



# Hi Wall Fixed Speed SmartSaver Series-B R410-A



Affordable comfort perfectly suited for your family  
RTCA certified

| CIAC Model                  |                                    |                               | Indoor model    | CH413B--012PH3S1C        | CH413B--018PH3S1C        | CH413B--024PH3S1C        |               |
|-----------------------------|------------------------------------|-------------------------------|-----------------|--------------------------|--------------------------|--------------------------|---------------|
| RTCA                        |                                    |                               | Outdoor model   | CG413B--012-H3S1C        | CG413B--018-H3S1C        | CG413B--024-H3S1C        |               |
|                             |                                    |                               | RTCA Report #   | AHEE240900252151         | AHEE24010002051          | AHEE240900252251         |               |
| Power supply                |                                    |                               |                 | 1Ph / 208-230V/60Hz      | 1Ph / 208-230V/60Hz      | 1Ph / 208-230V/60Hz      |               |
| Cooling (RTCA)              | Capacity                           |                               | BTU/hr          | 12011                    | 17999                    | 24001                    |               |
|                             |                                    |                               | W/hr            | 3520                     | 5275                     | 7034                     |               |
|                             | Input                              |                               | W               | 1200                     | 1800                     | 2400                     |               |
|                             | Rated current                      |                               | Amps            | 5.30                     | 7.90                     | 10.90                    |               |
|                             | EER                                |                               | W/W             | 2.93                     | 2.93                     | 2.93                     |               |
|                             |                                    |                               | BTU/W           | 10.00                    | 10.00                    | 10.00                    |               |
|                             | REEE                               |                               | W/W             | 3.82                     | 3.91                     | 4.06                     |               |
| SEER                        |                                    | BTU/W                         | 13.00           | 13.30                    | 13.90                    |                          |               |
| Max. input consumption      |                                    |                               | W               | 1650                     | 2600                     | 2400                     |               |
| Max. current                |                                    |                               | Amps            | 7.90                     | 12.4                     | 14.50                    |               |
| Indoor unit                 | Indoor fan motor                   | Model                         |                 | YK19-4-60                | YK25-4-60                | YK 50-4C-60              |               |
|                             |                                    | Brand                         |                 | DONGFANG                 | DONGFANG                 | DONGFANG                 |               |
|                             |                                    | Output Power                  | W               | 19                       | 25                       | 50                       |               |
|                             |                                    | Capacitor                     | uF              | 1.5                      | 1.5                      | 3.0                      |               |
|                             |                                    | Speed (Hi/Mi/Lo)              | RPM             | 1200/1150/1100/1000      | 1300/1200/1100/1000      | 1300/1200/1100/1000      |               |
|                             | Indoor coil                        | Fin spacing                   |                 | 1.4                      | 1.5                      | 1.5                      |               |
|                             |                                    | Fin material                  |                 | Hydrophilic Aluminum     | Hydrophilic Aluminum     | Hydrophilic Aluminum     |               |
|                             |                                    | Tube outside dia.and material | mm              | φ7, Inner Grooved copper | φ7, Inner Grooved copper | φ7, Inner Grooved copper |               |
|                             |                                    | Coil length x height x width  | mm              | 602 X 252 X 12.7         | 652 X 315 X 25.4         | 738 X 336 X 25.4         |               |
|                             | Indoor air flow (Hi/Mi/Lo)         |                               | m3/h            | 600/550/480              | 700/600/550              | 1050/950/800             |               |
|                             | Rated input Power(cooling/heating) |                               | W               | 35                       | 50                       | 80                       |               |
|                             | Rated current (cooling/heating)    |                               | Amps            | 0.2                      | 0.25                     | 0.35                     |               |
|                             | Moisture Removal                   |                               | L/h             | 1.1                      | 2                        | 2.6                      |               |
|                             | Sound level(Hi/Mi/Lo)              |                               | dB(A)           | 39/37/34                 | 45/42/39                 | 49/47/45                 |               |
|                             | Unit dimension (W*H*D)             |                               | mm              | 800 X 292 X 190          | 850 X 190 X 292          | 970 X 310 X 230          |               |
|                             | Packing (W*H*D)                    |                               | mm              | 865 X 335 X 240          | 915 X 335 X 240          | 1035 X 380 X 310         |               |
|                             | Net weight                         |                               | kg              | 7.4                      | 8.6                      | 12.8                     |               |
|                             | Gross weight                       |                               | kg              | 8.5                      | 9.8                      | 15.6                     |               |
|                             | Outdoor unit                       | Compressor                    | Model           |                          | QXA-A109/T130U           | ASF165N03UDTC            | QXA-E22rH030  |
|                             |                                    |                               | Brand / Type    |                          | GREE / Rotary            | GMCC / Rotary            | GREE / Rotary |
| Outdoor fan motor           |                                    | Model                         |                 | YDK25-6-60               | YDK25-6-60               | YDK2-80-6G               |               |
|                             |                                    | Brand                         |                 | DONGFANG                 | DONGFANG                 | DONGFANG                 |               |
|                             |                                    | Output Power                  | W               | 25                       | 25                       | 80                       |               |
|                             |                                    | Capacitor                     | uF              | 2.5                      | 2.5                      | 5                        |               |
|                             |                                    | Speed                         | RPM             | 1000*30                  | 1000*30                  | 900*30                   |               |
| Outdoor coil                |                                    | Fin spacing                   |                 | 1.3                      | 1.5                      | 1.2                      |               |
|                             |                                    | Fin material                  |                 | Non-hydrophilic aluminum | Non-hydrophilic aluminum | Non-hydrophilic aluminum |               |
|                             |                                    | Tube outside dia.and material | mm              | φ5, Inner Grooved copper | φ5, Inner Grooved copper | φ5, Inner Grooved copper |               |
|                             |                                    | Coil length x height x width  | mm              | 604 X 468 X 11.57        | 775 X 508 X 13.6         | 823 X 546 X 18.2         |               |
| Sound level                 |                                    | dB(A)                         | 49              | 55                       | 57                       |                          |               |
| Unit dimension (W*H*D)      |                                    | mm                            | 700 X 302 X 510 | 800 X 302 X 550          | 860 X 378 X 597          |                          |               |
| Packing (W*H*D)             |                                    | mm                            | 765 X 345 X 550 | 870 X 355 X 595          | 945 X 670 X 430          |                          |               |
| Net weight                  |                                    | kg                            | 24              | 30.3                     | 37                       |                          |               |
| Gross weight                |                                    | kg                            | 25.4            | 32.3                     | 41.6                     |                          |               |
| Refrigerant type            |                                    |                               | R410A           | R410A                    | R410A                    |                          |               |
| Refrigerant charge          |                                    | g                             | 405             | 835                      | 955                      |                          |               |
| Design pressure             |                                    | MPa                           | 4.5             | 4.5                      | 4.5                      |                          |               |
| Refrigerant piping          |                                    | Liquid side                   | mm              | φ6                       | φ6                       | φ6                       |               |
|                             | Gas side                           | mm                            | φ9              | φ12                      | φ15.88                   |                          |               |
|                             | Max. refrigerant pipe length       | M                             | 10              | 10                       | 15                       |                          |               |
|                             | Max. difference in level           | M                             | 5               | 5                        | 10                       |                          |               |
| Operation temperature range |                                    |                               | °C              | 16°C-43°C                | 16°C-43°C                | 16°C-43°C                |               |
| Ambient temperature range   |                                    |                               | °C              | 16°C-48°C                | 16°C-48°C                | 16°C-48°C                |               |
| Qty/per 40HQ                |                                    |                               | sets            | 330                      | 280                      | 183                      |               |