

ADV 2-5 (TR)

Heat Pump 380-415V 3N~50/60Hz

Sistema Residencial expansión directa de refrigerante variable VRF

Potencia 8 ÷ 18kW

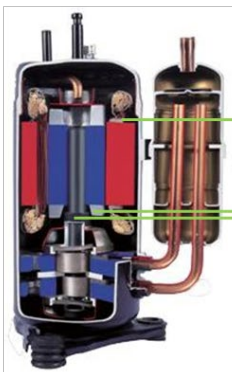


| Model name | Dimension body(mm) | Net/Gross weight (kg) | Power supply |
|----------------|---|-----------------------|--------------------|
| ADV-V120W/DRN1 | Width: 900 Height: 1327 Depth:400 | 95/103 | 380-415V-3ph~ 50Hz |
| ADV-V140W/DRN1 | Width: 900 Height: 1327 Depth:400 | 95/103 | 380-415V-3ph~ 50Hz |
| ADV-V160W/DRN1 | Width: 900 Height: 1327 Depth:400 | 102/113 | 380-415V-3ph~ 50Hz |
| ADV-V180W/DRN1 | Width: 900 Height: 1327 Depth:400 | 107/118 | 380-415V-3ph~ 50Hz |



High efficient DC inverter compressor

All DC inverter Mini VRF adopts highly intelligent inverter-driven compressor. This advanced technology enables the output of the outdoor unit to be modulated by the real heat load demands. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.



- Highly Efficient DC Motor:**
 - Creative motor core design
 - High density neodymium magnet
 - Concentrated type stator
 - Wider operating frequency range
- Better balance and Extremely Low Vibration:**
 - Twin eccentric cams
 - 2 balance weights
- Highly Stable Moving Parts:**
 - Optimal material matching rollers and vanes
 - Optimize compressor drive technology
 - Highly robust bearings
 - Compact structure

ADV 2-5 (TR)

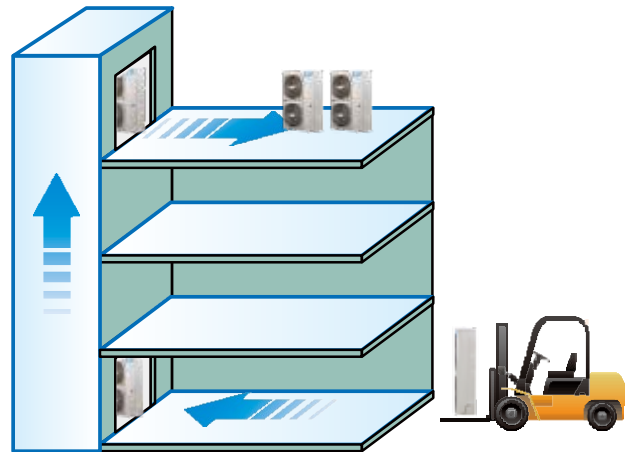
Heat Pump 380-415V 3N~50/60Hz

Sistema Residencial expansión directa de refrigerante variable VRF

Potencia 8 ÷ 18kW

Easy installation

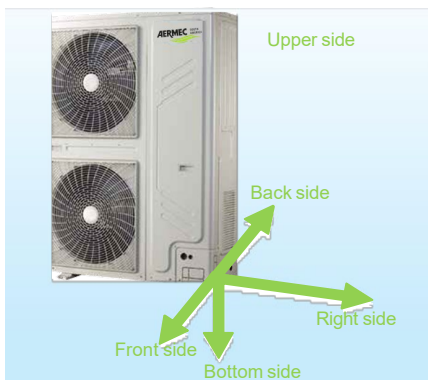
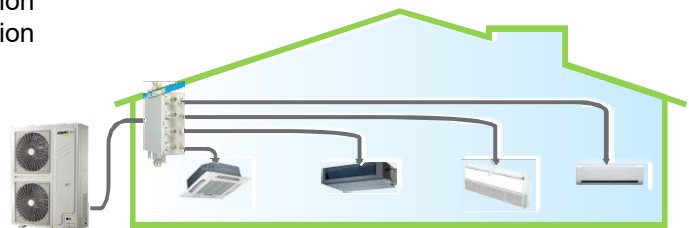
The Mini VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



Flexible indoor unit's connection

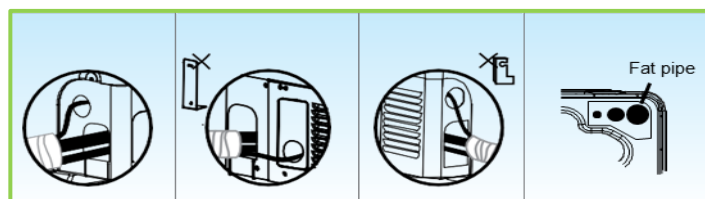
Mini VRF with intelligent control gives you independent zoning control with maximum flexibility. A single outdoor unit supports up to nine indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.

- Max. 6 indoor units for a 12kW outdoor unit installation
- Max. 6 indoor units for a 14kW outdoor unit installation
- Max. 7 indoor units for a 16kW outdoor unit installation
- Max. 9 indoor units for a 18kW outdoor unit installation



Easy piping connection

Offering four directions to connect pipes and wirings to meet various installation requests.

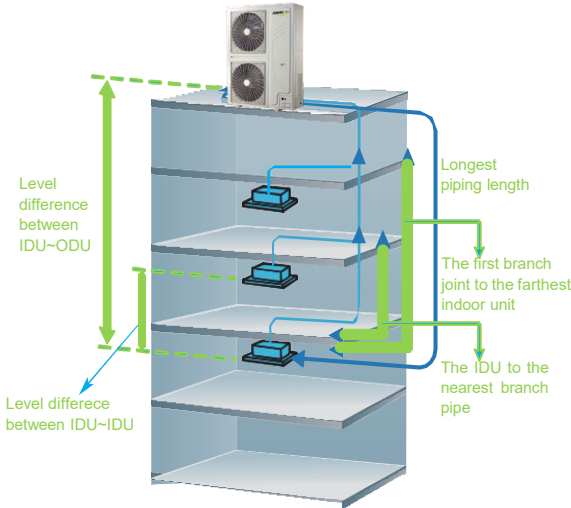


ADV 2-5 (TR)

Heat Pump 380-415V 3N~50/60Hz

Sistema Residencial expansión directa de refrigerante variable VRF

Potencia 8 ÷ 18kW

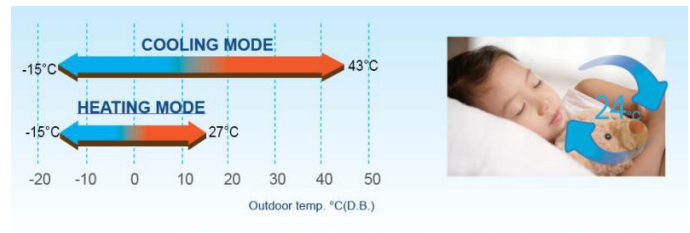


Flexible piping design

| Piping Length | | Permitted Value |
|--|------------|-----------------|
| Total piping length (Actual) | | 100m |
| Longest piping length | Actual | 60m |
| | Equivalent | 70m |
| The first branch joint to the farthest IDU | | 20m |
| The IDU to the nearest branch pipe | | 15m |
| Level difference between ODU~IDU | ODU up | 30m |
| | ODU down | 20m |
| Level difference between IDU~IDU | | 8m |

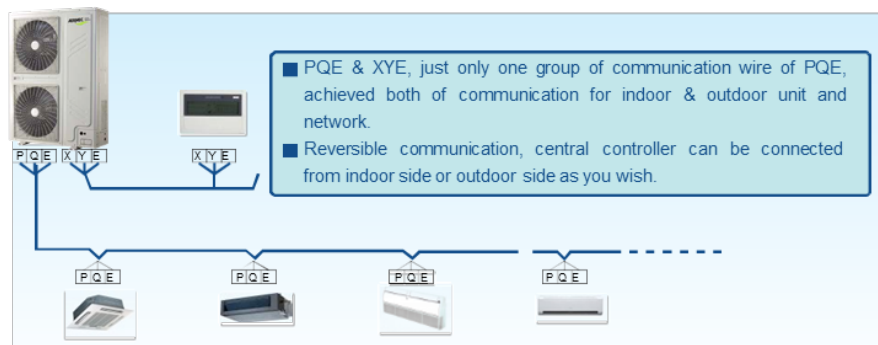
Wide operation temperature range

No matter in extremely cold winter when outdoor temperature gets as low as -15°C or in hot summer when temperature is up to 43°C, the Mini VRF system will keep stable performance.



Simple signal line connection

Installation is much easier as the communication wiring between indoor & outdoor units can be shared. It's easy for the user to retrofit the existing system with a centralized control by simply connecting to outdoor units.



ADV 2-5 (TR)

Heat Pump 380-415V 3N~50/60Hz

Sistema Residencial expansión directa de refrigerante variable VRF

Potencia 8 ÷ 18kW

Mini VRF (Standard Series) - Heat Pump 380-415V, 3N, 60Hz

| Sale Model | | | ADV-V120W/DRN1 | ADV-V140W/DRN1 | ADV-V160W/DRN1 | ADV-V180W/DRN1 |
|--|------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------|
| Power supply | | V-Ph-Hz | 380-415V-3N~50Hz | 380-415V-3N~50Hz | 380-415V-3N~50Hz | 380-415V-3N~50Hz |
| Cooling | Capacity | kW | 12,3 | 14,0 | 15,5 | 17,5 |
| | Input | kW | 3,25 | 3,95 | 4,52 | 5,3 |
| | EER | kW/ kW | 3,78 | 3,54 | 3,43 | 3,3 |
| Heating | Capacity | kW | 13,2 | 15,4 | 17,0 | 19,0 |
| | Input | kW | 3,47 | 4,16 | 4,77 | 5,0 |
| | COP | kW/ kW | 3,80 | 3,7 | 3,56 | 3,8 |
| Compressor | Model | | TNB306FPNMC | TNB306FPNMC | LNB42FSAMC | LNB42FSAMC |
| | Type | | Rotary | Rotary | Rotary | Rotary |
| | Brand | | MITSUBISHI | MITSUBISHI | MITSUBISHI | MITSUBISHI |
| | Capacity | Btu/h | 33720 | 33720 | 47700 | 47700 |
| | Input | W | 3010 | 3010 | 4240 | 4270 |
| | Rated current(RLA) | A | 9,3 | 9,3 | 12 | 12 |
| | Crankcase | W | 27 | 27 | 25 | 25 |
| | Refrigerant oil | ml | FV50S 870+630ml | FV50S 870+630ml | FV50S 1400ml | FV50S 1400ml |
| Outdoor fan motor | Model | | WZDK100-38G | WZDK100-38G | WZDK100-38G | WZDK100-38G |
| | Type | | DC motor | DC motor | DC motor | DC motor |
| | Brand | | Panasonic | Panasonic | Panasonic | Panasonic |
| | Insulation class | | E | E | E | E |
| | Safe class | | IP23 | IP23 | IP23 | IP23 |
| | Input | | 2 x 100 | 2 x 100 | 2 x 100 | 2 x 100 |
| | Output | W | 2 x 85 | 2 x 85 | 2 x 85 | 2 x 85 |
| | Rated current | A | 2 x 0.9 | 2 x 0.9 | 2 x 0.9 | 2 x 0.9 |
| | Capacitor | uF | / | / | / | / |
| | Speed | r/min | 800 | 800 | 800 | 800 |
| | Outdoor fan | Material | | ASG20 | ASG20 | ASG20 |
| Type | | | Axial fan | Axial fan | Axial fan | Axial fan |
| Diameter | | mm | 508 | 508 | 508 | 508 |
| Height | mm | 170 | 170 | 170 | 170 | |
| Outdoor coil | Number of rows | | 2 | 2 | 2 | 2,5 |
| | Tube pitch(a)x row pitch(b) | mm | 22 x 19.05 | 22 x 19.05 | 22 x 19.05 | 22 x 19.05 |
| | Fin spacing | mm | 1,6 | 1,6 | 1,6 | 1,6 |
| | Tube outside dia.and type | mm | Φ7.94 | Φ7.94 | Φ7.94 | Φ7.94 |
| | Type | | Inner groove tube | Inner groove tube | Inner groove tube | Inner groove tube |
| | Coil length x height | mm | 1276 x 870 | 1276 x 870 | 1276 x 870 | 1276 x 870 |
| | Number of circuits | | 7 | 7 | 7 | 12 |
| Outdoor air flow | m ³ /h | 6000 | 6000 | 6000 | 6800 | |
| Outdoor sound level(sound pressure level) | dB(A) | 57 | 57 | 57 | 59 | |
| Outdoor Unit | Dimension(W x H x D) | mm | 900 x 1327 x 400 | 900 x 1327 x 400 | 900 x 1327 x 400 | 900 x 1327 x 400 |
| | Packing (W x H x D) | mm | 1030 x 1456 x 435 | 1030 x 1456 x 435 | 1030 x 1456 x 435 | 1030 x 1456 x 435 |
| | Net/Gross weight | kg | 95/106 | 95/106 | 102/113 | 107/118 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A |
| | Charged volume | g | 3300 | 3900 | 3900 | 4500 |
| Throttle type | | Electronic expansion valve | | | | |
| Design pressure | MPa | 4.4/2.6 | | | | |
| Refrigerant piping | Liquid side/ Gas side | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ19.1 | Φ9.53/Φ19.1 |
| | Max. refrigerant pipe length | m | 100 | 100 | 100 | 100 |
| | Max. difference in level | m | 8 | 8 | 8 | 8 |
| Connection wiring | Power wiring | mm ² | 5 core x2.5 | 5 core x2.5 | 5 core x2.5 | 5 core x2.5 |
| | Signal wiring | mm ² | 3 core shielded wire x 0.75 | 3 core shielded wire x 0.75 | 3 core shielded wire x 0.75 | 3 core shielded wire x 0.75 |
| Ambient temp | °C | (Cooling -15~43) (Heating -15~27) | (Cooling -15~43) (Heating -15~27) | (Cooling -15~43) (Heating -15~27) | (Cooling -15~43) (Heating -15~27) | |
| Notes: | | | | | | |
| 1. The cooling conditions: indoor temp.: 27°CDB (80.6°F), 19°CWB (66.2°F) outdoor temp.: 35°CDB (95°F), 24°CWB (75.2°F) equivalent pipe length: 5m drop length: 0m. | | | | | | |
| 2. The heating conditions: indoor temp.: 20°CDB (68°F), 15°CWB (59°F) outdoor temp.: 7°CDB (44.6°F), 6°CWB (42.8°F) equivalent pipe length: 5m drop length: 0m. | | | | | | |
| 3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of *m(1.2m for 120~180 model). During actual operation, these values are normally somewhat higher as a result of ambient conditions. | | | | | | |
| 4. The aboved datas may be changed without notice for future improvement on quality and performance. | | | | | | |
| | | | | | | |



Aermec se reserva el derecho de efectuar, en cualquier momento, todas las modificaciones que considere necesarias para mejorar el producto, modificando eventualmente los datos técnicos correspondientes.

Aermec S.p.A.
Calle Canal la Punta 8770, Bodega No 42
Top Space, Renca - Santiago
Tel. + 55 11 9 7559 4822