

## Technical Specification

|   |   |
|---|---|
| Project name :                                | Airovision Builder version: E1.13 (12-4-2022)(R086)/A |
| Quotation no. : 6.3 AHU Technical Guide / 014 | Eurovent identification number: 08.02.251             |

### GENERAL DATA

|                         |                                       |
|-------------------------|---------------------------------------|
| Customer reference      | 6.3.1 15000 RHW 11.08                 |
| Number off              | 1                                     |
| Location                | External (flat roof)                  |
| Delivery                | In sections                           |
| AHU finish              | Outside in standard colour (RAL 7035) |
| Product                 | Air handling unit                     |
| AHU configuration       | Double deck (opposite)                |
| Pallet option           | Excluded                              |
| Lifting Beam            | Included                              |
| Total weight (each)     | kg 2149                               |
| (Radiated casework SWL) | dB(A) 70                              |
| ErP identification code | NRVU / BVU                            |

### Eurovent energy classification



|      |                   |      |      |                   |      |
|------|-------------------|------|------|-------------------|------|
| SFPe | kJ/m <sup>3</sup> | 2.69 | SFPv | kJ/m <sup>3</sup> | 2.49 |
|------|-------------------|------|------|-------------------|------|

Calculations conform to the Regulation for bidirectional ventilation unit (BVU) for delivery after 01.01.2018  
Remarks are needed to be solved to comply with the Regulation.

### Ecodesign 1253/2014 2018 BVU after 01.01.2018

#### Intermediate calculations

|   |       |
|---|-------|
| E (HR Bonus) (Pa)                           | 78    |
| F (Filter correction) (Pa)                  | 0     |
| SFP int_limit (W/(m <sup>3</sup> /s))       | 878.0 |
| SFP int supply air (W/(m <sup>3</sup> /s))  | 450.2 |
| SFP int extract air (W/(m <sup>3</sup> /s)) | 375.4 |
| SFP int (W/(m <sup>3</sup> /s))             | 825.6 |

#### Supply air unit data

|                             |      |
|-----------------------------|------|
| Airflow (m <sup>3</sup> /s) | 4.17 |
| Static pressure (Pa)        | 1006 |
| p fan (kW)                  | 6.31 |
| n fan (%)                   | 66.5 |
| Fine Filter                 | Yes  |
| dp Fine filter (Pa)         | 75   |
| nt nrvu (%)                 | 76   |
| dp HRS (Pa)                 | 224  |

#### Extract air unit data

|                             |      |
|-----------------------------|------|
| Airflow (m <sup>3</sup> /s) | 4.17 |
| Static pressure (Pa)        | 771  |
| p fan (kW)                  | 4.92 |
| n fan (%)                   | 65.3 |
| Medium Filter               | Yes  |
| dp Medium filter (Pa)       | 21   |
| nt nrvu (%)                 | 76   |
| dp HRS (Pa)                 | 224  |

#### Check

|                                      |         |
|--------------------------------------|---------|
| Fan is selected with VSD             | Passed  |
| Heat recovery                        | Passed  |
| Thermal by-pass facility             | Warning |
| SFP int                              | Passed  |
| Filters equipped with pressure gauge | Passed  |

#### Total check

##### Passed

##### Remark

To comply with Regulation EU No 1253 you need to equip the heat wheel with a rotor controller.

### ACCESS DATA

|             |          |   |          |
|-------------|----------|---|----------|
| Handle type | L-Handle | Pressure guard at positive pressure doors | Included |
|-------------|----------|---|----------|

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### EXHAUST DATA

|                     |                                |                |                   |  |
|---------------------|--------------------------------|----------------|-------------------|--|
| Type                | 39HQ 11.08                     | Air volume     | m <sup>3</sup> /s | 4.17                                   |
| Casing construction | GP080<br>60 mm                 | Internal sheet |                   | Galvanised 0.80mm                      |
| Insulation          | Glasswool 23 kg/m <sup>3</sup> | External sheet |                   | PUR-PA painted galvanized steel 0.80mm |
| Unit velocity       | m/s 1.95                       | Profile        |                   | Steel                                  |
| SFPe                | kJ/m <sup>3</sup> 1.18         | SFPv           | kJ/m <sup>3</sup> | 1.11                                   |

|   |           |    |             |             |             |    |    |     |  |
|---|-----------|----|-------------|-------------|-------------|----|----|-----|--|
| Mechanical performance according EN1886 | Model box | D1 | L1 (-400Pa) | L1 (+400Pa) | L1 (+700Pa) | F9 | T2 | TB2 |  |
|   | Real Unit |    | L2 (-400Pa) | L2 (+400Pa) | L2 (+700Pa) |    |    |     |  |

|                          |    |     |     |     |    |    |    |    |       |
|--------------------------|----|-----|-----|-----|----|----|----|----|-------|
| (Sound data exhaust SWL) | Hz | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB(A) |
|                          | dB | 59  | 65  | 65  | 71 | 72 | 73 | 62 | 77    |
|                          | dB | 59  | 65  | 71  | 74 | 73 | 72 | 60 | 78    |

### SUPPLY DATA

|                                     |                        |                |                   |  |
|-------------------------------------|------------------------|----------------|-------------------|--|
| Glasswool 23 kg/m <sup>3</sup> Type | 39HQ 11.08             | Air volume     | m <sup>3</sup> /s | 4.17                                   |
| Casing construction                 | GP080<br>60 mm         | Internal sheet |                   | Galvanised 0.80mm                      |
| Design outdoor temperature          | °C 9.0                 | External sheet |                   | PUR-PA painted galvanized steel 0.80mm |
| Design outdoor temperature (summer) | °C 37.5                | Insulation     |                   | Glasswool 23 kg/m <sup>3</sup>         |
| Design outdoor dew point (summer)   | °C 16.8                | Profile        |                   | Steel                                  |
| Unit velocity                       | m/s 1.95               |                |                   |  |
| SFPe                                | kJ/m <sup>3</sup> 1.51 | SFPv           | kJ/m <sup>3</sup> | 1.38                                   |

|   |           |    |             |             |             |    |    |     |  |
|---|-----------|----|-------------|-------------|-------------|----|----|-----|--|
| Mechanical performance according EN1886 | Model box | D1 | L1 (-400Pa) | L1 (+400Pa) | L1 (+700Pa) | F9 | T2 | TB2 |  |
|   | Real Unit |    | L2 (-400Pa) | L2 (+400Pa) | L2 (+700Pa) |    |    |     |  |

|                         |    |     |     |     |    |    |    |    |       |
|-------------------------|----|-----|-----|-----|----|----|----|----|-------|
| (Sound data supply SWL) | Hz | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB(A) |
|                         | dB | 54  | 63  | 62  | 59 | 57 | 45 | 36 | 64    |
|                         | dB | 62  | 71  | 77  | 90 | 84 | 80 | 73 | 91    |

In direction of airflow, the unit comprises:

### DELIVERY SECTION(S)

| Section | Width (mm) | Height (mm) | Length (mm) | Baseframe (mm) | Weight (kg) | Weight (Lifting Beam) (kg) |
|---------|------------|-------------|-------------|----------------|-------------|----------------------------|
| 1       | 1858       | 1378        | 849         | 62             | 150         |                            |
| 2       | 1858       | 1378        | 849         | 62             | 271         |                            |
| 3       | 1858       | 1378        | 578         | 62             | 122         |                            |
| 4       | 1858       | 1378        | 578         | 62             | 183         |                            |
| 5       | 2018       | 2818        | 578         | 62             | 481         |                            |
| 6       | 1858       | 1378        | 1649        | 62             | 465         | 24                         |
| 7       | 1858       | 1378        | 960         | 62             | 182         |                            |
| 8       | 1858       | 1378        | 849         | 62             | 291         |                            |

### EXHAUST COMPONENTS

## Technical Specification

|   |   |
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|                         |    |             |  |                 |             |
|-------------------------|----|-------------|--|-----------------|-------------|
| <b>INLET</b>            |    |             |  |                 |             |
| Opening Position        |    | Full face   |  | Provided with:  |             |
| Number of openings      |    | 1           |  | Opening product | Duct spigot |
| Opening, width x height | mm | 1760 x 1280 |  |                 |             |
| Pressure drop           | Pa | 2           |  |                 |             |

|                           |    |                    |  |                        |            |
|---------------------------|----|--------------------|--|------------------------|------------|
| <b>FILTER</b>             |    |                    |  |                        |            |
| Filter type               |    | Panel (Synthetic)  |  | Withdrawal method      | Side       |
| Test method               |    | EN 779 / ISO 16890 |  | Filter frame material  | Galvanised |
| EN 779 Class              |    | M5                 |  | Filter casing material | Galvanised |
| Eurovent Efficiency Class |    | NA                 |  |                        |            |
| ISO 16890 Class           |    | ISO ePM10 50       |  |                        |            |
| Design pressure drop      |    | Mean pd            |  |                        |            |
| Initial pressure drop     | Pa | 67                 |  |                        |            |
| Mean pressure drop        | Pa | 117                |  |                        |            |
| Final pressure drop       | Pa | 167                |  |                        |            |
| Filter length             | mm | 48                 |  |                        |            |

|                |     |   |  |         |       |
|----------------|-----|---|--|---------|-------|
| <b>Filters</b> |     |   |  |         |       |
| 592x592        | Qty | 4 |  | 437x592 | Qty 2 |

|               |  |      |  |             |      |
|---------------|--|------|--|-------------|------|
| <b>ACCESS</b> |  |      |  |             |      |
| Access type   |  | Door |  | Access side | Left |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>EXTRAS</b>                                    |  |  |  |  |  |
| 1 x Pressure gauge wall mounted, Magnehelic 2000 |  |  |  |  |  |

|                     |    |   |  |  |  |
|---------------------|----|---|--|--|--|
| <b>INLET PLENUM</b> |    |   |  |  |  |
| Air pressure drop   | Pa | 0 |  |  |  |

|                          |                   |                |  |  |  |
|--------------------------|-------------------|----------------|--|--|--|
| <b>FAN</b>               |                   |                |  |  |  |
| Fan type                 |                   | K3G500PA2375   |  |  |  |
| Fan arrangement          |                   | Fan Wall - 1x2 |  |  |  |
| Air volume               | m <sup>3</sup> /s | 2 x 2.08       |  |  |  |
| External static pressure | Pa                | 392            |  |  |  |
| Internal static pressure | Pa                | 369            |  |  |  |
| Static pressure ISP+ESP  | Pa                | 761            |  |  |  |
| System effect            | Pa                | 10             |  |  |  |
| Extra static pressure    | Pa                | 0              |  |  |  |
| Total static pressure    | Pa                | 771            |  |  |  |
| Dynamic pressure         | Pa                | 36             |  |  |  |
| Total pressure           | Pa                | 806            |  |  |  |
| Fan speed                | rpm               | 1675           |  |  |  |
| Max fan speed            | rpm               | 1910           |  |  |  |
| Efficiency (total)       | %                 | 67             |  |  |  |
| Fan shaft power          | kW                | 2.46           |  |  |  |

|                             |           |    |     |     |     |    |    |    |    |
|-----------------------------|-----------|----|-----|-----|-----|----|----|----|----|
| <b>(Fan sound data SWL)</b> |           |    |     |     |     |    |    |    |    |
| Total                       | Hz        | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|                             | Inlet dB  | 40 | 60  | 66  | 66  | 72 | 73 | 75 | 64 |
|                             | Outlet dB | 43 | 61  | 67  | 74  | 78 | 78 | 78 | 68 |

|                             |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| <b>FAN EXTRAS</b>           |  |  |  |  |  |
| Inlet cone measuring points |  |  |  |  |  |

|               |  |      |  |             |      |
|---------------|--|------|--|-------------|------|
| <b>ACCESS</b> |  |      |  |             |      |
| Access type   |  | Door |  | Access side | Left |

|                           |  |  |                          |  |  |
|---------------------------|--|--|--------------------------|--|--|
| <b>EXTRAS</b>             |  |  |                          |  |  |
| 2 x Measuring nipple, 6mm |  |  | 2 x Fanwall terminal box |  |  |

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|                      |        |           |                       |    |     |
|----------------------|--------|-----------|-----------------------|----|-----|
| <b>HEAT WHEEL</b>    |        |           |                       |    |     |
| Rotor situation      |        | Build-in  |                       |    |     |
| Winter conditions    |        |           |                       |    |     |
| Exhaust air on       | °C/%RH | 22.0 / 40 | Exhaust pressure drop | Pa | 224 |
| Exhaust air off      | °C/%RH | 7.3 / 96  |                       |    |     |
| Summer conditions    |        |           |                       |    |     |
| Exhaust air on       | °C/%RH | 27.0 / 50 | Exhaust pressure drop | Pa | 200 |
| Exhaust air off      | °C/%RH | 34.9 / 32 |                       |    |     |
| Recirculation Damper |        | None      |                       |    |     |
| Damper blade         |        | -         |                       |    |     |
| Damper material      |        | -         |                       |    |     |
| Damper code          |        | -         |                       |    |     |
| Damper qty.          |        | -         |                       |    |     |
| Damper torque        | Nm     | -         |                       |    |     |

### SUPPLY COMPONENTS

|  |    |             |   |    |                                     |
|--|----|-------------|---|----|-------------------------------------|
| <b>DOUBLE MIXING BOX</b>                                 |    |             |   |    |                                     |
| Opening Position   |    | Full face   | Provided with:  |    |                                     |
| Number of exhaust openings                               |    | 1           | Opening product                                       |    | None                                |
| Exhaust opening, w x h                                   | mm | 1760 x 1280 | Damper  |    | External, Opposed blades, Aluminium |
| Pressure drop  | Pa | 3           | Number of Dampers                                     |    | 1                                   |
| Actuator type  |    | External    | Damper Code   |    | DMP1658x1178-200-162-7-D1Y2-0       |
| Actuator Side  |    | Left        | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 12                              |
| Access side  |    | None        | Provided with:  |    |                                     |
| Opening Position   |    | Top         | Opening product                                       |    | None                                |
| Number of Recirc openings                                |    | 1           | Damper  |    | Internal, Opposed blades, Aluminium |
| Recirc opening, w x h                                    | mm | 1760 x 480  | Number of Dampers                                     |    | 1                                   |
| Pressure drop  | Pa | 48          | Damper Code   |    | DMP1498x0318-110-162-2-D1Y2-0       |
| Actuator type  |    | External    | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 5                               |
| Actuator Side  |    | Left        | Provided with:  |    |                                     |
| Access side  |    | None        | Opening product                                       |    | None                                |
| Opening Position   |    | Full face   | Damper  |    | External, Opposed blades, Aluminium |
| Number of openings                                       |    | 1           | Number of Dampers                                     |    | 1                                   |
| Fresh air opening, w x h                                 | mm | 1760 x 1280 | Damper Code   |    | DMP1658x1178-200-162-7-D1Y2-0       |
| Pressure drop  | Pa | 3           | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 12                              |
| Actuator type  |    | External    | Provided with:  |    |                                     |
| Actuator Side  |    | Left        | Opening product                                       |    | None                                |
| Access side  |    | None        | Damper  |    | External, Opposed blades, Aluminium |
| Mixing ratio, winter (recirculation air/supply air) in % | %  | 0           | Number of Dampers                                     |    | 1                                   |
|  |    |             | Damper Code   |    | DMP1658x1178-200-162-7-D1Y2-0       |
|  |    |             | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 12                              |
| <b>EXTRAS (SUPPLY)</b>                                   |    |             |   |    |                                     |
| 1 x Coupling rod for dampers                             |    |             |   |    |                                     |

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### FILTER

|                           |    |                    |                        |            |
|---------------------------|----|--------------------|------------------------|------------|
| Filter type               |    | Panel (Synthetic)  | Withdrawal method      | Side       |
| Test method               |    | EN 779 / ISO 16890 | Filter frame material  | Galvanised |
| EN 779 Class              |    | G4                 | Filter casing material | Galvanised |
| Eurovent Efficiency Class |    | NA                 |                        |            |
| ISO 16890 Class           |    | ISO Coarse 60      |                        |            |
| Design pressure drop      |    | Mean pd            |                        |            |
| Initial pressure drop     | Pa | 62                 |                        |            |
| Mean pressure drop        | Pa | 87                 |                        |            |
| Final pressure drop       | Pa | 112                |                        |            |
| Filter length             | mm | 48                 |                        |            |

### Filters

|         |     |   |         |     |   |
|---------|-----|---|---------|-----|---|
| 592x592 | Qty | 4 | 437x592 | Qty | 2 |
|---------|-----|---|---------|-----|---|

### EXTRAS

1 x Pressure gauge wall mounted, Magnehelic 2000

### EMPTY SECTION

|               |    |   |
|---------------|----|---|
| Pressure drop | Pa | 0 |
|---------------|----|---|

### HEAT WHEEL

Rotor Model ST1-SL-WV-1775-SM-K3-A1-0,W1875,H1875

|                     |              |                      |                           |
|---------------------|--------------|----------------------|---------------------------|
| Rotor type          | Condensation | Rotor frame material | Aluzinc                   |
| Rotor material      | Aluminium    | Rotor purging sector | Excluded                  |
| Rotor situation     | Build-in     | Delivery requirement | Single section            |
| Component mountings | Galvanised   | Rotor Motor Type     | Gear Motor-Constant Speed |

### Winter conditions

|                          |        |           |                             |    |     |
|--------------------------|--------|-----------|-----------------------------|----|-----|
| Supply air on            | °C/%RH | 2.5 / 62  | Supply pressure drop        | Pa | 224 |
| Supply air off           | °C/%RH | 17.2 / 24 |                             |    |     |
| Supply dry efficiency    | %      | 76        | Supply latent efficiency    | %  | 4   |
| Supply dry effectiveness | %      | 76        | Supply latent effectiveness | %  | 4   |
| Total duty               | kW     | 76.50     |                             |    |     |

### Summer conditions

|                          |        |           |                                 |    |     |
|--------------------------|--------|-----------|---------------------------------|----|-----|
| Supply air on            | °C/%RH | 37.5 / 30 | Supply pressure drop            | Pa | 200 |
| Supply air off           | °C/%RH | 29.6 / 46 |                                 |    |     |
| Supply dry efficiency    | %      | 76        | Supply latent efficiency        | %  | 0   |
| Supply dry effectiveness | %      | 76        | Supply latent effectiveness     | %  | 0   |
| Total duty               | kW     | 41.00     | Dry efficiency at equal airflow | %  | 76  |

### EXTRAS

1 x Syphone

### FILTER

|                           |    |                    |                        |            |
|---------------------------|----|--------------------|------------------------|------------|
| Filter type               |    | Bag (Synthetic)    | Withdrawal method      | Side       |
| Test method               |    | EN 779 / ISO 16890 | Filter frame material  | Galvanised |
| EN 779 Class              |    | F7                 | Filter casing material | Galvanised |
| Eurovent Efficiency Class |    | E                  |                        |            |
| ISO 16890 Class           |    | ISO ePM1 50        |                        |            |
| Design pressure drop      |    | Mean pd            |                        |            |
| Initial pressure drop     | Pa | 79                 |                        |            |
| Mean pressure drop        | Pa | 129                |                        |            |
| Final pressure drop       | Pa | 179                |                        |            |
| Filter length             | mm | 500                |                        |            |

### Filters

|         |     |   |         |     |   |
|---------|-----|---|---------|-----|---|
| 592x592 | Qty | 4 | 437x592 | Qty | 2 |
|---------|-----|---|---------|-----|---|

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ACCESS  
Access type Door Access side Right

EXTRAS  
1 x Pressure gauge wall mounted, Magnehelic 2000

| CHILLED WATER COIL           |                                     |         | Number of coils         |                     | 1            |
|------------------------------|-------------------------------------|---------|-------------------------|---------------------|--------------|
| Coil Code                    | P25-10AR-5R-46T-1533A-2.0PA-39NC-Cu |         | 0.36/Al 0.10-2 1/2"     |                     |              |
| Air volume                   | m <sup>3</sup> /s                   | 4.17    | Fluid                   | 100%                | Water        |
| Duty                         | kW                                  | 94.16   | Fluid flow rate         | l/s                 | 4.48         |
| Air on db                    | °C                                  | 27.0    | Fluid on                | °C                  | 7.0          |
| Air on wb/RH                 | °C/%                                | 19.0/47 | Fluid off               | °C                  | 12.0         |
| Air off db                   | °C                                  | 13.0    | Fluid content           | l                   | 35.15        |
| Air off wb/RH                | °C/%                                | 12.4/94 | Fluid pressure drop     | kPa                 | 39           |
| Sensible duty                | kW                                  | 70.00   |                         |                     |              |
| Air pressure drop coil (Dry) | Pa                                  | 92      | Air pressure drop elim. | Pa                  | 13           |
| Tubes/fins/connections       | Cu / Al / Fe                        |         | Connection type         | Threaded (Right)    |              |
| Coil frame                   | Galvanised                          |         | Connection size         | 2 1/2"              |              |
| Tube thickness               | mm                                  | 0.36    | Fin spacing             | mm                  | 2.0          |
| Tube Diameter                | mm                                  | 9.2388  | Fin thickness           | mm                  | 0.10         |
| Face velocity                | m/s                                 | 2.3     |                         |                     |              |
| Eliminator                   | Plastic – side withdrawal           |         | Eliminator frame        | Galvanised          |              |
| Drainpan type                | Recessed (sloped)                   |         | Drainpan material       | Stainless steel 304 |              |
| Drain pipes on drainpan      | 1                                   |         | Intermediate drainpan   | No                  |              |
| Condensed Water              | l/min                               | 0.5     | Syphon Type             | Negative            |              |
| Coil Weight                  | kg                                  | 101.50  | Xin/Yin/Xout/Yout       | mm/mm/<br>mm/mm     | 177/71/89/89 |

EXTRAS  
1 x Syphone

| HOT WATER COIL         |                                     |        | Number of coils     |                  | 1            |
|------------------------|-------------------------------------|--------|---------------------|------------------|--------------|
| Coil Code              | P25-10AR-2R-46T-1550A-2.0PA-32NC-Cu |        | 0.36/Al 0.10-2"     |                  |              |
| Air volume             | m <sup>3</sup> /s                   | 4.17   | Fluid               | 100%             | Water        |
| Duty                   | kW                                  | 75.00  | Fluid flow rate     | l/s              | 3.62         |
| Air on db              | °C                                  | 10.0   | Fluid on            | °C               | 45.0         |
| Air off db             | °C                                  | 25.0   | Fluid off           | °C               | 40.0         |
| Air pressure drop      | Pa                                  | 29     | Fluid content       | l                | 16.49        |
|                        |                                     |        | Fluid pressure drop | kPa              | 14           |
| Tubes/fins/connections | Cu / Al / Fe                        |        | Connection type     | Threaded (Right) |              |
| Coil frame             | Galvanised                          |        | Connection size     | 2"               |              |
| Tube thickness         | mm                                  | 0.36   | Fin spacing         | mm               | 2.0          |
| Tube Diameter          | mm                                  | 9.2388 | Fin thickness       | mm               | 0.10         |
| Face velocity          | m/s                                 | 2.3    | Xin/Yin/Xout/Yout   | mm/mm/<br>mm/mm  | 166/63/81/81 |
| Coil Weight            | kg                                  | 55.27  |                     |                  |              |

EXTRAS  
1 x Syphone

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| STEAM HUMIDIFIER         |                   |          |                        |    |                     |
|--------------------------|-------------------|----------|------------------------|----|---------------------|
| Air volume               | m <sup>3</sup> /s | 4.17     | Humidifier supplier    |    | Condair             |
| Moisture addition        | kg/h              | 70       | Number of steam lances |    | 2                   |
| Air on db                | °C                | 25.0     | Steam lance length     | mm | 1500                |
| Air on moisture content  | g/kg              | 2.8      |                        |    |                     |
| Air on rh                | %                 | 32       |                        |    |                     |
| Air off db               | °C                | 25.7     |                        |    |                     |
| Air off moisture content | g/kg              | 6.6      |                        |    |                     |
| Air off rh               | %                 | 32       |                        |    |                     |
| Steam boiler type 1      |                   | EL70     | Power each             | kW | 2 x 26.3            |
| Max steam capacity, each | kg/h              | 70       | Current each           | A  | 2 x 37.9            |
| Number off               |                   | 1        | Voltage                | V  | 3x400V, 50/60Hz     |
| Boiler weight, each      | kg                | 80       |                        |    |                     |
| Section length           | mm                | 960      | Drainpan material      |    | Stainless steel 304 |
| Drainpan                 |                   | Included |                        |    |                     |

Note: Electric boilers will be delivered separately (not mounted on the unit). Boiler weights not included in unit weights.

| ACCESS      |      |             |       |
|-------------|------|-------------|-------|
| Access type | Door | Access side | Right |

EXTRAS  
1 x Syphone

| ANY COMPONENT |    |   |
|---------------|----|---|
| Pressure drop | Pa | 0 |

| INLET PLENUM      |    |   |
|-------------------|----|---|
| Air pressure drop | Pa | 0 |

| ACCESS      |      |             |       |
|-------------|------|-------------|-------|
| Access type | Door | Access side | Right |

| FAN                      |                   |                |     |                             |     |            |    |    |    |
|--------------------------|-------------------|----------------|-----|-----------------------------|-----|------------|----|----|----|
| Fan type                 |                   | K3G450PB2405   |     |                             |     |            |    |    |    |
| Fan arrangement          |                   | Fan Wall - 1x2 |     |                             |     |            |    |    |    |
| Air volume               | m <sup>3</sup> /s | 2 x 2.08       |     | Installed motor power       | kW  | 5.25       |    |    |    |
| External static pressure | Pa                | 392            |     | Motor                       |     | Run        |    |    |    |
| Internal static pressure | Pa                | 608            |     | Motor efficiency class      |     | IE4        |    |    |    |
| Static pressure ISP+ESP  | Pa                | 1000           |     | Motor nominal speed         | rpm | 2600       |    |    |    |
| System effect            | Pa                | 5              |     | Voltage                     | V   | 380-480    |    |    |    |
| Extra static pressure    | Pa                | 0              |     | Current                     | A   | 8.0        |    |    |    |
| Total static pressure    | Pa                | 1006           |     | Abs. motor power incl. F.I. | kW  | 3.15       |    |    |    |
| Dynamic pressure         | Pa                | 55             |     | Control Signal (0-10V)      | V   | 7.36       |    |    |    |
| Total pressure           | Pa                | 1060           |     | Fan bulkhead material       |     | Galvanised |    |    |    |
| Fan speed                | rpm               | 2174           |     |                             |     |            |    |    |    |
| Max fan speed            | rpm               | 2600           |     |                             |     |            |    |    |    |
| Efficiency (total)       | %                 | 69             |     |                             |     |            |    |    |    |
| Fan shaft power          | kW                | 3.15           |     |                             |     |            |    |    |    |
| (Fan sound data SWL)     | Hz                | 63             | 125 | 250                         | 500 | 1k         | 2k | 4k | 8k |
| Total                    | Inlet dB          | 42             | 61  | 70                          | 71  | 75         | 77 | 76 | 69 |
|                          | Outlet dB         | 44             | 62  | 71                          | 77  | 90         | 84 | 80 | 73 |

FAN EXTRAS  
Inlet cone measuring points



Date: 19/6/2022



### Technical Specification

|   |   |
|---|---|
| Project name :                                | Airovision Builder version: E1.13 (12-4-2022)(R086)/A |
| Quotation no. : 6.3 AHU Technical Guide / 014 | Eurovent identification number: 08.02.251             |

**ACCESS**

|             |      |             |       |
|-------------|------|-------------|-------|
| Access type | Door | Access side | Right |
|-------------|------|-------------|-------|

**EXTRAS**

|                           |                          |
|---------------------------|--------------------------|
| 2 x Measuring nipple, 6mm | 2 x Fanwall terminal box |
|---------------------------|--------------------------|

**OUTLET**

|                         |                |                 |             |
|-------------------------|----------------|-----------------|-------------|
| Opening Position        | Full face      | Provided with:  |             |
| Number of openings      | 1              | Opening product | Duct spigot |
| Opening, width x height | mm 1760 x 1280 |                 |             |
| Pressure drop           | Pa 2           |                 |             |