



Ventilation for business and pleasure



Cool solutions. Comfortable surroundings

Making every indoor climate a comfortable one is the very essence of Dantherm Air Handling. Our complete range of tried and tested air handling units provides a comfortable indoor climate for all purposes and in any environment – from hotels and office buildings to locker rooms, swimming pool halls and shopping centres.

Whether you are looking to ventilate a hotel lobby, an open office space, a shopping centre or a swimming pool hall, Dantherm Air Handling has the know-how and the expertise to make your project a success. Our range of units has been designed to accommodate the requirements of a variety of indoor surroundings – from easily installed plug-and-play solutions to high-end customized systems.

The design, development and manufacture of air conditioning and ventilation equipment has been part of Dantherm Air Handling's core competencies for almost 50 years. And it shows. Above all, our sturdy solutions are among the most cost-effective on the market. Minimal pressure losses, efficient heat exchangers and durable components all contribute – as does our unique "all-in-one-box" concept. With all functions contained in a single unit, installation has never been easier – and the same goes for service and maintenance.

Only the most advanced technology is used in our constant efforts to develop and produce top-of-the-line solutions. We are forever pursuing new techniques that will improve our air handling units and ultimately your projects. This constant drive to refine our products is part of what has made us a preferred global supplier – from the cold of Scandinavia to the tropical skies.





Reliable ventilation for your comfort

The indoor climate has a huge impact on people and their sense of well-being. Uncomfortable surroundings can reduce productivity and the ability to concentrate, while a healthy environment will do just the opposite. Choosing Dantherm Air Handling as your partner in ventilation allows you a choice between customized and compact plug-and-play solutions. Which to implement depends on your specific requirements.

Customized comfort solutions

Dantherm Air Handling offers the perfect solution for any ventilation project that calls for customization. Thanks to the modularity of the units you can choose the exact functionalities required for a specific project.

Designed to meet more complex air handling requirements, the flexible units can be equipped with reversible heat pumps combined with different types of heat exchangers to obtain maximum heat recovery in cold periods and cooling in warm seasons. Regardless of the choice you make, you are guaran-

teed an energy-optimized solution that will prove to have not only a long life but also low operating costs. On top of the many standard features, a wide range of accessories is available to supplement the units and meet the specific requirements of your project.



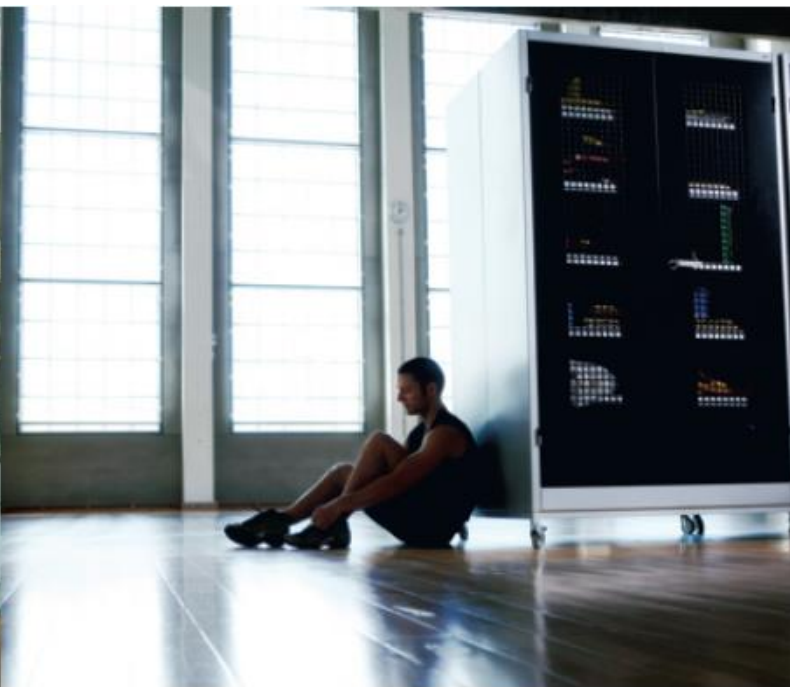
Office buildings

An uncomfortable indoor environment can reduce the efficiency around the office by as much as 10%. Such a scenario can prove quite costly, particularly during warm spells with high temperatures and high relative humidity.



Shopping centres

One of the success criteria of shopping centres is the amount of time people spend there. The longer they stay, the more money they are likely to spend.

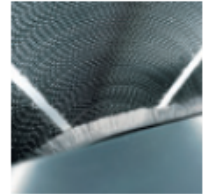


Locker rooms, gyms and restaurants

In locker rooms and adjoining facilities (e.g. gyms or restaurants), our modular air handling units are a popular choice, offering cost-effective operations, low noise and easy installation.

Hotels

In hotels, it is not merely the rooms that need to offer 24-hour comfort in terms of air conditioning and ventilation. Also the temperature and the air quality in the lobby, the restaurant and every other public space must be perfectly controlled for the guests to enjoy a pleasant stay.



Plug-and-play comfort solutions

The compact plug-and-play units are a popular choice where demand management and energy optimization are priorities – for instance in smaller office spaces, institutions and schools. The units are fitted with an integrated control system with a user-friendly display and control panel which allows reliable supervision of the indoor climate around the clock and ensure that, for example, the running and energy costs are kept to a minimum. Temperature and air flow volumes can be independently and individually set for each day of the week.

The units are available either with a cross flow heat exchanger or with a heat wheel. Efficient heat recovery and low operational costs, contributing to a quick pay back time, are among the general benefits associated with these compact air handling solutions. According to your

requirements, the units can be supplied with a number of accessories, e.g. fresh air/exhaust air dampers for duct mounting, roof for outdoor installation and cooling coil for chilled water or direct expansion.

A further advantage of our compact air handling solutions is the fact that they can be used as decentralized ventilation, offering you the possibility of exactly adapting the temperature and air volumes to specific requirements in different rooms.

Dantherm Air Handling's comfort solutions are easily installed thanks to the user-friendly plug-and-play concept. As for the integrated control system, all the important functions are factory-set and tested, making it a simple task to carry out the final adjustments on site.

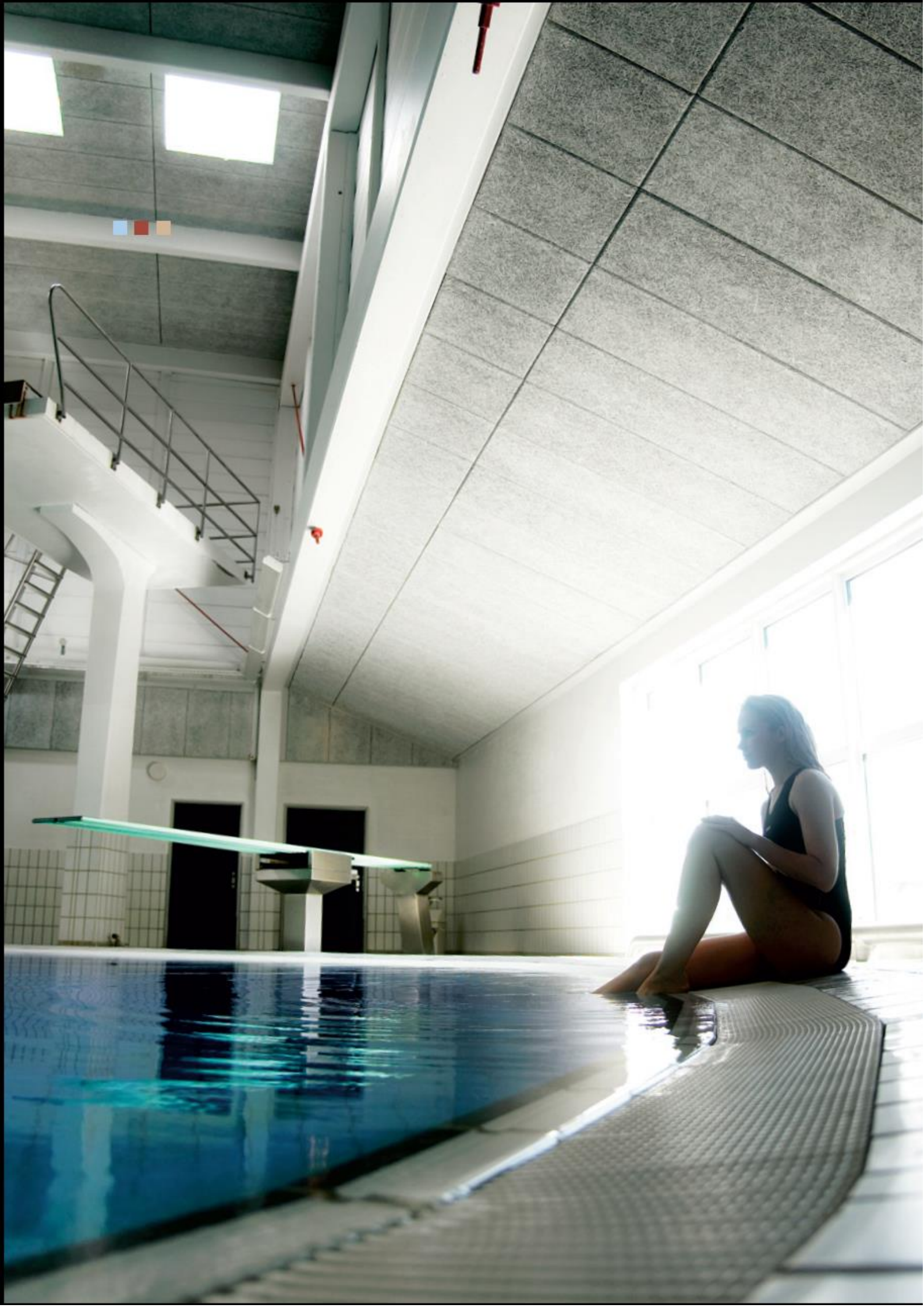
Domestic ventilation

Dantherm Air Handling offers small air handling units, designed to meet the requirements for a comfortable indoor climate in residential buildings. The compact design allows domestic ventilation to be implemented even in homes where space is limited – without compromising low energy consumption. Domestic ventilation by Dantherm Air Handling has a long life and offers inexpensive running costs on top of easy installation and – of course – low noise levels. The domestic air handling units come equipped with user-friendly control systems, making it a simple task to ensure optimum surroundings around the clock.

Vent R2



Elite 400



Comfortable swimming – anywhere in the world

A comfortable, well-balanced indoor climate is an important factor – particularly in swimming pool halls where high relative humidity and condensation can reduce the well-being of the occupants and cause damage to the building. Here, professional control of the internal temperature and humidity is a must. With a solution from Dantherm Air Handling you are in safe, capable hands. Our corrosion-proof units are specially designed and developed to withstand the aggressive environment encountered in swimming pool halls – regardless of the dimensions of your project or where in the world it is located.

Heat pump solution

An air handling solution with a heat pump is an efficient dehumidification solution, built to accommodate swimming pools with limited use in terms of both time and number of occupants – for instance hotel pools and therapy baths. This solution, offering low running costs, is suitable for climates with little difference between the indoor and the outdoor humidity and/or spaces where the need for fresh air is limited.

The thoroughly tried and tested units offer dehumidification through condense drying – supplemented by a minimum of air change during the day to maintain a comfortable indoor environment. If the need for fresh air is particularly high the units are available in a split version that increases both the dehumidification and the fresh air supply – as well as the comfort for the occupants.

Due to their compact design, the heat pump units are well-suited for smaller buildings as they can be installed on the ceiling in the swimming pool hall if space is limited.





Ventilation solution

A unit based on ventilation with fresh air is the obvious choice in climates with moderate outside temperatures and a distinct difference between the indoor and the outdoor humidity. By replacing the damp indoor air with dry fresh air the indoor climate is effectively controlled in order to maintain comfortable surroundings for the occupants. Significant energy savings are achieved through an energy-efficient cross flow heat exchanger and an optimum control system.

The supplementary mixing box provides even greater control of the energy consumption. Hereby the fresh air supply is controlled according to demands, while maintaining air movement in the swimming pool hall.

Combined solution

Offering the best of the heat pump and the ventilation systems, the combined solution is Dantherm Air Handling's flagship. It is designed to perfectly control the humidity and indoor temperature while offering significant running cost reductions due to energy savings.

Among the top-of-the-line features – all contained in one system – is a unique heat recovery. This is achieved through an efficient heat exchanger combined with the heat pump features. As the heat pump is reversible, it further offers both the comfort of cooling and of increased dehumidification, and consequently increases the energy savings. At night, when the evaporation rate is low and the fresh air supply is redundant, the system can switch to full recirculation, allowing the system to act wholly or partly as a dehumidifier.

For further energy optimization, a water-cooled condenser can be integrated into the unit. This allows the excess heat to be transferred to the pool or to the domestic water where it is efficiently reused. The result is cost-effective operation – as well as a comfortable environment for the occupants.

Dantherm Air Handling's combined solution is ideal for leisure, municipal and commercial projects in every climate around the world.

DanX



Efficient control of the indoor climate

Dantherm Air Handling offers unique controls for all of our units, ensuring that a comfortable indoor environment is maintained around the clock – and keeping energy consumptions at an absolute minimum.



Controlling the indoor climate has never been easier. Dantherm Air Handling's advanced control system effectively ensures that the climate as well as the energy consumption meet your pre-defined requirements. With automatic monitoring and control of temperature, humidity and energy consumption you are guaranteed a balanced and cost-efficient indoor climate.

Based on years of experience and ongoing development, the unique Dantherm Air Handling control strategy has been optimized specifically for our units. All controls are either developed by us or adapted to the unit in question. This – on top of the fact that the controls are tested together with the units at our production plant – guarantees optimum performance from the word go.

The controls have been designed with the user in mind and are user-friendly with a simple and easy to operate display. The control strategy can be adapted to your exact requirements. As all the important functions are factory-set and tested prior to installation, you are guaranteed smooth operations immediately.

Selection program

Designing an air handling unit is a complex task and many factors need to be taken into consideration for an optimum result. Dantherm Air Handling offers a selection program designed to facilitate planning. The selection program can be downloaded from www.dantherm-air-handling.com. Naturally, you can also draw on

the know-how and expertise of our engineers and sales people who are more than happy to help you to select an air handling solution that meets your exact requirements.





Comfortable surroundings in any climate



Since 1958 Dantherm Air Handling has developed and produced climate control and air handling solutions that ensure optimum conditions for people and sensitive equipment alike. No climate is too extreme for us to handle – from the bitter cold at the North and South Poles to the searing heat of the Sahara.

Our core business areas are dehumidification, heating, air conditioning, heat recovery and electronics cooling. Innovative, durable and cost-efficient products have secured us a position as a leading global manufacturer of stationary and mobile climate control units. And we are forever pursuing new techniques that will improve our solutions and ultimately your projects.

Dantherm Air Handling's headquarters are situated in Denmark with subsidiaries in Norway, Sweden, the United Kingdom, the United States and China – and an extensive European dealer network.

Dantherm Air Handling is a wholly-owned subsidiary of Dantherm A/S.

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