

DANX 1-2-3 HP



DANX 1/2/3 HP

DanX HP with double crossflow heat exchanger and heat pump

The DanX 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 crossflow 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 outdoor air never exceeds what is necessary to ensure comfort. For further energy optimization, a water-cooled condenser can be integrated into the heat pump. This allows the excess heat to be transferred to the pool or the hot water supply, where it is reused.

Optional accessories

- Water trap - 092447
- Fire thermostat 40°C/70°C - 101277
- Attendance transmitter - 076092
- Outdoor sensor - 018092
- Frost thermostat for LPHW coil Auto reset - 101953
- Frost thermostat for LPHW coil MAN reset - 102092
- 3.5" control panel, touch screen - 109404

- Built-in heat pump with rotary compressor and high COP Optional built-in water cooled condenser for heating of the pool or domestic water
- Built-in user friendly control system for high-quality demand management Automatic monitoring and control of pool hall temperature and humidity
- Double crossflow heat exchangers with a high efficiency of more than 85% and a low pressure drop
- Built-in by-pass for free cooling in the summertime
- Highly energy-efficient EC plug fans
- Efficient M5/ePM10 70% and F7/ePM1 55% compact filters with low pressure drop
- Self-bearing cabinet with hot-dip galvanised, powder-painted sandwich panels with 50mm mineral wool insulation, internal partition walls with 30mm and bottom frame with adjustable feet
- Designed to withstand the aggressive swimming pool environment (Corrosion class C4 according to EN/ISO 12944-2), with epoxy-coated crossflow heat exchangers, coils with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts and nuts
- Two large inspection doors with strong hinges and tongue locks and handles for easy access for service
- All-in-one box solutions for easy and quick installation with all sensors and electrical components already connected
- BMS communication with either Modbus or BACnet

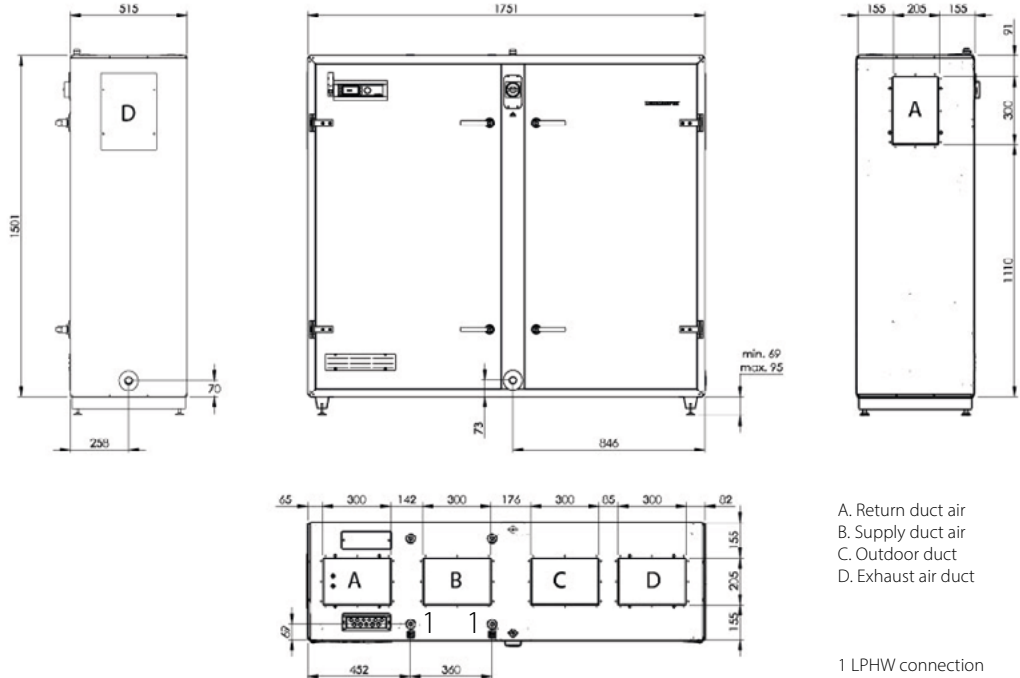
Specifications	Units	DANX 1 HP	DANX 2 HP	DANX 3 HP
Nominal air volume	m ³ /h	1,000	1,750	2,750
Max. air volume	m ³ /h	1,300	2,100	3,500
Max. external duct pressure*	Pa	350	350	350
Outdoor air volume	%	0-100	0-100	0-100
Dehumidification capacity recirculation**	kg/h	1.7	4.2	6.9
Dehumidification capacity VDI 2089**	kg/h	7	11	18
Power consumption compressor**	kW	0.6	1.2	1.9
Max. power consumption	kW	1.7	2.9	4.6
Power supply	V/Hz	230/1ph/50	400/2ph/50	400/2ph/50
R407C gas weight/CO ₂ equivalent	kg/t	1.0/1.77	1.6/2.84	4.0/7.10
Product size (w x d x h)	mm	1750 x 515 x 1570	1750 x 780 x 1570	2250 x 890 x 1990
Weight	kg	279	379	500

* at nominal air volume, ** at 30°C/54% indoor

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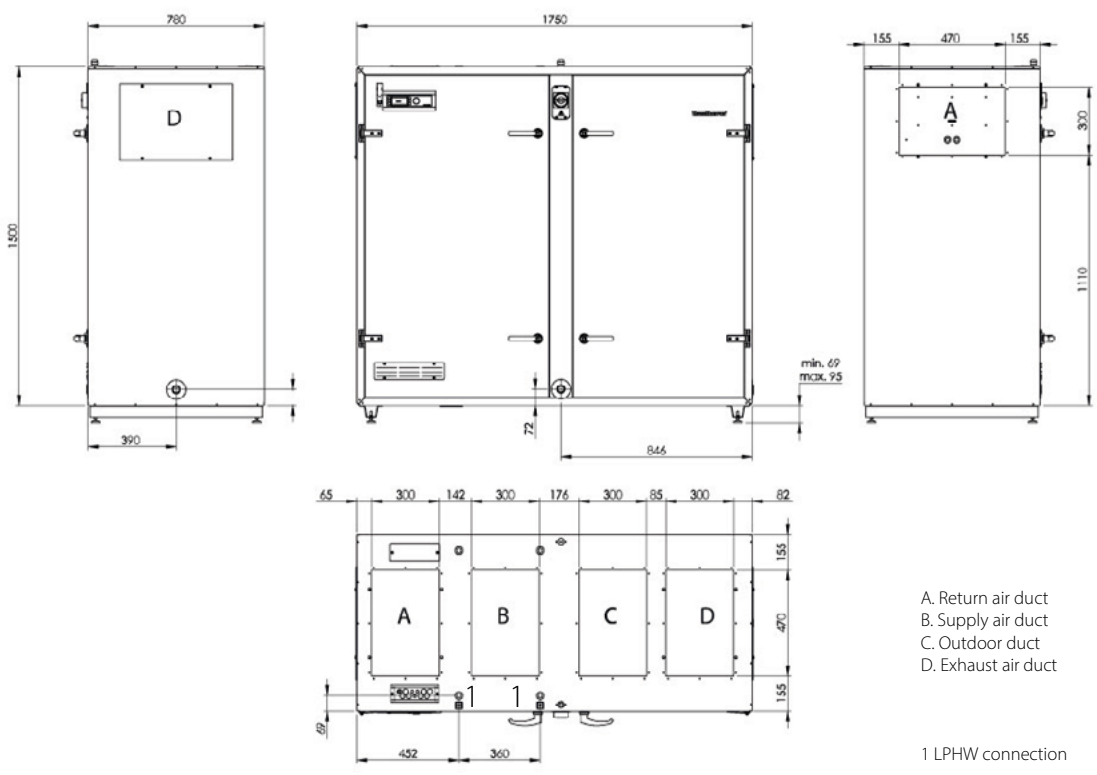


DanX 1 HP dimensions (mm)



The unit shown in the picture is left hand position.

DanX 2 HP dimensions (mm)

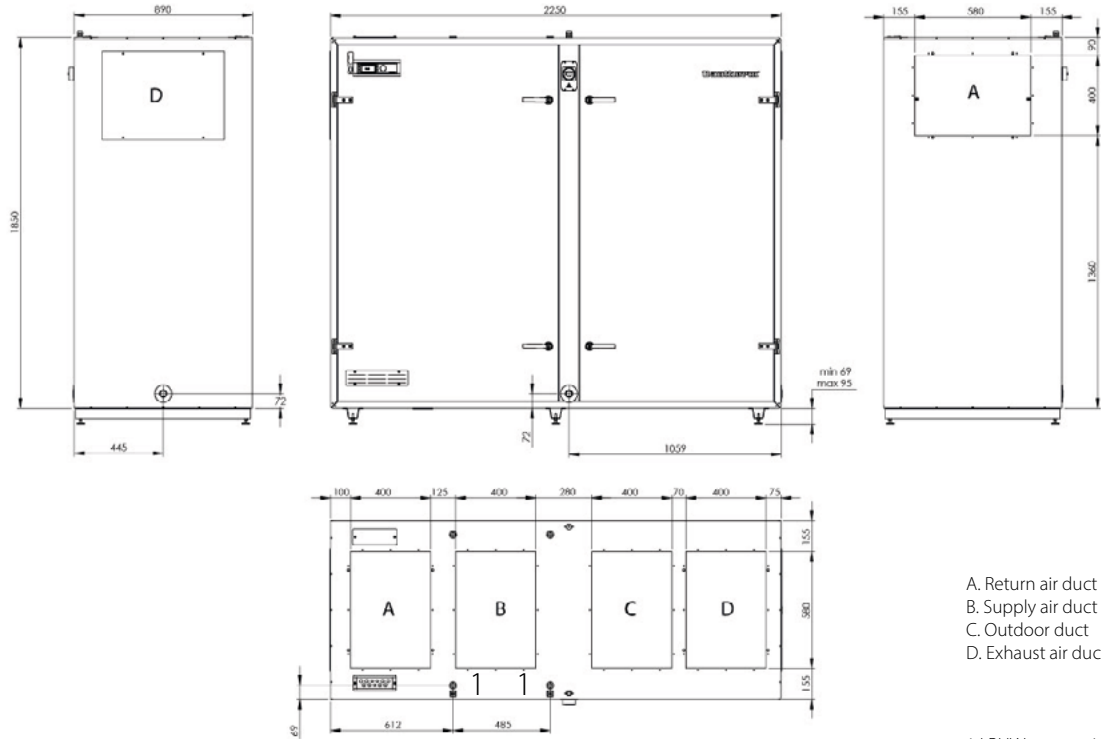


The unit shown in the picture is left hand position.

DANX 1-2-3 HP



DanX 3 HP dimensions (mm)



- A. Return air duct
- B. Supply air duct
- C. Outdoor duct
- D. Exhaust air duct

1 LPHW connection

The unit shown in the picture is left hand position.