



**VENUS** INSPIRE  
ULTRA 16

**COOL AND HEAT PUMP**



MINI SPLIT SYSTEMS

**AIR-CONDITIONER**

**16SEER**



Lock



Timer



Sleeping Mode



LED



Automatic  
Operation



Auto Restart



Cooling



Self-Diagnosis



Dehumidifying



Horizontal  
Airflow

PERFECTLY ENGINEERED FOR YOUR COMFORT

## TECHNICAL SPECIFICATIONS

High Wall Inverter Systems 27WM Series Inspire Ultra 16 Heat Pump Split System

### INDOOR UNIT



12K-24K

Wireless LCD Remote Control  
Auto Fan Settings  
Auto Restart  
Timer  
Sleep Mode  
Cool / Auto Modes  
Cooling and Heat pump  
Auto Swing (Vertical)  
Turbo Cooling Function  
LED Display  
Cleanable Cartridge Filters  
Easy Indoor-to-Outdoor Unit Connections

| INDOOR UNIT MODEL NO.                     |                         | 27WM012J24           | 27WM018J24           | 27WM024J24           |
|-------------------------------------------|-------------------------|----------------------|----------------------|----------------------|
| Cooling capacity (range)(Btu/h)           |                         | 12000(-/-)           | 17000(6900~19600)    | 24000(6400~24300)    |
| Cooling input (W)                         |                         | 1365                 | 1720                 | 2695                 |
| Cooling rated current (A)                 |                         | 5.92                 | 7.6                  | 12.3                 |
| Cooling EER (Btu/w)                       |                         | 8.8                  | 9.9                  | 8.9                  |
| Heating                                   | Capacity (range)(Btu/h) | 12000(0~12000)       | 18000(4480~18800)    | 24000(6700~27500)    |
|                                           | Input (W)               | 1212                 | 1700                 | 2475                 |
|                                           | Rated current (A)       | 5.27                 | 7.5                  | 11.3                 |
|                                           | COP (W/W)               | 2.90                 | 3.10                 | 2.84                 |
|                                           | HSPF4                   | 9.4                  | 9.7                  | 9.5                  |
|                                           | HSPF5                   | 8                    | 8                    | 8                    |
| Minimum circuit ampacity (A)              |                         | 12                   | 15                   | 19                   |
| Max.fuse (A)                              |                         | 15                   | 20                   | 30                   |
| Compressor                                | Brand                   | GMCC                 | GMCC                 | GMCC                 |
|                                           | Rated current (RLA)(A)  | 6.47                 | 7.5                  | 14.25                |
| Power supply (V/ph/Hz)                    |                         | 208-230V,1Ph,60Hz    | 208-230V,1Ph,60Hz    | 208-230V,1Ph,60Hz    |
| Indoor fan motor model                    |                         | YKFG-20-4-10L        | YKFG-28-4-6-5        | YKFG-45-4-13         |
| Indoor fan motor input (W)                |                         | 47.4                 | 58.5                 | 89.0                 |
| Indoor fan motor capacitor (uF)           |                         | 1.5                  | 1.5                  | 3                    |
| Indoor fan motor speed (Hi/Mi/Lo) (r/min) |                         | 1180/950/750         | 1200/1000/800        | 1200/1000/800        |
| Indoor air flow (Hi/Mi/Lo)(m3/h)          |                         | 540/410/300          | 788/628/468          | 960/760/580          |
| Indoor air flow (Hi/Mi/Lo)(CFM)           |                         | 317.65/241.18/176.47 | 463.53/369.41/275.29 | 564.71/447.06/341.18 |
| Indoor noise level (Hi/Mi/Lo)(dB(A))      |                         | 41.5/34.5/25.5       | 44/38/30             | 46/40/33.5           |
| Dimension                                 | WxDxH (mm)              | 805x194x285          | 957x213x302          | 1040x220x327         |
|                                           | WxDxH (inch)            | 31.69x7.64x11.22     | 37.68x8.39x11.89     | 40.94x8.66x12.87     |
| Packing (WxDxH)(mm)                       |                         | 870x270x365          | 1035x295x385         | 1120x405x315         |
| Net/Gross weight (Kg)                     |                         | 7.8/10               | 10.4/13.3            | 13.1/16.6            |

### OUTDOOR UNIT



12K-18K

24K

Rotary Compressor  
Superquiet Operation  
16.0 Seer in Cooling Mode  
High Efficiency Cooling  
Durable cabinet with protective coating

| OUTDOOR UNIT MODEL NO.                         |                                   | 37HM012J24(3C)              | 37HM018J24(3C)              | 37HM024J24(3C)              |
|------------------------------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Outdoor fan motor speed (Hi/Mi/Lo) (r/min)     |                                   | 850/500                     | 1200/700                    | 810/720                     |
| Outdoor fan motor RLA (A)                      |                                   | 0.47                        | 0.82                        | 0.76                        |
| Qty'per 20' /40' /40'HQ                        |                                   | 132/274/305                 | 90/190/222                  | 66/137/156                  |
| Refrigerant piping                             | Liquid side/ Gas side (mm/inch)   | 6.35mm(1/4in)/9.52mm(3/8in) | 6.35mm(1/4in)/12.7mm(1/2in) | 9.52mm(3/8in)/15.9mm(5/8in) |
|                                                | Max. refrigerant pipe length (m)  | 25                          | 30                          | 30                          |
|                                                | Max. refrigerant pipe length (ft) | 82.02                       | 98.42                       | 98.42                       |
|                                                | Max. difference in level (m)      | 10                          | 20                          | 20                          |
|                                                | Max. difference in level (ft)     | 32.81                       | 65.62                       | 65.62                       |
| Outdoor air flow (m3/h)                        |                                   | 1800                        | 2100                        | 3000                        |
| Outdoor air flow (CFM)                         |                                   | 1058.82                     | 1235.29                     | 1764.71                     |
| Outdoor noise level (dB(A))                    |                                   | 54.5                        | 57                          | 59.5                        |
| Room temperature outdoor(cooling/heating) (°C) |                                   | -15~50/-20~30               | -15~50/-25~30               | -15~50/-20~30               |
| Room temperature outdoor(cooling/heating) (°F) |                                   | 5~122/-4~86                 | 5~122/-13~86                | 5~122/-4~86                 |
| Refrigerant type (oz)                          |                                   | R410A/0.73                  | R410A/47.97                 | R410A/62.8                  |
| Dimension                                      | WxDxH (mm)                        | 720x270x495                 | 765x303x555                 | 890x342x673                 |
|                                                | WxDxH (inch)                      | 28.35x10.63x19.49           | 30.12x11.93x21.85           | 35.04x13.46x26.50           |
| Packing (WxDxH)(mm)                            |                                   | 835x300x540                 | 887x337x610                 | 995x398x740                 |
| Net/Gross weight (Kg)                          |                                   | 24/25.6                     | 29.1/31.6                   | 44.4/47.4                   |

1. Nominal Capacities are based on ARI Standards 210/240-89.
2. Fittings are provided for connecting the indoor and outdoor units.
3. Outdoor units are shipped with full refrigerant operating charge.
4. Specification and performance data listed herein are subject to change without notice.



YELLOW HAT HVAC INC.  
DCT ASIA LTD.  
DELTA COMFORT TECHNOLOGIES LLC.

USA: 11411 Interchange Circle S Miramar, FL 33025 USA  
HK: Flat L, 5/F, On Ho Industrial Building, 17-19 Shing Wan Road, Tai Wai, HK  
Web Site: [www.DELTA-DCT.com](http://www.DELTA-DCT.com)  
Email: [sales@DELTA-DCT.com](mailto:sales@DELTA-DCT.com)  
Tel: 1 954 660 2148

