



turn to the experts™ 



# 42GWC

**Hydronic Cassette Fan Coil Units**

## Features

- It is a compact unit only 298mm in height. The four suspension brackets of the unit adopt the T shape opening, it can be installed up and fixed easily.
- Four-way air distribution gives individual comfort while for localized control each diffuser may be adjusted or even shut down completely.
- The unique design of centrifugal fan ensures the quiet running of the unit. This thoroughly eliminates the bothering throttle noise inside the room.
- High-performance condensate drain pump encased in a special sound-insulating material removes condensate quietly and fast.
- Return air enters the cassette unit through a large grille, cleaned by an easily removable, washable filter, and then keep the room air fresh through constant circulation.
- The Special design of the diffuser ensures rapid blending of the supply and room air. Conditioned air is directed along the ceiling then evenly distributed throughout the room.
- A Large LCD screen thermostat is optional.

### Motor and Fan

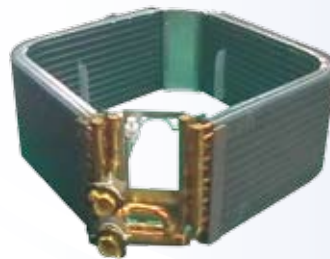
- Optimized designed centrifugal fan design for 42GWC
- High efficiency
- Quite running with anti-vibration pads of motor



### Coil

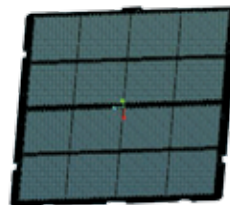
Optimized designed 7 mm coil.

- "L" coil design
- Lanced fin design



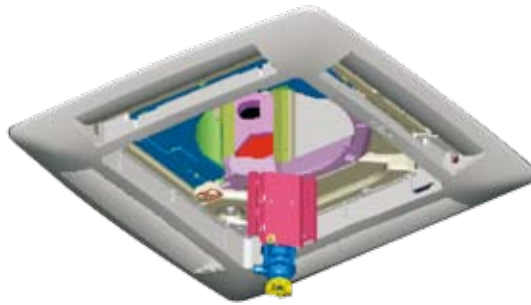
### Air return grille and filter

- The filter inside the air return grille can be easily removed and washed, And keeps the room air fresh through constant circulation.
- The front panel and grille of the unit are designed with stylish appearance makes it suitable to match various room decorations.



### Condensate drain pump

- High performance condensate drain pump inbuilt the unit, and enwrapped with special designed insulation material.
- Drain out the condensate water quietly.
- To avoid the leakage of the condensate water, it's recommended to install the two- way valve or three-way valve in the water system.



### Options



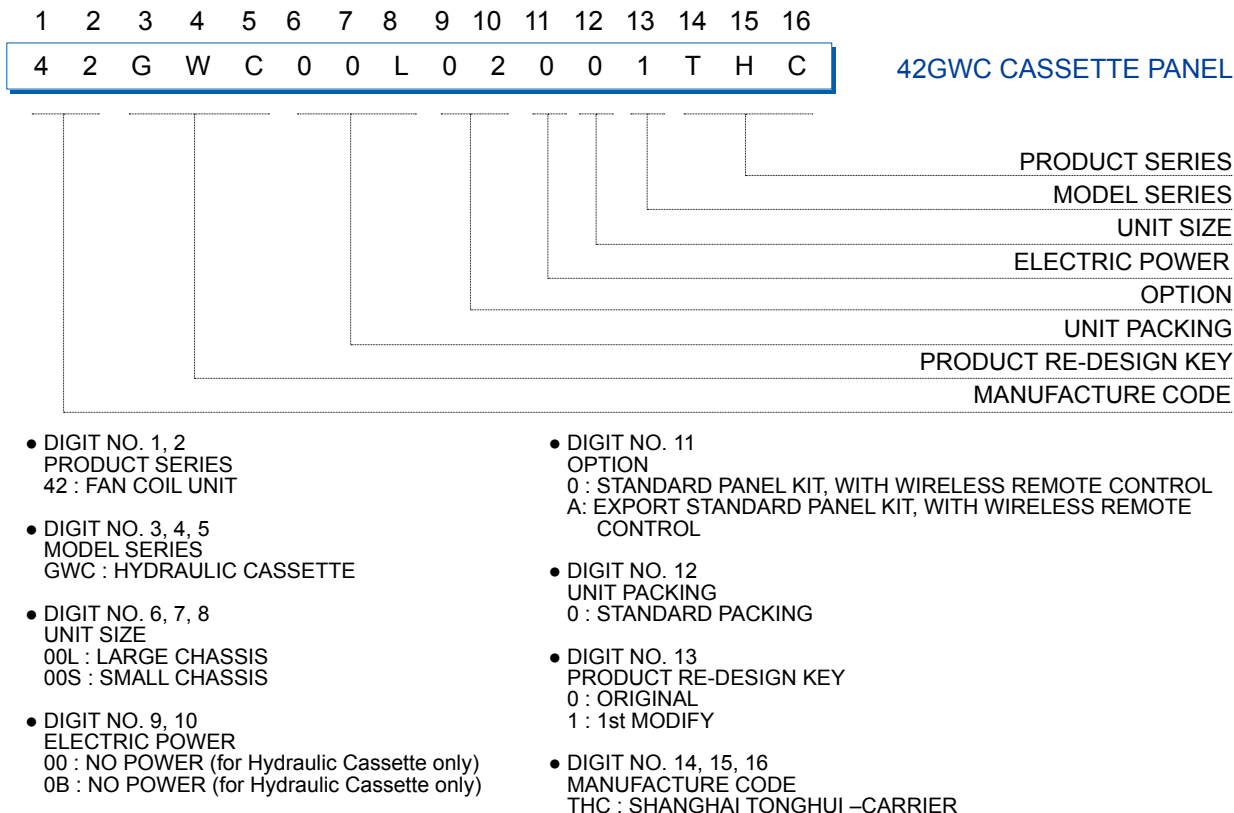
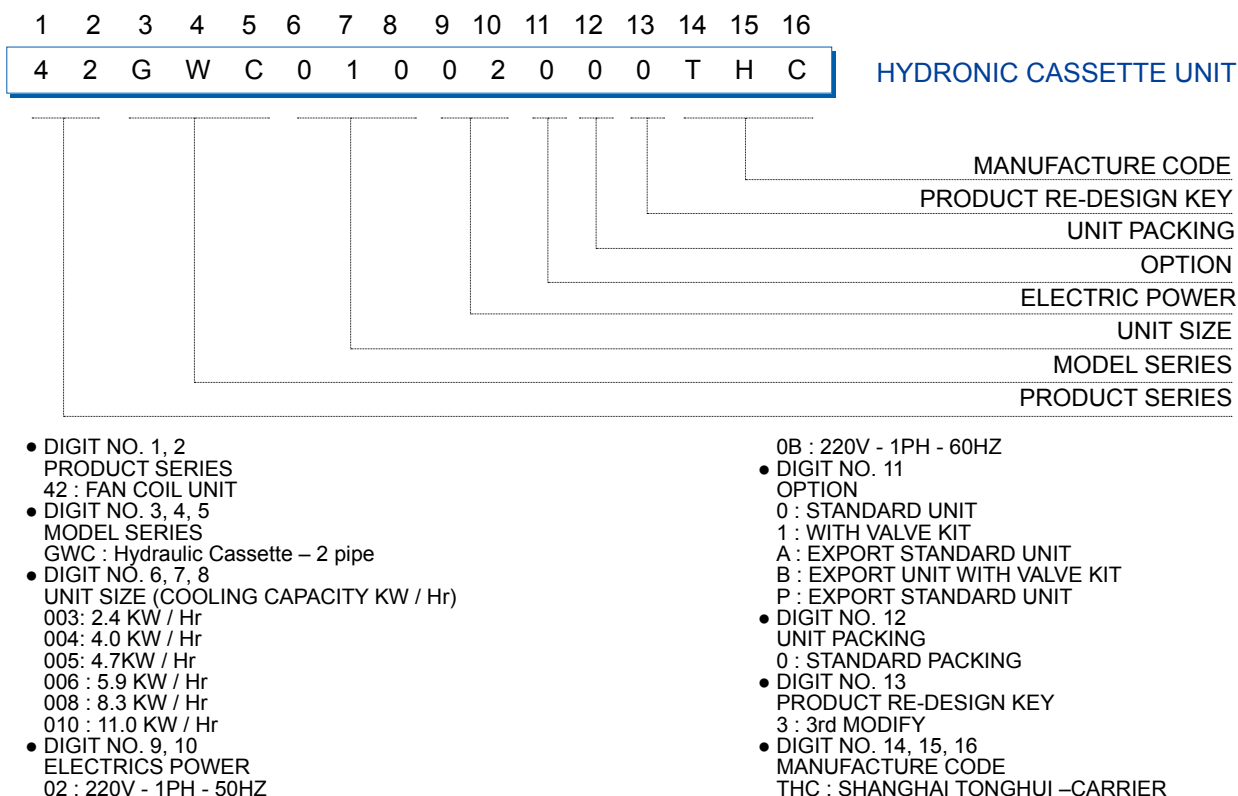
Thermostat

Three-way Electric control valve



Two-way Electric control valve

## Model number Nomenclature



## Air Flow

660~1750m³/h

## Technical Parameter

| Model               |                         | 003             | 004             | 005             | 006             | 008             | 010             |
|---------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ( H )               |                         | 660             | 700             | 850             | 1100            | 1300            | 1750            |
| Nominal Air Volume  | ( M ) m <sup>3</sup> /h | 450             | 490             | 600             | 770             | 910             | 1220            |
|                     | ( L )                   | 360             | 310             | 470             | 550             | 550             | 700             |
| Cooling Capacity    | kW                      | 2.4             | 4.0             | 4.7             | 5.9             | 8.3             | 11              |
| Heating Capacity    | kW                      | 4.5             | 6.5             | 7.7             | 9.9             | 12.5            | 16.9            |
| Power Input         | W                       | 55              | 65              | 95              | 97              | 135             | 197             |
| Noise               | dB (A)                  | 39/33/29        | 42/36/31        | 49/41/34        | 39/31/25        | 48/40/25        | 52/46/33        |
| Water Flow          | L/S                     | 0.11            | 0.19            | 0.24            | 0.28            | 0.39            | 0.52            |
| Water Drop          | kPa                     | 12              | 15              | 23              | 21              | 28              | 42              |
| Coil Rows           |                         | 2               | 2               | 2               | 2               | 3               | 3               |
| Connection Diameter | inch                    | 3/4             | 3/4             | 3/4             | 1               | 1               | 1               |
| Dimensions, grille  | mm                      | 720 × 720       | 720 × 720       | 720 × 720       | 960 × 960       | 960 × 960       | 960 × 960       |
| Dimensions, unit    | mm                      | 575 × 575 × 298 | 575 × 575 × 298 | 575 × 575 × 298 | 825 × 825 × 298 | 825 × 825 × 298 | 825 × 825 × 298 |
| Weight, grille      | kg                      | 2.5             | 2.5             | 2.5             | 5               | 5               | 5               |
| Weight, unit        | kg                      | 19              | 20              | 20              | 36              | 38              | 38              |

Note: Cooling Conditions: 27°C DB/19.5°C WB entering air temperature, 7°C entering water and 5°C temperature rise.

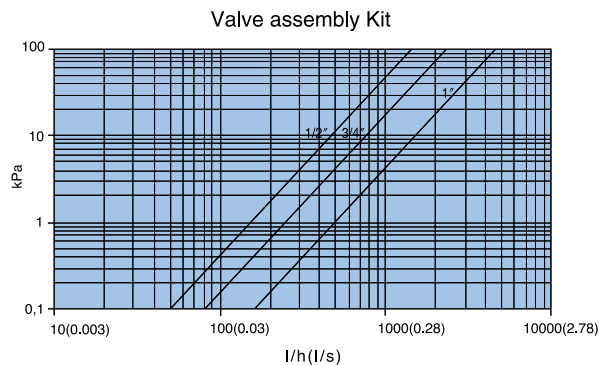
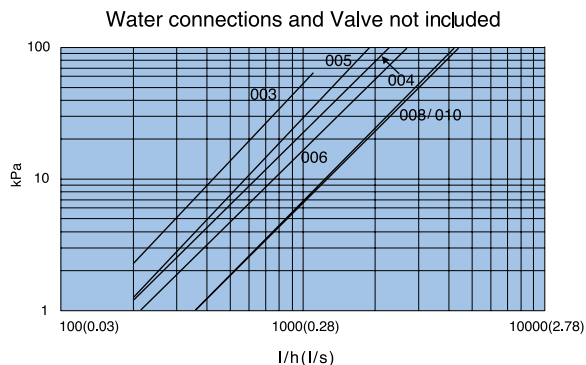
Heating Conditions: 21°C entering air temperature, 60°C entering water temperature, the same water flow as the cooling conditions.

## Operating Limits

| Water Circuit                      |         | Water Circuit       |       | Water Circuit                |             |
|------------------------------------|---------|---------------------|-------|------------------------------|-------------|
| Maximum water-side pressure        | 1400kPa | Maximum temperature | 5 °C  | Nominal single-phase voltage | 220V, 50Hz  |
| Minimum entering water temperature | 4 °C    | Maximum temperature | 32 °C | Operating voltage limits     | 198 ~ 264 V |
| Maximum entering water temperature | 80 °C   |                     |       |                              |             |

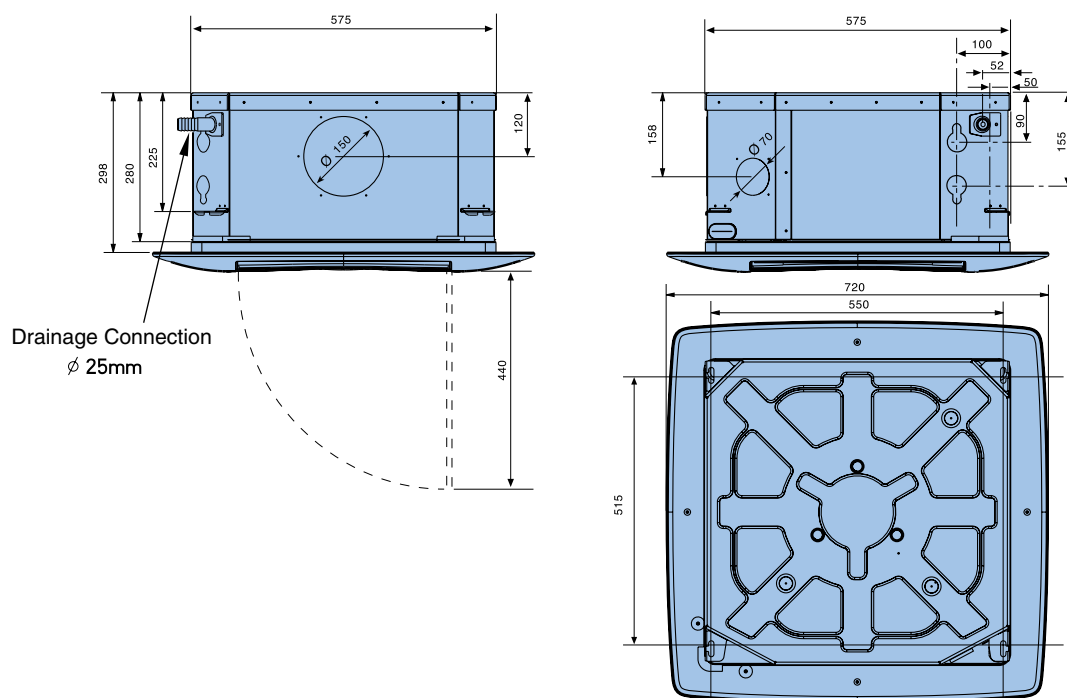
If the room temperature can go down to 0°C, it is advisable to empty the water circuit to avoid damage caused by ice.

## Water Pressure Drop

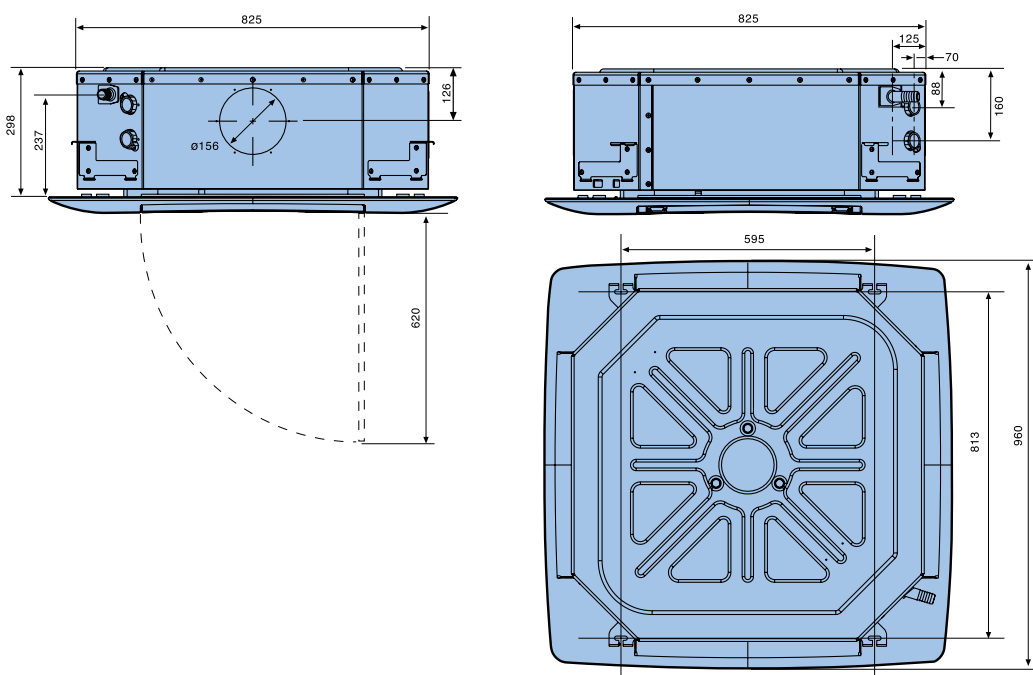


## Dimensions

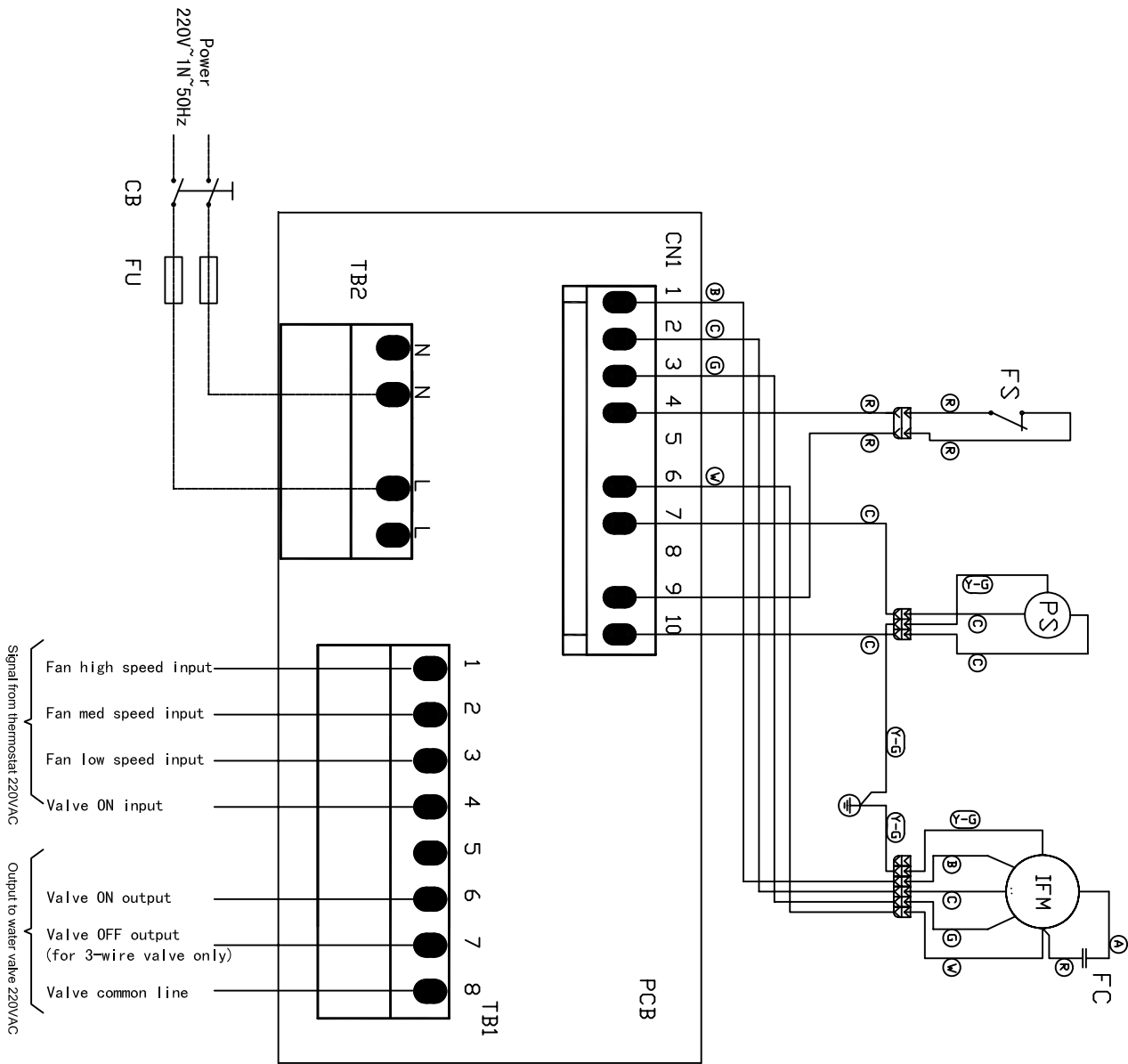
### 42GWC003-004-005



### 42GWC006-008-010



Wiring diagram



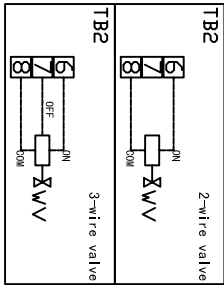
LEGEND:

- Factory wiring
- Field wiring
- Circuit break (user option)
- CB
- Connector
- CN
- FC
- Fan capacitor
- FS
- Float switch
- FU
- Fuse (user option)
- IFM
- Fan motor
- PCB
- Printed circuit board
- PS
- Drain pump
- WV
- Motorized valve (user option)
- TB
- Terminal block
- L
- Live line
- N
- Neutral line

COLOR:

- (A) Brown
- (B) Blue
- (B) Black
- (B) Red
- (B) White
- (Y-G) Yellow-Green

VALVE CONNECTION  
Select diagram according  
to the water valve type



Carrier Corporation identified six specific areas of concentration that directly impact how we, as a world manufacturer, balance our customer' needs for comfort with the environment's needs for responsible consumption.

