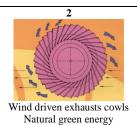


Winter gardens Solariums









Denmark
Ph. +45-59651717 - Fax +45-59651286
e-mail: <u>info@orbesenteknik.com</u>

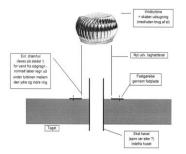
Ad 2 - Natural ventilation or hybrid air suck

Use Wind Energy

It's free of charge, and it prevents cold-drop!!



Insulated tube for motordriven turbine. Turbine hat taken off for looking inside.



Example with a non-insulated covering pipe/tube for holding the cowl. The covering pipe has a larger diameter than that coming up from the house. This design prevents condensate and rain to enter house.

Ø350 wind cowls turbines

Motor driven cowls Ø350 can create Exhaust of up to $\underline{950~m3/h}$ dependable of the free opening available in your tube/pipe. Using insulation reduces the free opening considerably. An alternative could be to use a larger diameter cowl i.e. Ø600 (see below).

A solely wind driven cowl of $\emptyset 350$ can create an Exhaust of up to $\underline{1100+m3/h}$ depending on the size of the free opening and of the speed of the Wind energy is GRATIS energy.

Ø200 wind cowls turbines

Ø200 mm Exhaust solely driven by wind creates an air exchange of up to $\underline{600+m3/h}$ depending on the wind speed.

If the air is sucked from a basement or a similar low positions the thermal power of warm air rising will add to the effect of the cowl/wind.

The system is extremely well suited for passive removal of polluted air f.ex. from polluted grounds or moist basements or bad smells in houses/blocks.



Ready to use wind turbine on a flat roof with roofing felt covering.



Covering pipe is not a part we deliver. Can be made for slanting roof or horizontal roofs. The base plate is fixed to the roofing material underneath it. Slightly above this level some drain holes should be made allowing condensate to escape the pipe.

Ø600 cowls / turbiner

Automatic control for 200-2000 m3/h exhaust by a low-energy consumption motor.

This level of air exchange requires a square box going through the roof in order to have sufficient capacity together with insulation.

For achieving sound damping against the wind blast special insulation is often inserted in this box too.

Flat roofs / gymnasiums? or...



