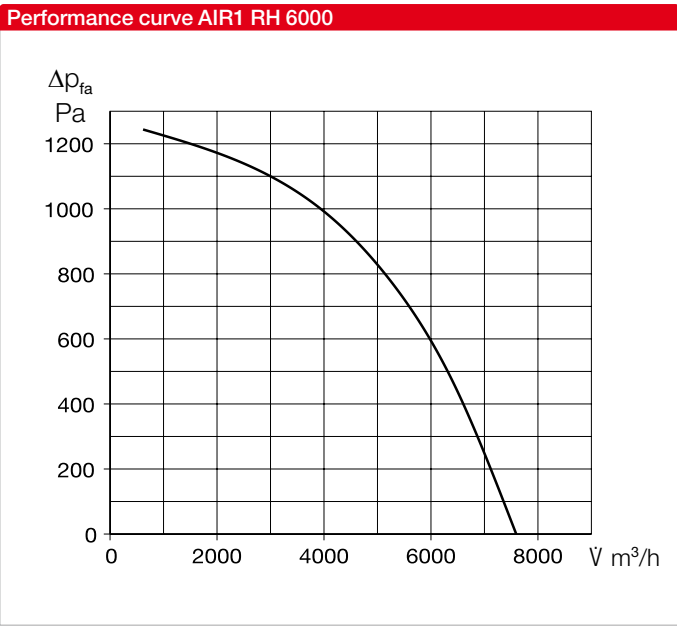




Unit types

|                | AIR1 RH 6000       | AIR1 RH 6000/SO      |
|----------------|--------------------|----------------------|
| Ref. no.       | 04347              | 04356                |
| Heat exchanger | Condensation rotor | Adsorption rotor (3) |

Technical data

| Mechanical data                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Area of application                         | Inside/outside                            |
| Installation position                       | Standing                                  |
| Maintenance access                          | Side, both sides                          |
| Min. air volume                             | 845 m³/h                                  |
| Max. air volume ERP                         | 6,100 m³/h (1) (5,950 m³/h (4))           |
| Max. air volume (free blowing)              | 7,600 m³/h                                |
| Weight, unit operational                    | 775 kg (787 kg (4))                       |
| Delivery unit                               | 2-part                                    |
| Unit segments                               | 2                                         |
| Housing class (DIN 1886)                    | T2 / TB2 / D2                             |
| Filter Outside air                          | ISO ePM, 55% (F7) (2)                     |
| Filter Extract air                          | ISO ePM10 50% (M5) (2)                    |
| Media temperature (air)                     | -20 to +40 °C                             |
| Ambient temperature (place of installation) | -20 to +50 °C                             |
| Protection class                            | IP31                                      |
| Electrical data                             |                                           |
| Central building control system             | BACnet, Modbus TCP/IP                     |
| Voltage / Frequency                         | 400 V 3N ~, 50 Hz                         |
| Max. output Fans                            | 2 x 2,400 W                               |
| Nominal current                             | 7.3 / 7.3 / 8.8 A (7.3 / 7.3 / 9.3 A (4)) |
| Connection (wiring diagram no.)             | 1321                                      |

(1) = at 400 Pa external pressure loss ERP-compliant
(2) = other filter classes see optional accessories
(3) = with increased humidity recovery
(4) = AIR RH 6000/SO

Sound data AIR1 RH 6000

| Sound power level LWA dB(A) at 400 Pa external pressure       |            |            |            |
|---------------------------------------------------------------|------------|------------|------------|
|                                                               | 1,900 m³/h | 4,400 m³/h | 6,100 m³/h |
| Supply air (LWA)                                              | 77         | 80         | 87         |
| Extract air (LWA)                                             | 63         | 64         | 70         |
| Outside air (LWA)                                             | 67         | 61         | 66         |
| Exhaust air (LWA)                                             | 76         | 79         | 85         |
| Sound pressure level LPA dB(A) of sound radiated from housing |            |            |            |
|                                                               | 1,900 m³/h | 4,400 m³/h | 6,100 m³/h |
| Housing rad. 1 m                                              | 46         | 47         | 53         |
| Housing rad. 3 m                                              | 37         | 37         | 44         |
| Housing rad. 5 m                                              | 32         | 33         | 39         |

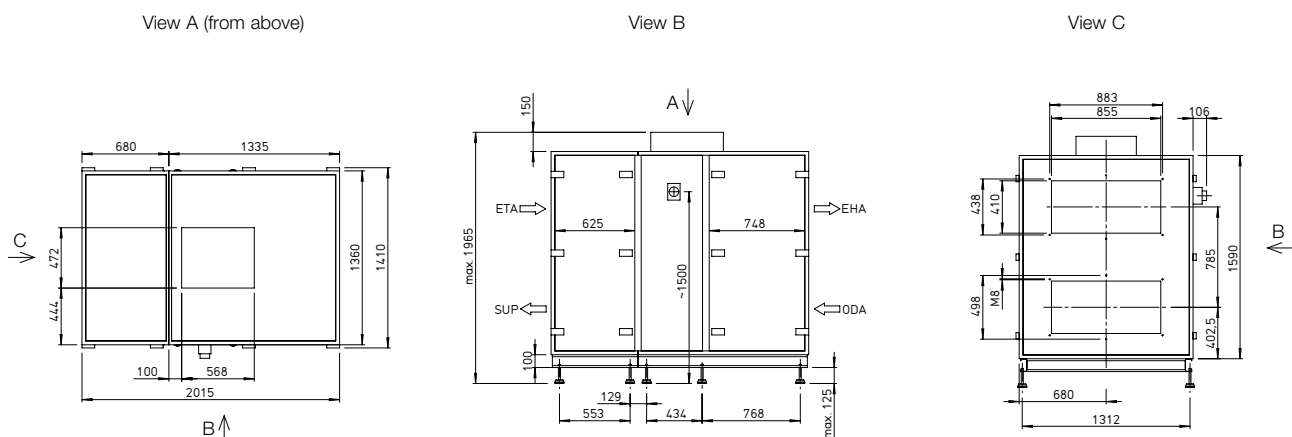
The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

Sound data AIR1 RH 6000/SO

| Sound power level LWA dB(A) at 400 Pa external pressure       |            |            |            |
|---------------------------------------------------------------|------------|------------|------------|
|                                                               | 1,900 m³/h | 4,400 m³/h | 5,950 m³/h |
| Supply air (LWA)                                              | 77         | 81         | 86         |
| Extract air (LWA)                                             | 64         | 64         | 70         |
| Outside air (LWA)                                             | 67         | 61         | 65         |
| Exhaust air (LWA)                                             | 76         | 79         | 85         |
| Sound pressure level LPA dB(A) of sound radiated from housing |            |            |            |
|                                                               | 1,900 m³/h | 4,400 m³/h | 5,950 m³/h |
| Housing rad. 1 m                                              | 47         | 47         | 53         |
| Housing rad. 3 m                                              | 37         | 38         | 43         |
| Housing rad. 5 m                                              | 33         | 33         | 39         |

The sound power at the connectors is calculated for the simultaneous operation of both fans. The sound pressure level is determined for the simultaneous operation of both fans at distances of 1.3 and 5 m.

## Dimensions AIR1 RH 6000



Dimensions in mm

ODA: Outside air

EHA: Exhaust air

ETA: Extract air

SUP: Supply air

## Accessories

### Heating and cooling registers

#### Pre-heater

|                  |                      |                |         |
|------------------|----------------------|----------------|---------|
| AIR1-EVH RH 6000 | Electrical, external | Ref. no. 01792 | Page 93 |
|------------------|----------------------|----------------|---------|

#### Auxiliary heater

|                    |                      |                |         |
|--------------------|----------------------|----------------|---------|
| AIR1-ENH RH 6000   | Electrical, external | Ref. no. 03625 | Page 95 |
| AIR1-NH WW RH 6000 | Hot water, external  | Ref. no. 03826 | Page 97 |

#### Hydraulic unit for hot water heater register

|                           |  |                |         |
|---------------------------|--|----------------|---------|
| WHSB HE 24 V (0 – 10 V) M |  | Ref. no. 06310 | Page 96 |
|---------------------------|--|----------------|---------|

#### Cooling register

|                                     |                       |                |          |
|-------------------------------------|-----------------------|----------------|----------|
| AIR1-KR KW RH 6000 L <sup>(1)</sup> | Cold water, external  | Ref. no. 03976 | Page 102 |
| AIR1-KR KW RH 6000 R <sup>(1)</sup> | Cold water, external  | Ref. no. 04288 | Page 102 |
| AIR1-CO DX RH 6000 L <sup>(1)</sup> | Change-over, external | Ref. no. 40394 | Page 108 |
| AIR1-CO DX RH 6000 R <sup>(1)</sup> | Change-over, external | Ref. no. 40403 | Page 108 |
| AIR1-SM DX <sup>(2)</sup>           | Control module        | Ref. no. 40408 | Page 110 |

#### Cooling register accessories

|                                                       |  |                |          |
|-------------------------------------------------------|--|----------------|----------|
| AIR1-KS B                                             |  | Ref. no. 07169 | Page 114 |
| for use with floor-mounted units and cooling register |  |                |          |

### Air routing

#### Multi-leaf damper

|                               |  |                |          |
|-------------------------------|--|----------------|----------|
| AIR1-JVK XH 5500/RH 5000-6000 |  | Ref. no. 06010 | Page 111 |
|-------------------------------|--|----------------|----------|

#### Recirculation module

|                  |  |                |          |
|------------------|--|----------------|----------|
| AIR1-ULM RH 6000 |  | Ref. no. 06160 | Page 110 |
|------------------|--|----------------|----------|

#### Flexible connector

|               |  |                |          |
|---------------|--|----------------|----------|
| AIR1-VS 85/41 |  | Ref. no. 04375 | Page 113 |
|---------------|--|----------------|----------|

#### Potential equalisation cable

|        |  |                |          |
|--------|--|----------------|----------|
| PAK M8 |  | Ref. no. 40812 | Page 113 |
|--------|--|----------------|----------|

#### Adapter square-round

|                                       |  |                |          |
|---------------------------------------|--|----------------|----------|
| AIR1-ÜS XH 5500/RH 5000-6000 (DN 630) |  | Ref. no. 04370 | Page 112 |
|---------------------------------------|--|----------------|----------|

### Air filters

#### Spare air filter and other filter classes

|                                    |  |                |          |
|------------------------------------|--|----------------|----------|
| ELF-AIR1 RH 6000/ePM10 50%/48 (M5) |  | Ref. no. 02220 | Page 123 |
| ELF-AIR1 RH 6000/ePM10 50%/96 (M5) |  | Ref. no. 02215 | Page 123 |
| ELF-AIR1 RH 6000/ePM1 55%/96 (F7)  |  | Ref. no. 02240 | Page 123 |
| ELF-AIR1 RH 6000/ePM1 80%/96 (F9)  |  | Ref. no. 02451 | Page 123 |

The use of original spare air filters is mandatory to guarantee the specified technical data and air volumes.

(1) = When looking at the cooling register from the air flow direction, the service side is on the right for the R version and on the left for the L version.

(2) = Necessary accessory in connection with an AIR1-CO DX change-over register for connecting an AIR1 ventilation unit of the XC, XH and RH series to the control of an on-site cooling system.

### External installation

#### Cover for external installation

|                                       |  |                |          |
|---------------------------------------|--|----------------|----------|
| AIR1-AAD RH 6000                      |  | Ref. no. 06434 | Page 117 |
| Weather protection cover for the unit |  |                |          |

|                                                                  |  |                |          |
|------------------------------------------------------------------|--|----------------|----------|
| AIR1-AAD RH 6000/ULM                                             |  | Ref. no. 06440 | Page 117 |
| Weather protection cover for the unit incl. recirculation module |  |                |          |

|                                                                               |  |                |          |
|-------------------------------------------------------------------------------|--|----------------|----------|
| AIR1-AAD KR KW + DX RH 6000                                                   |  | Ref. no. 06471 | Page 118 |
| Weather protection cover for cooling register cold water or direct evaporator |  |                |          |

|                                          |  |                |          |
|------------------------------------------|--|----------------|----------|
| AIR1-AAD NH EL + WW RH 6000              |  | Ref. no. 06446 | Page 118 |
| Weather protection cover for aux. heater |  |                |          |

|                                                                               |  |                |          |
|-------------------------------------------------------------------------------|--|----------------|----------|
| AIR1-AAD KR KW + DX RH 6000                                                   |  | Ref. no. 06471 | Page 118 |
| Weather protection cover for cooling register cold water or direct evaporator |  |                |          |

|                                          |  |                |          |
|------------------------------------------|--|----------------|----------|
| AIR1-AAD NH EL + WW RH 6000              |  | Ref. no. 06446 | Page 118 |
| Weather protection cover for aux. heater |  |                |          |

|                     |  |                |          |
|---------------------|--|----------------|----------|
| AIR1-AAHK           |  | Ref. no. 07064 | Page 114 |
| Terminal box heater |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHA XH 5500/RH 5000-6000 |  | Ref. no. 06496 | Page 115 |
| Intake hood outside air        |  |                |          |

|                                |  |                |          |
|--------------------------------|--|----------------|----------|
| AIR1-AAHF XH 5500/RH 5000-6000 |  | Ref. no. 06648 | Page 115 |
| Discharge hood exhaust air     |  |                |          |