Server Your Energy "Distributed ventilation with high efficiency heat recovery in multi-storey housing renovations." Jari Mikkonen, Ensto Building Technology Content 1. Ensto shortly 2. Ventilation 3. Distributed ventilation systems, pros and cons 4. Case story from Sweden 5. Cooling in historical buildings 6. Conclusions























Cooling in historical buildings

Enervent Pegasos PRO greenair HP

• Enervent Pelican HP and Pegasos HP is a ventilation unit with rotating heat exchanger and interated heat pump.

• The heat pump heats and cools the supply air. The units are suitable for spaces up to 500-2000 m³.



Saves Your Energy

- Ventilation renovation needs more values than just a financial payback time. According to studies payback time is 20-30a in best case when compared with required airflows today.
- Ventilation renovation need to combine with bigger renovation of the building to make it financially reasonable. Reduces costs 20-40%.
- · Project need to be planned carefully. Especially distributed system.
- Heat recovery efficiency is having a keyrole for energy effiniency. Both heat
 efficiency and entalphy efficiency need to be consideres on yearly basis.
- · Specific fan power (SFP) need to be considered.
- The selection of ventilation system (centralized or distributed) need to be done case by case.
- Need for cooling is increasing, integrated units are available already (no outdoor unit)

