

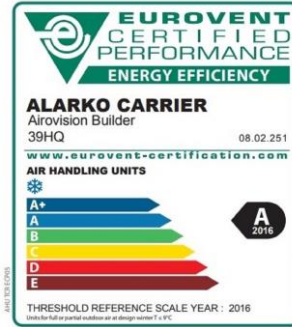
Technical Specification

| | |
|---|---|
| Project name : | Airovision Builder version: E1.13 (12-4-2022)(R086)/A |
| Quotation no. : 6.3 AHU Technical Guide / 013 | Eurovent identification number: 08.02.251 |

GENERAL DATA

| | |
|-------------------------|---------------------------------------|
| Customer reference | 6.3.1 15000 RHW 14.06 |
| 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 2068 |
| (Radiated casework SWL) | dB(A) 70 |
| ErP identification code | NRVU / BVU |

Eurovent energy classification



| | | | | | |
|------|-------------------|------|------|-------------------|------|
| SFPe | kJ/m ³ | 2.65 | SFPv | kJ/m ³ | 2.45 |
|------|-------------------|------|------|-------------------|------|

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) | 0 |
| F (Filter correction) (Pa) | 0 |
| SFP int_limit (W/(m ³ /s)) | 800.2 |
| SFP int supply air (W/(m ³ /s)) | 419.1 |
| SFP int extract air (W/(m ³ /s)) | 340.3 |
| SFP int (W/(m ³ /s)) | 759.4 |

Supply air unit data

| | |
|-----------------------------|------|
| Airflow (m ³ /s) | 4.17 |
| Static pressure (Pa) | 997 |
| p fan (kW) | 6.26 |
| n fan (%) | 66.4 |
| Fine Filter | Yes |
| dp Fine filter (Pa) | 81 |
| nt nrvu (%) | 73 |
| dp HRS (Pa) | 197 |

Extract air unit data

| | |
|-----------------------------|------|
| Airflow (m ³ /s) | 4.17 |
| Static pressure (Pa) | 746 |
| p fan (kW) | 4.79 |
| n fan (%) | 64.8 |
| Medium Filter | Yes |
| dp Medium filter (Pa) | 23 |
| nt nrvu (%) | 73 |
| dp HRS (Pa) | 197 |

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 |
|-------------|----------|---|----------|

Technical Specification

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EXHAUST DATA

| | | | | |
|---------------------|--------------------------------|----------------|-------------------|--|
| Type | 39HQ 14.06 | Air volume | m ³ /s | 4.17 |
| Casing construction | GP080 60 mm | Internal sheet | | Galvanised 0.80mm |
| Insulation | Glasswool 23 kg/m ³ | External sheet | | PUR-PA painted galvanized steel 0.80mm |
| Unit velocity | m/s 2.06 | Profile | | Steel |
| SFPe | kJ/m ³ 1.15 | SFPv | kJ/m ³ | 1.08 |

| | | | | | | | | | |
|---|-----------|----|-------------|-------------|-------------|----|----|-----|--|
| 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 | 57 | 65 | 68 | 72 | 73 | 73 | 64 | 78 |
| | dB | 58 | 65 | 72 | 82 | 77 | 72 | 63 | 84 |

SUPPLY DATA

| | | | | |
|-------------------------------------|------------------------|----------------|-------------------|--|
| Glasswool 23 kg/m ³ Type | 39HQ 14.06 | Air volume | m ³ /s | 4.17 |
| Casing construction | GP080 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 ³ |
| Design outdoor dew point (summer) | °C 16.8 | Profile | | Steel |
| Unit velocity | m/s 2.06 | | | |
| SFPe | kJ/m ³ 1.50 | SFPv | kJ/m ³ | 1.37 |

| | | | | | | | | | |
|---|-----------|----|-------------|-------------|-------------|----|----|-----|--|
| 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 | 2338 | 1058 | 529 | 62 | 123 | |
| 2 | 2338 | 1058 | 849 | 62 | 289 | |
| 3 | 2338 | 1058 | 578 | 62 | 122 | |
| 4 | 2338 | 1058 | 578 | 62 | 185 | |
| 5 | 2338 | 2178 | 578 | 62 | 402 | |
| 6 | 2338 | 1058 | 1649 | 62 | 464 | 30 |
| 7 | 2338 | 1058 | 960 | 62 | 188 | |
| 8 | 2338 | 1058 | 849 | 62 | 291 | |

EXHAUST COMPONENTS

Technical Specification

| | |
|---|---|
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| | | | |
|-------------------------|----|------------|-----------------|
| INLET | | | |
| Opening Position | | Full face | Provided with: |
| Number of openings | | 1 | Opening product |
| Opening, width x height | mm | 2240 x 960 | Duct spigot |
| Pressure drop | Pa | 2 | |

| | | | |
|---------------------------|----|--------------------|------------------------|
| FILTER | | | |
| Filter type | | Panel (Synthetic) | Withdrawal method |
| Test method | | EN 779 / ISO 16890 | Filter frame material |
| EN 779 Class | | M5 | Filter casing material |
| Eurovent Efficiency Class | | NA | Side |
| ISO 16890 Class | | ISO ePM10 50 | Galvanised |
| Design pressure drop | | Mean pd | Galvanised |
| Initial pressure drop | Pa | 71 | |
| Mean pressure drop | Pa | 121 | |
| Final pressure drop | Pa | 171 | |
| Filter length | mm | 48 | |

| | | | |
|----------------|-----|---|---------|
| Filters | | | |
| 592x592 | Qty | 3 | 592x287 |
| 287x287 | Qty | 1 | Qty 4 |

EXTRAS
1 x Pressure gauge wall mounted, Magnehelic 2000

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

| | | | |
|--------------------------|-------------------|----------------|-----------------------------|
| FAN | | | |
| Fan type | | K3G450PB2405 | |
| Fan arrangement | | Fan Wall - 1x2 | Installed motor power |
| Air volume | m ³ /s | 2 x 2.08 | kW |
| External static pressure | Pa | 392 | 5.25 |
| Internal static pressure | Pa | 346 | Motor |
| Static pressure ISP+ESP | Pa | 738 | Run |
| System effect | Pa | 8 | Motor efficiency class |
| Extra static pressure | Pa | 0 | IE4 |
| Total static pressure | Pa | 746 | Motor nominal speed |
| Dynamic pressure | Pa | 54 | rpm |
| Total pressure | Pa | 801 | 2600 |
| Fan speed | rpm | 1981 | Voltage |
| Max fan speed | rpm | 2600 | V |
| Efficiency (total) | % | 68 | Current |
| Fan shaft power | kW | 2.40 | A |
| | | | Abs. motor power incl. F.I. |
| | | | kW |
| | | | 2.40 |
| | | | Control Signal (0-10V) |
| | | | V |
| | | | 6.64 |
| | | | Fan bulkhead material |
| | | | Galvanised |

| | | | | | | | | | |
|----------------------|-----------|----|-----|-----|-----|----|----|----|----|
| (Fan sound data SWL) | Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| Total | Inlet dB | 38 | 58 | 66 | 69 | 73 | 74 | 75 | 66 |
| | Outlet dB | 41 | 60 | 67 | 75 | 86 | 82 | 78 | 71 |

FAN EXTRAS
Inlet cone measuring points

| | | | |
|---------------|--|------|-------------|
| ACCESS | | | |
| Access type | | Door | Access side |
| | | | Left |

EXTRAS
2 x Measuring nipple, 6mm

2 x Fanwall terminal box

Technical Specification

| | |
|---|---|
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| | | | | | |
|----------------------|--------|-----------|-----------------------|----|-----|
| HEAT WHEEL | | | | | |
| Rotor situation | | Build-in | | | |
| Winter conditions | | | | | |
| Exhaust air on | °C/%RH | 22.0 / 40 | Exhaust pressure drop | Pa | 197 |
| Exhaust air off | °C/%RH | 8.2 / 92 | | | |
| Summer conditions | | | | | |
| Exhaust air on | °C/%RH | 27.0 / 50 | Exhaust pressure drop | Pa | 197 |
| Exhaust air off | °C/%RH | 34.9 / 32 | | | |
| Recirculation Damper | | None | | | |
| Damper blade | | - | | | |
| Damper material | | - | | | |
| Damper code | | - | | | |
| Damper qty. | | - | | | |
| Damper torque | Nm | - | | | |

SUPPLY COMPONENTS

| | | | | | |
|--|----|------------|---|----|-------------------------------------|
| DOUBLE MIXING BOX | | | | | |
| Opening Position | | Full face | Provided with: | | |
| Number of exhaust openings | | 1 | Opening product | | None |
| Exhaust opening, w x h | mm | 2240 x 960 | Damper | | External, Opposed blades, Aluminium |
| Pressure drop | Pa | 3 | Number of Dampers | | 1 |
| Actuator type | | External | Damper Code | | DMP2138x0858-200-162-5-D1Y2-0 |
| Actuator Side | | Left | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 10 |
| 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 | 2240 x 480 | Number of Dampers | | 1 |
| Pressure drop | Pa | 28 | Damper Code | | DMP1978x0318-110-162-2-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 | 2240 x 960 | Damper Code | | DMP2138x0858-200-162-5-D1Y2-0 |
| Pressure drop | Pa | 3 | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 10 |
| 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 | | DMP2138x0858-200-162-5-D1Y2-0 |
| | | | Number of Drive shafts (Total) x Torque for one shaft | Nm | 1 x 10 |
| EXTRAS (SUPPLY) | | | | | |
| 1 x Coupling rod for dampers | | | | | |

Technical Specification

| | |
|---|---|
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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 | 65 | | | |
| Mean pressure drop | Pa | 90 | | | |
| Final pressure drop | Pa | 115 | | | |
| Filter length | mm | 48 | | | |
| Filters | | | | | |
| 592x592 | Qty | 3 | 592x287 | Qty | 4 |
| 287x287 | Qty | 1 | | | |

EXTRAS

1 x Pressure gauge wall mounted, Magnehelic 2000

| EMPTY SECTION | | |
|----------------------|----|---|
| Pressure drop | Pa | 0 |

| HEAT WHEEL | | | | | |
|--|--------|--------------|---------------------------------|----|--------------------------------------|
| Rotor Model EA1875x1875-1745V-018-2D000-7AP0-A | | | | | |
| Rotor type | | Condensation | Rotor frame material | | Galvanised |
| Rotor material | | Aluminium | Rotor purging sector | | Excluded |
| Rotor situation | | Build-in | Delivery requirement | | Single section |
| Component mountings | | Galvanised | Rotor Motor Type | | Gear Motor-Ready to connect Micromax |
| Winter conditions | | | | | |
| Supply air on | °C/%RH | 2.5 / 62 | Supply pressure drop | Pa | 197 |
| Supply air off | °C/%RH | 16.7 / 25 | Supply latent efficiency | % | 5 |
| Supply dry efficiency | % | 73 | Supply latent effectiveness | % | 4 |
| Supply dry effectiveness | % | 76 | | | |
| Total duty | kW | 74.37 | | | |
| Summer conditions | | | | | |
| Supply air on | °C/%RH | 37.5 / 30 | Supply pressure drop | Pa | 197 |
| Supply air off | °C/%RH | 29.6 / 46 | Supply latent efficiency | % | 0 |
| Supply dry efficiency | % | 75 | Supply latent effectiveness | % | 0 |
| Supply dry effectiveness | % | 76 | Dry efficiency at equal airflow | % | 73 |
| Total duty | kW | 40.79 | | | |

EXTRAS

1 x Syphone

Technical Specification

| | |
|---|---|
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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 | 84 | |
| Mean pressure drop | Pa | 134 | |
| Final pressure drop | Pa | 184 | |
| Filter length | mm | 500 | |

Filters

| | | | | | |
|---------|-----|---|---------|-----|---|
| 592x592 | Qty | 3 | 287x592 | Qty | 1 |
| 592x287 | Qty | 3 | 287x287 | Qty | 1 |

ACCESS

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

EXTRAS

1 x Pressure gauge wall mounted, Magnehelic 2000

CHILLED WATER COIL

| | | | | | |
|------------------------------|-------------------------------------|-----------------|-------------------------|-----------------|---------------------|
| Coil Code | P25-10AR-5R-34T-2013A-2.0PA-40NC-Cu | Number of coils | 1 | | |
| Air volume | m ³ /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 | 31.46 |
| Air off wb/RH | °C/% | 12.4/94 | Fluid pressure drop | kPa | 38 |
| Sensible duty | kW | 70.00 | Air pressure drop elim. | Pa | 14 |
| Air pressure drop coil (Dry) | Pa | 96 | | | |
| 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 | 95.82 | Xin/Yin/Xout/Yout | mm/mm/ mm/mm | 177/71/89/89 |

EXTRAS

1 x Syphone

Technical Specification

| | |
|---|---|
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| HOT WATER COIL | | | Number of coils | | |
|------------------------|-------------------------------------|-----------------|---------------------|------------------|--------------|
| Coil Code | P25-10AR-2R-34T-2030A-2.0PA-32NC-Cu | 0.36/AI 0.10-2" | | | 1 |
| Air volume | m ³ /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 | 31 | Fluid content | l | 14.37 |
| | | | Fluid pressure drop | kPa | 17 |
| Tubes/fins/connections | Cu / AI / 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/ mm/mm | 166/63/81/81 |
| Coil Weight | kg | 51.85 | | | |

EXTRAS
1 x Syphone

| STEAM HUMIDIFIER | | | Humidifier supplier | | |
|--------------------------|-------------------|----------|------------------------|---------------------|-----------------|
| Air volume | m ³ /s | 4.17 | Number of steam lances | 2 | |
| Moisture addition | kg/h | 70 | Steam lance length | mm | 1800 |
| Air on db | °C | 25.0 | | | |
| 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

Technical Specification

| | |
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FAN

| | | | | | | | | | |
|--------------------------|-------------------|----------------|--|-----------------------------|-----|------------|--|--|--|
| Fan type | | K3G450PB2405 | | | | | | | |
| Fan arrangement | | Fan Wall - 1x2 | | Installed motor power | kW | 5.25 | | | |
| Air volume | m ³ /s | 2 x 2.08 | | Motor | | Run | | | |
| External static pressure | Pa | 392 | | Motor efficiency class | | IE4 | | | |
| Internal static pressure | Pa | 597 | | Motor nominal speed | rpm | 2600 | | | |
| Static pressure ISP+ESP | Pa | 989 | | Voltage | V | 380-480 | | | |
| System effect | Pa | 8 | | Current | A | 8.0 | | | |
| Extra static pressure | Pa | 0 | | Abs. motor power incl. F.I. | kW | 3.13 | | | |
| Total static pressure | Pa | 997 | | Control Signal (0-10V) | V | 7.34 | | | |
| Dynamic pressure | Pa | 54 | | Fan bulkhead material | | Galvanised | | | |
| Total pressure | Pa | 1052 | | | | | | | |
| Fan speed | rpm | 2168 | | | | | | | |
| Max fan speed | rpm | 2600 | | | | | | | |
| Efficiency (total) | % | 69 | | | | | | | |
| Fan shaft power | kW | 3.13 | | | | | | | |

| | | | | | | | | | |
|----------------------|-----------|----|-----|-----|-----|----|----|----|----|
| (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

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 | 2240 x 960 | | |
| Pressure drop | Pa | 2 | | |