



## 3 phase condensing units for higher capacities (6-12 HP)

FRA-AYF

## Condensing unit range connectable to Air Curtains and Direct Expansion (DX) Air Handling

- > Use of lower GWP R-32 refrigerant
- > Immediate heating and cooling
- > Better management of load due to VRV technology
- > Continuous Heating: Avoid cold drafts during
- defrost cycle
- Benefit from the high efficiency and fast response time of ERA units for changing loads
- > Energy saving due to inverter technology

## **ERA-AYF**



| Outdoor unit   |                           |                    | ERA               | 200AYF                | 250AYF                | 300AYF               |  |
|--|---------------------------|--------------------|-------------------|-----------------------|-----------------------|----------------------|--|
| Dimensions   | Unit                      | HeightxWidthxDepth | mm                | 1,430 x940 x320       | 1,615 x94             | 40 x460              |  |
| Weight   | Unit                      |                    | kg                | 134 163               |                       | 3                    |  |
| Fan  | External                  | Max.               | Pa                |                       | 35                    |                      |  |
|  | static<br>pressure        |                    | 1 4               | 33                    |                       |                      |  |
| Sound power level  | •                         | Nom.               | dBA               | 73.2 (1)              | 74                    | 76.1 (1)             |  |
| Sound pressure   | Cooling                   | Nom.               | dBA               |                       | 57                    | 60                   |  |
| evel   |                           |                    |                   | 58.1 (2)              | -5 ~52                |                      |  |
| Operation range  | Cooling                   | Min.~Max.          | °CDB              |                       |                       |                      |  |
|  | Heating                   | Min.~Max.          | °CWB              |                       |                       |                      |  |
| Refrigerant  | Type/GW                   | P                  |                   |                       | R-32/675              |                      |  |
|  | Charge                    |                    | kg /<br>tCO2Eq    | 5.2 / 3.51            | 7 / 4.73              | 7.1 / 4.79           |  |
| Dawar supply   | Dhaco/Ere                 | equency/Voltage    | Hz/V              |                       | 2N /50/60/200 415/400 |                      |  |
| Power supply   |                           |                    |                   | 3N~/50/60/380-415/400 |                       | 22 (2)               |  |
| Current - 50Hz   | Maximum fuse amps (MFA) A |                    | A                 | 25 (3) 32 (3)         |                       |                      |  |
| Outdoor unit   |                           |                    | ERA               | 200AYF                | 250AYF                | 300AYF               |  |
| Capacity range   |                           |                    | HP                |                       | -                     |                      |  |
| Cooling capacity   | Prated,c                  |                    | kW                |                       | -                     |                      |  |
| Heating capacity   | Prated,h                  |                    | kW                |                       | -                     |                      |  |
| amig capacity  | Max.                      | 6°CWB              | kW                | 25                    | 31.5 (4)              | 37.5 (4)             |  |
| Recommended con  |                           | O CWD              | KVV               |                       | 31.5 (4)              | 37.3 (4)             |  |
|  | noitanian                 |                    | 0/                |                       |                       |                      |  |
| ηs,c   |                           |                    | %                 |                       | <u>-</u>              |                      |  |
| ηs,h   |                           |                    | %                 | -                     |                       |                      |  |
| SEER   |                           |                    |                   |                       | <u> </u>              |                      |  |
| SCOP   |                           |                    |                   |                       | <u>-</u>              |                      |  |
| ndoor index  | Min.                      |                    |                   | 140                   | 20                    | 0                    |  |
| connection   | Nom.                      |                    |                   | -                     |                       |                      |  |
|  | Max.                      |                    |                   | 200                   | 250                   | 300                  |  |
| Dimensions   | Unit                      | HeightxWidthxDepth | mm                | 1,430 x940 x320       |                       |                      |  |
| Weight   | Unit                      | петупкучицикоериі  |                   |                       |                       |                      |  |
|  |                           | Maria              | kg                | 134 163               |                       |                      |  |
| Sound power level  |                           | Nom.               | dBA               | 73.2 (1)              | 74                    | 76.1 (1)             |  |
| Sound pressure<br>evel                                     | Cooling                   | Nom.               | dBA               | 58.1 (2)              | 57                    | 60                   |  |
| Operation range  | Cooling                   | Min.~Max.          | °CDB              |                       | -5 ~52                |                      |  |
|  | Heating                   | Min.~Max.          | °CWB              |                       | -20 ~15.5             |                      |  |
| Refrigerant  | Type/GW                   |                    |                   |                       | R-32/675              |                      |  |
| J  | Charge                    |                    | kg /              | 5.2 / 3.51            | 7 / 4.73              | 7.1 / 4.79           |  |
|  | charge                    |                    | tCO2Eq            | J.E / J.J l           | 7 7 7.73              | 1.1 / 7.1 /          |  |
| Piping connections   | Liquid                    | OD                 | mm                |                       | 1.52                  | 12.7                 |  |
| riping connections   |                           | OD                 |                   |                       |                       |                      |  |
|  | Gas                       |                    | mm                | 19.1                  |                       | 22.2                 |  |
|  | Total<br>piping<br>length | System Actual      | m                 | 50 (5)                |                       |                      |  |
| Power supply   |                           | equency/Voltage    | Hz/V              | 3N~/50/60/380-415/400 |                       |                      |  |
| Current - 50Hz   |                           | n fuse amps (MFA)  | A                 | 25 (3)                |                       | 32 (3)               |  |
|  | a.miidii                  |                    | //                |                       | - \>                  | 32 (3)               |  |
| Outdoor unit   |                           |                    | ERA               | 200AYF                | 250AYF                | 300AYF               |  |
| Capacity range   |                           |                    | HP                |                       | -                     |                      |  |
| Cooling capacity   | Prated,c                  |                    | kW                |                       | -                     |                      |  |
| Heating capacity   | Prated,h                  |                    | kW                | <u> </u>              |                       |                      |  |
| reating capacity   |                           | 6°C/M/D            |                   | 25                    |                       | 27 5 / 4\            |  |
|  | Max.                      | 6°CWB              | kW                | 25                    | 31.5 (4)              | 37.5 (4)             |  |
| Recommended con  | noination                 |                    |                   |                       | -                     |                      |  |
| s,c  |                           |                    | %                 |                       | <u>-</u>              |                      |  |
| յs,h   |                           |                    | %                 |                       | <u>-</u>              |                      |  |
| SEER   |                           |                    |                   | •                     |                       |                      |  |
| SCOP .   |                           |                    |                   |                       |                       |                      |  |
|  |                           |                    | 140               | 200                   |                       |                      |  |
| ndoor index  | Nom.                      |                    | <u> </u>          |                       | -                     |                      |  |
|  |                           |                    |                   | 200                   | 250                   | 300                  |  |
|  |                           |                    |                   |                       | 430                   | 300                  |  |
| connection   | Max.                      | Nam                | dD A              |                       | 74                    | 7(1/1)               |  |
| connection   | Max.<br>Cooling           | Nom.               | dBA               | 73.2 (1)              | 74                    | 76.1 (1)             |  |
| Indoor index connection  Sound power level  Sound pressure | Max.                      | Nom.<br>Nom.       | dBA<br>dBA<br>dBA |                       | 74<br>74<br>57        | 76.1 (1)<br>76<br>60 |  |

| Piping connections Liqui |                                   | OD mm                   |    | 9.52                  | 12.7   |  |
|--------------------------|-----------------------------------|-------------------------|----|-----------------------|--------|--|
|                          | Gas                               | OD                      | mm | 19.1                  | 22.2   |  |
|                          | Total System Actual piping length |                         | m  | 50 (5)                |        |  |
| Power supply             | Phase/Fi                          | /Frequency/Voltage Hz/\ |    | 3N~/50/60/380-415/400 |        |  |
| Current - 50Hz           | Maximum fuse amps (MFA) A         |                         | A  | 25 (3)                | 32 (3) |  |

(1) Sound power level is an absolute value that a sound source generates. | (2) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. | (3) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 75·m; level difference: 0m | (5) Refer to refrigerant pipe selection or installation manual | Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 75·m; level difference: 0m | RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB | MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always < max. running current. | In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value | MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.

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