|---------------|---------------|------------------------|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) |
| 3535026 | 1760 | EPCH9510Z-1PH | CH4C1/30-1 W/Evd Ice | 2.0 | 2.0 | 2.4 | 9.6 |
| 3535027 | 2263 | EPCH9513Z-1PH | CH4B1/35-1 W/Evd Ice | 2.0 | 3.0 | 2.4 | 14.4 |
| 3535028 | 2480 | EPCH4517Z-1PH | CH4C1/35-1 W/Evd Ice | 3.0 | 3.0 | 2.4 | 21.6 |
| 3535029 | 3297 | EPCH4519Z-1PH | CH4D1/35-1 W/Evd Ice | 3.0 | 4.0 | 2.4 | 28.8 |
| 3535030 | 3887 | EPCH4524Z-1PH | CH4C2/30-1 W/Evd Ice | 4.0 | 4.0 | 2.4 | 38.4 |
| 3535031 | 5292 | EPCH4531Z-1PH | CH4C2/35-1 W/Evd Ice | 5.0 | 5.0 | 2.4 | 60.0 |
| 3535032 | 6344 | EPCH4540Z-3PH | CH4D2/35-1 W/Evd Ice | 6.0 | 6.0 | 2.4 | 86.4 |

MEDIUM TEMPERATURE R134a

| | | | | | | To suit room dimensions (External) | | | |
|----------|-----------------------------|-----------------|----------------------|-----------|---------------|------------------------------------|---------------------|--|--|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) | | |
| 3535033 | 2991 | EPCH4518Y-1PH | CH4D1/35-1 W/Evd Ice | 3.0 | 3.0 | 2.4 | 21.6 | | |
| 3535034 | 3915 | EPCH4525Y-1PH | CH4B2/35-1 W/Evd Ice | 4.0 | 4.0 | 2.4 | 38.4 | | |

LOW TEMPERATURE R404A

| | | | | To suit room dimensions (External) | | | | |
|----------|-----------------------------|-----------------|-----------------------|------------------------------------|---------------|---------------|---------------------|--|
| Kit code | Nominal Capacity (Watts) | Condensing unit | Evaporator | Width (m) | Length (m) | Height (m) | Room Volume (m3) | |
| 3535035 | 2166 | EPCL2480Z-1PH | CH4C1/35E-1 W/Evd Ice | 2.0 | 2.0 | 2.4 | 9.6 | |

Keep your eyes on the next edition of The Gauge to meet our outdoor refrigeration condensing units – or if you simply can't wait – Ask your local Actrol branch to show you the range and combo kits available.

Disclaimer.

*Internally equalised expansion valve required

Nominal compressor capacity based on:

Cool Room @ -4°C SST, 38°C Ambient Freezer Room @ -24°C SST, 38°C Ambient

Cool Room heat load based on:

Product load of 350kg, entering per day at 12'C, heavy usage, product specific heat: 3.4 kj/kg K, 75mm cool room panel, 16hr run time, 24 hour pull down time.

Freezer Room heat load based on:

Product load of 350kg, entering per day at -10°C, heavy usage, product specific heat below freezing: 1.5 kj/kg K, 150mm cool room panel, 18hr run time, 24 hour pull down time.

We recommend that the above the information be used as a guide only, and that each particular application be referred to Actrol for selection advice.

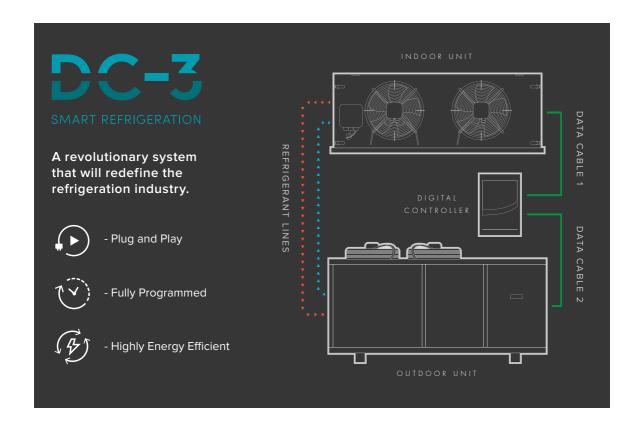
WHAT'S HAPPENING WITH DC-3 SMART REFRIGERATION?

It's time for an update! As well as strenuous testing in our national lab situated in Melbourne, we have installed two field trails which are screaming with rave reviews!

While we are still testing these units, we are starting to see some enormous benefits when installing a DC-3 system over a standard refrigeration system, and we think some of this might grab your attention:

- Simple to select with only four models, the range of these units means more flexibility
- Decreased install time plug and play technology means trouble free installation and commissioning.
- Energy efficient the return on investment means an easy sell to your customers
- World leading brands with the reliability of SCI, Carel,
 Tecumseh and Cabero you know these are built to last
- Innovative Technology this is the first of it's kind in the commercial refrigeration space, this is your chance to be an innovator and lead the pack.





FIELD TRIAL — CAIRNS, SEAFOOD STOREROOM









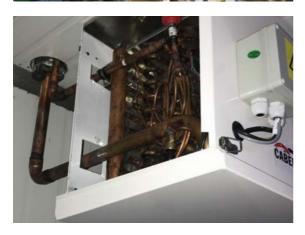


FIELD TRIAL — BANGALOW, BOTTLE SHOP













The Reece Grant is committed to supporting initiatives in local and international communities, and helping apprentices and the youth of Australia gain important vocational skills to benefit their futures.



Aiding communities worldwide

A great opportunity to transform the health and wellbeing of entire communities across the world.



LOCAL

Supporting Australian projects

Every day we see trades making a difference. Here's your chance to help improve the lives of those less fortunate.



NEXT GEN

Elevating the next generation

By supporting our apprentices, we can arm the youth of today with the skills to make a difference tomorrow.

Learn how you can support healthier, brighter futures for the next generation, here and abroad.

reecegrant.com.au



Book keeping just got easier

maX now integrates with Xero and MYOB



actrol.com.au/integrations

NEWS

THANK YOU FOR MAKING A DIFFERENCE!

Purchased a drink in one of our branches lately? If yes, then you have helped raise over \$100,000 dollars already for the Reece Grant! With 100% of profits from our drinks sales in our network funding the Reece Grant, we'd like to say thank you for your contribution!

If you, or someone you know is doing good for their local community, making a difference overseas or you know a student who could use a hand with tools or tuition find out more information or apply at reecegrant.com.au the reece grant



BRANCH UPDATES

Talk about a big few months, we continue to invest in our branches and are proud to show off three new stores in our network which have recently relocated.

If you're close by, make sure you pop down and check out these new locations and ask how we can help benefit your business.

ACTROL MILDURA

Introducing our first multisite in Victoria with Ian Ditchburn and the Actrol Mildura team joining a previous Reece Plumbing site.

13-17 Seventh Street East, Mildura, VIC, 3500. (03) 5055 2340

ACTROL WAGGA WAGGA

Previously on the other side of town, Michael Rosetta and his team made the big move across the railway.

57 Dobney Avenue, Wagga Wagga, NSW, 2650. (02) 5942 6070

ACTROL HOBART

Make sure you pop down and say hi to Simon Boucher and the team in the nearby suburb of Moonah.

6 Effingham Street, Moonah, TAS, 7009. (03) 6277 1310



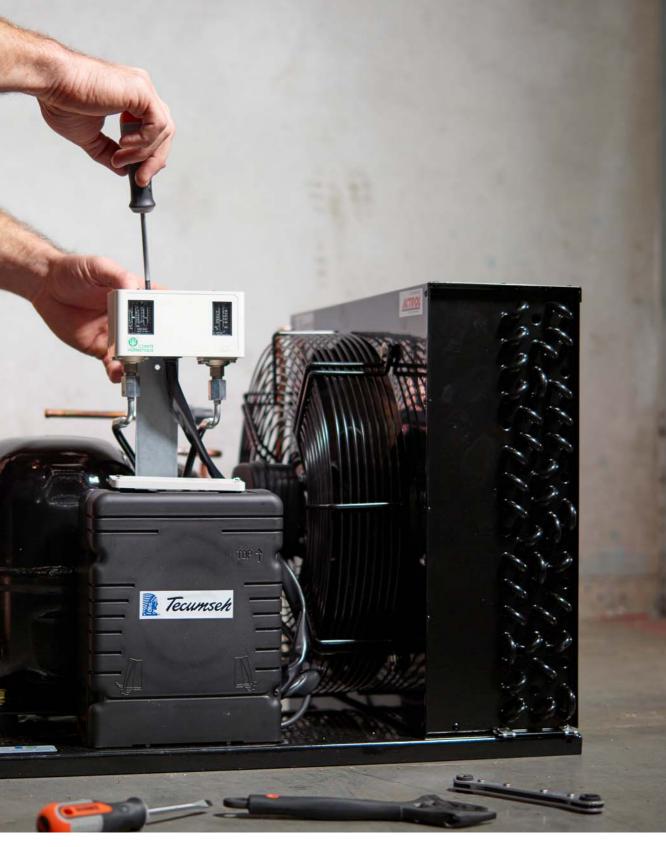
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