

EXPERIENCE THE  
**ALLIANCE**  
**DIFFERENCE**

# Alliance Light Commercial Underceiling **NON-INVERTER**

*36 000 to 60 000 Btu/h*

- Ideal for conference rooms, halls, boardrooms etc
- Cooling/heating
- Indoor airflows from 1331 m<sup>3</sup>/h to 2350 m<sup>3</sup>/h
- Pipe length to outdoor unit up to 50m
- Backed by Fourways Group nationwide

# Alliance

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# New Alliance Light Commercial Underceiling Range (Non-Inverter)

## 36 000 to 60 000 Btu/h

The three range Alliance Underceilings (one single phase, three 3-phase) has an indoor sound level as low as 45.5dB(A) making them ideal for boardrooms, conference rooms and hotel lobbies as well as other commercial and industrial applications. Providing both heating and cooling, they ensure an indoor airflow up to 2300 m<sup>3</sup>/h, while maximum piping length to outdoor unit ranges from 30 metres to 50 metres. As with all Alliance products, this Underceiling range is backed by a nationwide sales and service network, with branches in all major metropolitan areas.



| Indoor Model                                   |                              |                   | FOUU36/1/A            | FOUU36/3              | FOUU48/A                       | FOUU60/A                       |
|------------------------------------------------|------------------------------|-------------------|-----------------------|-----------------------|--------------------------------|--------------------------------|
| Power supply                                   |                              | V-ph-Hz           | 220~240-1-50          | 380~415-3-50          | 380~415-3-50                   | 380~415-3-50                   |
| Cooling                                        | Capacity                     | Btu/h             | 36000                 | 36000                 | 48000                          | 55000                          |
|                                                | Input                        | W                 | 3900                  | 3600                  | 5450                           | 6400                           |
|                                                | Current                      | A                 | 18                    | 6                     | 9.3                            | 10.5                           |
|                                                | EER                          | W/W               | 2.71                  | 2.93                  | 2.58                           | 2.52                           |
| Heating                                        | Capacity                     | Btu/h             | 38000                 | 36000                 | 55000                          | 60000                          |
|                                                | Input                        | W                 | 3950                  | 3650                  | 5080                           | 5800                           |
|                                                | Current                      | A                 | 18.5                  | 6.1                   | 8.6                            | 9.6                            |
|                                                | COP                          | W/W               | 2.82                  | 2.89                  | 3.17                           | 3.03                           |
| Indoor fan motor                               | Input                        | W                 | 236                   | 148                   | 166                            | 120                            |
|                                                | Capacitor                    |                   | 5                     | 4.5                   | 2.5                            | 2.5                            |
|                                                | Speed(Hi/Med/Lo)             | r/min             | 1370/1300/1225        | 1370/1300/1225        | 1285/1205/1130                 | 1310/1190/1080                 |
| Indoor coil                                    | Number of rows               |                   | 2                     | 2                     | 3                              | 3                              |
|                                                | Tube pitch(a)x row pitch(b)  | mm                | 21x13.37              | 21x13.37              | 21x13.37                       | 21x13.37                       |
|                                                | Fin spacing                  | mm                | 1.3                   | 1.3                   | 1.3                            | 1.3                            |
|                                                | Fin type                     |                   | Hydrophilic aluminium | Hydrophilic aluminium | Hydrophilic aluminium (Golden) | Hydrophilic aluminium (Golden) |
|                                                | Tube outside dia.and type    | mm                | Φ7,inner groove tube  | Φ7,inner groove tube  | Φ7,inner groove tube           | Φ7,inner groove tube           |
|                                                | Coil length x height x width | mm                | 935x294x26.74         | 935x294x26.74         | 1300x40.11x294                 | 1300x294x40.11                 |
|                                                | Number of circuits           |                   | 6                     | 6                     | 8                              | 10                             |
| Indoor air flow(Hi/Med/Lo)                     |                              | m <sup>3</sup> /h | 1780/1660/1530        | 1819/1536/1331        | 2350/2150/2000                 | 2267/1846/1636                 |
| Indoor noise level (sound pressure)(Hi/Med/Lo) |                              | dB(A)             | 54.5/52.5/50          | 53/48.5/45            | 54.0/51.0/48.0                 | 54.5/50.6/48.0                 |
| Indoor unit                                    | Dimension (WxDxH)            | mm                | 1285x675x235          | 1285x675x235          | 1650x675x235                   | 1650x675x235                   |
|                                                | Packing (WxDxH)              | mm                | 1360x755x318          | 1360x755x313          | 1725x755x318                   | 1725x755x318                   |
|                                                | Net/Gross weight             | kg                | 30.5/36.1             | 29.9/35.5             | 39/45                          | 39/45                          |
| Design pressure                                |                              | MPa               | 4.2/1.5               | 4.2/1.5               | 4.2/1.5                        | 4.2/1.5                        |
| Drainage water pipe diameter                   |                              | mm                | ODΦ25                 | ODΦ25                 | ODΦ25                          | ODΦ25                          |
| Refrigerant piping, Liquid side/Gas side       |                              | mm(inch)          | Φ9.52/Φ19(3/8"/3/4")  | Φ9.52/Φ19(3/8"/3/4")  | Φ9.52/Φ19(3/8"/3/4")           | Φ9.52/Φ19(3/8"/3/4")           |
| Controller                                     |                              |                   | Remote control        | Wired control         | Remote control                 | Remote control                 |
| Operation temperature                          |                              | °C                | 17~30                 | 17~30                 | 17~30                          | 17~30                          |
| Room temperature                               | Cooling                      | °C                | 17~32                 | 16~32                 | 17~32                          | 17~32                          |
|                                                | Heating                      | °C                | 18~43                 | 0~30                  | 0~30                           | 0~30                           |

| Outdoor Model                        |                              |          | FOUU36X/1/A             | FOUU36X/3               | FOUU48X/A                      | FOUU60X/A                      |
|--------------------------------------|------------------------------|----------|-------------------------|-------------------------|--------------------------------|--------------------------------|
| Power supply                         |                              | V-ph-Hz  | 220~240-1-50            | 380~415-3-50            | 380~415-3-50                   | 380~415-3-50                   |
| Max. input consumption               |                              | W        | 5200                    | 4250                    | 6300                           | 7500                           |
| Max. input current                   |                              | A        | 23                      | 7                       | 11                             | 12.6                           |
| Compressor                           | Type                         |          | ROTOR                   | ROTARY                  | SCROLL                         | SCROLL                         |
|                                      | Capacity                     | Btu/h    | 35604                   | 36000                   | 48109                          | 55957                          |
|                                      | Input                        | W        | 3520                    | 3430                    | 4750                           | 5750                           |
|                                      | Rated current(RLA)           | A        | 16.35                   | 6.4                     | 8.22                           | 9.77                           |
|                                      | Locked rotor Amp(LRA)        | A        | 89                      | 36                      | 66                             | 67                             |
|                                      | Thermal protector position   |          | INTERNAL                | INTERNAL                | INTERNAL                       | INTERNAL                       |
|                                      | Capacitor                    |          | 90                      | -                       | -                              | -                              |
| Outdoor fan motor                    | Input                        | W        | 293.3                   | 293.3                   | 162                            | 162                            |
|                                      | Capacitor                    |          | 10                      | 10                      | 3.5                            | 3.5                            |
|                                      | Speed                        | r/min    | 850/770                 | 850/770                 | 765                            | 765                            |
| Outdoor coil                         | Number of rows               |          | 2                       | 2                       | 2                              | 2                              |
|                                      | Tube pitch(a)* row pitch(b)  | mm       | 25.4x22                 | 25.4x22                 | 21x22                          | 21x22                          |
|                                      | Fin spacing                  | mm       | 1.3                     | 1.3                     | 1.3                            | 1.3                            |
|                                      | Fin type                     |          | Hydrophilic aluminium   | Hydrophilic aluminium   | Hydrophilic aluminium (Golden) | Hydrophilic aluminium (Golden) |
|                                      | Tube outside dia. and type   | mm       | Φ9.52,inner groove tube | Φ9.52,inner groove tube | Φ7,inner groove tube           | Φ7,inner groove tube           |
|                                      | Coil length * height * width | mm       | 1995x762x44             | 995x762x44              | 830x630x22+795x630x22          | 830x22x630+795x22x630          |
|                                      | Number of circuits           |          | 4                       | 4                       | 8                              | 8                              |
| Outdoor noise level (sound pressure) |                              | dB(A)    | 59.6                    | 63                      | 63                             | 63.3                           |
| Throttle type                        |                              |          | Throttle valve          | Throttle valve          | Throttle valve                 | Throttle valve                 |
| Outdoor unit                         | Dimension(WxDxH)             |          | 946x410x810             | 946x410x810             | 900x350x1170                   | 900x350x1170                   |
|                                      | Packing(WxDxH)               |          | 1090x500x885            | 1090x500x875            | 1032x443x1307                  | 1032x443x1307                  |
|                                      | Net/Gross weight             | kg       | 76.5/80.4               | 74.4/78.9               | 98.6/109.3                     | 99.7/111.2                     |
| Refrigerant type/Quantity            | Type                         |          | R410A                   | R410A                   | R410A                          | R410A                          |
|                                      | Charged volume               | kg       | 0                       | 2.85                    | 3.3                            | 3.3                            |
| Design pressure                      |                              | MPa      | 4.2/1.5                 | 4.2/1.5                 | 4.2/1.5                        | 4.2/1.5                        |
| Refrigerant piping                   | Liquid side/ Gas side        | mm(inch) | Φ9.52/Φ19(3/8"/3/4")    | Φ9.52/Φ19(3/8"/3/4")    | Φ9.52/Φ19(3/8"/3/4")           | Φ9.52/Φ19(3/8"/3/4")           |
|                                      | Max. pipe length             | m        | 25                      | 30                      | 50                             | 50                             |
|                                      | Max. difference in level     | m        | 15                      | 20                      | 30                             | 30                             |
| Ambient temperature                  | Cooling                      | °C       | 18~43                   | -7~43                   | 18~43                          | -15~43                         |
|                                      | Heating                      | °C       | -7~24                   | -7~24                   | -7~24                          | -7~24                          |

Alliance reserves the right to discontinue or change specifications at any time without notice and without incurring obligation. E&OE.

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