

The Exhaust Air with the products of Silvento,

18 · 19

Silvento



› No disturbing noise: low noise level

Residential and traffic areas are moving ever closer together. However, we only have a good feeling when we are within 'silent walls'. That is why the motors of the Silvento have been optimized, the geometry of the impellers supplied with air re-designed and improved based on experimental testing. This has resulted in one of the most silent fans in the world. All Silvento items convince by way of their minimal operating noise which is hardly audible, since the noise level is just 24 dB(A) at 30 m³/h (basic ventilation) and 35 dB(A) at 60 m³/h (regulated ventilation).



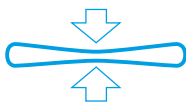
› For the environment: minimal power consumption with maximum energy efficiency – in line with the EnEVne der EnEV

The Silvento counteracts rising energy costs and increasing contamination of the environment. The new fan generation excels on account of the development of even more efficient drive units with high efficiency and extremely low power consumption. For 3 flow levels, power consumption amounts to just: 5.2/10.9 W at 30/60 m³/h flow volume – maximum pressure difference 210 Pa.



› For Technology and Comfort: regulation of humidity and temperature

Needs-driven regulation of the exhaust air fans has been equipped with a humidity-temperature sensor. This innovative regulation can adjust the exhaust air flow even better and more exactly to the conditions in the living room area, and provides effective protection against moisture damage and mold formation. The automatic seasonal switch shifts the fan automatically to the lowest level in summer and returns it to respective humidity control in the transition period and for winter.

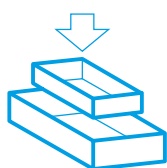


› Elegant – inconspicuous design

The design of the Silvento series has been deliberately kept simple in order to draw as little attention to units as possible in all rooms. And yet it still radiates stylish elegance. Air flow is still from the rear so that no dirt sediment can be seen. The front panel is ultra-flat and the dimensions show how compact the fan really is: surface-mounting with 260x260x108 mm (WxHxD) and flush mounting panel with 260 x 260 x 23 mm and flush-mounted housing with 235 x 235 x 92 mm.

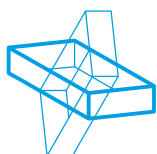
System

AB 30/60, RA 15-60, ALD-R 160



> LUNOS Long-term compatibility

Silvento flush-mounted fans are 100 % downward compatible with the fan inserts of the old LUNOS generation. The Silvento clamp fan can be inserted easily into the existing old flush-mounted housing with and without fire protection and this enables easy adjustment to state of the art technology.



> The Silvento housing can be applied everywhere

It can be installed in any position you require.





Exhaust

Silvento Series

20 · 21

Overview

> Silvento: Technical Data

Silvento Type V ¹⁾ or KL ²⁾	30/60	30/60ZII	30/60BZII	60ZII	60BZII	100ZII	30-60FK
Flow rate [m ³ /h]	30/60/100	30/60	30/60	60	60	100	30/40/50/60
Power consumption [W]	5,2/10,9/36,5	5,5/11,4	6/12,2	11,8	12,2	36,2	5,3/7,2/8,9/10,9
Noise pressure level [dB(A)]	24/35/44	24/35	24/35	35	35	44	24/27/32/
Time lag [min.]		6/15 ³⁾	6/15 ³⁾	6/15 ³⁾	6/15 ³⁾	6/15 ³⁾	
Interval [h]		4	4	4	4	4	
Inverse operation		yes	yes	yes	yes	yes	
Motion sensor			yes		yes		
Humidity Control level [% r.F.]							50-70

1) Silvento V are fan sets which require a flush-mounted or surface-mounted housing

2) Silvento KL are complete single tube fans clamped into pre-wall constructions

Silvento KL single tube fans fit into the flush-mounted housing of series LUNOS Skalar.

3) 1)The DIN 18012 – 3 prescribes a time lag of at least 15 minutes at 60 m³/h after exiting the room.



IP X5

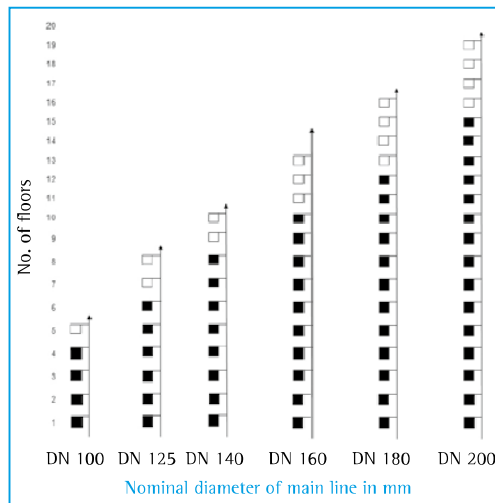
Air Fans

Overview: Technical Data

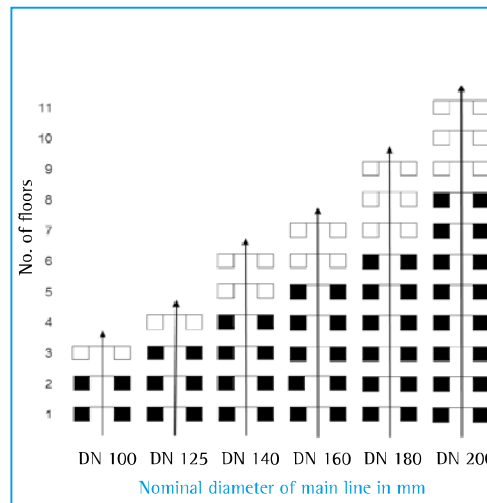
Main line

› Design of the main line diameter

Installation of one unit per level with simultaneous operation of all units



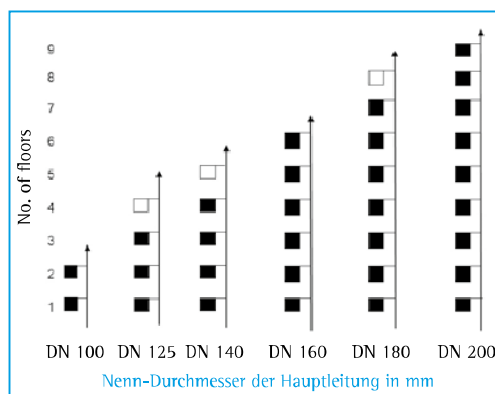
Installation of one unit per level with simultaneous operation of all units



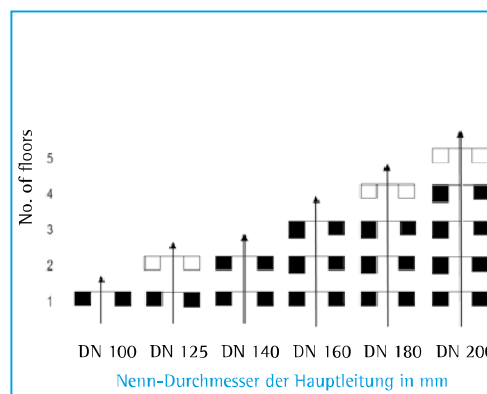
For a planned flow rate of 60 m³/h

- Design with maximum 9 m/s flow speed
- Design with maximum pressing

Installation of two units per level with simultaneous operation of all units



Installation of two units per level with simultaneous operation of all units



For a planned flow rate of 100 m³/h

- Design with maximum 9 m/s flow speed
- Design with maximum pressing

Exhaust

Silvento with surface-mounted housing 3/AP

22 · 23

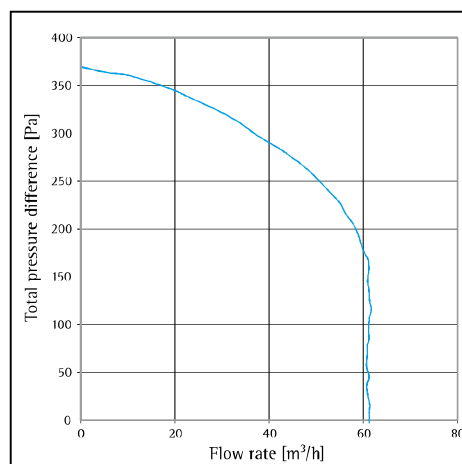
3/AP

› Silvento 3/AP

- Housing for surface-mounted assembly of UV-resistant plastic.
Order No. 039 144
- Suitable for wall and ceiling installation
- With conical exhaust vents / DN 75 to DIN 80) and air-tight non-return flap
- Installation position of rear, axial exhaust vent: top left, top right, bottom left or bottom right, adjustment of non-return flap to installation position via simple repositioning.
- All fan inserts of the Silvento series can be used
- Static pressure available: 221 Pa
- Including assembly accessories and sound absorbers



Silvento surface-mounted housing 3/AP



Pressure Flow rate characteristic curve AP, calculated by TÜV SÜD

Air Fans

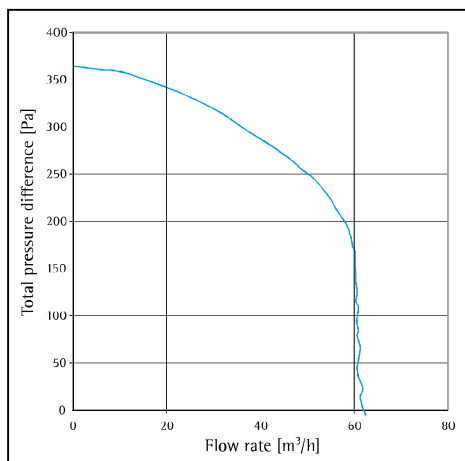
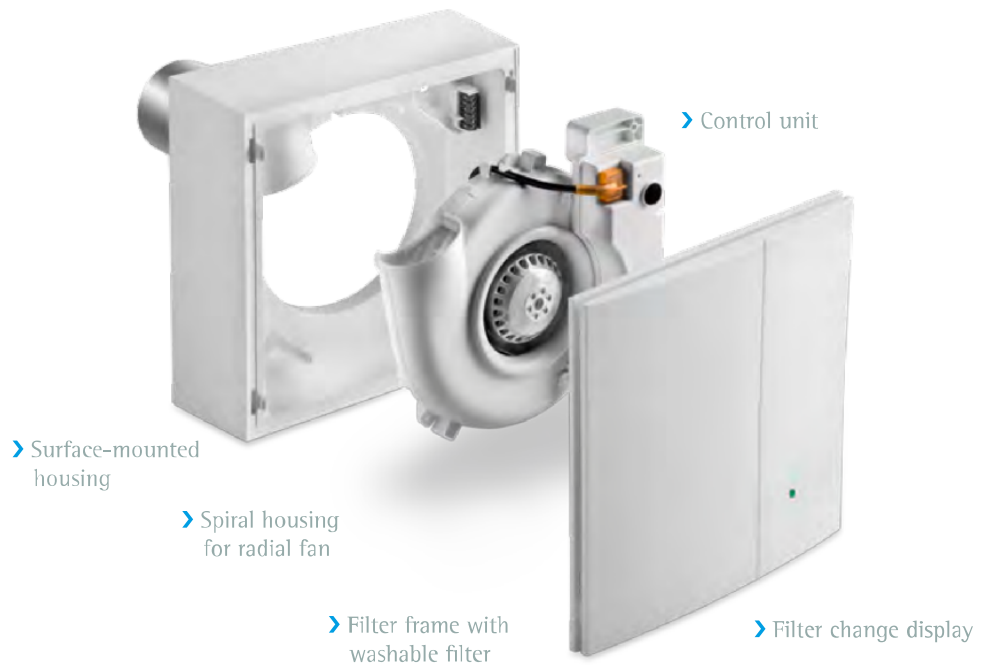
– with fire prevention pursuant to K90-18017 3/AP-B

3/AP-B

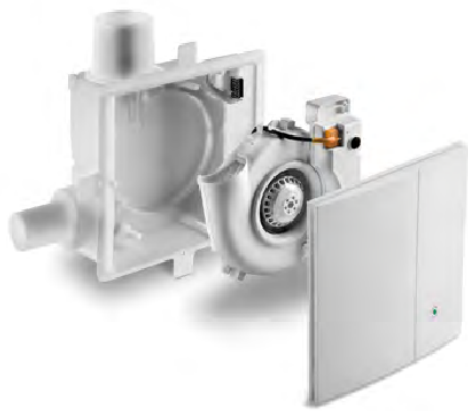
› Silvento with fire protection 3/AP-B

- Housing for surface-mounted assembly of UV-resistant plastic.
Order No. 039 152
- With shut-off device, suitable for wall and ceiling installation, connection diameter DN 80 with airtight non-return flap
- Metallic axial exhaust vents
- Installation position of shut-off devices related to the surface-mounted housing: top left, top right, bottom left or bottom right.
- All fan inserts of the Silvento series can be used
- Static pressure available: 216 Pa
- Including assembly accessories and sound absorbers

› Rear side exhaust vent with airtight non-return valve for kitchen fire prevention



Pressure Flow rate characteristic curve
AP-B, calculated by TÜV SÜD



Exhaust

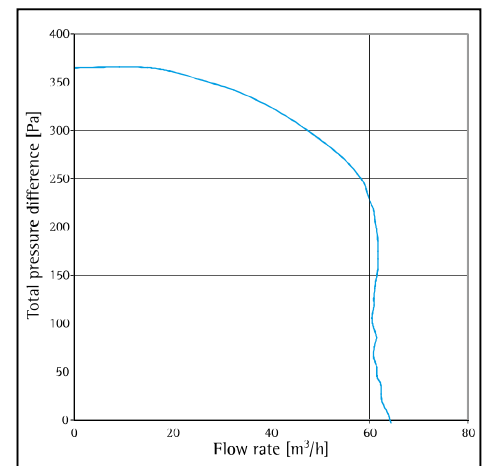
Silvento with flush-mounted housing 3/UP-R

24 · 25

3/UP-Radial

› Silvento 3/UP-R

- Plastic flush-mounted housing with radial exhaust vents for installation in shaft and drywall (without requirements for duration of fire resistance) and in suspended ceilings
Order No. 039-128
- With conical exhaust vents (DN 75 to DIN 80) and airtight non-return flap
- Installation position of flush-mounted housing with exhaust vents possible to left, top or right, adjustment of non-return flap to installation position via simple repositioning.
- All fan inserts of the Silvento series can be used
- Static pressure available: 233 Pa
- With plaster protection cap to protect against contamination during shell construction phase
- Installation depth 90.5 mm including assembly accessories and sound absorbers



Pressure Flow rate characteristic curve UP-R, calculated by TÜV SÜD

› Option – Two-room fan



- Convertible to two-room fan (Two room set 3/S2, Order No. 039 209)
- For plug-in assembly of the two-room vent (DN 50/51/80) the opening prefabricated by break point is to be prepared at the flush-mounted housing, depending on the installation position of the two room connection bottom, left, right or top
- Distribution of flow rate:
 1. Room $\frac{2}{3}$, 2. Room $\frac{1}{3}$

Air Fans

– with fire protection pursuant to K90-18017 3/UP-BR

3/UP Fire Prevention Radial

› Silvento with Fire Prevention 3/UP-BR

- Plastic flush-mounted housing with fire prevention casing for installation in shafts with requirements of duration of fire resistance, vent radial
Order No. 039-160

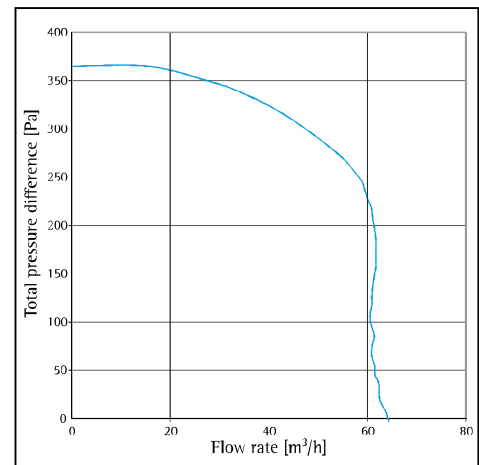


- With shut-off device K90 – 18017, suitable for installation in eat-in kitchens, connection diameter DN 80, with airtight non-return flap

- Metallic, radial exhaust vents

- Installation position of flush-mounted housing with exhaust vents possible to left, top or right, adjustment of non-return flap to installation position via simply turning the insert

- All fan inserts of the Silvento series can be used
- Static pressure available: 233 Pa
- With plaster protection cap to protect against contamination during shell construction phase
- Installation depth 102.5 mm including assembly accessories and sound absorbers



Pressure Flow rate characteristic curve UP-BR, calculated by TÜV SÜD

› Option – Two-room fan



- Convertible to two-room fan Fire prevention casing (3/UP-2BR, Order No. 039 187) and Fire prevention set (8/B2, Order No. 039 543)
- Depending on the installation position of the two room connection bottom, left, right or top
- Distribution of flow rate:
1. Room $\frac{2}{3}$, 2. Room $\frac{1}{3}$



Exhaust

Silvento with flush-mounted housing 3/UP-A

26 · 27

3/UP-Axial

› Silvento 3/UP-A

- Plastic flush-mounted housing with radial exhaust vents for installation in shaft and drywall (without requirements for duration of fire resistance) and in suspended ceilings
[Order No. 039 136](#)

- With conical exhaust vents (DN 75 to DIN 80) and air-tight non-return flap

Installation position of

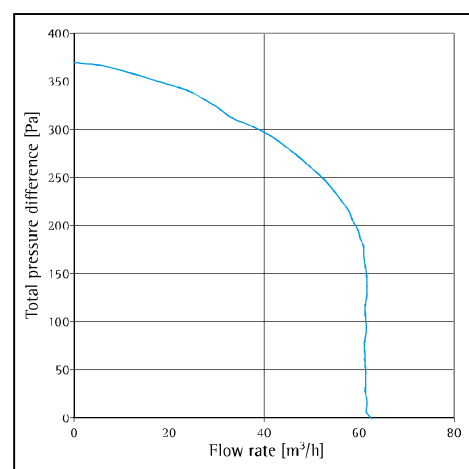
- flush-mounted housing with exhaust vents possible to left, top or right, adjustment of non-return flap to installation position via simple repositioning.

- All fan inserts of the Silvento series can be used

- Static pressure available: 227 Pa

- With plaster protection cap to protect against contamination during shell construction phase

- Installation depth 90,5 mm (without vents) including assembly accessories and sound absorbers



Pressure Flow rate characteristic curve UP-A, calculated by TÜV SÜD

› Option – Two-room fan



- Convertible to two-room fan (Two room set 3/S2, [Order No. 039 209](#))
- For plug-in assembly of the two-room vent (DN 50/51/80) the opening prefabricated by break point is to be prepared at the flush-mounted housing, depending on the installation position of the two room connection bottom, left, right or top
- Distribution of flow rate: 1. Room $\frac{2}{3}$, 2. Room $\frac{1}{3}$

Air Fans

– with Fire Prevention pursuant to K90-18107 3/UP-BA

3/UP Fire Prevention Axial

› Silvento with Fire Prevention 3/UP-BA

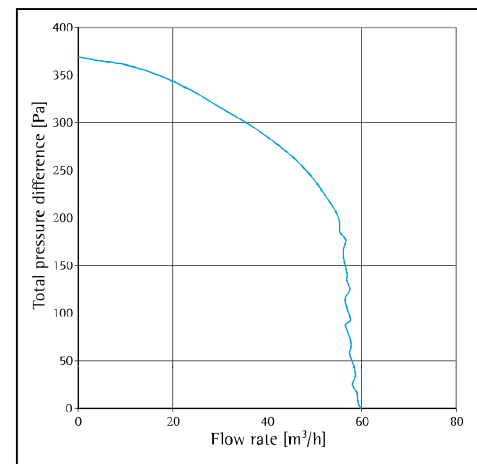
- Plastic flush-mounted housing with fire prevention casing for installation in shafts with requirements of duration of fire resistance, vent axial
[Order No. 039 179](#)



- With shut-off device K90 – 18017, suitable for installation in eat-in kitchens, connection diameter DN 80, with airtight non-return flap

- Metallic, axial exhaust vents
- Installation position of flush-mounted housing with exhaust vents possible to left, top or right, adjustment of non-return flap to installation position via simply turning the insert

- All fan inserts of the Silvento series can be used
- Static pressure available: 212 Pa
- With plaster protection cap to protect against contamination during shell construction phase
- Installation depth 102.5 mm with exhaust vents 187.5 mm including assembly accessories and sound absorbers



Pressure Flow rate characteristic curve UP-BA, calculated by TÜV SÜD

› Option – Two-room fan



- Two-room fan with fire prevention casing (3/UP-2BA, [Order No. 039 195](#)) and Fire preventions et (8/B2, [Order No. 039 543](#))
- Depending on the installation position of the two room connection bottom, left, right or top
- Distribution of flow rate:
1. Room $\frac{2}{3}$, 2. Room $\frac{1}{3}$



Fan Inserts

Fitting for all Silvento flush

28 · 29

Silvento V

› Combine fan inserts

You can combine the fan inserts with the Silvento housings of your choice and receive fans tailor-made to your needs.



Step switching

- Nominal and/or base load operation possible
- Switchable manually to 30 m³/h and/or 60 m³/h
- 230 V – 50 Hz
- Power consumption of 5.2 W and 10.9 W (36.5 W at 100 m³/h)
- Noise pressure level 24 and 35 dB(A)
- Filter change display in front panel

Name: V 30/60

Order No. 039 217

Step switching with time lag

- Switchable nominal load and continuous base load possible , depending on type
- Manual switching of nominal load (60 or 100 m³/h) with time lag function
- Time lag with activation delay, interval and inverse mode
- 230 V – 50 Hz
- Power consumption of 5.5 W and 11.4 W (36.2 W at 100 m³/h)
- Sound pressure level 24 and 35 dB(A)
- Filter change display in front panel

Name: V 30/60ZII,
V 60ZII,
V 100ZII,

Order No. 039 233
Order No. 039 268
Order No. 039 314

-mounted and surface-mounted housings

Tested Safety

Step switching with motion sensor regulated time lag

- Nominal and/or base load operation possible, depending on type
- Switching (60 m³/h) via motion sensor and time lag function
- Time lag with activation delay, lag, interval and inverse operation
- 230 V~50 Hz
- Power consumption of 6.0 W and 12.2 W
- Noise pressure level 24 and 35 dB(A)
- Filter change display in front panel

Name: V 30/60BZII, Order No. 039 241
V 60BZII, Order No. 039 284

Humidity/Temperature Regulation

- Humidity and temperature dependent regulation in four steps
- Steps switchable to nominal load mode (60 m³/h)
- Operating status display via LED
- Adjustment to summer/winter mode possible via switch or programming
- Convenient filter change display
- Connection for central control
- Anti-freeze switch (T< 15°C)
- 230 V – 50 Hz
- Power consumption of 5.3/7.2/8.9/10.9 W
- Sound pressure level 24/27/32/35 dB(A)

Name: V 30-60FK, Order No. 039 330

> Certification

All Silvento fans are certified pursuant to approval
Z – 51.1 – 215 and fitted with Protection Class IP X5



IP X5

Exhaust

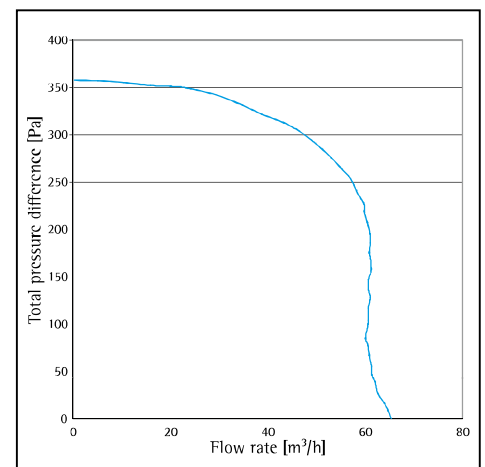
Silvento flush-mounted

30 · 31

Silvento KL

› Silvento KL 30/60 – Step switching

- Single room flush-mounted fan for sanitary cells, drywalls and ceiling installation in suspended ceilings
[Order No. 039 357](#)
- Simple clamp assembly: clamp length up to 42 mm, larger clamp lengths on request
- With conical exhaust vents (DN 75 to DIN 80) and air-tight non-return flap
- Installation position of flush-mounted housing with exhaust vents possible to left, top or right, adjustment of non-return flap to installation position via simple repositioning.
- Filter change display in front panel with washable filter of Filter Class G2
- Also as substitute for fans of the Skalar series
- Including sound absorbers
- Three flow rate levels 30, 60 and 100 m³/h
- Static pressure available: 234 Pa
- Power consumption: 5.2/10.9/36.5 W



Pressure Flow rate characteristic curve KL, calculated by TÜV SÜD

› Option – Two-room fan KL2 30/60



- Two-room flush-mounted fan with filter change display in front panel for use in flush-mounted housings 3/LS2 or 3/LB2 or as a substitute for Skalar – 2VF
[Order No. 039 365](#)
- Simple clamp assembly, depending on the installation position of the two room connection bottom, left, right or top
- Distribution of flow rate:
1. Room $\frac{2}{3}$, 2. Room $\frac{1}{3}$
- three flow rate levels: 30, 60 and 100 m³/h
- Static pressure available: 150 Pa
- Power consumption: 5.2/10.9/36.5 W

Air Fans

clamp filters: simple, swift installation

KL B/ZII/FK

› Silvento KL Step switching with time lag and motion sensor

KL 30/60ZII time lag

- Single room flush-mounted fan with filter change display in the front panel, [Order No. 039 381](#)
- Two flow rate levels 30, 60 m³/h (time lag controlled)
- time lag with interval and inverse function
- Static pressure available: 234 Pa
- Power consumption: 5.5/11.4
- Can also be used with the wall installation housing 3/LS or 3/LB (vent seal required is also supplied)

KL 60ZII time lag

- Single room flush-mounted fan with filter change display in the front panel, [Order No. 039 411](#)
- flow rate 60 m³/h (time lag controlled)
- time lag with interval and inverse function
- Static pressure available: 234 Pa
- Power consumption: 11.8 W
- Can also be used as a substitute for the fan type Skalar-ZI and the fan type Skalar-VZI in wall installation housings 3/LS or 3/LB (vent seal required is also supplied)

KL 60BZII motion sensor and time lag

- Single room flush-mounted fan with motion sensor and filter change display in the front panel, [Order No. 039 438](#)
- Two flow rate levels 60 m³/h (controlled via motion sensor and time lag)
- time lag with interval and inverse function
- Static pressure available: 234 Pa
- Power consumption: 12.2 W
- Can also be used with the wall installation housing 3/LS or 3/LB (vent seal required is also supplied)

KL 30-60FK Humidity-Temperature regulation

- Single room flush-mounted fan with mode status and filter change display in the front panel, [Order No. 039 497](#)
- Automatic convenient humidity-temperature control, four-step, flow rate levels 30, 40, 50, 60 m³/h /time lag controlled)
- Control range: 50-70 % r.H
- Summer reduction mode, automatic via programmed date or can be switched manually, fn as remote control item 0-12 V = (SELV)
- Static pressure available: 234 Pa
- Power consumption: 5.3/7.2/8.9/10.9 W
- Can also be used as substitute for the fan type Skalar F and the fan type Skalar VF in the wall installation housing 3/LS or 3/LB (vent seal required is also supplied)

