

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

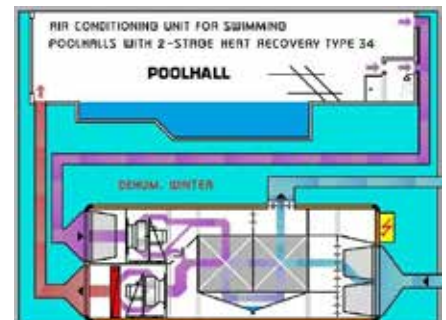
Course summary :

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.



For more information or to book a seminar please contact:

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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.

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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.

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