

# ComfortStar®

Air conditioning and Heating

## CCU-C Series

### LIGHT COMMERCIAL

#### FEATURES:

- High efficiency compressor
- Compact design  
for easy installation
- Quiet operation
- Removable panel for easy maintenance
- Copper tube and aluminum fin
- Fully Louvered guard protection
- R410a system

UP TO  
**13** SEER

*Comfort... it's in our name*



High efficiency  
compressor



Quiet operation



Compact design

# CCU-C Series

UP TO **13** SEER



| Model (Top Discharge Condensing Unit) |  | CCU24-410-C         | CCU36-410-C                | CCU48-410-C                | CCU60-410-C                | CCU60-410-3-C              |                            |
|---------------------------------------|--|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Power supply                          | V-Hz-Ph  | 220V-1Ph-60Hz       | 208-230V/1Ph/60Hz          | 220V-1Ph-60Hz              | 220V-1Ph-60Hz              | 220V-3Ph-60Hz              |                            |
| Max. input consumption                | W  | 2620                | 3600                       | 6125                       | 6900                       | 6725                       |                            |
| Max. current                          | A  | 13.2                | 23                         | 30.93                      | 34.6                       | 19.18                      |                            |
| Starting current                      | A  | 45                  | 50                         | 50                         | 80                         | /                          |                            |
| Compressor                            | Model  | PA240M2A-3MTU2      | GVS295KAA                  | ABT042KTA                  | ABT054KAA                  | ZP54KUE-TF5-52E            |                            |
|                                       | Type   | Rotary              | Rotary                     | Scroll                     | Scroll                     | Scroll                     |                            |
|                                       | Capacity   | W                   | 7220                       | 8397                       | 12368                      | 15815                      | 15900                      |
|                                       | Input  | W                   | 2475                       | 2933                       | 3980                       | 4820                       | 5140                       |
|                                       | Rated current(RLA)                                   | A                   | 11.75                      | 13.6                       | 17.5                       | 21.5                       | 18.6                       |
|                                       | Thermal protector                                    |                     | Inner                      | Inner                      | Inner                      | Inner                      | Inner                      |
|                                       | Capacitor  | uF                  | 55                         | 60                         | 70                         | 80                         | /                          |
|                                       | Refrigerant oil                                      | ml                  | 440                        | 540                        | 1360                       | 1360                       | 1242                       |
| Refrigerant                           |  | R410a               | R410a                      | R410a                      | R410a                      | R410a                      |                            |
| Outdoor fan motor                     | Model  | S.TB-DQ-YDK-160-6P2 | S.TB-DQ-YDK-160-6P2        | S.TB-DQ-YDK-230-6P2        | S.TB-DQ-YDK-230-6P2        | S.TB-DQ-YDK-230-6P2        |                            |
|                                       | Drive type   | AC                  | AC                         | AC                         | AC                         | Direct                     |                            |
|                                       | Qty  | 1.00                | 1.00                       | 1.00                       | 1.00                       | 1.00                       |                            |
|                                       | Input  | W                   | 356.00                     | 356.00                     | 511.00                     | 511.00                     | 511.00                     |
|                                       | Capacitor  | uF                  | 6uF/450V                   | 6uF/450V                   | 12uF/450V                  | 12uF/450V                  | 12uF/450V                  |
|                                       | Speed  | r/min               | 1100                       | 1100                       | 1095                       | 1095                       | 1095                       |
| Outdoor coil                          | Number of rows                                       | 1                   | 1                          | 1                          | 1                          | 1                          |                            |
|                                       | Tube pitch(a)x row pitch(b)                          | mm                  | 21x13.37                   | 21x13.37                   | 21x13.37                   | 21x13.37                   | 21*25.6                    |
|                                       | Fin spacing  | mm                  | 1.4 Unhydrophilic aluminum | 1.4 Unhydrophilic aluminum | 1.4 Unhydrophilic aluminum | 1.4 Unhydrophilic aluminum | 1.4 Unhydrophilic aluminum |
|                                       | Fin type   |                     | 1428x588x13.37             | 1428x588x13.37             | 2150x798x13.37             | 2148x798x13.37             | 2148x798x25.6              |
|                                       | Coil length x height x width                         | mm                  | 2                          | 2                          | 4                          | 4                          | 5                          |
|                                       | Number of circuits                                   |                     | 7.00                       | 7.00                       | 7.00                       | 7.00                       | 7.00                       |
| Tube O.D and type                     | mm   | Inner groove tube   | Inner groove tube          | Inner groove tube          | Inner groove tube          | Inner groove tube          |                            |
| Outdoor noise level                   | dB(A)  | 65                  | 65                         | 65                         | 65                         | 60                         |                            |
| Dimension                             | Body (WxDxH)   | mm                  | 554x554x633                | 554x554x633                | 740x740x835                | 740x740x835                | 740x740x835                |
|                                       | Packing (WxDxH)                                      | mm                  | 575x575x660                | 575x575x660                | 760x760x875                | 760x760x875                | 760x760x875                |
| Net/Gross weight                      | kg   | 46/49               | 46.5/49.5                  | 74/78.5                    | 74.5/79                    | 76.5/71.5                  |                            |
| Refrigerant charge                    | g  | R410A/1200          | R410A/1650                 | R410A/1900                 | R410A/2100                 | R410A/2550                 |                            |
| Throttle type                         |  | Indoor Piston       | Indoor Piston              | Indoor Piston              | Indoor Piston              | Indoor Piston              |                            |
| Design pressure (high side/low side)  | MPa  | 3.6/0.98            | 4.0/1.2                    | 4.0/1.2                    | 4.0/1.2                    | 4.0/1.2                    |                            |
| Refrigerant piping                    | Liquid side/ Gas side                                | mm                  | Φ9.52/Φ15.88               | Φ9.52/Φ19.05               | Φ9.52/Φ19.05               | Φ9.52/Φ19.05               | Φ9.52/Φ19.05               |
|                                       | Max. refrigerant pipe length                         | m                   | 20                         | 20                         | 20                         | 20                         | 15.00                      |
|                                       | Max. difference between outdoor unit and indoor unit | m                   | 10                         | 10                         | 10                         | 10                         | 4.00                       |
| Connection wiring                     | Power wiring   | mm2                 | 3x2.5                      | 3x4.0                      | 3x4.0                      | 3x6                        | 3x4.0                      |
|                                       | Signal wiring  | mm2                 | 2x0.75                     | 2x0.75                     | 4x0.75                     | 4x0.75                     | 4x0.75                     |
| Ambient temp                          | °C   | 16-43               | 16-43                      | 16-43                      | 16-43                      | 21-43                      |                            |
| Loading QTY (20'/40'/40HQ)            | Pcs  | 120/180/320         | 120/180/320                | 42/90/135                  | 42/90/135                  | 42/90/135                  |                            |

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