



**GF·SOL·AIR**

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## Planningsupport:

### Comfort Ventilation System CVS®ammerwind®

Validity: Up from 10/2013 until replacement by younger issue

**Scope:** De-central airing equipment with recuperative heatexchanger of high efficiency.

**Term 'De-central':** In contrary to central equipments, there are small airing units distributed into single rooms, and installed inside at its outer wall. The air exchange is done via 2 thin thruholes (diam. 62 mm), containing tubes of 50 mm, foamed.

#### Advantages:

- Instead of long tubes thru all rooms, just short connections thru the wall.
- Minimal loss of roomspace.
- Fast installation-therefore lowest add-on costs.
- Everywhere to supplement (new/old buildings)
- Individual adjustmentability of airing volumina and in consequence the internal clima, staying the main time in a field of convenience (ideal humidity).
- Freedom from mould fungus, reduction of growth of mites.
- Fewer risks to illness, allergies.
- No contamination of in/out air stream to each other.
- No telephony effects (security of intimacy).
- Free of draught (vertical air stream at the wall).
- Excellent noise damping from outside.
- Protection against insects, dust and pollen.
- Well distribution of heat because of controlled airing, even temperatures in whole room.
- Best qualified also for bathrooms, cellar rooms aso.
- Low voltage supply (12V), everybody is allowed to install the CVS.
- Easy to maintain and clean, the heat exchanger can be removed and washed if necessary.
- Simple exchangeability of filters.
- Excellent efficiency of heat regain, therefore big savings of heating costs.
- Also excellent cooling effects during hot season, with zero energy costs!

**Usability:** In all rooms of dwelling-houses, social flats, appartements, office buildings, ateliers, workshops, sick-rooms in hospitals (highest degree of non-contamination!), rooms for seniors, waiting-rooms, rooms for medical treatments, aso.

Houses of any structure.

**Roomsize:** Per equipment CVS approx. 12-18 m<sup>2</sup> base area (at std. height) and dominate present residents (1 to 2,5 persons). Greater rooms need more CVS's accordingly.

**Airing volumina:** Variable at filter type EU3 8 to 20 m<sup>3</sup> / hour.

**Power consumption:** 12V, 1 to max 4 W

**Acoustic noise emission:** 17 to 31 dBa ref. air volume .

**Acoustic noise immission** attenuation >52 dB (best traffic noise decoupling)

**Dimensions:** HWD (height-width-depth) 44x28x11 cm<sup>3</sup>, weight 3.2 kg (w/o PS)

**Set:** Contains all components for complete installation., except foam

**Equipment:** Pack of counter-stream heat-exchanger of PVC-hard-foils achieving 90% heat regain (actual), 2 axial fan motors of type ECM, manual controlled mixing shift plate at frost temperatures, filters, front cover with stainless flygates, power supply (s.b.).

The condenser water runoff is performed via exit tube, frosting is eliminated by mixing the fresh air with warm room-air via manual control of a shifting plate (fixed w. screw), depending on outside temperature.

**Power supplies offered:**

- a) standard option: wall-plug power supply switcher type with 1.5m cable low voltage 12V.
- b) Alternative 1: concealed wire-PS, switcher type w. high efficiency rate, short circuit proof, ca. 0,25 m wires (low voltage), color anthrazit, **add-on priced**, flush socket installed behind CVS device, buried wiring required.
- c) Alternative 2: Common PS installed in a fuse box for up to 12 CVS by concealed wiring. (only low voltage!). **Separate pricing**, the unused standard PS's will be credited.

**Installation recommendation:** Beside a window (or balkony-door) in about half height of room ( 0,2 bis 0,75 x height recomm.). Several CVS's in a large room, should be arranged adequately. Application on vertical walls is preferred (Roof-mansarde, gablewall, kneestock). Roof thruholes should be avoided (waterproofing is difficult and not reliable enough for longterm). Device can be submerged into the wall partly (6cm), reduces roomloss.

**Tools:** Dry drilling of wall-thruholes via diamond-/hardmetall-/SiC- equipped drillcrowns max. 68 mm Ø, dust exhauster obligatory , see also alternate drilling methode on web-infosite. Drilling-template (steal), drilling support in offer (s. manual), drilling-template in paper associated with every CVS unit.

**Maintainance:** minimum twice a year, better 4 to 6 times.

**Filter exchange/ cleaning:** depends on quantity of dust and pollen, every 2 to 4 month. Cleaning by dustsucker or washing

**Filtercategories:** G3, G4, F5 and F7 in offer.

**Warranty:** 2 years for production dependent failures (not valid for wear parts, illegal applications, misuse and wrong installation ).

**Lifetime:** due to extended life tests we expect life times of 2 to 3 decades of years, fan motors ca. 5-12 years.

**Special applications:**

See installation proposals.

**Options : (partly in process)**

1. Action-Hour-Counter: Counts only while fans work. Yet available
2. Timer unit (15 steps of .3h) for easy slumber /or pusher function in bathrooms

