

## Two versions

### DanX 2 HP with double cross flow heat exchanger and heat pump

The DanX 2 HP combines the strengths of a heat pump system with a system that dehumidifies using outdoor air. The combined heat pump and highly effective double cross flow heat exchanger precisely regulate both humidity and temperatures in the pool room.

In addition to heat recovery exceeding 100%, the heat pump optimises dehumidification, so that the proportion of fresh air never exceeds what is necessary to ensure comfort. To achieve additional energy savings, a pool water condenser can be integrated with the heat pump. This way, recovered heat can be used to heat the swimming pool or utility water. This makes the DanX 2 HP ideally suited for regions with cold winters.

### DanX 2 XD with double heat exchanger

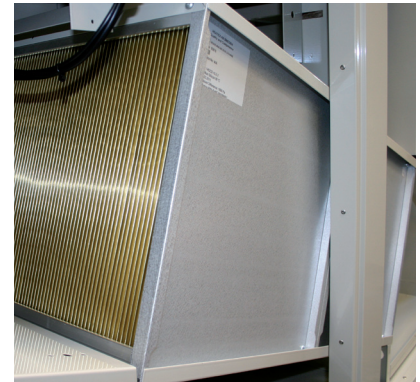
The DanX 2 XD is a very effective ventilation system that uses outdoor air to provide dehumidification, and that heats the air using a double heat exchanger that delivers up to a 95% heat recovery. This reduces energy consumption and total operating costs. The system is perfect for managing humidity and temperatures in the pool room.



*DanX 2 units are equipped with Eurovent certified double cross flow heat exchanger.*

### Shared benefits

The built-in mixing component takes care not to add any more outdoor air than necessary to provide a comfortable indoor climate. Free cooling is also an option during summer, when the unit can add up to 100% outdoor air into the pool area.



*Efficient double cross flow heat exchanger is made from epoxy-coated aluminium, making it thoroughly resistant to harsh chlorine-tainted air.*

## Intelligent control system

Both DanX 2 models are equipped with an intelligent control system that's unlike anything on the market. The system combines intuitive, hassle-free operation with extremely advanced control and programming options. The result is highly precise demand management – which is the secret to unprecedented low operating costs for the DanX 2 line.

A large, easy-to-read display makes it easy to check settings and current status. And a few simple buttons let you quickly and easily programme the unit to suit your own preferences. Control over every single function is at your fingertips.

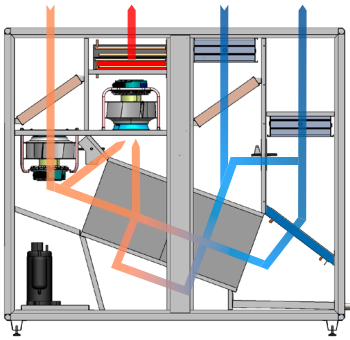
The control unit is compatible with the most commonly used digital communication protocols, which means the DanX 2 is ready for integration with existing and future options. This might involve centralised pool room monitoring and control for an entire hotel chain, or integration with other functions in an "intelligent building" and a building management system (BMS).

### Benefits

- Newly developed, effective, demand-based control
- Intuitive, logical operations
- Precise, intelligent control
- Easy-to-read display
- Complete logical control
- Compatible with digital communication protocols

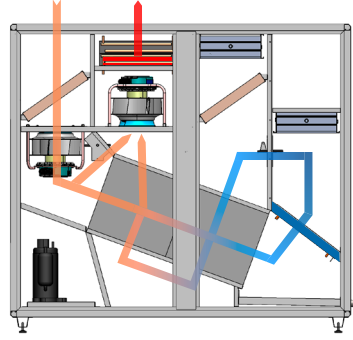


## ■ ■ ■ Technical details



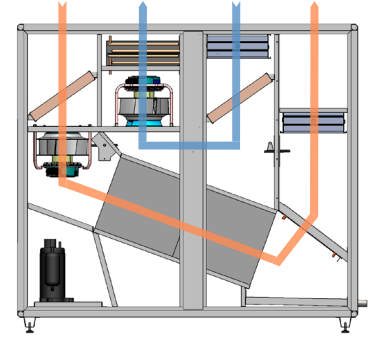
### Day

Partial recirculation with heating, 2-stage heat recovery and dehumidification with outdoor air and heat pump (HP model). To minimise pressure loss, only some of the humid air is conducted through the heat exchanger for evaporation. If dehumidification is insufficient, the proportion of dry outdoor air is increased automatically.



### Night

The DanX 2 HP has a recirculation function and uses the heat pump for dehumidification. The double cross flow heat exchangers cool the air, thus helping with dehumidification. If dehumidification is not needed, the heat pump automatically shuts down, and the heating surface assumes the job of heating air, if needed. The DanX 2 XD continues to operate as it does during daytime, but using less outdoor air.



### Summer

The DanX 2 uses 100% outdoor air for dehumidification. The water heating surface and the heating pump (HP model) are not used. A bypass valve opens and allows the unit to run in free cooling mode.

		DanX 2 XD	DanX 2 HP
Nominal air volume	m <sup>3</sup> /h	1750	1750
Outdoor air volume	%	0 - 100	0 - 100
Dehumidification in accordance with VDI 2089 <sup>1)</sup>	kg/h	11,3	11,3
Supply air temperature <sup>2)</sup>	°C	28	36
Pool water condenser <sup>3)</sup>	kW	–	3,5
Water heating coil 45/35° C	kW / °C	2,5 / 34 <sup>4)</sup>	2,8 / 35 <sup>5)</sup>
Water heating coil 70/50° C	kW / °C	9,8 / 45 <sup>4)</sup>	9,2 / 46 <sup>5)</sup>
Filter outdoor / return air		F7 / F5	F7 / F5
Refrigerant R407c	kg	–	2,0
Max. power consumption	A	6,0	13,3
Max. power absorption	W	1400	2900
Electrical connection	V	230 - 1P - N	400 - 2P - N

1) Pool hall conditions at 30°C/54% RH - 30% outdoor air at 5°C/85% RH.

2) Before heating coil at 6° C outdoor

3) Water temperature: 28°C

4) 28°C before heating coil

5) 30°C before heating coil

### Heat pump

- High efficiency
- Scroll compressor
- Pool water condenser
- +100% heat recovery

### Materials

- 50 mm insulation
- Hot-dip galvanised
- Epoxy coating
- High quality items

	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
DanX 2XD	1552-1602	1750	780	344
DanX 2HD	1552-1602	1750	780	389