

1. Specification

Wind-Free 4Way Cassette

| Model Name | Indoor Unit | | | AC120RN4DKG/EU | AC120RN4DKG/EU | AC140RN4DKG/EU | AC140RN4DKG/EU | |
|--------------------|-----------------------------|-----------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|
| | Outdoor Unit | | | AC120RXADKG/EU | AC120RXADNG/EU | AC140RXADKG/EU | AC140RXADNG/EU | |
| Mode | | | | - | HEAT PUMP | HEAT PUMP | HEAT PUMP | HEAT PUMP |
| Performance | Capacity (Min/Std/Max) | Cooling | kW | 3.5 / 12.0 / 13.5 | 3.5 / 12.0 / 13.5 | 3.5 / 13.4 / 15.5 | 3.5 / 13.4 / 15.5 | |
| | | | Btu/h | 11,940 / 41,000 / 46,100 | 11,940 / 41,000 / 46,100 | 11,940 / 45,720 / 52,900 | 11,940 / 45,720 / 52,900 | |
| | | Heating | kW | 3.5 / 13.2 / 15.5 | 3.5 / 13.2 / 15.5 | 3.5 / 15.5 / 18.0 | 3.5 / 15.5 / 18.0 | |
| | | | Btu/h | 11,940 / 45,040 / 52,900 | 11,940 / 45,040 / 52,900 | 11,940 / 52,900 / 61,420 | 11,940 / 52,900 / 61,420 | |
| Power | Power Input (Min/Std/Max) | Cooling | kW | 0.90 / 4.60 / 5.30 | 0.90 / 4.45 / 5.50 | 0.80 / 4.62 / 6.45 | 0.80 / 4.62 / 6.60 | |
| | | Heating | kW | 0.75 / 4.15 / 5.60 | 0.75 / 4.05 / 6.40 | 0.70 / 4.90 / 7.36 | 0.70 / 4.76 / 7.50 | |
| | Current Input (Min/Std/Max) | Cooling | A | 4.3 / 20.1 / 24.0 | 2.1 / 6.8 / 10.0 | 3.7 / 20.0 / 28.0 | 2.1 / 7.1 / 10.5 | |
| | | Heating | A | 3.7 / 18.2 / 26.0 | 2.1 / 6.3 / 12.0 | 3.5 / 21.3 / 32.0 | 1.9 / 7.3 / 12.0 | |
| | Current | MCA | A | 25.0 | 171 | 33.0 | 171 | |
| | | MFA | A | 30.0 | 171 | 40.0 | 171 | |
| Efficiency | EER | Cooling | - | 2.60 | 2.69 | 2.90 | 2.90 | |
| | COP | Heating | - | 3.18 | 3.26 | 3.16 | 3.25 | |
| | SEER (Cooling Energy Grade) | | - | 6.0 (A+) | 6.0 (A+) | 6.6 (-) | 6.6 (-) | |
| | SCOP (Heating Energy Grade) | | - | 4.0 (A+) | 4.0 (A+) | 4.3 (-) | 4.3 (-) | |
| | Pdesignh | | kW | 6.5 | 6.5 | 8.4 | 8.4 | |
| Piping Connections | Liquid Pipe | | Type | Flare connection | Flare connection | Flare connection | Flare connection | |
| | | | Φ, mm (inch) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | |
| | Gas Pipe | | Type | Flare connection | Flare connection | Flare connection | Flare connection | |
| | | | Φ, mm (inch) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | |
| | Heat Insulation | | - | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes | Both liquid and gas pipes | |
| | Piping length (ODU-IDU) | Standard | m | 5 | 5 | 5 | 5 | |
| | | | Max. | m | 50 | 50 | 75 | 75 |
| Elevation | | | m | 30 | 30 | 30 | 30 | |
| Chargeless | | | m | 30 | 30 | 30 | 30 | |
| Wiring connections | Communication | Min. | mm ² | 0.75 | 0.75 | 0.75 | 0.75 | |
| | | Remark | - | F1, F2 | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Type | | - | R32 | R32 | R32 | R32 | |
| | Factory Charging | | kg | 2.7 | 2.7 | 2.9 | 2.9 | |
| | | | tCO ₂ e | 1.82 | 1.82 | 1.96 | 1.96 | |
| Power Supply | | | Ø, #, V, Hz | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 | 1,2,220-240,50 | |
| Heat Exchanger | Type | | - | F&T | F&T | F&T | F&T | |
| | Material | Fin | - | Al | Al | Al | Al | |
| | | Tube | - | Cu | Cu | Cu | Cu | |
| Fin Treatment | | - | Green Hydrophile | Green Hydrophile | Green Hydrophile | Green Hydrophile | | |
| Fan | Type | | - | Turbo | Turbo | Turbo | Turbo | |
| | Quantity | | EA | 1 | 1 | 1 | 1 | |
| | Air Flow Rate | Cooling (H/M/L) | m ³ /min | 32.0 / 26.0 / 20.0 | 32.0 / 26.0 / 20.0 | 32.0 / 27.0 / 22.0 | 32.0 / 27.0 / 22.0 | |
| | | | l/s | 533 / 433 / 333 | 533 / 433 / 333 | 533 / 450 / 367 | 533 / 450 / 367 | |
| | | Heating (H/M/L) | m ³ /min | 32.0 / 26.0 / 20.0 | 32.0 / 26.0 / 20.0 | 32.0 / 27.0 / 22.0 | 32.0 / 27.0 / 22.0 | |
| l/s | | | 533 / 433 / 333 | 533 / 433 / 333 | 533 / 450 / 367 | 533 / 450 / 367 | | |
| Fan Motor | Type | | - | BLDC | BLDC | BLDC | BLDC | |
| | Output | | W x n | 97 x 1 | 97 x 1 | 97 x 1 | 97 x 1 | |

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|------------------------|------------------------------------|-----------------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | Outdoor Unit | | | AC120RXADKG/EU | AC120RXADNG/EU | AC140RXADKG/EU | AC140RXADNG/EU |
| Drain | Drain Pipe | | Φ, mm | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) | VP-25(OD32, ID25) |
| Sound | Sound Pressure Level | High/Mid/Low/(Silent) | dB(A) | 45 / 40 / 35 | 45 / 40 / 35 | 45 / 41 / 37 | 45 / 41 / 37 |
| | Sound Power Level | | dB(A) | 61 | 61 | 61 | 61 |
| External Dimension | Net Weight | | kg | 18.0 | 18.0 | 20.0 | 20.0 |
| | Shipping Weight | | kg | 22.0 | 22.0 | 24.0 | 24.0 |
| | Net Dimensions (WxHxD) | | mm | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| | Shipping Dimensions (WxHxD) | | mm | 898 x 357 x 898 | 898 x 357 x 898 | 898 x 357 x 898 | 898 x 357 x 898 |
| Casing | Material | | - | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Panel (1) | Model Name | | - | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| | Type | | - | Wind-Free Type | Wind-Free Type | Wind-Free Type | Wind-Free Type |
| | Material | | - | HIPS | HIPS | HIPS | HIPS |
| | Color | | - | DA White | DA White | DA White | DA White |
| | Net Weight | | kg | 6.3 | 6.3 | 6.3 | 6.3 |
| | Shipping Weight | | kg | 8.7 | 8.7 | 8.7 | 8.7 |
| | Net Dimensions (WxHxD) | | mm | 950 x 48 x 950 | 950 x 48 x 950 | 950 x 48 x 950 | 950 x 48 x 950 |
| | Shipping Dimensions (WxHxD) | | mm | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 | 1,010 x 117 x 1,000 |
| Panel (2) | Model Name | | - | PC4NUSKAN | PC4NUSKAN | PC4NUSKAN | PC4NUSKAN |
| | Type | | - | Waffle Type | Waffle Type | Waffle Type | Waffle Type |
| | Material | | - | HIPS | HIPS | HIPS | HIPS |
| | Color | | - | White | White | White | White |
| | Net Weight | | kg | 5.9 | 5.9 | 5.9 | 5.9 |
| | Shipping Weight | | kg | 8 | 8 | 8 | 8 |
| | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | Shipping Dimensions (WxHxD) | | mm | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 |
| Panel (3) | Model Name | | - | PC4NBSKAN | PC4NBSKAN | PC4NBSKAN | PC4NBSKAN |
| | Type | | - | Waffle Type | Waffle Type | Waffle Type | Waffle Type |
| | Material | | - | HIPS | HIPS | HIPS | HIPS |
| | Color | | - | Black | Black | Black | Black |
| | Net Weight | | kg | 5.9 | 5.9 | 5.9 | 5.9 |
| | Shipping Weight | | kg | 8 | 8 | 8 | 8 |
| | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | Shipping Dimensions (WxHxD) | | mm | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 |
| Panel (4) | Model Name | | - | PC4NUSKEN | PC4NUSKEN | PC4NUSKEN | PC4NUSKEN |
| | Type | | - | Stripe Type | Stripe Type | Stripe Type | Stripe Type |
| | Material | | - | ABS | ABS | ABS | ABS |
| | Color | | - | White | White | White | White |
| | Net Weight | | kg | 5.9 | 5.9 | 5.9 | 5.9 |
| | Shipping Weight | | kg | 8 | 8 | 8 | 8 |
| | Net Dimensions (WxHxD) | | mm | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 | 950 x 45 x 950 |
| | Shipping Dimensions (WxHxD) | | mm | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 | 1,005 x 100 x 1,005 |
| Control System | Infrared remote control | | - | AR-EH03E | AR-EH03E | AR-EH03E | AR-EH03E |
| | Wired remote control | | - | MWR-WE13N MWR-WG00*N | MWR-WE13N MWR-WG00*N | MWR-WE13N MWR-WG00*N | MWR-WE13N MWR-WG00*N |
| Drain Pump | Drain Pump | | - | Included | Included | Included | Included |
| | Max. lifting Height / Displacement | | mm / Liter / h | 750/24 | 750/24 | 750/24 | 750/24 |
| Additional Accessories | Drain Pump | External Model | - | - | - | - | - |
| | | Internal Model | - | - | - | - | - |
| | Max. lifting Height / Displacement | | mm / Liter / h | - | - | - | - |
| | Air Filter | | - | Removable / Washable | Removable / Washable | Removable / Washable | Removable / Washable |
| Virus Doctor | | - | Option | Option | Option | Option | |

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|-----------------------|-----------------------------|---------|---------------------|-------------------|-------------------|-------------------|-------------------|
| | Outdoor Unit | | AC120RXADKG/EU | AC120RXADNG/EU | AC140RXADKG/EU | AC140RXADNG/EU | |
| Power Supply | | | Ø, #, V, Hz | 1, 2, 220-240, 50 | 3, 4, 380-415, 50 | 1, 2, 220-240, 50 | 3, 4, 380-415, 50 |
| Heat Exchanger | Type | | - | Fin & Tube | Fin & Tube | Fin & Tube | Fin & Tube |
| | Material | Fin | - | Al | Al | Al | Al |
| | | Tube | - | Cu | Cu | Cu | Cu |
| Fin Treatment | | - | Anti-Corrosion | Anti-Corrosion | Anti-Corrosion | Anti-Corrosion | |
| Compressor | Model Name | | - | UB5TN5450FJX | UB5TN5450FJX | UB5TN5450FJX | UB5TN5450FJX |
| | Type | | - | Twin BLDC | Twin BLDC | Twin BLDC | Twin BLDC |
| | Output | | kW | 4.25 | 4.25 | 4.25 | 4.25 |
| | Oil | Type | - | POE | POE | POE | POE |
| Initial charge | | cc | 1,700 | 1,700 | 1,700 | 1,700 | |
| Fan | Type | | - | Propeller | Propeller | Propeller | Propeller |
| | Discharge direction | | - | Front | Front | Front | Front |
| | Quantity | | EA | 1 | 1 | 2 | 2 |
| | Air Flow Rate | | m ³ /min | 72 | 72 | 110 | 110 |
| l/s | | | 1,200 | 1,200 | 1,833 | 1,833 | |
| Fan Motor | Type | | - | BLDC Motor | BLDC Motor | BLDC Motor | BLDC Motor |
| | Output | | W x n | 125 x 1 | 125 x 1 | 125 x 2 | 125 x 2 |
| Sound | Sound Pressure Level | Cooling | dB(A) | 54 | 54 | 53 | 53 |
| | | Heating | dB(A) | 56 | 56 | 54 | 54 |
| | Sound Power Level | | dB(A) | 70 | 70 | 69 | 69 |
| External Dimension | Net Weight | | kg | 81.0 | 80.0 | 91.5 | 90.5 |
| | Shipping Weight | | kg | 86.0 | 85.0 | 100.0 | 99.0 |
| | Net Dimensions (WxHxD) | | mm | 940 x 998 x 330 | 940 x 998 x 330 | 940 x 1,210 x 330 | 940 x 1,210 x 330 |
| | Shipping Dimensions (WxHxD) | | mm | 995 x 1,096 x 426 | 995 x 1,096 x 426 | 995 x 1,388 x 426 | 995 x 1,388 x 426 |
| Casing | Material | Body | - | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate | EGI Steel Plate |
| | Operating Temp. Range | | °C | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 | -15 ~ 50 |
| Operating Temp. Range | Cooling | | °C | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |
| | Heating | | °C | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 | -20 ~ 24 |

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Select wire size based on the value of MCA
- 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.