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## AIR DUCTED SYSTEM

STANDARD EFFICIENCY





STANDARD EFFICIENCY – SINGLE PHASE

|                          |                        |         | 36K                  | 48K                  | 55K                  |
|--------------------------|------------------------|---------|----------------------|----------------------|----------------------|
| Indoor model             |                        |         | 42KUA03631010        | 42KUA04831010        | 42KUA06031010        |
| Power Supply             |                        | V-Ph-Hz | 220V, 1Ph, 60Hz      | 220V, 1Ph, 60Hz      | 220V, 1Ph, 60Hz      |
| Cooling (T1)             | Capacity               | Btu/h   | 36000                | 48000                | 55000                |
|                          | Input                  | W       | 4000                 | 4900                 | 6326                 |
|                          | EER                    |         | 2.64                 | 2.87                 | 2.55                 |
| Indoor air flow          |                        | m3/h    | 1648                 | 2300                 | 2300                 |
| ESP                      | Rated                  | Pa      | 37                   | 50                   | 50                   |
|                          | Range                  | Pa      | 0 - 140              | 0 - 180              | 0 - 180              |
| Indoor noise level (Hi)  |                        | dB(A)   | 52.0                 | 54.5                 | 54.5                 |
| Throttle type            |                        |         | Throttle valve       | Throttle valve       | Throttle valve       |
| Indoor unit              | Dimension (W*D*H)      | mm      | 460x520x774          | 500x550x970          | 500x550x970          |
|                          | Packing (W*D*H)        | mm      | 520x565x835          | 560x595x1030         | 560x595x1030         |
|                          | Net/Gross weight       | Kg      | 39/42                | 51/55                | 51/55                |
|                          | Design pressure indoor | MPa     | 4.2/1.5              | 4.2/1.5              | 4.2/1.5              |
| Draining pipe dimension  |                        | mm      | RC 3/4"              | RC 3/4"              | RC 3/4"              |
| Refrigerant piping       | Liquid side/Gas side   | mm      | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19(3/8"/3/4") |
| Qty' per 20' /40' /40'HQ |                        |         | 88/184/275           | 80/164/164           | 80/164/164           |

|                                      |                              |         | 36K                  | 48K                  | 55K                  |
|--------------------------------------|------------------------------|---------|----------------------|----------------------|----------------------|
| Sale model                           |                              |         | 38KUA03631010        | 38KUA04831010        | 38KUA06031010        |
| Power supply                         |                              | V-Ph-Hz | 220V, 1Ph, 60Hz      | 220V, 1Ph, 60Hz      | 220V, 1Ph, 60Hz      |
| Max. input consumption               |                              | W       | 54000                | 65000                | 7625                 |
| Max. current                         |                              | A       | 25.5                 | 30.7                 | 34.6                 |
| Outdoor air flow                     |                              | m3/h    | 4500                 | 7400                 | 7600                 |
| Outdoor noise level (sound pressure) |                              | dB(A)   | 64.5                 | 65.0                 | 65.7                 |
| Outdoor unit                         | Dimension (W*D*H)            | mm      | 600x600x759          | 710x710x759          | 710x710x759          |
|                                      | Packing (W*D*H)              | mm      | 628x628x794          | 738x738x794          | 738x738x872          |
|                                      | Net/Gross weight             | kg      | 57.8/61.4            | 71.8/76.1            | 80.0/85.0            |
|                                      | Net/Gross weight             | kg      | 57.8/61.4            | 71.8/76.1            | 80.0/85.0            |
| Refrigerant                          | Type                         |         | R410A                | R410A                | R410A                |
|                                      | Charge volume                | kg      | 1.9                  | 2.20                 | 2.20                 |
| Design pressure                      |                              | MPa     | 4.2/1.5              | 4.2/1.5              | 4.2/1.5              |
| Refrigerant piping                   | Liquid side/Gas side         | mm      | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19(3/8"/3/4") | Φ9.52/Φ19(3/8"/3/4") |
|                                      | Max. refrigerant pipe length | m       | 30                   | 50                   | 50                   |
|                                      | Max. difference in level     | m       | 20                   | 30                   | 30                   |
|                                      | Max. difference in level     | m       | 20                   | 30                   | 30                   |
| Ambient temperature                  | Cooling                      | °C      | 18~43                | 18~43                | 18~43                |
|                                      | Heating                      | °C      | /                    | /                    | /                    |
| Qty' per 20' /40' /40'HQ             |                              |         | 54/114/171           | 42/96/144            | 42/96/142            |

STANDARD EFFICIENCY – 3 PHASE

| Indoor Model               |                                 |         | 42KUA03631010                | 42KUA04831010         | 42KUA06031010              |
|----------------------------|---------------------------------|---------|------------------------------|-----------------------|----------------------------|
| Outdoor Model              |                                 |         | 38KUA03641010                | 38KUA04841010         | 38KUA06041010              |
| Outdoor Power Supply       |                                 | V-Ph-Hz | 2080-230V, 3Ph, 60Hz         | 2080-230V, 3Ph, 60Hz  | 2080-230V, 3Ph, 60Hz       |
| Indoor Power Supply        |                                 | V-Ph-Hz | 2080-230V, 1Ph, 60Hz         | 2080-230V, 1Ph, 60Hz  | 2080-230V, 1Ph, 60Hz       |
| Cooling (T1)               | Capacity                        | Btu/h   | 36000                        | 48000                 | 55000                      |
|                            | Input                           | W       | 3889                         | 4900                  | 6200                       |
|                            | EER                             | W/W     | 2.71                         | 2.87                  | 2.60                       |
| Max. input consumption     |                                 | W       | 5000                         | 6250                  | 7700                       |
| Max. current               |                                 | A       | 15.0                         | 18.1                  | 23.4                       |
| Compressor                 | Model                           |         | ATH356UG3C9EU                | ZP49KUE-TF5-52E       | C-SBP160H36A               |
|                            | Type                            |         | ROTARY                       | SCROLL                | SCROLL                     |
|                            | Brand                           |         | HITACHI                      | EMERSON               | PANASONIC                  |
|                            | Capacity                        | W       | 10350                        | 14400                 | 16100                      |
|                            | Input                           | W       | 3400                         | 4537                  | 500                        |
|                            | Rated current (RLA)             | A       | 10.9                         | 18.7                  | 18                         |
|                            | Locked rotor Amp (LRA)          | A       | 81                           | 136.08                | 153.0                      |
|                            | Thermal protector position      |         | INTERNAL                     | INTERNAL              | INTERNAL                   |
|                            | Capacitor                       | uF      | /                            | /                     | /                          |
|                            | Refrigerant oil/oil charge      | ml      | α68HES-H or equivalent/880ml | 3MAF POE/12142        | FV685 or equivalent/1700ml |
| Indoor fan motor           | Model                           |         | YKS-230-6-18                 | YKS-300-6-1           | YKS-300-6-1                |
|                            | Old Model                       |         | YDK230-6X                    | YDK300-6X-2           | YDK300-6X-2                |
|                            | Qty                             |         | 1                            | 1                     | 1                          |
|                            | Input                           | W       | 420.0                        | 660.0                 | 660.0                      |
|                            | Capacitor                       | uF      | 15                           | 12                    | 12                         |
|                            | Speed (Hi/Mi/Lo)                | r/min   | 1100/980                     | 985/760               | 985/760                    |
|                            | a. Number of rows               |         | 3.0                          | 4.0                   | 4.0                        |
|                            | b. Tube pitch(a) x row pitch(b) | mm      | 21*13.37                     | 21*13.37              | 21*13.37                   |
|                            | c. Fin spacing                  | mm      | 1.3                          | 1.3                   | 1.3                        |
| Indoor coil                | d. Fin type (code)              |         | Hydrophilic aluminium        | Hydrophilic aluminium | Hydrophilic aluminium      |
|                            | e. Tube outside dia and type    | mm      | 07,innergroove tube          | 07,innergroove tube   | 07,innergroove tube        |
|                            | f. Coil lenght x height x width | mm      | 415x336x40.11                | 444x378x53.48         | 444x378x53.48              |
|                            | g. Number of circuits           |         | 6                            | 8                     | 8                          |
| Indoor air flow (Hi/Mi/Lo) |                                 | m3/h    | 1648                         | 2182                  | 2300                       |
| Indoor unit                | Dimension (W*D*H)               | mm      | 520x460x774                  | 500x550x970           | 500x550x970                |
|                            | Packing (W*D*H)                 | mm      | 835x520x565                  | 560x595x1030          | 1030x560x595               |
|                            | Net/Gross weight                | Kg      | 38.2/41.7                    | 48/52                 | 51/55                      |

|                          |                                 |              |                         |                         |                         |
|--------------------------|---------------------------------|--------------|-------------------------|-------------------------|-------------------------|
| Outdoor fan motor        | Model                           |              | YKS-160-6-2             | YKS-230-6-3L            | YKSJ-230-6-2L           |
|                          | Old Model                       |              | YDK160-6B               | YDK230-6F-1(B)          | YKSJ-230-6-2L           |
|                          | Qty                             |              | 1                       | 1                       | 1                       |
|                          | Input                           | W            | 300.0                   | 318.0                   | 300.0                   |
|                          | Capacitor                       | uF           | 6                       | 12                      | 12                      |
|                          | Speed                           | r/min        | 1100                    | 1095                    | 1095                    |
| Outdoor coil             | a. Number of rows               |              | 1.0                     | 1.0                     | 1.0                     |
|                          | b. Tube pitch(a) x row pitch(b) | mm           | 21*13.37                | 21*13.37                | 21*13.37                |
|                          | c. Fin spacing                  | mm           | 1.3                     | 1.3                     | 1.3                     |
|                          | d. Fin type (code)              |              | Unhydrophilic aluminium | Unhydrophilic aluminium | Unhydrophilic aluminium |
|                          | e. Tube outside dia and type    | mm           | 07,innergroove tube     | 07,innergroove tube     | 07,innergroove tube     |
|                          | f. Coil lenght x height x width | mm           | 1588x714x13.37          | 2030x714x13.37          | 2030x798x13.37          |
|                          | g. Number of circuits           |              | 5                       | 5                       | 5                       |
| Outdoor air flow         |                                 |              | 4500                    | 7400                    | 6500                    |
| Outdoor noise level      |                                 | dB(A)        | 65.1                    | 65.2                    | 65.7                    |
| Outdoor unit             | Dimension (W*D*H)               | mm           | 600x600x759             | 710x710x759             | 710x710x843             |
|                          | Packing (W*D*H)                 | mm           | 628x628x794             | 738x738x794             | 738x738x872             |
|                          | Net/Gross weight                | Kg           | 56.8/60.6               | 68.7/74                 | 80/85                   |
| Design pressure          |                                 | MPa          | 4.2/1.5                 | 4.2/1.5                 | 4.2/1.5                 |
| Drainage water pipe dia  |                                 | mm           | OD025mm                 | OD025mm                 | OD025mm                 |
| Refrigerant type         | Type                            |              | R410A                   | R410A                   | R410A                   |
|                          | Charged volume                  | kg           | 1.9                     | 2.3                     | 2.2                     |
| Refrigerant piping       | Liquid side/Gas side            | mm(inch)     | 09.52/019(3/8"/3/4")    | 09.52/019(3/8"/3/4")    | 09.52/019(3/8"/3/4")    |
|                          | Max. refrigerant pipe length    | m            | 30                      | 50                      | 50                      |
|                          | Max. difference in level        | m            | 20                      | 30                      | 30                      |
| Room temprature          | Cooling                         | °C           | 18~43                   | 18~43                   | 18~43                   |
|                          | Heating                         | °C           | /                       | /                       | /                       |
| Qty' per 20' /40' /40'HQ |                                 | Indoor unit  | 88/184/275              | 80/164/164              | 80/164/164              |
|                          |                                 | Outdoor unit | 54/114/171              | 42/96/144               | 42/96/142               |