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Ventilation, dehumidification and heat recovery for minimum energy use in swimming pool halls

A CIBSE recognised CPD seminar

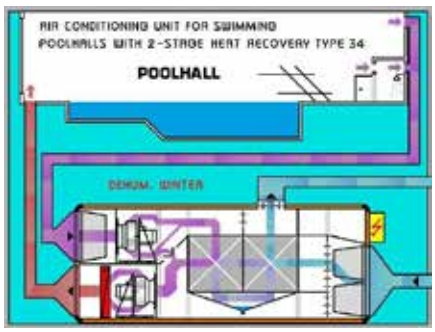
A technical seminar suitable for mechanical services engineers designing swimming pool hall ventilation systems or carrying out energy surveys on swimming pools.

Course Speaker : Kirsty Aldridge

Course summary :

1-11/2 hour seminar illustrated by colour computer demonstration programs including the following topics:

- Review of current design standards for swimming pools in the United Kingdom and elsewhere.
- Optimum design conditions for bather comfort in hydrotherapy, hotel, competition and leisure pools.
- The interaction between hygiene, pool water quality, pool hall air quality and wellness of lifeguards, swimmers and spectators.
- The importance of careful structural design, detailing and construction in the control of condensation.
- Calculation of evaporation and airflow rates.
- Air distribution methods.
- Construction techniques for swimming pool air handling units to withstand the aggressive Pool hall environment.
- Reduction of fan motor power consumption using direct coupled free running ventilator wheels
- Energy cost assessments for swimming pool ventilation systems, life cycle costing.



Optional topics:

- Indoor water parks – the challenge of higher evaporation rates.
- Specific requirements for hydrotherapy pools.
- Private pools
- Salt water pools
- Pool water dilution, shower water usage and waste water heat recovery.

CIBSE CPD

For more information or to book a seminar please contact:

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Swimming pool units

ThermoCond® Type 19 and 23 with multi-stage heat recovery for private, hotel, therapy, small public swimming pool halls and small leisure pools. The Menerga unit automatically chooses the most economic mode of operation.

ThermoCond® Type 29 with heat-pump for private, hotel, therapy, small public swimming pool halls and small leisure pools. The Menerga unit automatically chooses the most economic mode of operation. With optional pool and fresh water heating.

ThermoCond® Type 35 with asymmetric heat exchanger for larger public swimming pool halls and indoor water parks. Ideal for existing pools where plant room space or access is limited.

ThermoCond® Type 38 with counterflow heat exchanger for larger public swimming pool halls and indoor water parks. Class leading heat recovery efficiency and durability in the aquatic environment delivers the lowest possible life cycle costs.

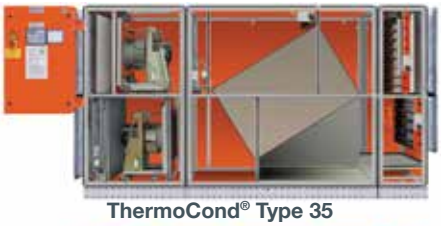
Trisolair® - Wet Change with exceptional heat recovery through the 3-stage recuperator, where the exhaust and outside air are separated. The unit monitors return air conditions to automatically adjust the airflow.

Adconair® - Wet Change for larger wet change areas. The counterflow heat exchanger achieves class leading heat recovery efficiencies. The unit automatically controls the temperature, humidity and airflow with minimum energy consumption.

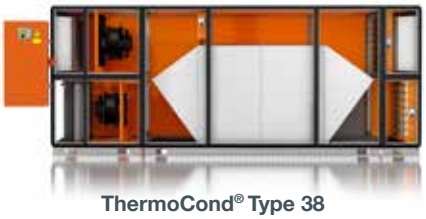
ThermoCond® 19

ThermoCond® 29

ThermoCond® Type 23



ThermoCond® Type 35



ThermoCond® Type 38

Trisolair®

Adsolair®

Resolair®

Adconair® Type 76

Adcoolair® Datacenter

Low energy air conditioning

Adsolair® with two stage recuperative heat recovery and indirect “adiabatic” cooling. Environmentally friendly cooling is achieved by evaporation of water.

Resolair® regenerative units achieve heat recovery efficiencies in excess of 90%. They are ideally suited for conditioning sports halls,houses, hotels, shops, theatres, cinemas, museums and many other applications.

Resolair® - Passivhaus regenerative units meet Passivhaus standards for heat recovery and power consumption.

Trisolair® with three stage recuperative heat recovery for the air conditioning of houses, small hotels and other room spaces.

Adconair® - Passivhaus with counterflow recuperator, separates outside and exhaust air paths resulting in suitability for large scale Passivhaus applications. The heat recovery efficiency and power consumption meet Passivhaus standards.

Adcoolair® air conditioning units for datacentres and other applications with high heat gains. Free cooling and indirect adiabatic cooling meet a significant proportion of the cooling requirement to achieve the lowest possible PUE and life cycle costs.

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