



## 40VQS Series

*Chilled water coil 1-way cassette*  
14,400 - 45,390 BTUH



# 40VQS 1-Way Cassette type Series

## Features

### Horizontal louver/ Air discharge

The air discharge direction can be changed.

### Air filter

Filter out dust (Behind the air intake grille).



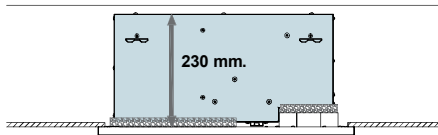
### Air intake grille

Air intake in through here.

### Earth screw

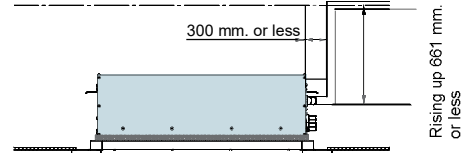
Inside the electric box.

**Compact design** ultra slim body with a minimum of 230 mm. especially suitable for narrow ceiling places.



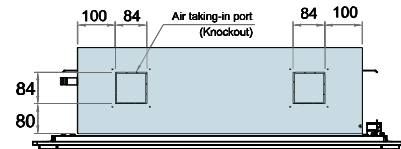
Model 12,000 Btu/Hr.

**Standard built-in drain pump** with 661 mm. Pump head and slim body makes the installation free from limitation of story height.



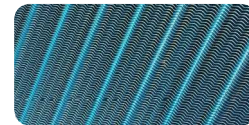
**Housing** construct made from galvanized steel, with the assembly easily removable from the basic unit.

**Fresh air intake port** for high quality air supply requirement, creates more comfort and healthy environment.



### Blue fin with Epoxy and Hydrophilic coating

- Prevents dirt from sticking to the fins
- Condensation water flows and water away dirt
- Anti-corrosion caused by oxidation
- Increases the efficiency of heat exchanger



### Controller standard and optional



CARR-ACX33CE-CRD + CARR-INTLCD54  
(Standard)

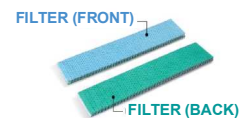


CARR-INTDT09  
(Option)



CARR-INTDT09-WIFI  
(Option)

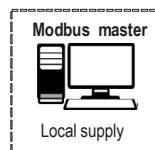
### IAQ Filter Model TCB-ACFC1CPE (Option)



### BAS controller (Option)

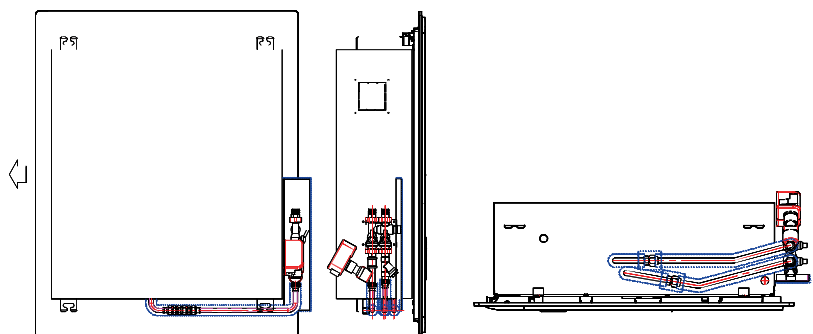
#### Model CARR-INTM9DT09X

- Open communication protocol Modbus RS-485
- Manages the DC motor or EC motor
- Manages the valve actuator proportional type
- External contract for key card ON-OFF



### Built in PICV (Option)

Factory assembled nest of valves and accessories help installers avoid installation mistakes onsite.





*The perfect choice for Lobby small size,  
meeting room, hotels and reception areas.*

## Special Feature

- Auto swing mechanism guarantees even distribution of air flow and better balance of room temperature SWING MODE with vertical supply grille ensures coolness throughout the room. Easily to maintenance.
- Adjustable Fan Speed with AUTO FAN cools down the room quickly. MICROPROCESSOR enables precise temperature control up to 1 degree Celsius.
- TIME DELAY, installed safety protection system, protects and prolongs usage life of compressor by delaying it for 3 minutes before restarting.
- New slim design and new color make 40VQS blended to your decor of any room. Durable anti-rust casing helps the unit last longer.
- Washable filter enhances Indoor Air Quality.

## Specification

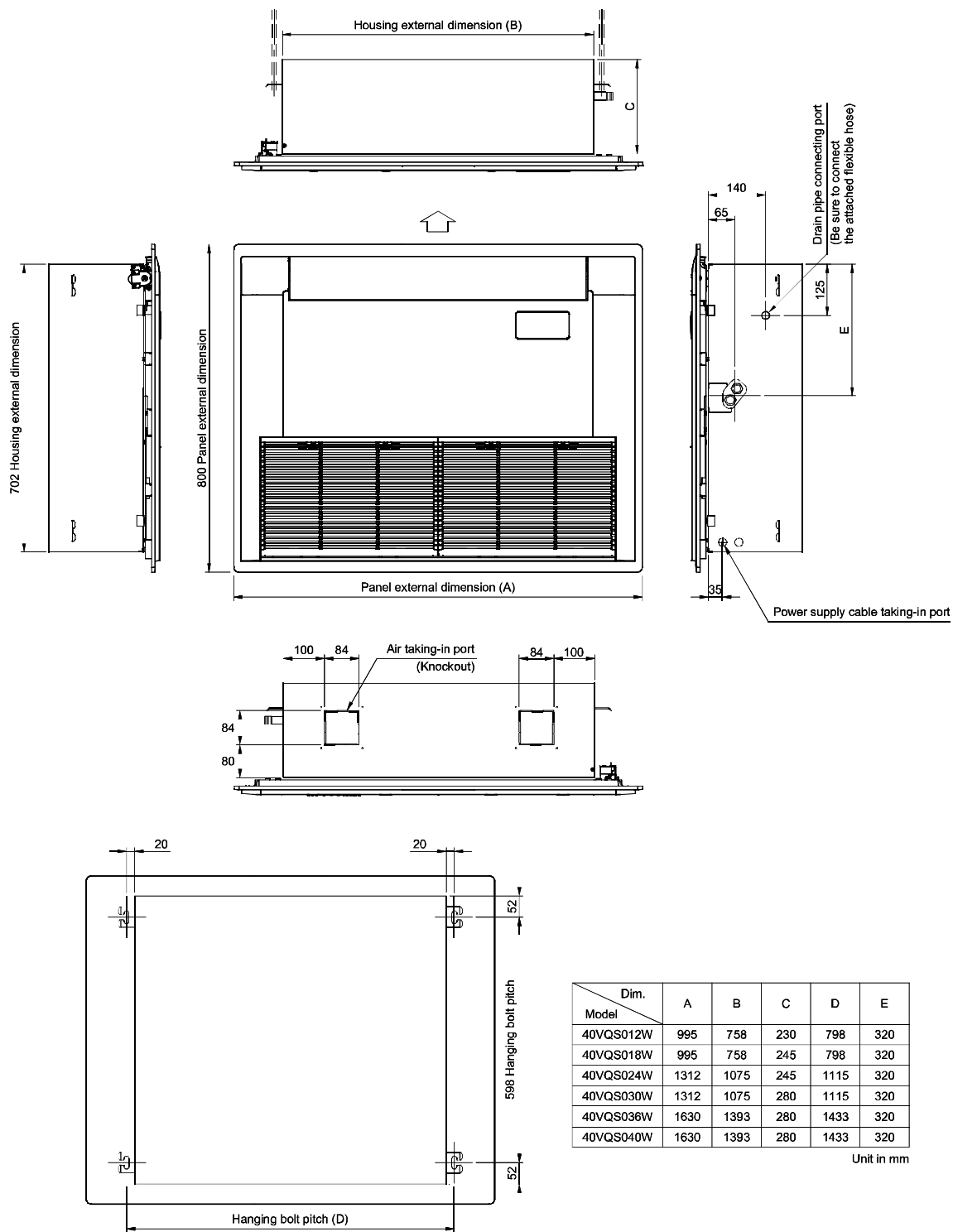
| Description                    |                       |       | Chilled Water Coil - 1 Way Cassette Type |                        |                   |                   |                   |                   |
|--------------------------------|-----------------------|-------|------------------------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
| Model Name                     |                       |       | 40VQS                                    |                        |                   |                   |                   |                   |
|                                |                       |       | 012W                                     | 018W                   | 024W              | 030W              | 036W              | 040W              |
| Cooling Capacity               | W                     |       | 4,220                                    | 6,100                  | 7,650             | 9,730             | 11,750            | 13,510            |
|                                | Btu/hr.               |       | 14,400                                   | 20,800                 | 26,100            | 33,200            | 40,100            | 46,100            |
| Power Supply                   |                       |       | 220V / 1Ph / 50Hz.                       |                        |                   |                   |                   |                   |
| Power Consumption              | W                     |       | 63                                       | 86                     | 130               | 175               | 152               | 251               |
| Operating Current              | Amp.                  |       | 0.30                                     | 0.40                   | 0.59              | 0.80              | 0.69              | 1.18              |
| Indoor Air Circulation, Max.   | cmh                   |       | 680                                      | 1,020                  | 1,360             | 1,700             | 2,040             | 2,380             |
|                                | cfm                   |       | 400                                      | 600                    | 800               | 1,000             | 1,200             | 1,400             |
| Fan Motor                      | Type                  |       | AC Motor (BLDC Motor optional)           |                        |                   |                   |                   |                   |
|                                | Q'ty                  |       | 1                                        | 1                      | 1                 | 1                 | 1                 | 1                 |
| Blower                         | Type                  |       | Double inlet centrifugal forward curve   |                        |                   |                   |                   |                   |
|                                | Drive type            |       | Direct                                   |                        |                   |                   |                   |                   |
|                                | Dia. x Length         | mm    | 152 x 164                                | 164 x 127<br>164 x 201 | 164 x 201         | 187 x 201         | 187 x 231         | 187 x 231         |
|                                | Q'ty                  |       | 2                                        | 1, 1                   | 2                 | 2                 | 2                 | 2                 |
| Heat Exchanger                 | Face Area             | Sq.m  | 0.156                                    | 0.211                  | 0.244             | 0.260             | 0.273             | 0.307             |
|                                |                       | Sq.ft | 1.679                                    | 2.274                  | 2.627             | 2.802             | 2.940             | 3.307             |
|                                | Row                   |       | 2                                        | 2                      | 2                 | 3                 | 3                 | 3                 |
|                                | Tube size / type      |       | Copper tube 7.00 mm / Smooth             |                        |                   |                   |                   |                   |
|                                |                       |       | 18 FPI / Aluminium                       |                        |                   |                   |                   |                   |
| Unit Dimension<br>(H x DW x W) | Housing               | mm    | 230 x 758 x 702                          | 245 x 758 x 702        | 245 x 1,075 x 702 | 280 x 1,075 x 702 | 280 x 1,393 x 702 | 280 x 1,393 x 702 |
|                                | Ceiling Panel         | mm    | 30 x 995 x 800                           |                        |                   |                   |                   |                   |
| Net Weight                     | Housing               | kg    | 24.0                                     | 27.0                   | 32.0              | 37.0              | 42.0              | 44.0              |
|                                | Ceiling Panel         | kg    | 4.0                                      |                        |                   | 5.0               |                   | 6.5               |
| Connecting Pipe                | Water Inlet           | inch  | 1/2                                      | 1/2                    | 1/2               | 1/2               | 1/2               | 1/2               |
|                                | Water Outlet          | inch  | 1/2                                      | 1/2                    | 1/2               | 1/2               | 1/2               | 1/2               |
|                                | Water connecting type |       | Flair nut (Female Pipe Thread)           |                        |                   |                   |                   |                   |
|                                | Drain O.D.            | inch  | 1/4" (32 mm.) (VP25)                     |                        |                   |                   |                   |                   |

## Performance data

| Model     | Entering<br>Chilled<br>Water<br>Temp.<br>F | Entering Air Temp (Fdb / Fwb) |                               |                            |                                     |                            |                               |                            |                                     |                            |                               |                            |                                     |                            |                               |                            |                                     |
|-----------|--------------------------------------------|-------------------------------|-------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------------|
|           |                                            | 76 / 63                       |                               |                            |                                     | 78 / 65                    |                               |                            |                                     | 80 / 67                    |                               |                            |                                     | 82 / 69                    |                               |                            |                                     |
|           |                                            | Total<br>Capacity<br>btu/h    | Sensible<br>Capacity<br>btu/h | Chilled<br>Flowrate<br>gpm | Water<br>Pressure<br>Drop<br>ft.wg. | Total<br>Capacity<br>btu/h | Sensible<br>Capacity<br>btu/h | Chilled<br>Flowrate<br>gpm | Water<br>Pressure<br>Drop<br>ft.wg. | Total<br>Capacity<br>btu/h | Sensible<br>Capacity<br>btu/h | Chilled<br>Flowrate<br>gpm | Water<br>Pressure<br>Drop<br>ft.wg. | Total<br>Capacity<br>btu/h | Sensible<br>Capacity<br>btu/h | Chilled<br>Flowrate<br>gpm | Water<br>Pressure<br>Drop<br>ft.wg. |
|           |                                            |                               |                               |                            |                                     |                            |                               |                            |                                     |                            |                               |                            |                                     |                            |                               |                            |                                     |
| 40VQS012W | 40                                         | 13,200                        | 10,200                        | 2.63                       | 10.80                               | 15,300                     | 10,900                        | 3.05                       | 14.00                               | 17,500                     | 11,600                        | 3.49                       | 17.70                               | 19,800                     | 12,300                        | 3.95                       | 22.00                               |
|           | 45                                         | 10,100                        | 8,800                         | 2.02                       | 6.70                                | 11,600                     | 9,300                         | 2.32                       | 8.50                                | 13,400                     | 9,900                         | 2.68                       | 10.90                               | 15,800                     | 10,600                        | 3.14                       | 14.40                               |
|           | 50                                         | 7,400                         | 7,300                         | 1.47                       | 3.80                                | 8,500                      | 7,900                         | 1.70                       | 4.80                                | 10,000                     | 8,400                         | 2.00                       | 6.40                                | 11,600                     | 9,000                         | 2.32                       | 8.30                                |
| 40VQS018W | 40                                         | 19,200                        | 14,900                        | 3.82                       | 12.30                               | 22,100                     | 15,900                        | 4.40                       | 15.80                               | 25,300                     | 16,900                        | 5.04                       | 20.00                               | 28,600                     | 17,900                        | 5.71                       | 24.90                               |
|           | 45                                         | 14,600                        | 12,800                        | 2.91                       | 7.50                                | 16,700                     | 13,600                        | 3.34                       | 9.50                                | 19,400                     | 14,400                        | 3.87                       | 12.30                               | 22,700                     | 15,400                        | 4.52                       | 16.20                               |
|           | 50                                         | 10,700                        | 10,700                        | 2.13                       | 4.30                                | 12,200                     | 11,400                        | 2.44                       | 5.40                                | 14,400                     | 12,300                        | 2.87                       | 7.20                                | 16,700                     | 13,100                        | 3.34                       | 9.30                                |
| 40VQS024W | 40                                         | 24,100                        | 19,100                        | 4.79                       | 11.00                               | 27,800                     | 20,300                        | 5.54                       | 14.20                               | 31,900                     | 21,500                        | 6.35                       | 18.00                               | 36,200                     | 22,800                        | 7.20                       | 22.40                               |
|           | 45                                         | 18,400                        | 16,300                        | 3.67                       | 6.80                                | 21,100                     | 17,400                        | 4.20                       | 8.60                                | 24,200                     | 18,400                        | 4.84                       | 10.90                               | 28,500                     | 19,700                        | 5.69                       | 14.50                               |
|           | 50                                         | 13,600                        | 13,600                        | 2.72                       | 4.00                                | 15,400                     | 14,600                        | 3.07                       | 4.90                                | 18,100                     | 15,700                        | 3.62                       | 6.50                                | 21,000                     | 16,700                        | 4.19                       | 8.40                                |
| 40VQS030W | 40                                         | 30,800                        | 24,400                        | 6.13                       | 6.20                                | 35,200                     | 25,800                        | 7.01                       | 7.80                                | 40,300                     | 27,400                        | 8.03                       | 9.80                                | 45,800                     | 29,100                        | 9.13                       | 12.30                               |
|           | 45                                         | 23,100                        | 20,700                        | 4.61                       | 3.70                                | 26,700                     | 22,100                        | 5.34                       | 4.70                                | 31,100                     | 23,500                        | 6.21                       | 6.20                                | 36,000                     | 25,000                        | 7.17                       | 7.90                                |
|           | 50                                         | 17,000                        | 17,000                        | 3.40                       | 2.10                                | 19,500                     | 18,500                        | 3.89                       | 2.70                                | 22,800                     | 20,000                        | 4.55                       | 3.50                                | 26,700                     | 21,300                        | 5.32                       | 4.60                                |
| 40VQS036W | 40                                         | 37,200                        | 29,400                        | 7.41                       | 7.30                                | 42,800                     | 31,200                        | 8.53                       | 9.30                                | 48,800                     | 33,100                        | 9.72                       | 11.70                               | 55,500                     | 35,100                        | 11.05                      | 14.60                               |
|           | 45                                         | 28,000                        | 25,000                        | 5.59                       | 4.40                                | 32,500                     | 26,700                        | 6.48                       | 5.70                                | 37,600                     | 28,400                        | 7.51                       | 7.30                                | 43,700                     | 30,200                        | 8.71                       | 9.50                                |
|           | 50                                         | 20,600                        | 20,600                        | 4.12                       | 2.50                                | 23,700                     | 22,400                        | 4.74                       | 3.20                                | 27,600                     | 24,000                        | 5.52                       | 4.20                                | 32,300                     | 25,700                        | 6.46                       | 5.50                                |
| 40VQS040W | 40                                         | 42,800                        | 34,000                        | 8.52                       | 6.20                                | 49,100                     | 36,000                        | 9.78                       | 7.90                                | 56,200                     | 38,300                        | 11.19                      | 9.90                                | 63,800                     | 40,500                        | 12.71                      | 12.40                               |
|           | 45                                         | 32,100                        | 28,900                        | 6.41                       | 3.70                                | 37,300                     | 30,800                        | 7.45                       | 4.80                                | 43,200                     | 32,800                        | 8.61                       | 6.20                                | 50,200                     | 34,900                        | 10.02                      | 8.00                                |
|           | 50                                         | 23,700                        | 23,700                        | 4.74                       | 2.10                                | 27,300                     | 25,900                        | 5.45                       | 2.80                                | 31,600                     | 27,800                        | 6.31                       | 3.50                                | 37,200                     | 29,700                        | 7.43                       | 4.70                                |

# Unit Dimensions

## 40VQS012W-040W



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