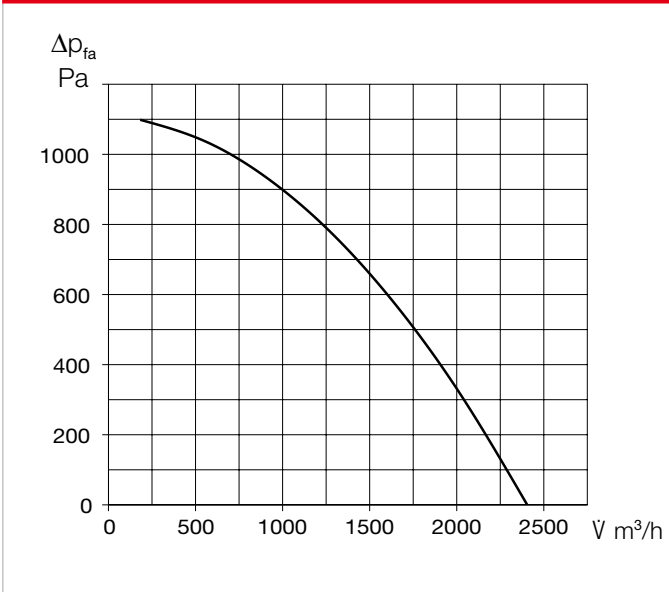


AIR1 XVP 1800



Performance curve AIR1 XVP 1800



Unit type

| | |
|----------------|----------------------|
| | AIR1 XVP 1800 |
| Ref. no. | 40614 |
| Heat exchanger | Cross-counterflow |

Technical data

| Mechanical data | |
|------------------------------------|--|
| Area of application | Inside |
| Installation position | standing |
| Maintenance access | both sides |
| Min. air volume | 550 m ³ /h |
| Max. air volume ERP | 1,560 m ³ /h ⁽¹⁾ |
| Max. air volume (free blowing) | 2,400 m ³ /h |
| Weight, unit operational | 357 kg |
| Housing class (DIN 1886) | T2 / TB2 / D2 |
| Filter Outside air | ISO ePM ₁ , 55% (F7) ⁽²⁾ |
| Filter Extract air | ISO ePM ₁₀ 50% (M5) ⁽²⁾ |
| Media temperature (air) | -20 to +50 °C |
| Ambient temperature (operation) | 0 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 780 W |
| Max. output Elec. pre-/post-heater | 6,510 / 6,510 W ⁽³⁾ |
| Nominal current | |
| – Ventilation unit | 3.4 / 3.4 / 0.3 A |
| – Electrical pre-heater | 9.4 / 9.4 / 9.4 A ⁽³⁾ |
| – Electrical auxiliary heater | 9.4 / 9.4 / 9.4 A ⁽³⁾ |
| – max. total | 22.2 / 22.2 / 19.1 A |
| Connection (wiring diagram no.) | 1508 |

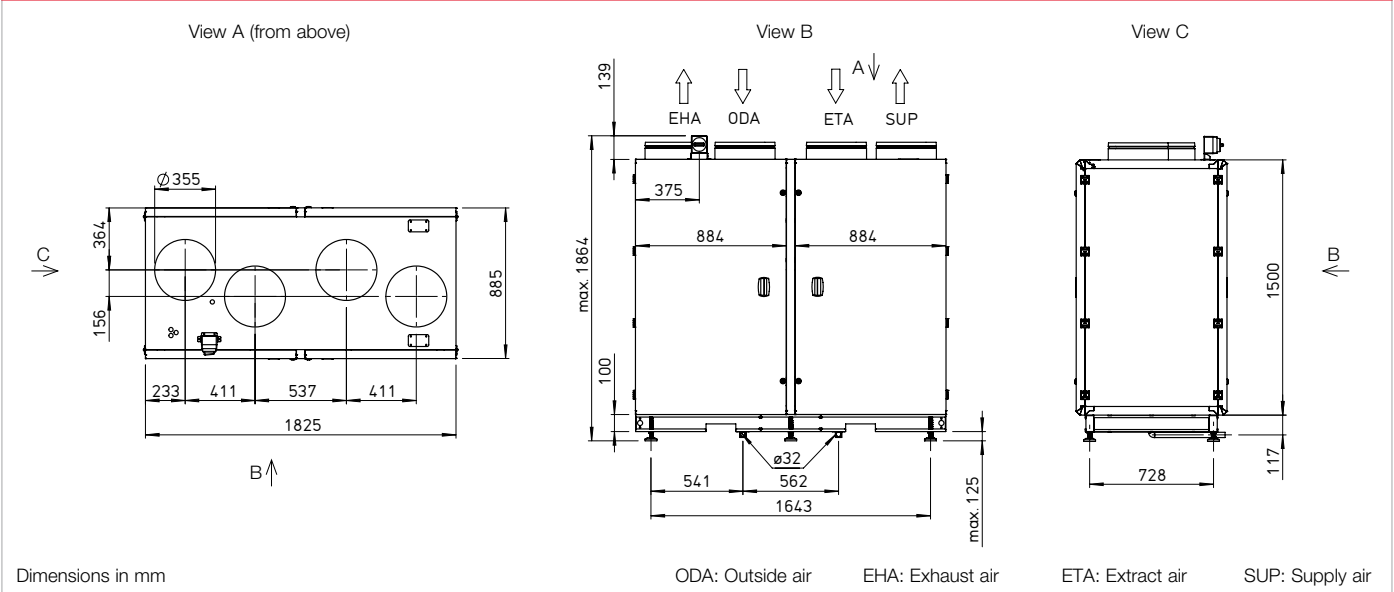
(1) = at 200 Pa external pressure loss ERP-compliant
(2) = Other filter classes see optional accessories
(3) = Optional accessory

Sound data

| Sound power level L _{WA} dB(A) at 250 Pa external pressure | | | |
|---|-----------------------|-------------------------|-------------------------|
| | 650 m ³ /h | 1,200 m ³ /h | 1,560 m ³ /h |
| Supply air (L _{WA}) | 64 | 79 | 87 |
| Extract air (L _{WA}) | 50 | 64 | 68 |
| Outside air (L _{WA}) | 56 | 62 | 69 |
| Exhaust air (L _{WA}) | 59 | 73 | 80 |
| Sound pressure level L _{pA} dB(A) of sound radiated from housing | | | |
| | 650 m ³ /h | 1,200 m ³ /h | 1,560 m ³ /h |
| Housing rad. 1 m | 41 | 54 | 62 |
| Housing rad. 3 m | 32 | 45 | 52 |
| Housing rad. 5 m | 27 | 40 | 48 |

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 XVP 1800



Dimensions in mm

Accessories

Heating and cooling registers

Pre-heater

| | | |
|--|----------------|---------|
| AIR1-EVH XVP 1800 Electrical, internal | Ref. no. 40489 | Page 52 |
|--|----------------|---------|

Auxiliary heater

| | | |
|--|----------------|---------|
| AIR1-ENH XVP 1800 Electrical, internal | Ref. no. 40490 | Page 52 |
|--|----------------|---------|

| | | |
|---|----------------|---------|
| AIR1-NH WW XVP 1800 Hot water, internal | Ref. no. 40491 | Page 53 |
|---|----------------|---------|

Hydraulic unit for hot water heater register

| | | |
|--------------------------------|----------------|---------|
| WHSH HE 24 V (0 – 10 V) | Ref. no. 08318 | Page 53 |
|--------------------------------|----------------|---------|

Cooling register

| | | |
|--|----------------|---------|
| AIR1-KR KW XVP 1800 L (1) Cold water, external | Ref. no. 40492 | Page 54 |
|--|----------------|---------|

| | | |
|--|----------------|---------|
| AIR1-KR KW XVP 1800 R (1) Cold water, external | Ref. no. 40493 | Page 54 |
|--|----------------|---------|

| | | |
|---|----------------|---------|
| AIR1-CO DX XVP 1800 L (1) Change-over, external | Ref. no. 40494 | Page 55 |
|---|----------------|---------|

| | | |
|---|----------------|---------|
| AIR1-CO DX XVP 1800 R (1) Change-over, external | Ref. no. 40495 | Page 55 |
|---|----------------|---------|

Cooling register accessories

| | | |
|---|----------------|---------|
| AIR1-KS D for use with ceiling mounted units and cooling register | Ref. no. 07170 | Page 57 |
|---|----------------|---------|

Air routing

Motorised duct shutter

| | | |
|---------------------|----------------|---------|
| RVMD 355/24V | Ref. no. 40248 | Page 56 |
|---------------------|----------------|---------|

Condensate drainage

Ball siphon

| | | |
|---|----------------|---------|
| AIR1-KS B for use with floor-mounted units and cooling register | Ref. no. 07169 | Page 57 |
|---|----------------|---------|

Controls

Controllers

| | | |
|------------------------|----------------|---------|
| AIR1-BE ECO | Ref. no. 06186 | Page 58 |
| AIR1-BE TOUCH 2 | Ref. no. 40751 | Page 58 |

Controller connection cable

| | | |
|--------------------------|----------------|---------|
| AIR1-SL 4/10 10 m | Ref. no. 07073 | Page 58 |
| AIR1-SL 4/20 20 m | Ref. no. 07121 | Page 58 |

Sensors

| | | |
|---|----------------|---------|
| AIR1/KWL-VOC 0-10V Mixed gas sensor | Ref. no. 20250 | Page 58 |
| AIR1/KWL-CO2 0-10V Carbon dioxide sensor | Ref. no. 20251 | Page 58 |
| AIR1/KWL-FTF 0-10V Humidity-temperature sensor | Ref. no. 20252 | Page 58 |
| AIR1-CO2 K Carbon dioxide sensor duct | Ref. no. 07124 | Page 58 |

Signal converter for sensors

| | | |
|----------------|----------------|---------|
| AIR1-SK | Ref. no. 06019 | Page 59 |
|----------------|----------------|---------|

Extension kit for constant pressure control

| | | |
|-----------------|----------------|---------|
| AIR1-CAP | Ref. no. 06756 | Page 58 |
|-----------------|----------------|---------|

Air filters

Spare air filter and other filter classes

| | | |
|--|----------------|---------|
| ELF-AIR1 XVP 1800 ePM10 50%/48 (M5) | Ref. no. 40523 | Page 59 |
| ELF-AIR1 XVP 1800 ePM10 50%/96 (M5) | Ref. no. 40522 | Page 59 |
| ELF-AIR1 XVP 1800 ePM1 55%/96 (F7) | Ref. no. 40524 | Page 59 |
| ELF-AIR1 XVP 1800 ePM1 80%/96 (F9) | Ref. no. 40525 | Page 59 |

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.