

Let's talk
about
energy
saving

 cooltherm

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multiCENT 3therm

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Reversible chiller/ heat pump

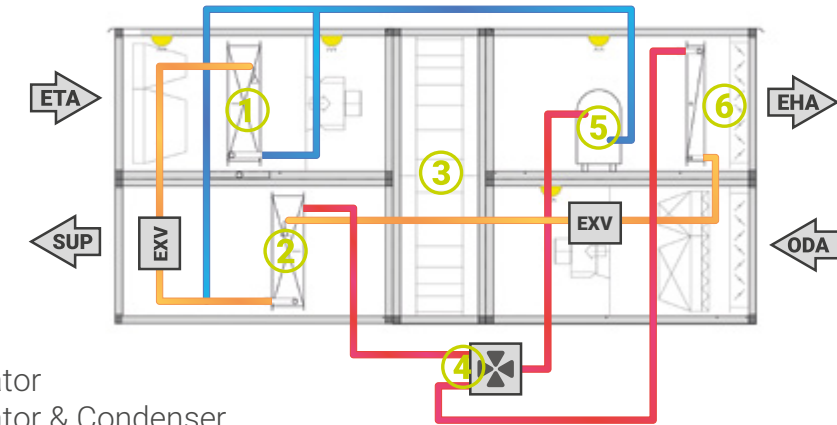
The **new generation**
of self-regulating
Air Handling Units.



Features and Benefits

- AHU with integrated 3-coil reversible heat pump/chiller unit
- **No defrosting necessary**
- Complete independent operation
- Heating/cooling load fully modulated
- Air flow rate control (constant air flow rate or constant diff. pressure)
- 3rd generation Danfoss VZH inverter scroll compressors
- Integrated controls in weatherproof enclosure complete with bespoke software solutions for accurate control of cooling & heating output to meet varying building thermal demands (Option: remote access and monitoring via web platform)

How does it work



- 1 = Evaporator
- 2 = Evaporator & Condenser
- 3 = Heat Recovery System
- 4 = 4-way valve
- 5 = Inverter scroll compressor
- 6 = Condenser

Summer mode

- The coil in the supply air unit operates as evaporator (2)
- The heat recovery system (3) is cooling down the outside air with colder air from inside the building
- The coil in the exhaust air unit is the condenser (6)

Winter mode

- The coil in the supply air unit operates as condenser (2)
- The coil in the extract unit is the evaporator (1)
- The heat recovery system (3) transfers the remaining heat from the extract air to the outside air

The units can be equipped with additional components to suit a wide range of applications.