

# Side Discharge Series Heat Pump & Cooling Only



NEW  
Fashion Design

R-410A

DC Inverter

## Features

### Wide Application Range

#### Wide range of outdoor units

|                              |  |  | 8    | 10   | 12   | 14   | 16   | 17.5 | 20   | 22.4 | 26   | 28   | 33.5  | 40    | 45    |
|------------------------------|--|--|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
|                              |  |  | 27.3 | 35.8 | 40.9 | 47.8 | 52.9 | 60   | 68.2 | 76.4 | 88.7 | 95.5 | 114.3 | 136.5 | 153.5 |
| Air Cooled -<br>Heat Pump    | Super XS series<br>380-415V/3Ph/50(60)Hz                     |  |      |      |      |      |      |      | ●    | ●    | ●    | ●    | ●     |       |       |
|                              | Mini H series<br>380-415V/3Ph/50(60)Hz                       |  |      |      |      |      |      |      | ●    | ●    | ●    | ●    | ●     | ●     | ●     |
|                              | Mini H series<br>220-240V/1 Ph/50Hz or<br>208-230V/1 Ph/60Hz |  | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |       |       |       |
|                              | Super XS series<br>220-240V/1Ph/50(60)Hz                     |  | ●    | ●    | ●    | ●    | ●    |      |      |      |      |      |       |       |       |
| Air Cooled -<br>Cooling Only | Super XS series<br>380-415V/3Ph/50 or 60 Hz                  |  |      |      |      |      |      |      | ●    | ●    | ●    | ●    |       |       |       |
|                              | 220-240V/1Ph/50Hz &<br>208-230V/1Ph/60Hz                     |  | ●    | ●    |      | ●    | ●    |      |      |      |      |      |       |       |       |

● Single unit

### Flexible indoor units 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. 7 indoor units for a 15.5kW(52,900Btu/h) outdoor unit installation
- Max. 6 indoor units for a 14kW(47,800Btu/h) outdoor unit installation
- Max. 6 indoor units for a 12kW(40,900Btu/h) outdoor unit installation
- Max. 5 indoor units for a 10.5kW(35,800Btu/h) outdoor unit installation
- Max.4 indoor units for a 8kW(27,300Btu/h outdoor unit installation)

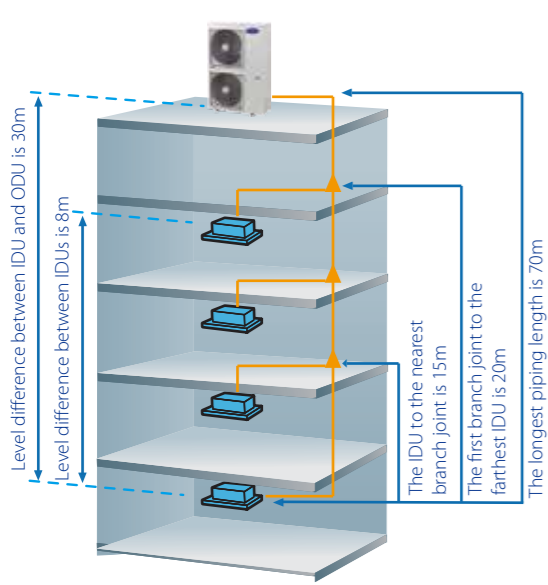


\* For 20-45KW unit, please check the information in the specifications.



## Flexible piping design

The Mini VRF provides a total piping length possibility of 250m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoors unit can be up to 8m. These generous allowances facilitate an extensive array of system designs.



Mini H VRF piping capability

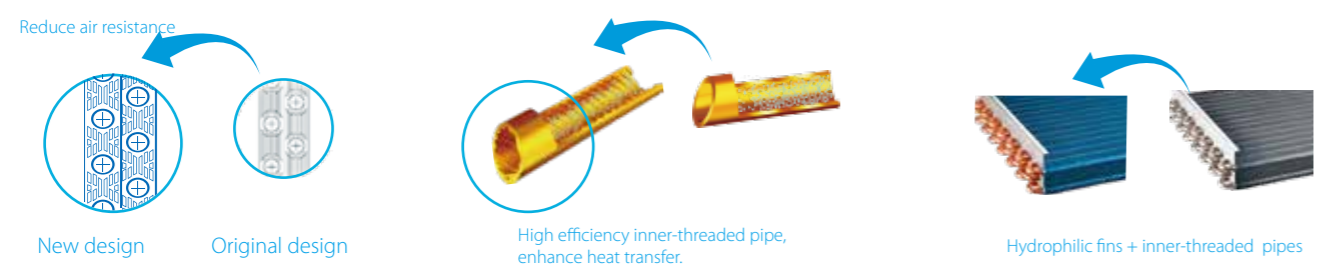
| Permitted value   |   | 8/10.5kW<br>(27.3/35.8kBtu/h) | 12/14/15.5/17.5kW<br>(40.9/47.8/<br>52.9/60.6kBtu/h) | 20/22.4/26/28/33.5kW<br>(68.2/76.4/88.7/95.9/<br>114.3kBtu/h) | 40/45kW<br>136.5/153.5kBtu/h |      |
|-------------------|---|-------------------------------|--|---|------------------------------|------|
| Piping length     | Total piping length (Actual)  | 100m                          | 100m   | 120m  | 250m                         |      |
|                   | Longest piping (L)  | Actual length                 | 45m  | 60m   | 60m                          | 100m |
| Equivalent length |   | 50m                           | 70m  | 70m   | 120m                         |      |
| Level difference  | Equivalent piping length (from the farthest IDU to the first indoor branch joint) |                               | 20m  | 20m   | 20m                          | 40m  |
|                   | Level difference between IDU-ODU  | Outdoor unit up               | 30m  | 30m   | 30m                          | 30m  |
|                   |   | Outdoor unit down             | 20m  | 20m   | 20m                          | 20m  |
|                   | Level difference between IDU-IDU  |                               | 8m   | 8m  | 8m                           | 8m   |

1 Total pipe length is equal to all the liquid pipe or all the gas pipe length.  
2 When the total equivalent pipe length of liquid side plus gas side is more than 90m(295.2ft), it needs to meet the specific conditions according to the installation part of the technical manual.

Super XS piping capability

| Items   | Capability(m) |           |           |          |      |      |      |       |
|---|---------------|-----------|-----------|----------|------|------|------|-------|
| Capacity(kW)  | 7.2           | 9/12.2    | 14/15.5   | 20       | 22.4 | 26   | 28.5 | 33.5  |
| Capacity(kBtu/h)  | 24.6          | 30.7/40.9 | 47.8/52.9 | 68.2     | 76.8 | 88.7 | 97.2 | 114.3 |
| Total piping length   | 50            | 65        | 100       | 150      |      |      |      |       |
| Longest piping length-actual (equivalent)                   | 35 (40)       | 45 (50)   | 60 (70)   | 100(110) |      |      |      |       |
| Longest piping length after first branch                    | 20            |           |           | 40       |      |      |      |       |
| Largest level difference between IDUs and ODU-ODU up (down) | 10 (10)       | 20 (20)   | 30 (20)   | 50(40)   |      |      |      |       |
| Largest level difference between IDUs                       | 8             | 8         | 8         | 15       |      |      |      |       |

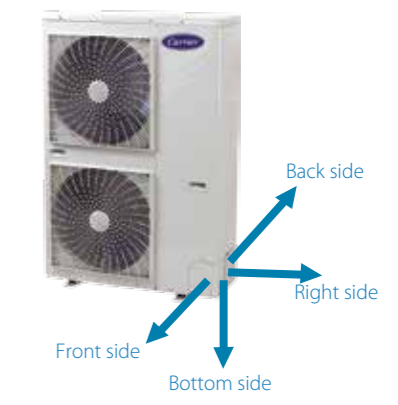
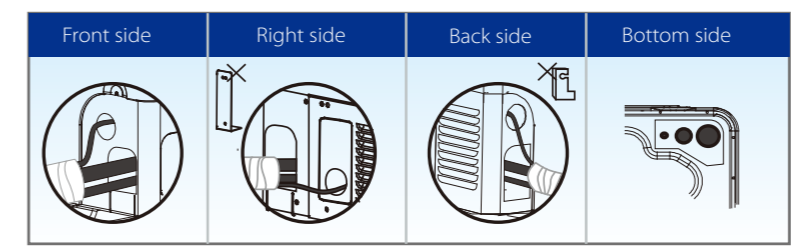
## High performance heat exchanger



- The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.
- Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.
- The specially coated blue fins enhance durability and protect against corrosion from air, water and other corrosive agents, assures a longer coil service life.

## More convenience in installation

A four-direction space is available for connecting pipes and wiring in various installation sites.



## More convenient piping connector - branch box

Easier and safer installation thanks to a branch box that simplifies piping work and the adoption of screw connection.

Both left and right pipe flare connection from outdoor unit to branch box is reserved, which greatly simplifies field installation.

Two sets of pipe size converter are packed with branch box to transfer the pipe size from  $\Phi 6.35\text{mm}$  to  $\Phi 9.53\text{mm}$  and from  $\Phi 12.7\text{mm}$  to  $\Phi 15.9\text{mm}$ .

### Low noise

The branch pipe is linear expansion design regulates the flow of refrigerant and reduces the noise. By locating the branch box in the ceiling or outside, noise generated by the branch box can be kept clear of living spaces, thus makes noise level to a minimum.



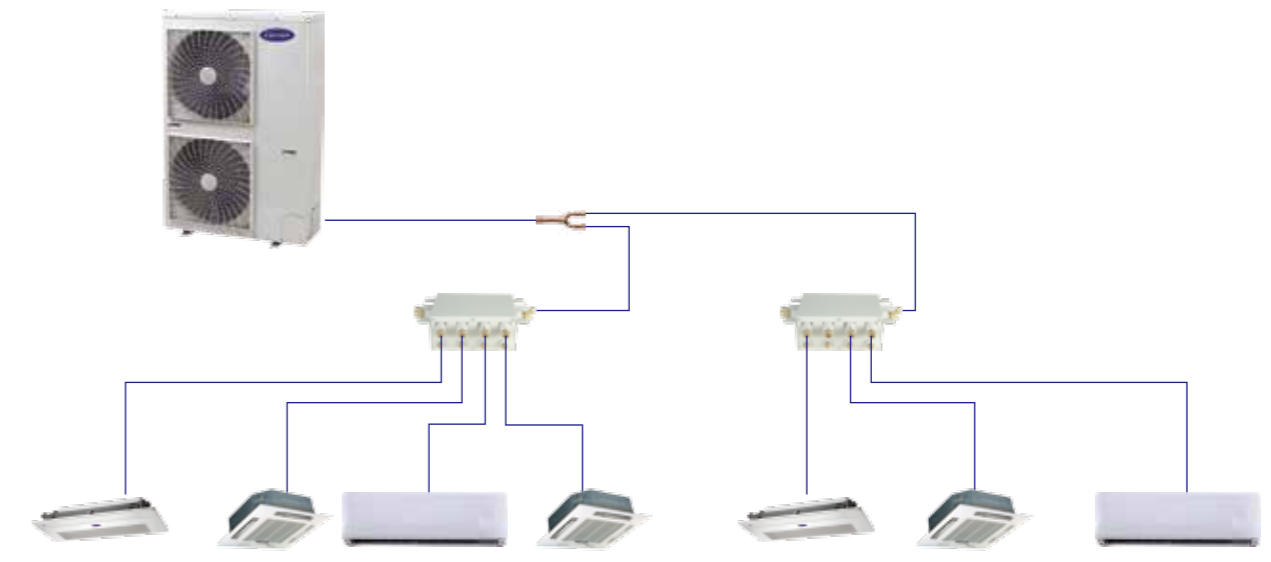
### Brazing-free quick installation

All the piping leading to and from the branch box is connected using screw joints, which can be installed quickly and easily.

### Indoor installation

The branch box can be installed in the ceiling rather than outside. Removing the side and bottom covers provides easy access for maintaining inner components such as circuit boards.

## New piping connection design

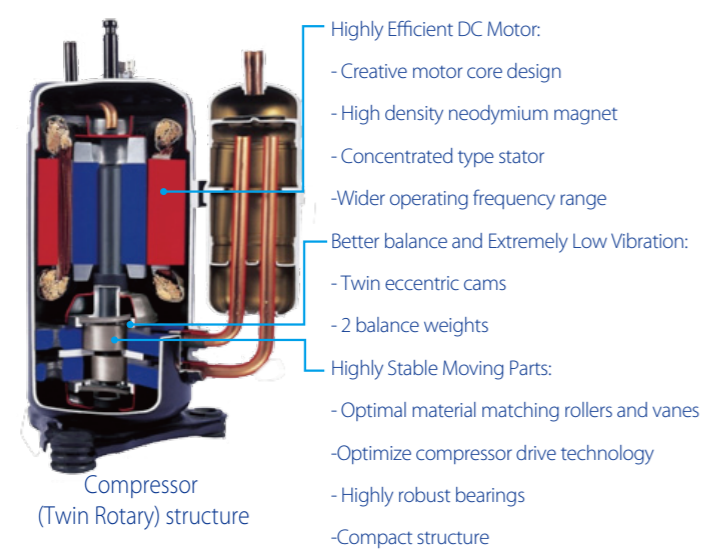


\*40/45KW unit can not connect branch box

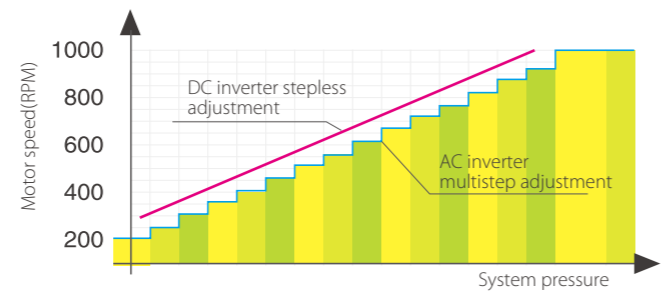
# Advanced Technologies

## Full DC inverter technology

At the heart of our system is a highly intelligent inverter driven compressor. This advanced technology enables the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.

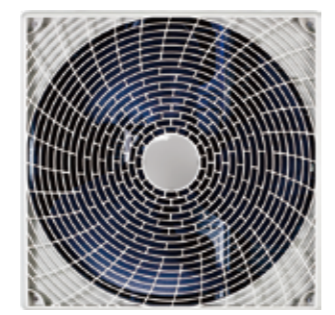
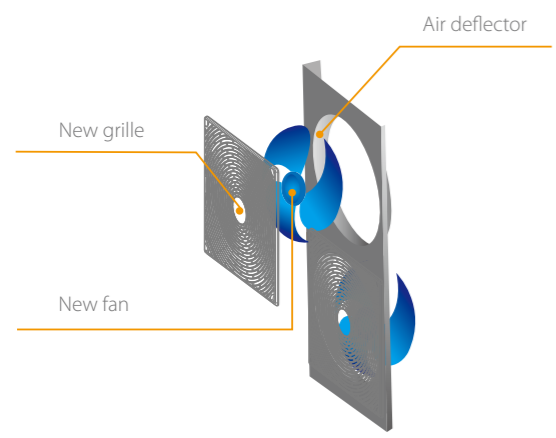


High efficiency DC fan motor saved power up to 50%.

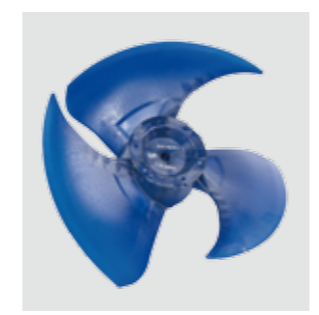


## Noise reducing design

Optimally designed fan shape and air discharge grille increases air volume and reduces running noise.



Newly Designed Fan Guard



Powerful Large Propeller

## Mini H Series – Heat Pump 3 Phase



| 380/415V-3Ph~60Hz | 220V 3N~60Hz   | 380-415V 3N~ 50Hz |                |                |
|-------------------|----------------|-------------------|----------------|----------------|
| 38VR004H118010    | 38VR008H11701S | 38VR004H119010    | 38VR007H119010 | 38VR012H11901S |
| 38VR005H118010    | 38VR010H11701S | 38VR005H119010    | 38VR008H11901S | 38VR014H11901S |
| 38VR006H118010    |                | 38VR006H119010    | 38VR010H11901S | 38VR016H11901S |

### Specifications 60Hz

| Sales Model              |                      |           | 38VR004H118010    | 38VR005H118010    | 38VR006H118010    | 38VR008H11701S    | 38VR010H11701S    |
|--------------------------|----------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Power supply             |                      | V-Ph-Hz   | 380/415V-3Ph~60Hz | 380/415V-3Ph~60Hz | 380/415V-3Ph~60Hz | 220V 3N~60Hz      | 220V 3N~60Hz      |
| Cooling                  | Capacity             | kW        | 12                | 14                | 15.5              | 25.2              | 28                |
|                          |                      | RT        | 3.4               | 4.0               | 4.4               | 7.1               | 7.95              |
|                          | Input                | kW        | 3.25              | 3.95              | 4.52              | 6.8               | 7.8               |
|                          | EER                  | KBtu/h/kW | 12.59             | 12.08             | 11.70             | 12.65             | 12.24             |
| Heating                  | Capacity             | kW        | 13.2              | 15.4              | 17                | 27                | 31.5              |
|                          |                      | RT        | 3.8               | 4.4               | 4.9               | 7.7               | 8.95              |
|                          | Input                | kW        | 3.47              | 4.16              | 4.77              | 6.4               | 7.6               |
|                          | COP                  | KBtu/h/kW | 12.97             | 12.62             | 12.15             | 14.4              | 14.12             |
| Outdoor sound level (*3) |                      | dB(A)     | 57                | 57                | 57                | 58                | 60                |
| Pipe connections         | Liquid side          | mm        | Φ9.53             | Φ9.53             | Φ9.53             | Φ9.53             | Φ9.53             |
|                          | Gas side             | mm        | Φ15.9             | Φ15.9             | Φ19.1             | Φ22.2             | Φ22.2             |
| Connectable              | Total capacity       | %         | 50-130%           | 50-130%           | 50-130%           | 50-130%           | 50-130%           |
|                          | Max.quantity         |           | 6                 | 6                 | 7                 | 11                | 12                |
| Compressor               | Type                 |           | Rotary            | Rotary            | Rotary            | Rotary            | Rotary            |
|                          | Brand                |           | MITSUBISHI        | MITSUBISHI        | MITSUBISHI        | MITSUBISHI        | MITSUBISHI        |
|                          | Capacity             | kW        | 9.8               | 9.8               | 14                | 17.1              | 17.1              |
|                          | Crankcase            | W         | 27                | 27                | 25                | 25                | 25                |
|                          | Refrigerant oil      | Type      | FV50S             | FV50S             | FV50S             | FV50S             | FV50S             |
|                          | Refrigerant oil      | ml        | 870               | 870               | 1400              | 1700+1500         | 1700+1500         |
|                          | Type                 |           | DC motor          | DC motor          | DC motor          | DC motor          | DC motor          |
| Fan Motor                | Quantity             |           | 2                 | 2                 | 2                 | 2                 | 2                 |
|                          | Output               | W         | 2 x85             | 2 x85             | 2 x 85            | 200(up)/150(down) | 200(up)/150(down) |
|                          | Airflow              | CFM       | 4100              | 3824              | 3530              | 6173              | 6173              |
| m <sup>3</sup> /h        |                      | 6983      | 6500              | 6000              | 10494             | 10494             |                   |
| Outdoor unit             | Dimension(W x H x D) | mm        | 900 x 1327 x 400  | 900 x 1327 x 400  | 900 x 1327 x 400  | 1120 x 1558 x 528 | 1120 x 1558 x 528 |
|                          | Packing (W x H x D)  | mm        | 1030 x 1456 x 435 | 1030 x 1456 x 435 | 1030 x 1456 x 435 | 1270 x 1720 x 565 | 1270 x 1720 x 565 |
|                          | Net/Gross weight     | kg        | 92/106            | 95/106            | 102/113           | 146.5/162.5       | 147/163           |
| Refrigerant              | Type                 |           | R410A             | R410A             | R410A             | R410A             | R410A             |
|                          | Charged volume       | g         | 3300              | 3900              | 3900              | 3100              | 3100              |
| Throttle type            |                      |           | EXV               |                   |                   |                   |                   |
| Design pressure          |                      | MPa       | 4.4/2.6           |                   |                   |                   |                   |
| Ambient temp             | Cooling              | °C        | -15~43            |                   |                   | -5-48             |                   |
|                          | Heating              | °C        | -15~27            |                   |                   | -15-24            |                   |

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of \*m( 1m for 105 model, 1.2m for 120~160model). During actual operation, these values might be higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

## Specifications 50Hz

| Sales Model                                |                  | 38VR004H119010    | 38VR005H119010   | 38VR006H119010   | 38VR007H119015   |                  |
|--|------------------|-------------------|------------------|------------------|------------------|------------------|
| 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               | 15.5             | 17.5             |
|  |                  | RT                | 3.5              | 4.0              | 4.4              | 4.9              |
|  | Input            | kW                | 3.25             | 3.95             | 4.52             | 5.3              |
|  | EER              | KBtu/h/kW         | 12.90            | 12.08            | 11.70            | 11.26            |
| Heating                                    | Capacity         | kW                | 13.2             | 15.4             | 17               | 19               |
|  |                  | RT                | 3.8              | 4.4              | 4.9              | 5.4              |
|  | Input            | kW                | 3.47             | 4.16             | 4.77             | 5.0              |
|  | COP              | KBtu/h/kW         | 12.97            | 12.62            | 12.15            | 13.0             |
| Connectable indoor unit                    | Total capacity   | %                 | 50-130%          | 50-130%          | 50-130%          | 50-130%          |
|  | Max.quantity     |                   | 6                | 6                | 7                | 7                |
| Outdoor sound level (sound pressure level) |                  | dB(A)             | 57               | 57               | 57               | 59               |
| Refrigerant Pipe                           | Liquid side      | mm                | Φ9.53            | Φ9.53            | Φ9.53            | Φ9.53            |
|  | Gas side         | mm                | Φ15.9            | Φ15.9            | Φ19.1            | Φ19.1            |
| Compressor                                 | Type             |                   | Rotary           | Rotary           | Rotary           | Rotary           |
|  | Brand            |                   | mitsubishi       | mitsubishi       | mitsubishi       | mitsubishi       |
|  | Capacity         | Btu/h             | 33720            | 33720            | 47700            | 47700            |
|  | Crankcase        | W                 | 27               | 27               | 25               | 25               |
|  | Refrigerant oil  | ml                | FV50S 870ml      | FV50S 870ml      | FV50S 1400ml     | FV50S 1400ml     |
|  | Quantities       |                   |                  | 2                | 2                | 2                |
| Fan motor                                  | Type             |                   | DC motor         | DC motor         | DC motor         | DC motor         |
|  | Air flow rate    | m <sup>3</sup> /h | 6000             | 6000             | 6000             | 6800             |
|  |                  | CFM               | 3529             | 3529             | 3529             | 4000             |
| Outdoor unit                               | Dimension(W*H*D) | mm                | 900*1327*400     | 900*1327*400     | 900*1327*400     | 900*1327*400     |
|  | Packing (W*H*D)  | mm                | 1030*1456*435    | 1030*1456*435    | 1030*1456*435    | 1030*1456*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                              |                  |                   | EXV              | EXV              | EXV              | EXV              |
| Design pressure                            |                  | MPa               | 4.4/2.6          | 4.4/2.6          | 4.4/2.6          | 4.4/2.6          |
| Ambient temp                               | Cooling          | °C                | -15~43           |                  |                  |                  |
|  | Heating          |                   | -15~27           |                  |                  |                  |

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, sound level might be affected by ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

## Specifications 50Hz

| Sales Model             |                  | 38VR007H119010 | 38VR008H119015   | 38VR010H119015   | 38VR012H119015   | 38VR014H119015  | 38VR016H119015  |               |
|-------------------------|------------------|----------------|------------------|------------------|------------------|-----------------|-----------------|---------------|
| Power supply            |                  | V-Ph-Hz        | 380-415V-3N~50Hz | 380-415V-3N~50Hz | 380-415V-3N~50Hz | 380-415-3N~50Hz | 380-415-3N~50Hz |               |
| Cooling                 | Capacity         | kW             | 20               | 22.4             | 26               | 33.5            | 40              | 45            |
|                         |                  | RT             | 5.7              | 6.4              | 7.4              | 9.5             | 11.4            | 12.9          |
|                         | Input            | kW             | 6.1              | 6.8              | 7.6              | 9.85            | 11.9            | 13.6          |
|                         | EER              | KBtu/h/kW      | 11.19            | 11.23            | 11.67            | 11.6            | 11.43           | 11.33         |
| Heating                 | Capacity         | kW             | 22               | 24.5             | 28.5             | 33.5            | 45              | 50            |
|                         |                  | RT             | 6.29             | 7                | 8.1              | 9.5             | 12.86           | 14.3          |
|                         | Input            | kW             | 6.1              | 5.9              | 6.8              | 8.38            | 11.1            | 12.7          |
|                         | COP              | KBtu/h/kW      | 12.32            | 14.16            | 14.30            | 13.65           | 13.82           | 13.41         |
| Outdoor sound level(*3) |                  | dB(A)          | 59               | 59               | 60               | 62              | 62              | 62            |
| Pipe connections        | Liquid side      | mm             | Φ9.53            | Φ9.53            | Φ9.53            | Φ12.7           | Φ12.7           | Φ12.7         |
|                         | Gas side         | mm             | Φ19.1            | Φ19.1            | Φ22.2            | Φ22.2           | Φ22.2           | Φ25.4         |
| Connectable             | Total capacity   | %              | 50-130%          | 50-130%          | 50-130%          | 50-130%         | 50-130%         | 50-130%       |
|                         | Max.quantity     |                | 10               | 11               | 12               | 13              | 14              | 15            |
| Compressor              | Type             |                | Rotary           | Rotary           | Rotary           | Rotary          | Rotary          | Rotary        |
|                         | Brand            |                | mitsubishi       | mitsubishi       | mitsubishi       | mitsubishi      | mitsubishi      | mitsubishi    |
|                         | Capacity         | Btu/h          | 13980            | 16860            | 16860            | 57526           | 13980x2         | 16860x2       |
|                         | Crankcase        | W              | 25               | 25               | 25               | 5.2             | 25x2            | 25x2          |
|                         | Refrigerant oil  | Type           | FV50S            | FV50S            | FV50S            | FV50S           | FV50S           | FV50S         |
|                         | Refrigerant oil  | ml             | 1400+1300        | 1700+1500        | 1700+1500        | 1700+1500       | 1400x2+2500     | 1700x2+3600   |
| Fan Motor               | Type             |                | DC motor         | DC motor         | DC motor         | DC              | DC+AC           | DC+AC         |
|                         | Quantity         |                | 2                | 2                | 2                | 2               | 1+1             | 1+1           |
|                         | Output           | W              | 210/160          | 200/150          | 200/150          | 220+180         | 560/320         | 560/320       |
|                         |                  | CFM            | 6470             | 6173             | 6173             | 6374            | 9750            | 9750          |
| Outdoor unit            | Dimension(WxHxD) | mm             | 1120x1558x528    | 1120x1558x528    | 1120x1558x528    | 1120x1558x528   | 1360x1650x540   | 1460x1650x540 |
|                         |                  | mm             | 1270x1720x565    | 1270x1720x565    | 1270x1720x565    | 1270x1720x565   | 1450x1785x560   | 1550x1785x560 |
|                         | Net/Gross weight | kg             | 137/153          | 146.5/162.5      | 147/163          | 157/173         | 240/260         | 275/290       |
| Refrigerant             | Type             |                | R410A            | R410A            | R410A            | R410A           | R410A           | R410A         |
|                         | Charged volume   | g              | 4800             | 6200             | 6200             | 3750            | 9000            | 12000         |
| Throttle type           |                  |                | EXV              |                  |                  |                 |                 |               |
| Design pressure         |                  | MPa            | 4.4/2.6          |                  |                  |                 |                 |               |
| Ambient temp            | Cooling          | °C             | -15~46           | -15~46           | -15~46           | -5~48           | -5~48           | -5~48         |
|                         | Heating          |                | -15~24           | -15~24           | -15~24           | -15~24          | -15~24          | -15~24        |

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19 °C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7 °C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, sound level might be affected by ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

## Mini H Series - Heat Pump 1 Phase



208/230V~1Ph~60Hz

38VR004H11301S  
38VR004H113010  
38VR005H113010  
38VR006H113010

220-240V/1Ph~50Hz

38VR003H112010 38VR005H112010  
38VR004H11201S 38VR006H112010  
38VR004H112010

## Specifications 60Hz

| Sale Model                |                     |                   | 38VR004H11301S    | 38VR004H113010    | 38VR005H113010    | 38VR006H113010    |       |
|---------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| Power supply              |                     | V-Ph-Hz           | 208/230V-1Ph~60Hz | 208/230V-1Ph~60Hz | 208/230V-1Ph~60Hz | 208/230V-1Ph~60Hz |       |
| Cooling                   | Capacity            | kW                | 10.5              | 12                | 14                | 15.5              |       |
|                           |                     | RT                | 3                 | 3.4               | 4.0               | 4.4               |       |
|                           | Input               | kW                | 2.68              | 3.25              | 3.95              | 4.52              |       |
|                           | EER                 | KBtu/h/kW         | 13.38             | 12.59             | 12.08             | 11.70             |       |
| Heating                   | Capacity            | kW                | 11.5              | 13.2              | 15.4              | 17                |       |
|                           |                     | RT                | 3.3               | 3.8               | 4.4               | 4.9               |       |
|                           | Input               | kW                | 2.9               | 3.47              | 4.16              | 4.77              |       |
| Coneectable indoor unit   | COP                 | KBtu/h/kW         | 13.55             | 12.97             | 12.62             | 12.15             |       |
|                           | Total capacity      | %                 | 50-130%           | 50-130%           | 50-130%           | 50-130%           |       |
| Outdoor sound level (*3)  | Max.quantity        |                   | 5                 | 6                 | 6                 | 7                 |       |
|                           | dB(A)               |                   | 57                | 57                | 57                | 57                |       |
| Pipe connections          | Liquid side         | mm                | Φ9.53             | Φ9.53             | Φ9.53             | Φ9.53             |       |
|                           | Gas side            | mm                | Φ15.9             | Φ15.9             | Φ15.9             | Φ19.1             |       |
| Compressor                | Type                |                   | Rotary            | Rotary            | Rotary            | Rotary            |       |
|                           | Brand               |                   | mitsubishi        | mitsubishi        | mitsubishi        | mitsubishi        |       |
|                           | Capacity            | Btu/h             | 24330             | 33710             | 33710             | 47713             |       |
|                           | Input               | W                 | 2200              | 3010              | 3010              | 4240              |       |
|                           | Crankcase           | W                 | 25                | 27                | 25                | 20                |       |
|                           |                     | Type              |                   | FV50S             | FV50S             | FV50S             | FV50S |
| Refrigerant oil           | ml                  |                   | 670               | 870               | 870               | 1400              |       |
|                           | Type                |                   | DC motor          | DC motor          | DC motor          | DC motor          |       |
| Fan Motor                 | Quantity            |                   | 1                 | 2                 | 2                 | 2                 |       |
|                           | Output              | W                 | 170               | 2 x 85            | 2 x 85            | 2 x 85            |       |
|                           | Air floor rate      | CFM               |                   | 3000              | 3531              | 3531              | 3531  |
|                           |                     | m <sup>3</sup> /h |                   | 5100              | 6000              | 6000              | 6000  |
| Outdoor unit              | Dimension(WxHxD)    | mm                | 1075x966x396      | 900x1327x400      |                   |                   |       |
|                           | Packing (W x H x D) | mm                | 1120x1100x435     | 1030x1456x435     |                   |                   |       |
|                           | Net/Gross weight    | kg                | 78/85             | 95/106            | 95/106            | 102/113           |       |
| Refrigerant               | Type                |                   | R410a             |                   |                   |                   |       |
|                           | Charged volume      | kg                | 3                 | 3.3               | 3.9               | 3.9               |       |
| Throttle type             |                     |                   | EXV               | EXV               | EXV               | EXV               |       |
| Design pressure           |                     | MPa               | 4.4/2.6           | 4.4/2.6           | 4.4/2.6           | 4.4/2.6           |       |
| Ambient temperature range | Cooling             | °C                | -15~43            |                   |                   |                   |       |
|                           | Heating             | °C                | -15~27            |                   |                   |                   |       |

Note:

- The cooling conditions: indoor temp.: 27°C DB, 19°C WB outdoor temp.: 35°C DB equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB, 15°C WB outdoor temp.: 7°C DB equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

## Specifications 50Hz

| Model                                       |                   |           | 38VR003H112010    | 38VR004H11201S    | 38VR004H112010    | 38VR005H112010    | 38VR006H112010     |
|---|-------------------|-----------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Power supply                                |                   | V-Ph-Hz   | 220-240V/1Ph~50Hz | 220-240V/1Ph~50Hz | 220-240V/1Ph~50Hz | 220-240V/1Ph~50Hz | 220-240V/1Ph~50Hz  |
| Cooling                                     | Capacity          | kW        | 7.2 (1.5-8.0)     | 9.0 (2.0-10.0)    | 12.3              | 14                | 15.5               |
|   |                   | RT        | 2.3               | 3.0               | 3.5               | 4.0               | 4.4                |
|   | Input             | kW        | 1.85              | 2.30              | 3.25              | 3.95              | 4.52               |
|   | EER               | KBtu/h/kW | 13.31             | 13.38             | 12.90             | 12.08             | 11.70              |
| Heating                                     | Capacity          | kW        | 7.2(1.6-8.4)      | 9.0(2.1-10.5)     | 13.2              | 15.4              | 17                 |
|   |                   | RT        | 2.6               | 3.3               | 3.8               | 4.4               | 4.9                |
|   | Input             | kW        | 1.79              | 2.27              | 3.47              | 4.16              | 4.77               |
| Coneectable indoor unit                     | COP               | KBtu/h/kW | 13.72             | 13.55             | 12.97             | 12.62             | 12.15              |
|   | Total capacity    | %         | 50-130%           | 50-130%           | 50-130%           | 50-130%           | 50-130%            |
| Outdoor sound level (sound pressure level ) | Max.quantity      |           | 4                 | 5                 | 6                 | 6                 | 7                  |
|   | dB(A)             |           | 56                | 57                | 57                | 57                | 57                 |
| Refrigerant Pipe                            | Liquid side       | mm        | Φ9.52             | Φ9.52             | Φ9.52             | Φ9.52             | Φ9.52              |
|   | Gas side          | mm        | Φ15.9             | Φ15.9             | Φ15.9             | Φ15.9             | Φ19.1              |
| Compressor                                  | Type              |           | Rotary            | Rotary            | Rotary            | Rotary            | Rotary             |
|   | Brand             |           | mitsubishi        | mitsubishi        | mitsubishi        | mitsubishi        | mitsubishi         |
|   | Capacity          | Btu/h     | 24334             | 24334             | 33642             | 33642             | 47700              |
|   | Crankcase         | W         | 25                | 25                | 25                | 25                | 25                 |
|   | Refrigerant oil   | ml        | FV50S 670ml+200ml | FV50S 670ml+200ml | FV50S 870ml+630ml | FV50S 870ml+630ml | FV50S 1400ml+250ml |
| Fan motor                                   | Quantities        |           | 1                 | 1                 | 2                 | 2                 | 2                  |
|   | Type              |           | DCmotor           | DCmotor           | DCmotor           | DCmotor           | DCmotor            |
|   | Brand             |           | Panasonic         | Panasonic         | Panasonic         | Panasonic         | Panasonic          |
|   | Output            | W         | 170               | 170               | 2*85              | 2*85              | 2*85               |
| Air flow rate                               | m <sup>3</sup> /h |           | 5500              | 5500              | 6000              | 6000              | 6000               |
|   | CFM               |           | 3235              | 3235              | 3529              | 3529              | 3529               |
| Outdoor unit                                | Dimension(W*H*D)  | mm        | 1075*966*396      | 1075*966*396      | 900*1327*400      | 900*1327*400      | 900*1327*400       |
|   | Packing (W*H*D)   | mm        | 1120x1100x435     | 1120*1100*435     | 1030*1456*435     | 1030*1456*435     | 1030*1456*435      |
|   | Net/Gross weight  | kg        | 75.5/85.5         | 75.5/85.5         | 95/106            | 95/106            | 100/111            |
| Refrigerant                                 | Type              |           | R410A             | R410A             | R410A             | R410A             | R410A              |
|   | Charged volume    | g         | 2800              | 3000              | 3300              | 3900              | 3900               |
| Throttle type                               |                   |           | EXV               | EXV               | EXV               | EXV               | EXV                |
| Design pressure                             |                   | MPa       | 4.4/2.6           | 4.4/2.6           | 4.4/2.6           | 4.4/2.6           | 4.4/2.6            |
| Ambient temp                                | Cooling           | °C        | -15~43            |                   |                   |                   |                    |
|   | Heating           | °C        | -15~27            |                   |                   |                   |                    |

## Mini H Series-Cooling Only 1 Phase

### Specifications 50/60Hz

| Model name                        |                  | 38VR003C11A010                                  | 38VR004C11A01S    | 38VR004C11A010 | 38VR005C11A010 | 38VR006C11A010 |              |
|-----------------------------------|------------------|---|-------------------|----------------|----------------|----------------|--------------|
| Power supply                      | V-Ph-Hz          | 1-phase, 220-240V, 50Hz 1-phase, 208-230V, 60Hz |                   |                |                |                |              |
| Cooling <sup>1</sup>              | Capacity         | kW  | 7.2               | 9.2            | 11             | 14.5           | 17           |
|                                   | Power input      | kW  | 1.64              | 2.13           | 2.75           | 3.57           | 4.24         |
|                                   | EER              |   | 4.39              | 4.32           | 4              | 4.06           | 4.26         |
| Connected indoor units            | Total capacity   | 45-130% of outdoor unit capacity                |                   |                |                |                |              |
|                                   | Maximum quantity |   | 4                 | 5              | 6              | 8              | 9            |
| Compressor                        | Type             | DC inverter                                     |                   |                |                |                |              |
|                                   | Quantity         | 1   |                   |                |                |                |              |
| Fan motor                         | Motor Type       | DC  |                   |                |                |                |              |
|                                   | Quantity         | 1   |                   |                |                |                |              |
| Refrigerant                       | Type             | R410A   |                   |                |                |                |              |
|                                   | Factory charging | kg  | 1.4               | 1.4            | 1.4            | 2.6            | 2.6          |
| Pipe connections                  | Liquid pipe      | mm  | Φ9.53             | Φ9.53          | Φ9.53          | Φ9.53          | Φ9.53        |
|                                   | Gas pipe         | mm  | Φ15.9             | Φ15.9          | Φ15.9          | Φ15.9          | Φ15.9        |
| Airflow rate                      |                  | m <sup>3</sup> /h                               | 3400              | 3400           | 3400           | 5100           | 5100         |
| Sound pressure level <sup>2</sup> |                  | dB(A)   | 54                | 54             | 54             | 55             | 55           |
| Net dimensions (WxHxD)            |                  | mm  | 973x862x302       | 973x862x302    | 973x862x302    | 1053x865x523   | 1053x865x523 |
| Packed dimensions (WxHxD)         |                  | mm  | 1025x910x410      | 1025x910x410   | 1025x910x410   | 1120x890x560   | 1120x890x560 |
| Net weight                        |                  | kg  | 58                | 58             | 58             | 85             | 85           |
| Gross weight                      |                  | kg  | 63                | 63             | 63             | 92             | 92           |
| Operating temperature range       |                  | °C  | Cooling: -5 to 48 |                |                |                |              |

#### Notes:

- Indoor air temperature 27°C (80.6 °F) DB, 19°C (66.2 °F) WB; outdoor air temperature 35°C (95 °F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured at a position 1m (3.28ft.) in front of the unit and 1.3m (4.26ft.) above the floor in a semi-anechoic chamber.
- For a system with more than one IDU, to ensure even distribution of refrigerant, the capacity of each indoor unit should not exceed 8kW.

## Super XS Series - Heat Pump 1 Phase

### Specifications 50/60Hz

| HP                            |                | 3                                |                                 | 4              |              | 4.5            |              |  |
|-------------------------------|----------------|----------------------------------|---------------------------------|----------------|--------------|----------------|--------------|--|
| Model                         |                | 38VR003H112016                   |                                 | 38VR0S4H112016 |              | 38VR004H112016 |              |  |
| Power supply                  | V/N/Hz         | 220-240/1/ 50(60)                |                                 |                |              |                |              |  |
| Cooling <sup>1</sup>          | Capacity       | kW                               | 8.0                             |                | 10.0         |                | 12.0         |  |
|                               |                | kBtu/h                           | 27.3                            |                | 34.1         |                | 40.9         |  |
|                               | Power input    | kW                               | 2                               |                | 2.55         |                | 3.1          |  |
|                               | EER            |                                  | 4                               |                | 3.92         |                | 3.87         |  |
| Heating <sup>2</sup>          | Capacity       | kW                               | 9.0                             |                | 12.0         |                | 14.0         |  |
|                               |                | kBtu/h                           | 30.7                            |                | 40.9         |                | 47.8         |  |
|                               | Power input    | kW                               | 1.95                            |                | 2.97         |                | 3.45         |  |
|                               | COP            |                                  | 4.62                            |                | 4.04         |                | 4.06         |  |
| Connectable indoor unit       | Total capacity | 45~130% of outdoor unit capacity |                                 |                |              |                |              |  |
|                               | Max. quantity  |                                  | 4                               |                | 6            |                | 7            |  |
| Compressor                    | Type           | DC inverter                      |                                 |                |              |                |              |  |
|                               | Quantity       | 1                                |                                 |                |              |                |              |  |
| Fan motor                     | Type           | DC                               |                                 |                |              |                |              |  |
|                               | Quantity       | 1                                |                                 |                |              |                |              |  |
| Refrigerant                   | Type           | R410A                            |                                 |                |              |                |              |  |
|                               | Factory charge | kg                               | 2.2                             |                | 2.35         |                | 3            |  |
| Pipe connections <sup>3</sup> | Liquid pipe    | mm                               | Φ9.53                           |                | Φ9.53        |                | Φ9.53        |  |
|                               | Gas pipe       | mm                               | Φ15.9                           |                | Φ15.9        |                | Φ15.9        |  |
| Airflow rate                  |                | m <sup>3</sup> /h                | 3700                            |                | 5200         |                | 5000         |  |
| Sound pressure level          |                | dB(A)                            | 54                              |                | 54           |                | 56           |  |
| Net dimensions (WxHxD)        |                | mm                               | 982x712x440                     |                | 950x840x426  |                | 950x840x426  |  |
| Packed dimensions (WxHxD)     |                | mm                               | 1048x810x485                    |                | 1025x950x510 |                | 1025x950x510 |  |
| Net weight                    |                | kg                               | 53                              |                | 71.5         |                | 83           |  |
| Gross weight                  |                | kg                               | 57.5                            |                | 81           |                | 92           |  |
| Operating temperature range   |                | °C                               | Cooling: -5~55, Heating: -15~27 |                |              |                |              |  |

| HP                            |                | 5                                |                                 | 6              |              |  |
|-------------------------------|----------------|----------------------------------|---------------------------------|----------------|--------------|--|
| Model                         |                | 38VR005H112016                   |                                 | 38VR006H112016 |              |  |
| Power supply                  | V/N/Hz         | 220-240/1/ 50(60)                |                                 |                |              |  |
| Cooling <sup>1</sup>          | Capacity       | kW                               | 14.0                            |                | 15.5         |  |
|                               |                | kBtu/h                           | 47.8                            |                | 52.9         |  |
|                               | Power input    | kW                               | 3.75                            |                | 4.8          |  |
|                               | EER            |                                  | 3.73                            |                | 3.23         |  |
| Heating <sup>2</sup>          | Capacity       | kW                               | 16.0                            |                | 18.0         |  |
|                               |                | kBtu/h                           | 54.6                            |                | 61.4         |  |
|                               | Power input    | kW                               | 3.85                            |                | 4.65         |  |
|                               | COP            |                                  | 4.16                            |                | 3.87         |  |
| Connectable indoor unit       | Total capacity | 45~130% of outdoor unit capacity |                                 |                |              |  |
|                               | Max. quantity  |                                  | 8                               |                | 9            |  |
| Compressor                    | Type           | DC inverter                      |                                 |                |              |  |
|                               | Quantity       | 1                                |                                 |                |              |  |
| Fan motor                     | Type           | DC                               |                                 |                |              |  |
|                               | Quantity       | 1                                |                                 |                |              |  |
| Refrigerant                   | Type           | R410A                            |                                 |                |              |  |
|                               | Factory charge | kg                               | 3.4                             |                | 3.8          |  |
| Pipe connections <sup>3</sup> | Liquid pipe    | mm                               | Φ9.53                           |                | Φ9.53        |  |
|                               | Gas pipe       | mm                               | Φ15.9                           |                | Φ19.1        |  |
| Airflow rate                  |                | m <sup>3</sup> /h                | 5400                            |                | 5200         |  |
| Sound pressure level          |                | dB(A)                            | 56                              |                | 56           |  |
| Net dimensions (WxHxD)        |                | mm                               | 1040x865x523                    |                | 1040x865x523 |  |
| Packed dimensions (WxHxD)     |                | mm                               | 1120x980x560                    |                | 1120x980x560 |  |
| Net weight                    |                | kg                               | 90.4                            |                | 94.4         |  |
| Gross weight                  |                | kg                               | 100.4                           |                | 104.4        |  |
| Operating temperature range   |                | °C                               | Cooling: -5~55, Heating: -15~27 |                |              |  |

#### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.



## Super XS Series-Heat Pump 3 Phase

### ■ Specifications 50/60Hz

| HP                                |                  |                                  | 7              | 8              | 9              | 10             | 12             |
|-----------------------------------|------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Model                             |                  |                                  | 38VR007H119016 | 38VR008H119016 | 38VR009H119016 | 38VR010H119016 | 38VR012H119016 |
| Power supply                      | V/N/Hz           | 380-415/3/50(60)                 |                |                |                |                |                |
| Cooling <sup>1</sup>              | Capacity         | kW                               | 20             | 22.4           | 26             | 28.5           | 33.5           |
|                                   |                  | kBtu/h                           | 68.2           | 76.4           | 88.7           | 97.2           | 114.3          |
|                                   | Power input      | kW                               | 5.6            | 6.3            | 7.6            | 8.4            | 9.2            |
|                                   | EER              |                                  | 3.57           | 3.56           | 3.42           | 3.39           | 3.64           |
| Heating <sup>2</sup><br>(Nominal) | Capacity         | kW                               | 20             | 22.4           | 26             | 28.5           | 33.5           |
|                                   |                  | kBtu/h                           | 68.2           | 76.4           | 88.7           | 97.2           | 114.3          |
|                                   | Power input      | kW                               | 4.7            | 5.3            | 6.6            | 7.3            | 8.1            |
|                                   | COP              |                                  | 4.26           | 4.23           | 3.94           | 3.9            | 4.14           |
| Heating <sup>2</sup><br>(Max)     | Capacity         | kW                               | 22.5           | 25             | 28.5           | 31.5           | 37.5           |
|                                   |                  | kBtu/h                           | 76.8           | 85.3           | 97.2           | 107.5          | 128.0          |
|                                   | Power input      | kW                               | 5.4            | 6              | 7.3            | 8.1            | 9.2            |
|                                   | COP              |                                  | 4.17           | 4.17           | 3.9            | 3.89           | 4.08           |
| Connected indoor unit             | Total capacity   | 50-130% of outdoor unit capacity |                |                |                |                |                |
|                                   | Maximum quantity |                                  | 11             | 13             | 15             | 16             | 20             |
| Compressor                        | Type             | DC inverter                      |                |                |                |                |                |
|                                   | Quantity         | 1                                |                |                |                |                |                |
| Fan motors                        | Type             | DC                               |                |                |                |                |                |
|                                   | Quantity         | 2                                |                |                |                |                |                |
| Refrigerant                       | Type             | R410A                            |                |                |                |                |                |
|                                   | Factory charge   | kg                               | 6.5            | 6.5            | 6.5            | 6.5            | 8              |
| Pipe connections <sup>3</sup>     | Liquid pipe      | mm                               | Φ9.53          | Φ9.53          | Φ9.53          | Φ9.53          | Φ12.7          |
|                                   | Gas pipe         | mm                               | Φ19.1          | Φ19.1          | Φ22.2          | Φ22.2          | Φ25.4          |
| Airflow rate                      |                  | m <sup>3</sup> /h                | 9000           | 9000           | 10000          | 11000          | 11300          |
| Sound pressure level <sup>4</sup> |                  | dB(A)                            | 58             | 58             | 59             | 60             | 61             |
| Net dimensions (WxHxD)            |                  | mm                               | 1120x1558x528  |                |                |                |                |
| Packed dimensions (WxHxD)         |                  | mm                               | 1270x1720x565  |                |                |                |                |
| Net weight                        |                  | kg                               | 143            | 144            | 144            | 144            | 157            |
| Gross weight                      |                  | kg                               | 159            | 160            | 160            | 160            | 173            |
| Operating temperature range       | Cooling          | °C                               | -5 to 55       |                |                |                |                |
|                                   | Heating          | °C                               | -20 to 24      |                |                |                |                |

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

## Super XS Series – Cooling Only 3 Phase

### ■ Specifications 50/60Hz

| HP                                |                  |                                  | 7              | 8              | 9              | 10             |  |
|-----------------------------------|------------------|----------------------------------|----------------|----------------|----------------|----------------|--|
| Model                             |                  |                                  | 38VR007C119016 | 38VR008C119016 | 38VR009C119016 | 38VR010C119016 |  |
| Power supply                      | V/N/Hz           | 380-415/3/50                     |                |                |                |                |  |
| Cooling <sup>1</sup>              | Capacity         | kW                               | 20.0           | 22.4           | 26.0           | 28.0           |  |
|                                   |                  | kBtu/h                           | 68.2           | 76.4           | 88.7           | 95.5           |  |
|                                   | Power Input      | kW                               | 5.13           | 5.93           | 7.43           | 8.24           |  |
| EER                               |                  | 3.9                              | 3.78           | 3.5            | 3.4            |                |  |
| Connected indoor unit             | Total Capacity   | 50-130% of outdoor unit capacity |                |                |                |                |  |
|                                   | Maximum Quantity |                                  | 10             | 13             | 15             | 16             |  |
| Compressor                        | Type             | DC inverter                      |                |                |                |                |  |
|                                   | Quantity         | 1                                |                |                |                |                |  |
| Fan                               | Type             | AC                               |                |                |                |                |  |
|                                   | Quantity         | 2                                |                |                |                |                |  |
| Refrigerant                       | Type             | R410A                            |                |                |                |                |  |
|                                   | Factory charging | kg                               | 3.9            |                |                |                |  |
| Pipe connections                  | Liquid pipe      | mm                               | Φ9.53          |                |                |                |  |
|                                   | Gas pipe         | mm                               | Φ19.1          |                |                |                |  |
| Airflow rate                      |                  | m <sup>3</sup> /h                | 7150           |                |                |                |  |
| Sound pressure level <sup>2</sup> |                  | dB(A)                            | 57             | 57             | 58             | 59             |  |
| Net dimensions (WxHxD)            |                  | mm                               | 902x1327x370   |                |                |                |  |
| Packed dimensions (WxHxD)         |                  | mm                               | 1030x1456x435  |                |                |                |  |
| Net weight                        |                  | kg                               | 115            |                |                |                |  |
| Gross weight                      |                  | kg                               | 125            |                |                |                |  |
| Operating temperature range       |                  | °C                               | -5 ~ 55        |                |                |                |  |

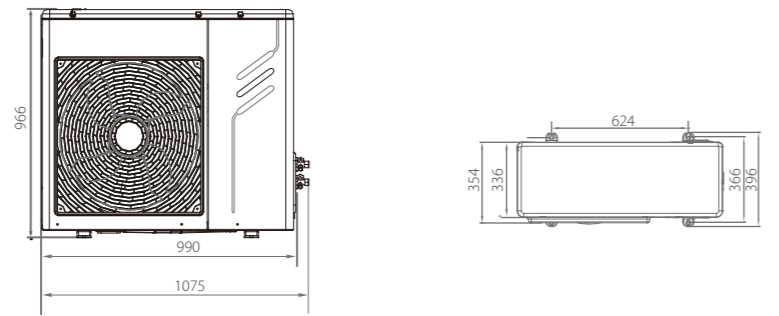
| HP                                |                  |                                  | 7              | 8              | 9              | 10             |  |
|-----------------------------------|------------------|----------------------------------|----------------|----------------|----------------|----------------|--|
| Model                             |                  |                                  | 38VR007C118016 | 38VR008C118016 | 38VR009C118016 | 38VR010C118016 |  |
| Power supply                      | V/N/Hz           | 380-415/3/60                     |                |                |                |                |  |
| Cooling <sup>1</sup>              | Capacity         | kW                               | 20.0           | 22.4           | 26.0           | 28.0           |  |
|                                   |                  | kBtu/h                           | 68.2           | 76.4           | 88.7           | 95.5           |  |
|                                   | Power Input      | kW                               | 5.13           | 5.93           | 7.43           | 8.24           |  |
| EER                               |                  | 3.9                              | 3.78           | 3.5            | 3.4            |                |  |
| Connected indoor unit             | Total Capacity   | 50-130% of outdoor unit capacity |                |                |                |                |  |
|                                   | Maximum Quantity |                                  | 10             | 13             | 15             | 16             |  |
| Compressor                        | Type             | DC inverter                      |                |                |                |                |  |
|                                   | Quantity         | 1                                |                |                |                |                |  |
| Fan                               | Type             | AC                               |                |                |                |                |  |
|                                   | Quantity         | 2                                |                |                |                |                |  |
| Refrigerant                       | Type             | R410A                            |                |                |                |                |  |
|                                   | Factory charging | kg                               | 3.9            |                |                |                |  |
| Pipe connections                  | Liquid pipe      | mm                               | Φ9.53          |                |                |                |  |
|                                   | Gas pipe         | mm                               | Φ19.1          |                |                |                |  |
| Airflow rate                      |                  | m <sup>3</sup> /h                | 7150           |                |                |                |  |
| Sound pressure level <sup>2</sup> |                  | dB(A)                            | 58             | 58             | 59             | 60             |  |
| Net dimensions (WxHxD)            |                  | mm                               | 902x1327x370   |                |                |                |  |
| Packed dimensions (WxHxD)         |                  | mm                               | 1030x1456x435  |                |                |                |  |
| Net weight                        |                  | kg                               | 115            |                |                |                |  |
| Gross weight                      |                  | kg                               | 125            |                |                |                |  |
| Operating temperature range       |                  | °C                               | -5 ~ 55        |                |                |                |  |

Notes:

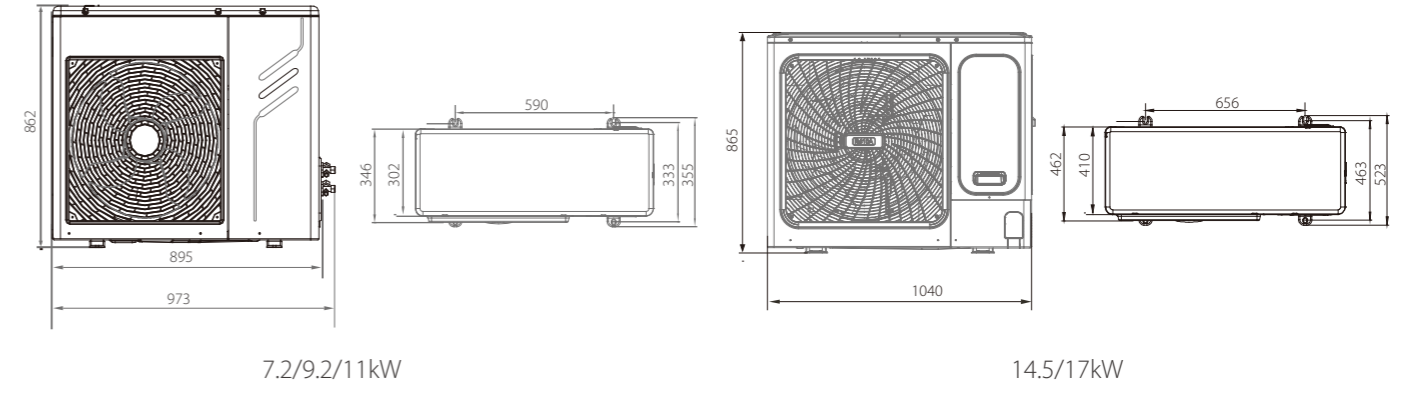
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

## Dimension

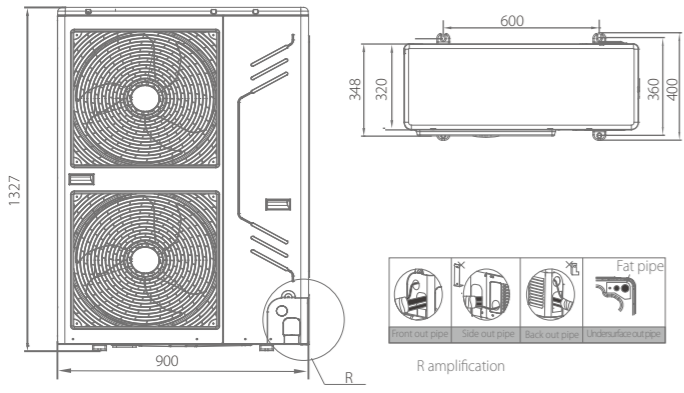
### Mini H Series unit Heat Pump 8/10.5kW



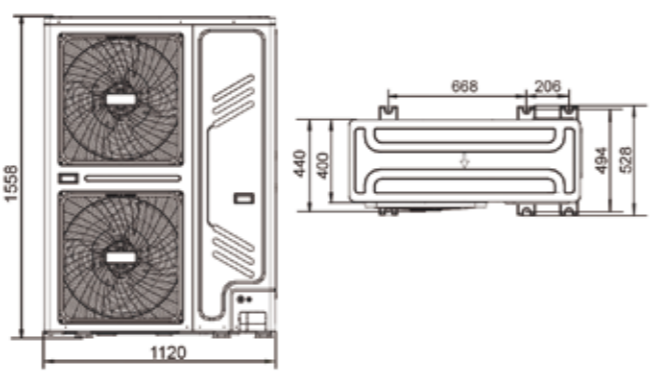
### Mini H Series-Cooling Only



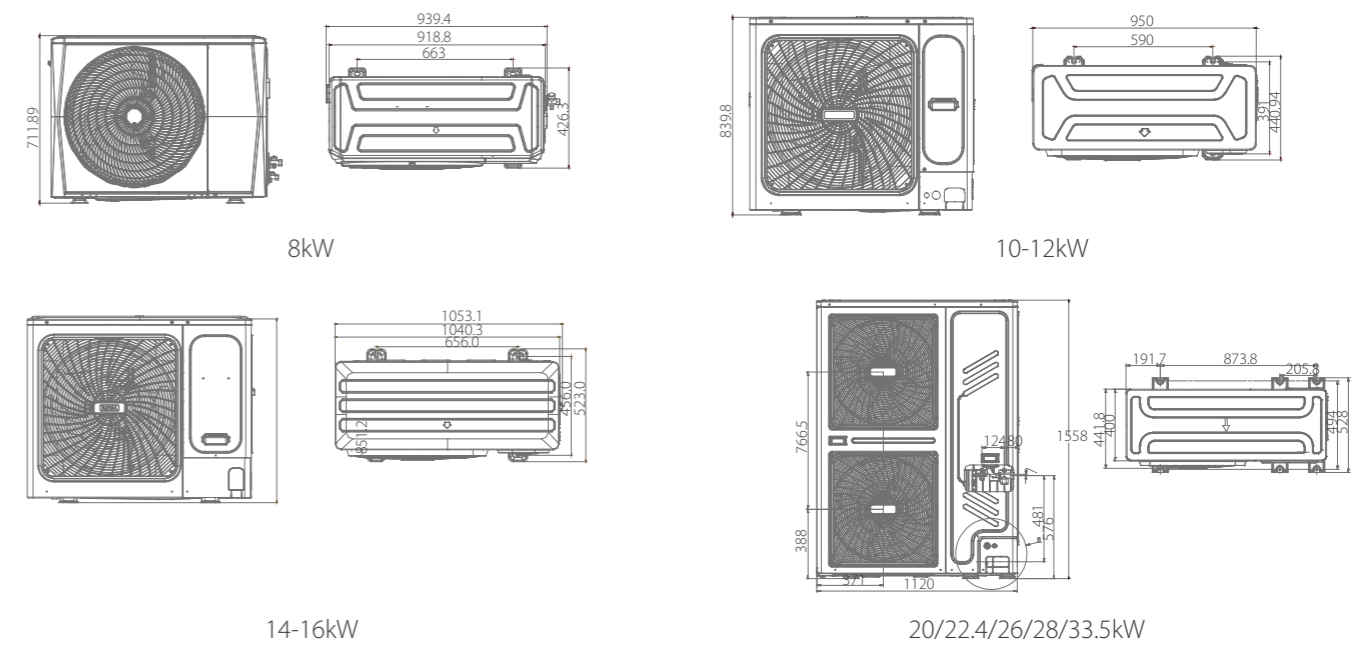
### 12/14/15.5/17.5kW



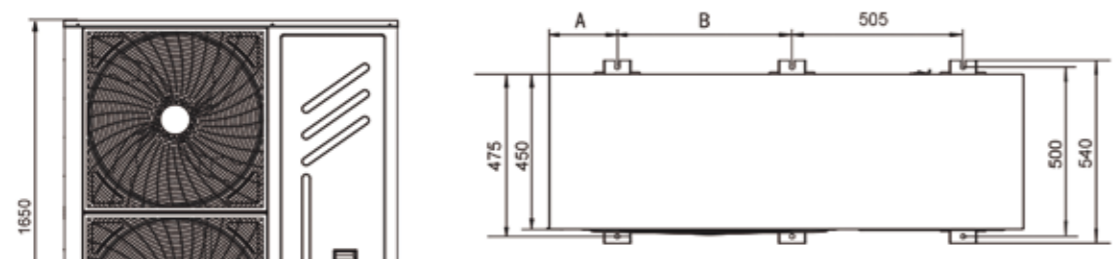
### 20/22.4/26/28/33.5kW



### Super XS-Heat Pump



### 40/45kW



**Table 4-1**

| Model \ Size | A   | B   | C    |
|--------------|-----|-----|------|
| 40kW         | 175 | 505 | 1360 |
| 45kW         | 225 | 555 | 1460 |

### Super XS-Cooling Only

