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## R32 Inverter Midwall Split Air conditioner

- Heating and Cooling
- Flash Cooling – Cool function Boost Function
- LED temperature display
- Self-Diagnosis
- Refrigerant Leakage Detection
- Low noise operation
- Wi-fi compatible
- Pipe-kit included



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**UtilityPal**

# Alliance Emerald R32 Inverter



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The Alliance Emerald Midwall split is an elegantly designed unit that enhances any room or office space. With a high cooling and heating capacity, and high EER and COP, this midwall split is suitable for climate control, as it delivers even airflow. The unit is exceptionally quiet to operate (on a low setting) with an indoor noise level of 23.5 dB(A).



| Indoor                                                      |                                |          | FOUSI09-R32                              | FOUSI12-R32                              | FOUSI18-R32                   | FOUSI24-R32                 |             |
|-------------------------------------------------------------|--------------------------------|----------|------------------------------------------|------------------------------------------|-------------------------------|-----------------------------|-------------|
| Power supply                                                |                                | V-Ph-Hz  | 220_230V_1Ph,FREQUENCY_50HZ              | 220_240V_1Ph,FREQUENCY_50HZ              | 220V_1Ph,FREQUENCY_50HZ       | 220V_1Ph,FREQUENCY_50HZ     |             |
| Cooling<br>(Standard conditions)                            | Capacity                       | W        | 2600                                     | 3500                                     | 5300                          | 7000                        |             |
|                                                             | Input                          | W        | 824                                      | 1144                                     | 1627                          | 2220                        |             |
|                                                             | Current                        | A        | 3,58                                     | 5,03                                     | 7,48                          | 9,65                        |             |
|                                                             | EER                            | W/W      | 3.2/A                                    | 3.1/B                                    | 3.2/A                         | 3.2/A                       |             |
| Heating<br>(Standard conditions)                            | Capacity                       | W        | 2600                                     | 3600                                     | 5300                          | 7000                        |             |
|                                                             | Input                          | W        | 775                                      | 1015                                     | 1550                          | 1901                        |             |
|                                                             | Current                        | A        | 3,44                                     | 4.5                                      | 7,1                           | 8                           |             |
|                                                             | COP                            | W/W      | 3,4                                      | 3.61                                     | 3,4                           | 3,70                        |             |
| Rated Power Input                                           |                                | W        | 2200                                     | 2070                                     | 2950                          | 2850                        |             |
| Rated Current                                               |                                | A        | 10,5                                     | 9.2                                      | 13,5                          | 13.5                        |             |
| Starting current                                            |                                | A        | /                                        | 0                                        | 0                             | 0                           |             |
| Compressor                                                  | Capacity                       | W        | 2300 ±3%                                 | 2035/3255                                | 4385                          | 4730                        |             |
|                                                             | Input                          | W        | 605 ±3%                                  | 325/826                                  | 1140                          | 1250                        |             |
|                                                             | Rated current(RLA)             | A        | 4.20 ±3%                                 | 2.40/5.65                                | 7.50                          | 8.10                        |             |
| Indoor fan motor                                            | Input                          | W        | 43                                       | /                                        | 71                            | 77                          |             |
|                                                             | Capacitor                      | uF       | 1.5                                      | 1.5                                      | 1.5                           | 3                           |             |
|                                                             | Speed(Hi/Mi/Lo)                | r/min    | 1150/890/760                             | 1150/940/735                             | 1200/980/650                  | 1200/1040/880               |             |
| Indoor coil                                                 | a.Number of rows               |          | 2                                        | 2                                        | 2                             | 2                           |             |
|                                                             | b.Tube pitch(a)x row pitch(b)  | mm       | 21x13.37                                 | 21x13.37                                 | 21x13.37                      | 21x13.37                    |             |
|                                                             | c.Fin spacing                  | mm       | 1.2/1.3                                  | 1.2/1.3                                  | 1.2                           | 1.3                         |             |
|                                                             | d.Fin type (code)              |          | Hydrophilic aluminium                    | Hydrophilic aluminium                    | Hydrophilic aluminum          | Hydrophilic aluminum        |             |
|                                                             | e.Tube outside dia.and type    | mm       | Ø7,innergroove tube                      | Ø7,innergroove tube                      | Ø7,Inner groove tube          | Ø7,Inner groove tube        |             |
|                                                             | f.Coil length x height x width | mm       | 525x84x13.37+525x105x26.74+525x105x26.74 | 525x84x13.37+525x105x26.74+525x105x26.74 | 750x210x26.74+750x126x26.74   | 820x210x26.74+820x126x26.74 |             |
|                                                             | g.Number of circuits           |          | 2                                        | 2                                        | 4                             | 4                           |             |
| Indoor air flow (Hi/Mi/Lo)                                  |                                | m3/h     | 534/397/332                              | 520/440/400                              | 760/580/490                   | 1150/940/850                |             |
| Indoor noise level (Hi/Mi/Lo)                               |                                | dB(A)    | 40.0/34/32                               | 38.5/34.5/23.5                           | 44.5/38/34.5                  | 49.5/44/36.5                |             |
| Indoor unit                                                 | Dimension(W*D*H)               | mm       | 729x200x292                              | 729x200x292                              | 971x228x321                   | 1082x234x337                |             |
|                                                             | Packing (W*D*H)                | mm       | 790x270x375                              | 790x270x375                              | 1045x305x405                  | 1155x415x315                |             |
|                                                             | Net/Gross weight               | kg       | 8.2/10.5                                 | 8.1/10.3                                 | 11.7/15                       | 14.1/17.8                   |             |
| Outdoor                                                     |                                |          | FOUSI09X-R32                             | FOUSI12X-R32                             | FOUSI18X-R32                  | FOUSI24X-R32                |             |
| Outdoor fan motor                                           |                                | Speed    | r/min                                    | 810/700                                  | 800/700/600                   | 850/550                     | 900/700/550 |
| Outdoor coil                                                | a.Number of rows               |          | 1                                        | 1                                        | 2                             | 2                           |             |
|                                                             | b.Tube pitch(a)x row pitch(b)  | mm       | 21x22                                    | 21x13.37                                 | 21x13.37                      | 21x22                       |             |
|                                                             | c.Fin spacing                  | mm       | 1.3                                      | 1.4                                      | 1.4                           | 1.3                         |             |
|                                                             | d.Fin type (code)              |          | Unhydrophilic aluminium                  | Hydrophilic aluminum                     | Hydrophilic aluminum          | Hydrophilic aluminum        |             |
|                                                             | e.Tube outside dia.and type    | mm       | Ø7,Inner groove tube                     | Ø7,Inner groove tube                     | Ø7,Inner groove tube          | Ø7,Inner groove tube        |             |
|                                                             | f.Coil length x height x width | mm       | 600x420x22                               | 750x462x13.37                            | 755*504*13.37+735*504*13.37   | 860*504*44                  |             |
|                                                             | g.Number of circuits           |          | 2                                        | 2                                        | 4                             | 6                           |             |
| Outdoor air flow                                            |                                | m³/h     | 1300                                     | 1800                                     | 2100                          | 2500                        |             |
| Outdoor noise level                                         |                                | dB(A)    | 52.5                                     | 56                                       | 57                            | 57.5                        |             |
| Outdoor unit                                                | Dimension(W*D*H)               | mm       | 668x252x469                              | 720x270x495                              | 765x303x555                   | 805x330x554                 |             |
|                                                             | Packing (W*D*H)                | mm       | 765x270x525                              | 835x300x540                              | 887x337x610                   | 915x370x615                 |             |
|                                                             | Net/Gross weight               | kg       | 18.5/19.9                                | 21.4/23.2                                | 27.5/29.9                     | 33/35.6                     |             |
| Refrigerant type                                            |                                | kg       | R32/0.47                                 | R32/0.58                                 | R32/1.02                      | R32/1.25                    |             |
| Design pressure                                             |                                | MPa      | 4.2/1.5                                  | 4.3/1.7                                  | 4.3/1.7                       | 4.3/1.7                     |             |
| Refrigerant piping                                          | Liquid side/ Gas side          | mm(inch) | 6.35mm(1/4in)/9.52mm(3/8in)              | 6.35mm(1/4in)/9.52mm(3/8in)              | 6.35mm(1/4in)/12.7mm(1/2in)   | 9.52mm(3/8in)/15.9mm(5/8in) |             |
|                                                             | Max. refrigerant pipe length   | m        | 25                                       | 25                                       | 30                            | 30                          |             |
|                                                             | Max. difference in level       | m        | 10                                       | 10                                       | 20                            | 20                          |             |
| Connection wiring                                           |                                |          | 1.5x4//                                  | 1.5x4//                                  | 1.5x4//                       | 1.5x4//                     |             |
| Plug type                                                   |                                |          | 1.5x3/VDE plug                           | 1.5x3/VDE plug                           | 1.5x3/Argentinian 3 Pins Plug | //no-plug                   |             |
| Thermostat type                                             |                                |          | (Remote Control)                         | (Remote Control)                         | (Remote Control)              | (Remote Control)            |             |
| Operation temperature (According to remote control setting) |                                |          | C°                                       | 17-30                                    | 17-30                         | 17-30 17-30                 |             |
| Room temperature                                            | Indoor(cooling/ heating)       | C°       | 16-32/0-30                               | 16-32/0-30                               | 16-32/0-30                    | 16-32/0-30                  |             |
|                                                             | Outdoor(cooling/heating)       | C°       | 0-50/-15-24                              | -15-50/-15-24                            | 0-50/-15-24                   | 0-50/-15-24                 |             |
| Application area (Cooling Standard)                         |                                | m²       | 12-18                                    | 16-23                                    | 24-35                         | 29-43                       |             |

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