

DERBY HIGH WALL SPLIT INVERTER - TECHNICAL SPECIFICATIONS

| DERBY INDOOR/OUTDOOR MODEL | | | iDWM-Z26 | iDWM-Z35 | iDWM-Z50 | iDWM-Z70 |
|--|--------------------|-------|----------------------|----------------------|----------------------|----------------------|
| MEPS Compliance Levels (AS/NZS 3823.2:2009) | | | 2011, QLD & SA | 2011, QLD & SA | 2011, QLD & SA | 2011, QLD & SA |
| Cooling | Rated Capacity | kW | 2.60 (0.6-3.3) | 3.30 (1.1-4.0) | 5.00 (2.3-5.6) | 6.75 (3.5-7.0) |
| | Rated Current | A | 3.20 | 4.20 | 6.90 | 9.50 |
| | Rated EER | | 3.77 | 3.75 | 3.25 | 3.25 |
| | Rated AEER | | 3.76 | 3.74 | 3.24 | 3.24 |
| | Power Consumption | W | 690 | 880 | 1540 | 2080 |
| Heating | Rated Capacity | kW | 2.90 (0.9-3.9) | 3.80 (1.2-4.2) | 5.30 (2.3-5.7) | 7.30 (3.2-7.9) |
| | Rated Current | A | 3.60 | 4.60 | 7.00 | 9.50 |
| | Rated COP | | 3.80 | 3.80 | 3.40 | 3.40 |
| | Rated ACOP | | 3.71 | 3.72 | 3.34 | 3.36 |
| | Power Consumption | W | 760 | 1000 | 1560 | 2150 |
| Power Supply | Ph-V-Hz | | 220-240V/1/50 | 220-240V/1/50 | 220-240V/1/50 | 220-240V/1/50 |
| Plug Type | A | | 1.5x3/VDE (10A) | 1.5x3/VDE (10A) | No | No |
| Moisture Removal | L/hr | | 1.0 | 1.2 | 1.8 | 2.6 |
| Ambient temp (cooling/heating) | °C | | 18-50/-15-34 | 18-50/-15-34 | 18-50/-15-34 | 18-50/-15-34 |
| Piping Connection | Liq./Gas/Drain | mm | Ø6.35/Ø9.53/ID Ø16.5 | Ø6.35/Ø12.7/ID Ø16.5 | Ø6.35/Ø12.7/ID Ø16.5 | Ø9.53/Ø16.0/ID Ø16.5 |
| | Max. Length | m | 20 | 20 | 20 | 25 |
| | Max. Height | m | 8 | 8 | 8 | 10 |
| INDOOR UNIT | | | iDWMG-Z26 | iDWMG-Z35 | iDWMG-Z50 | iDWMG-Z70 |
| Sage Code | | | 857630 | 857632 | 857634 | 857638 |
| Nominal air flow rate (Hi/Me/Low) | m³/h | | 630/520/420 | 700/560/480 | 780/680/580 | 1070/1020/860 |
| Sound pressure level at 1m | dB(A) | | 38/32/27 | 40/36/29 | 44/40/33 | 49/46/42 |
| Unit Dimensions (H x W x D) | mm | | 265 x 790 x 195 | 292 x 920 x 225 | 292 x 920 x 225 | 330 x 1080 x 228 |
| Packing Dimensions (H x W x D) | mm | | 375 x 875 x 285 | 368 x 1015 x 295 | 368 x 1015 x 295 | 445 x 1165 x 320 |
| Net/Gross Weights | Kg | | 9/11 | 11.5/14.5 | 12/15 | 15.5/20.5 |
| OUTDOOR UNIT | | | iDWMZ-Z26 | iDWMZ-Z35 | iDWMZ-Z50 | iDWMZ-Z70 |
| Sage Code | | | 857631 | 857633 | 857635 | 857639 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Charging weight 5m | Kg | 0.93 | 1.07 | 1.18 | 1.9 |
| | Extra Charge per m | grams | 20 | 20 | 20 | 40 |
| Nominal air flow rate | m³/h | | 1800 | 1800 | 2200 | 3500 |
| Noise level (sound pressure level at 1m.) | dB(A) | | 53 | 55 | 56 | 57 |
| Noise level (sound power level) (high speed) | dB(A) | | 60 | 62 | 65 | 67 |
| Unit Dimensions (H x W x D) | mm | | 590 x 760 x 285 | 590 x 760 x 285 | 590 x 760 x 285 | 860 x 895 x 330 |
| Packing Dimensions (H x W x D) | mm | | 645 x 887 x 355 | 645 x 887 x 355 | 645 x 887 x 355 | 915 x 1043 x 395 |
| Net/Gross Weights | Kg | | 35.5/39 | 36/40 | 40.5/43 | 63.5/67.5 |

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Derby Inverter
Wall Split Systems

| | | |
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Derby Inverter Wall Split Systems



Why Choose an Inverter Model?

Inverter Air Conditioning technology allows air conditioners to be more powerful whilst being more energy efficient at the same time.

Conventional air conditioners work at a standard fixed speed but inverter air conditioners work a bit like the accelerator of a car, increasing or decreasing power consumption as it is needed. Inverter systems can offer significant energy savings to users, even up to 30% compared to a standard air conditioning unit (though customers should note that this sort of saving is only achieved if the unit is in constant use for extended periods of time)

Put another way - Conventional air conditioners operate their compressors at a fixed speed and therefore deliver a fixed amount of power. As a result the compressor must continually stop and start to maintain the desired room temperature.

This is not energy efficient and the continual stopping and starting can be quite annoying as well. Inverter driven compressors, on the other hand, vary the speed of the compressors, delivering precise cooling or heating power as required.

When the compressor operates at a high speed, the amount of refrigerant flow through the system increases, increasing the cooling or heating capacity. Conversely, when the compressor operates at a low speed (during moderate outside temperatures for example), the amount of refrigerant flowing through the system decreases, thus decreasing the capacity.

When the inverter air conditioner is switched on, the compressor operates at a high speed in order to cool or heat the room quickly. As the room temperature approaches the set temperature, the compressor slows down, maintaining a constant temperature and saving energy.

If there is a sudden fluctuation in the room temperature, the air conditioner senses this and instantly adjusts itself to bring the room temperature back to the set temperature. Not only do inverter air conditioners use less electricity to operate, they are also highly energy efficient.

Inverter air conditioning systems are more environmentally friendly than standard units and therefore should be considered by anyone considering purchasing an air conditioning system.



Derby Inverter Wall Split Systems

Derby Inverter Wall Splits are the convenient way to heat or cool a room or space in your home.

Installation requires minimum disruption to the house, just a small hole through an outside wall to take the refrigerant pipes and power lines, some wiring work and the unit can be installed quickly and easily by a qualified technician.

Features



Auto Restart Function
The unit automatically returns to previous function after power resumes.



LED Display
Control Panel Adopts LED Display



Turbo Mode
This enables the unit to reach the preset temperature in the shortest time.



Sleep Mode
Allows the unit to automatically increase (cooling) or decrease (heating) one degree per hour for first 2 hours then hold steady for 5 hours, after which the unit will stop. This maintains a comfortable sleeping environment and conserves energy use.

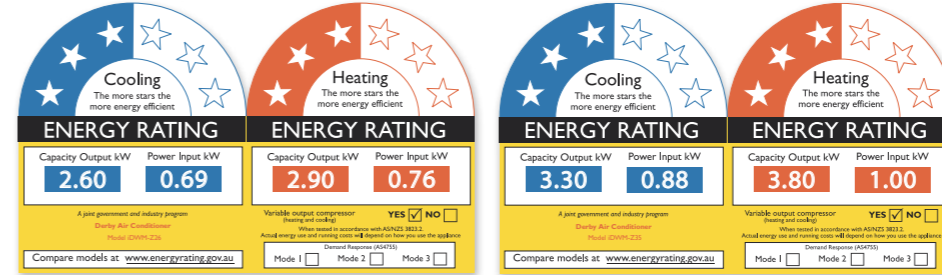


Temperature Compensation
Ceiling temperature is often higher than floor temperature. This function can automatically eliminate the temperature difference



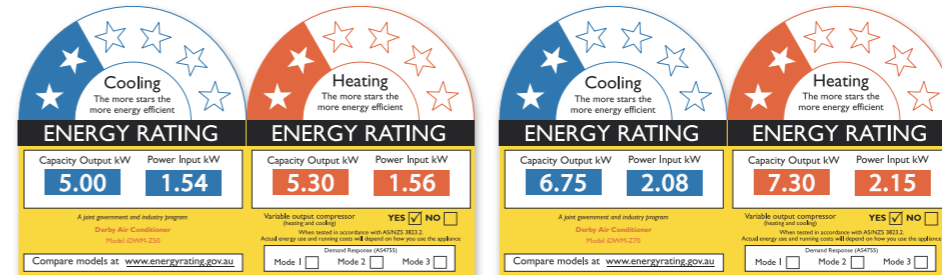
Two Direction Air Vane Technology
In cooling mode, the air vane opens counterclockwise, which directs the air horizontally. It allows rapid and evenly distributed temperature fall. In heating mode, the air vane opens clockwise, which directs the air towards the floor. It allows rapid and evenly distributed temperature rise.

Energy Ratings



iDWM-Z26

iDWM-Z35



iDWM-Z50

iDWM-Z70

Model Lineup

| SAGE CODE | DESCRIPTION | DERBY MODEL NO | DERBY COMPLETE SYSTEM NAME |
|-----------|---|----------------|----------------------------|
| 857630 | UNIT DERBY SPLIT INVERTER iDWMG-Z26 INDOOR | iDWMG-Z26 | iDWM-Z26 2.6kW |
| 857631 | UNIT DERBY SPLIT INVERTER iDWMZ-Z26 OUTDOOR | iDWMZ-Z26 | |
| 857632 | UNIT DERBY SPLIT INVERTER iDWMG-Z35 INDOOR | iDWMG-Z35 | iDWM-Z35 3.3kW |
| 857633 | UNIT DERBY SPLIT INVERTER iDWMZ-Z35 OUTDOOR | iDWMZ-Z35 | |
| 857634 | UNIT DERBY SPLIT INVERTER iDWMG-Z50 INDOOR | iDWMG-Z50 | iDWM-Z50 5.0kW |
| 857635 | UNIT DERBY SPLIT INVERTER iDWMZ-Z50 OUTDOOR | iDWMZ-Z50 | |
| 857638 | UNIT DERBY SPLIT INVERTER iDWMG-Z70 INDOOR | iDWMG-Z70 | iDWM-Z70 6.75kW |
| 857639 | UNIT DERBY SPLIT INVERTER iDWMZ-Z70 OUTDOOR | iDWMZ-Z70 | |



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