Dantherm®
CLIMATE SOLUTIONS

2023

CLIMATE CONTROL

FOR SWIMMING POOLS, WELLNESS CENTRES, COMMERCIAL BUILDINGS AND GENERAL INDUSTRY

DANTHERMGROUP

DANTHERMGROUP

About the Dantherm Group

Dantherm Group is a European leader in portable and installed climate control solutions for a wide range of industries and uses. Based on the heritage of the variety of brands we own, our climate control experts build and manufacture hundreds of thousands of exceptional heating, cooling, dehumidification, air cleaning and ventilation units in our own factories in Europe every year. All of them are designed to create healthy and comfortable climate surroundings in a sustainable, energy-efficient and cost-effective way.

Why partner with us

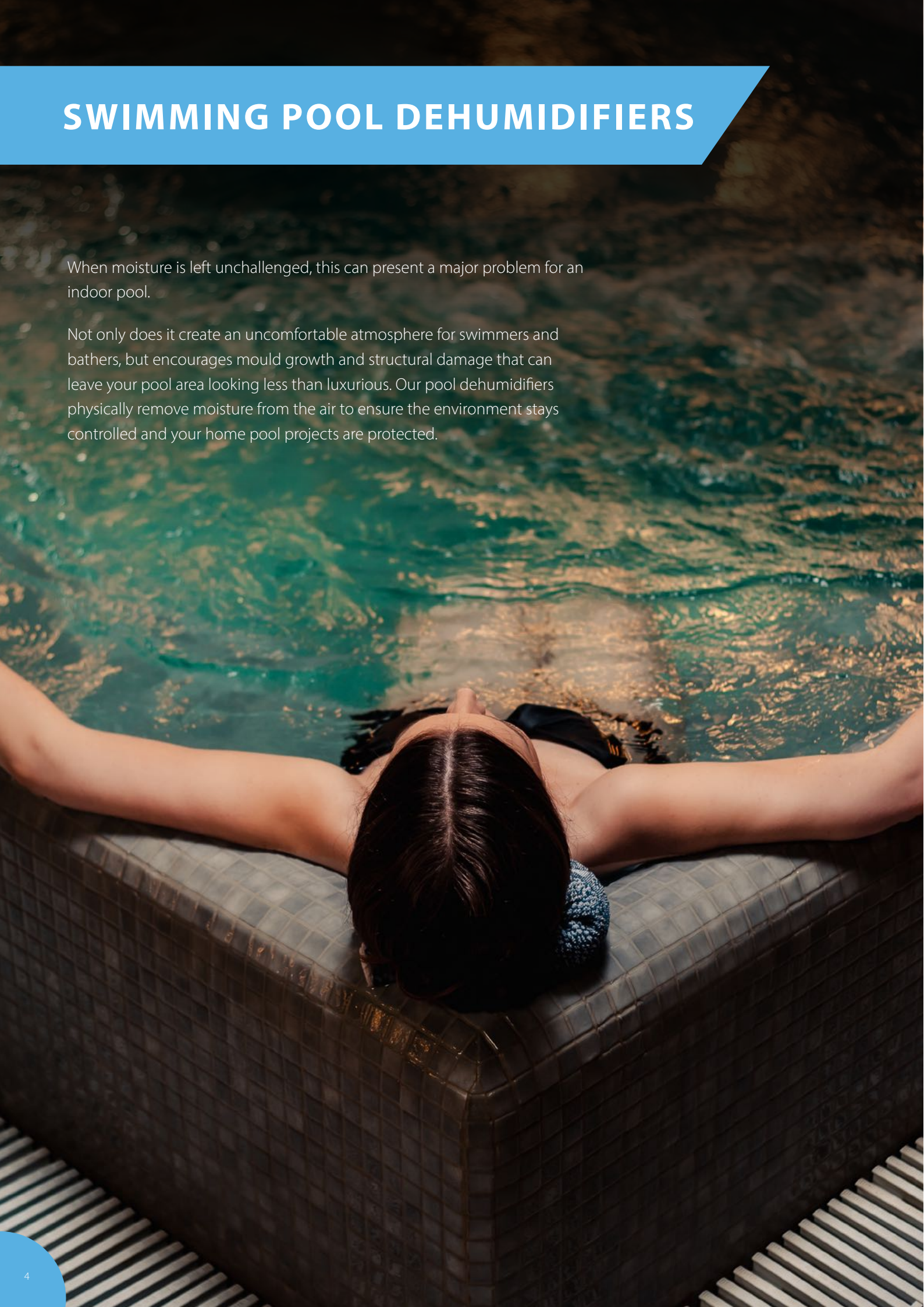
- European design quality
- Experts in climate control
- Extensive range of solutions

INDEX

SWIMMING POOL DEHUMIDIFIERS

When moisture is left unchallenged, this can present a major problem for an indoor pool.

Not only does it create an uncomfortable atmosphere for swimmers and bathers, but encourages mould growth and structural damage that can leave your pool area looking less than luxurious. Our pool dehumidifiers physically remove moisture from the air to ensure the environment stays controlled and your home pool projects are protected.

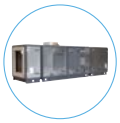


DEHUMIDIFICATION SOLUTIONS FOR:
PRIVATE AND COMMERCIAL SWIMMING POOLS


CDP 40-50-70


CDP 40T-50T-70T


CDP 75-125-165

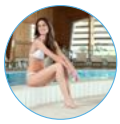

DANX AF

QUICK GUIDE

POOL TYPE


INDOOR ● ● ● ●

INSTALLATION


WALL-MOUNTED ● ●

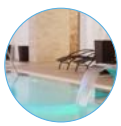

THROUGH-THE-WALL ●

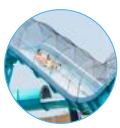

FLOOR-STANDING ●


DUCTED ● ●

APPLICATIONS


PRIVATE POOLS ● ● ●

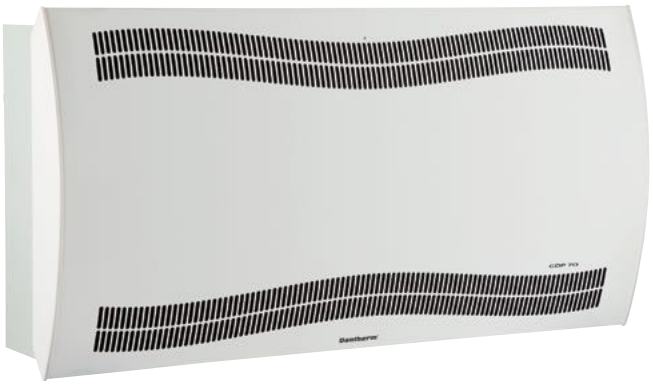

SPA & THERAPY ● ● ●


HOLIDAY PARKS & CAMPSITES ● ● ● ●


HOTELS, SCHOOLS & HEALTH CLUBS ● ● ● ●

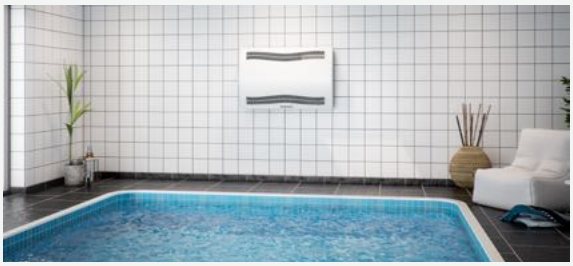
WALL-MOUNTED/FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS

CDP 40-50-70



CDP 70

The wall-mounted or floor-standing CDP 40-50-70 condensation dehumidifiers have been designed to blend well with any modern pool interior. Offering energy-efficient and near-silent humidity control, the units were conceived with a view to quality and ease of operation. Combined with highly efficient fans and compressors, the advanced remote control and monitoring options contribute to cost-efficient operation and significant energy savings.



- Low sound level
- Low energy consumption
- Evaporator and condenser coils are epoxy coated
- Metal parts are powder coated before assembly
- Optional remote control
- Integrated control of heating and humidity (ON/OFF)
- BMS Communication (Modbus)
- 230 V connection for exhaust fan , control valve and pump
- Continuous/Auto fan mode
- Simple troubleshooting by operational parameter visualization

Optional accessories

Wireless remote control DRC1- 093455

Floor mounting kit - 094322

Water heating coils - 094333, 094334, 094335

Control valve for water heating coil - 094340

Electric heating coils - 094336, 094337, 094338

Exhaust fans - 094339, 094341

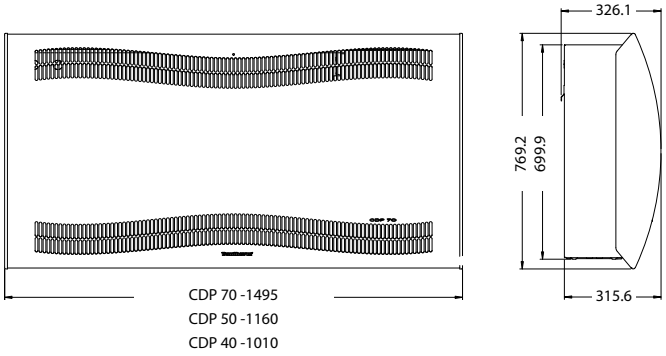
External RH/t sensor - 051710

Specifications	Units	CDP 40	CDP 50	CDP 70
Operating temperature range	°C	10-36	10-36	10-36
Operating humidity range	% RH	40-100	40-100	40-100
Dehumidification @ 28°C/60% RH	l/24h	34	52	69
SEC @ 28°C/60% RH	kWh/l	0.47	0.48	0.43
Air flow	m^3/h	400	680	900
Sound pressure level @1m	dB(A)	46	47	50
R407C gas weight/CO_2 equivalent	kg/t	0.7/1.24	0.9/1.60	1.2/2.13
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Product size (w x d x h)	mm	1010 x 326 x 770	1160 x 326 x 770	1495 x 326 x 770
Weight	kg	56.5	65.0	75.5

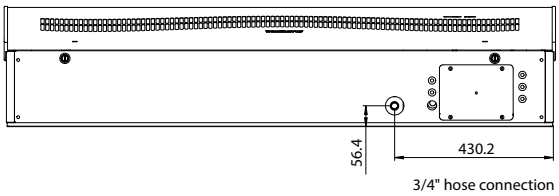
WALL-MOUNTED/FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS

CDP 40-50-70

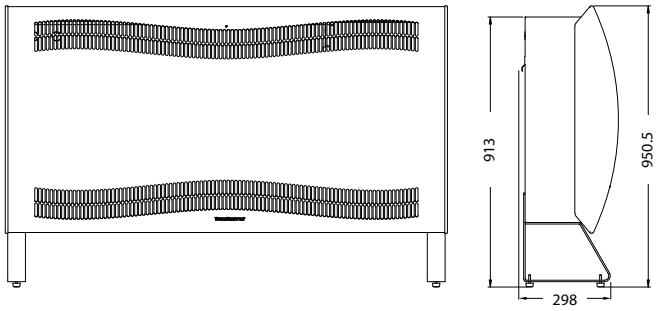
Dimensions (mm)



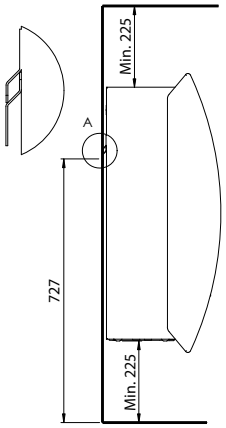
Drain outlet position



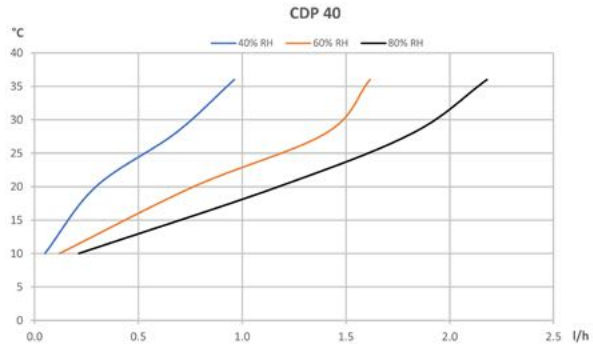
Floor mounting kit



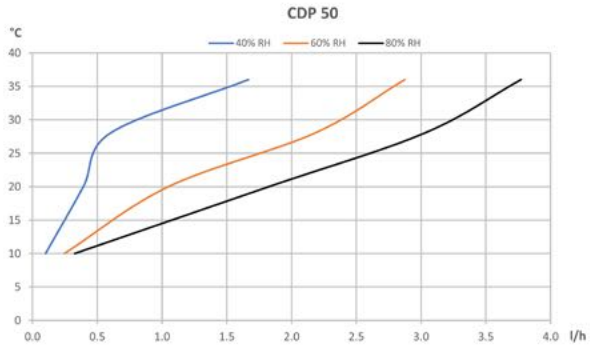
Recommended installation



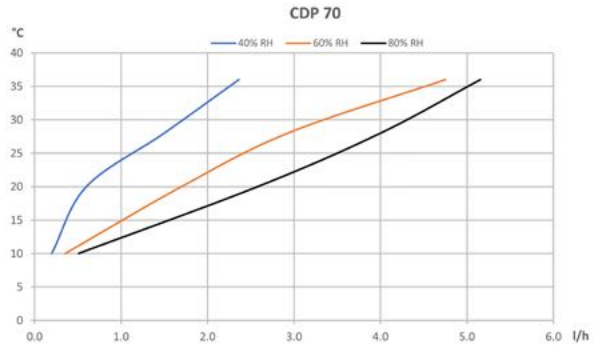
Performance data



Specific energy consumption (SEC):
0.47 kWh/l at 28°C & 60% RH



Specific energy consumption (SEC):
0.48 kWh/l at 28°C & 60% RH



Specific energy consumption (SEC):
0.43 kWh/l at 28°C & 60% RH

WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS

CDP 40T-50T-70T

CDP 40T

The CDP 40T-50T-70T condensation dehumidifiers have been designed for through-the-wall mounting in your swimming pool plant room. Designed as highly durable units, the dehumidifiers come with intuitive remote control and monitoring options for easy operation. Combined with very efficient fans and compressors this secures efficient operation and significant energy savings.

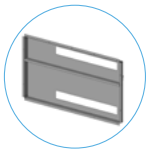
- Low sound level
- Low energy consumption
- Evaporator and condenser coils are epoxy coated
- Metal parts are powder coated before assembly
- Optional remote control
- Integrated control of heating and humidity (ON/OFF)
- BMS Communication (Modbus)
- Direct connection of 230 V
- Continuous/Auto fan mode
- Simple troubleshooting by operational parameter visualization

Optional accessories

Wireless remote control DRC1-093455

Water heating coils - 094333, 094334, 094335

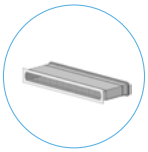
Control valve for water heating coil - 094340



Duct lead-in adapter - 094801, 094802 094804

Electric heating coils - 094336, 094337, 094338

Exhaust fans - 094339, 094341



Through-wall duct kit with filter, extension kit and alu grill - 094271, 094243 093508

External RH/t sensor - 051710

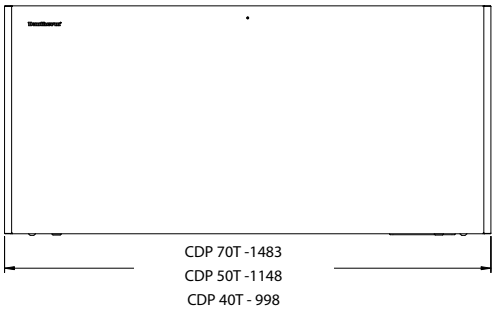
Specifications	Units	CDP 40T	CDP 50T	CDP 70T
Operating temperature range	°C	10-36	10-36	10-36
Operating humidity range	% RH	40-100	40-100	40-100
Dehumidification @ 28°C/60% RH	l/24h	34	52	69
SEC @ 28°C/60% RH	kWh/l	0.47	0.48	0.43
Air flow	m^3/h	400	680	900
R407C gas weight/CO_2 equivalent	kg/t	0.7/1.24	0.9/1.60	1.2/2.13
Sound pressure level @1m	dB(A)	43	44	47
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Product size (w x d x h)	mm	998 x 304 x 700	1148 x 304 x 700	1483 x 304 x 700
Weight	kg	57.5	66.0	77.5

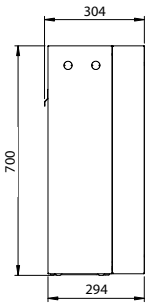
Dantherm CLIMATE SOLUTIONS

WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS

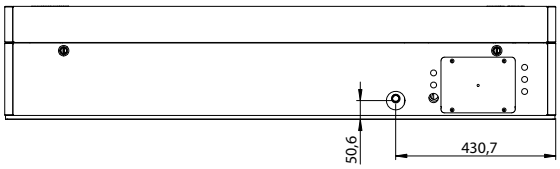
CDP 40T-50T-70T

Dimensions (mm)

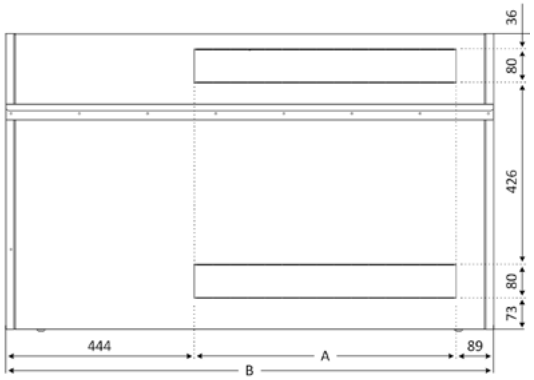


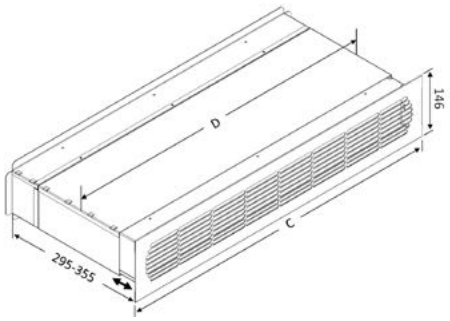


Drain outlet position



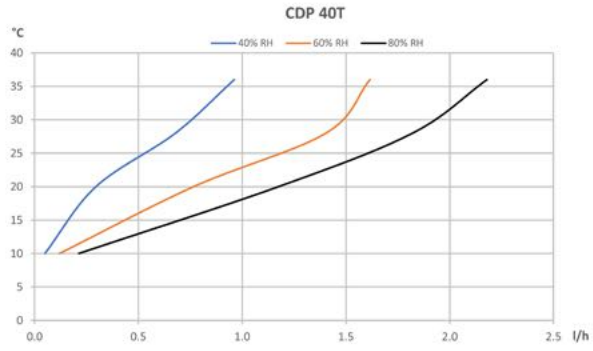
Duct kits



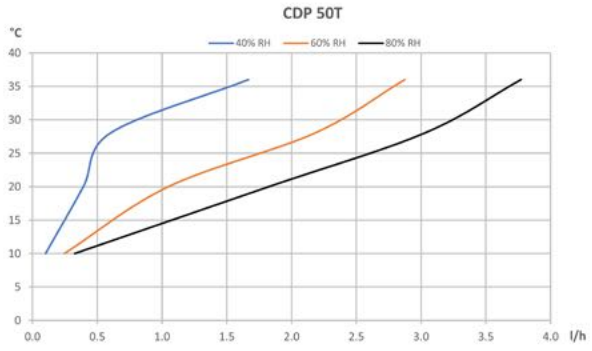


Model	A	B	C	D	Wall opening
CDP 40T	466	998	642	603	610 x 110
CDP 50T	616	1147	791	753	760 x 110
CDP 70T	753	1483	1126	1088	1095 x 110

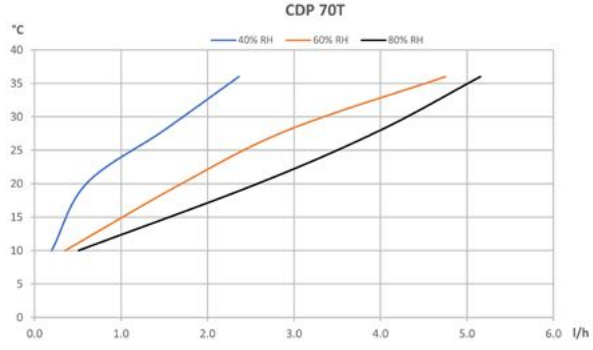
Performance data



Specific energy consumption (SEC):
0.47 kWh/l at 28°C & 60% RH



Specific energy consumption (SEC):
0.48 kWh/l at 28°C & 60% RH



Specific energy consumption (SEC):
0.43 kWh/l at 28°C & 60% RH

HIGH CAPACITY DUCTED SWIMMING POOL DEHUMIDIFIERS

CDP 75-125-165

CDP 75

The CDP 75-125-165 condensation dehumidifiers have been designed for ducted installation in your swimming pool plant room. Ideal for hotel pools, private pools and therapy pools, this dehumidifier range is renowned for its build quality and energy efficiency.

The CDP 75-125-165 range will be upgraded in 2023!
Improvements include an integrated touch panel for added user friendliness, R454C refrigerant as well as EC fan and microchannel condenser for better performance, reduced maintenance and minimal energy consumption.

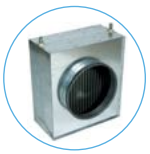
- Hot-galvanized, powder painted and double-skinned canbinet with 50 mm insulation
- Corrosion-protected evaporator and condenser coils
- The condensate outlet is located on the air inlet side
- The outlet stub can be connected to a water hose
- Air inlet through a filter placed in a removable frame
- Dry air outlet positioned either horizontally (through the side) or vertically (through the top) of the unit
- Moveable inspection access
- Fresh air (15%) inlet possible through fresh air duct
- Optional water-cooled condenser on request
- Rotary/reciprocating compressor
- Radial fan

Optional accessories

Room hygrostat - 516301

Duct hygrostat - 516310

Room thermostat - 513321



Water heating coil - 570027, 570028, 570029

Shock-absorbing floor mounting kit - 175367, 175368, 175369

Wall mounting kit - 175381, 175382

Defrost sensor - 175401

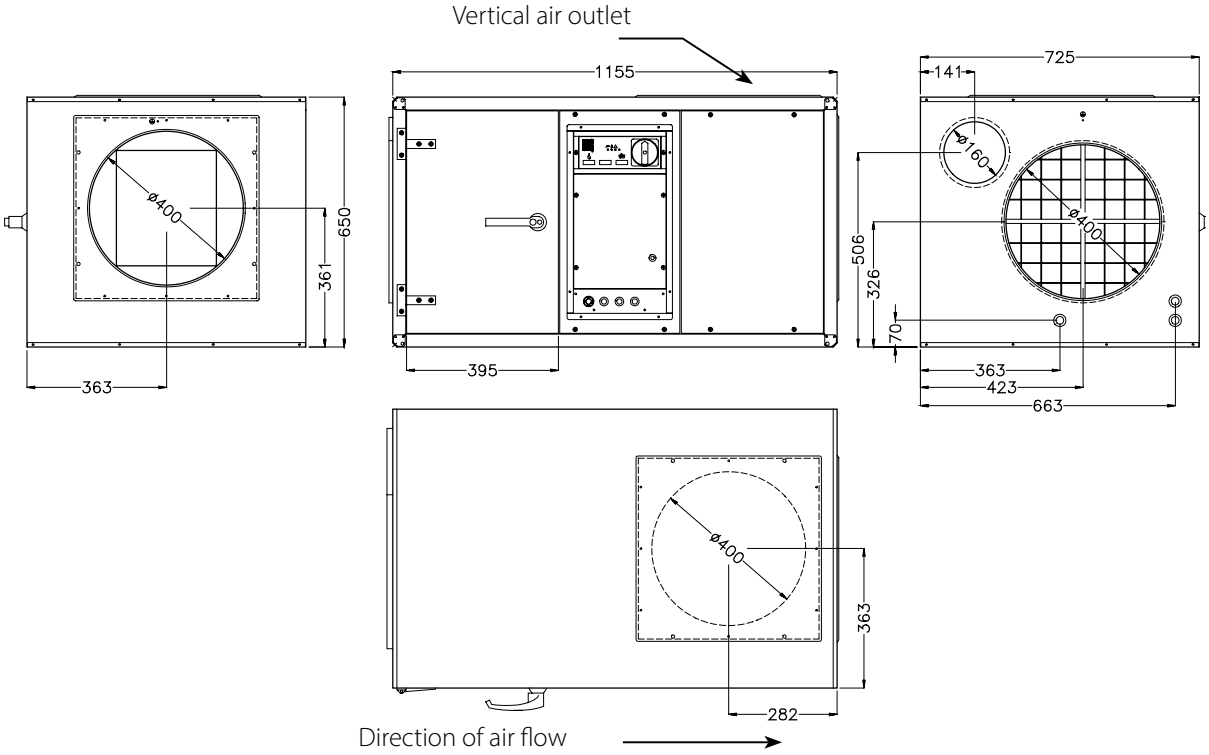
Failure monitoring kit - 019401

Specifications	Units	CDP 75	CDP 125	CDP 165
Operating temperature range	°C	20-38	20-38	20-38
Operating humidity range	% RH	40-100	40-100	40-100
Dehumidification @ 28°C/60% RH	l/24h	74	124	162
Air flow	m^3/h	1,500	2,500	3,600
Power supply	V/Hz	230/1ph/50	230/1ph/50 or 400/3ph/50	400/3ph/50
Sound pressure level @1m	dB(A)	58	60	63
R407C gas weight/CO_2 equivalent	kg/t	2.1/3.73	5.2/9.22	6.8/12.06
Water-cooled condenser		Optional	Optional	Optional
Product size (w x d x h)	mm	1155 x 725 x 650	1300 x 900 x 850	1400 x 1010 x 975
Weight	kg	130	160	190

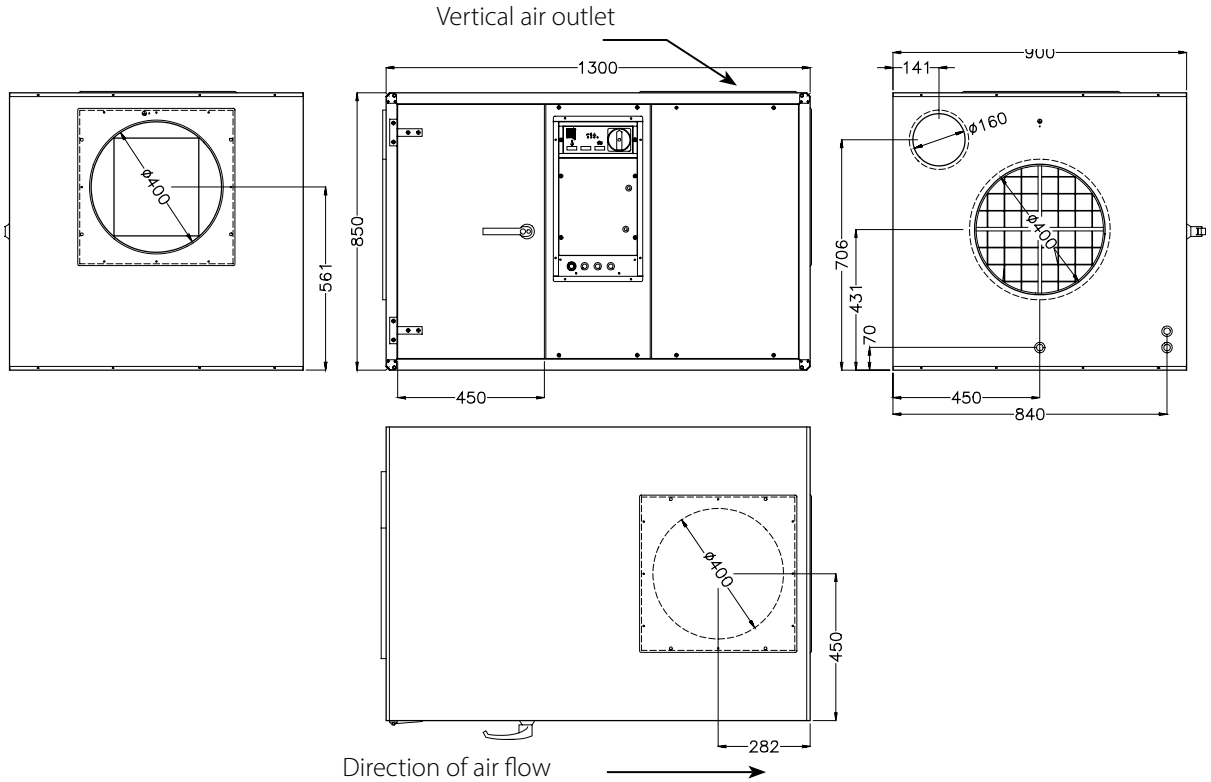
Dantherm CLIMATE SOLUTIONS

CDP 75-125-165

CDP 75 dimensions (mm)

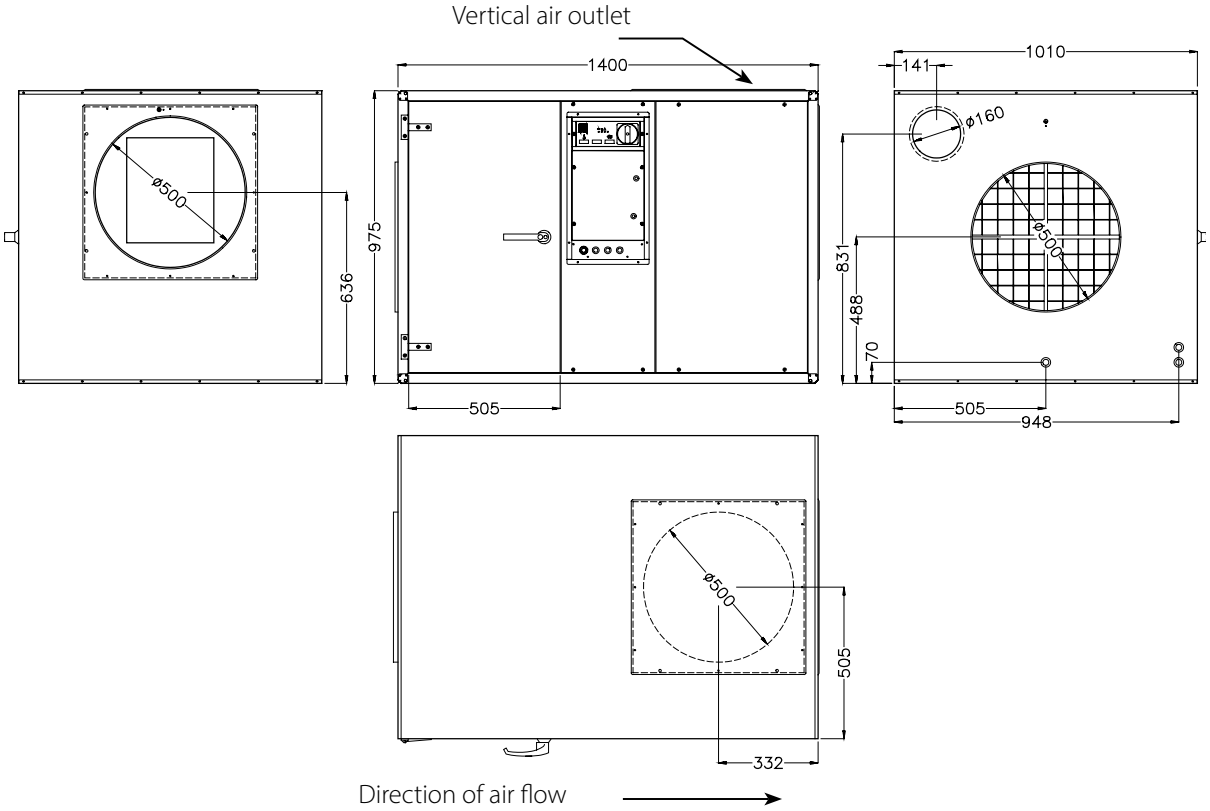


CDP 125 dimensions (mm)

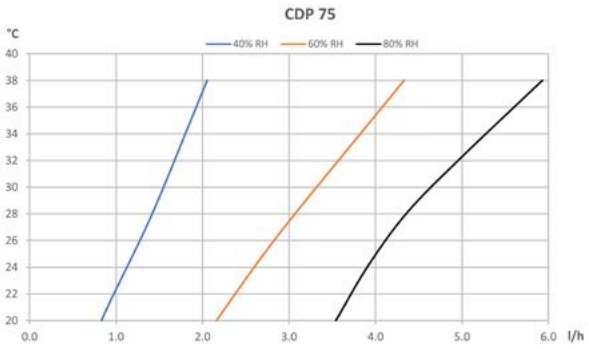


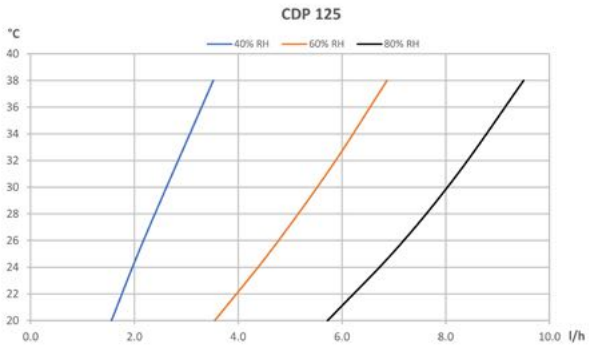
CDP 75-125-165

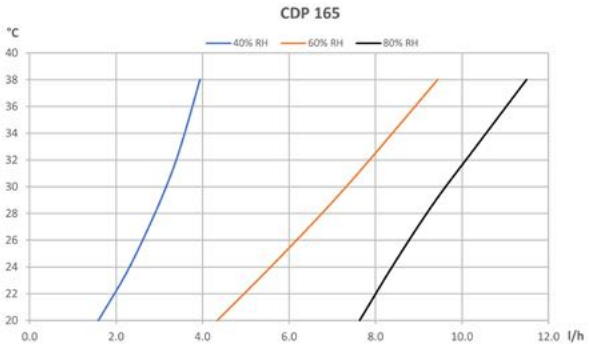
CDP 165 dimensions (mm)



Performance data







HIGH CAPACITY DUCTED SWIMMING POOL DEHUMIDIFIERS

DANX AF

DANX AF

The DanX AF is a very effective heat pump dehumidification system, which perfectly controls the humidity and indoor temperature while offering significant running cost reductions. This system is the obvious choice where only limited space is available, or for pools with limited use, for instance hotel pools. Optionally it is also possible to install the unit suspended under the ceiling of the pool room.

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 efficiently reused.

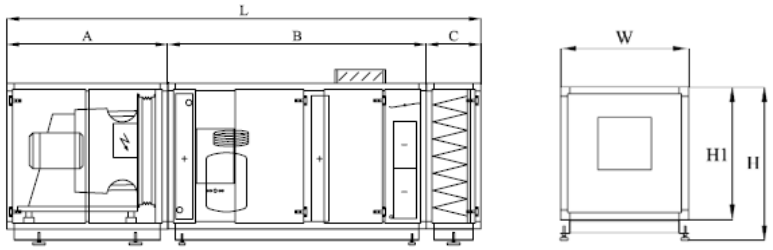
- User-friendly control system that monitors and controls temperature and humidity automatically. The custom-built software runs the unit as efficiently as possible under different conditions.
- BMS communication with either Modbus or BACnet. All internal terminal wiring done from factory.
- Refrigerant circuit with optional built-in water cooled condenser for heating of domestic water and external condenser for hot countries.
- Optional DX or water-cooling coil.
- Highly energy-efficient EC plug fans.
- Highly efficient bag filters with a low pressure drop.
- Fresh air (30%) inlet possible through fresh air duct.
- Load-bearing frame construction module with galvanised, powder-painted sandwich panels with 50 mm mineral wool insulation and bottom frame with adjustable feet.
- Specifically designed to withstand the aggressive environments (Corrosion class C4 according to EN/ISO 12944-2), with epoxy coated, coils with aluminium frame, pre-painted fins and with all fasteners, bolts and nuts specially protected.
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service.
- Modular unit for easy and quick installation with all sensors and electrical components already connected. Separate control panel fitted with cables and plugs for quick electrical connection between unit and panel.

Specifications	Units	AF 3/6	AF 5/10	AF 5/10s	AF 7/14	AF 7/14s	AF 12/24	AF 12/24s
Operating temperature range	°C	22-36	22-36	22-36	22-36	22-36	22-36	22-36
Operating humidity range	%	50-80	50-80	50-80	50-80	50-80	50-80	50-80
Dehumidification @ 28°C/60% RH	l/h	13	20	25	33	39	52	62
Air flow	m^3/h	4,850	7,300	9,500	12,000	14,000	19,000	24,000
Available duct pressure	Pa	300	300	300	300	300	300	300
Outdoor air	%	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
R407C gas weight/CO_2 equivalent	kg/t	9/15.97	14/24.84	14/24.84	22/39.03	22/39.03	32/56.77	32/56.77
Max. power consumption	kW	8.6	12.3	16.1	22.1	24.1	31.7	42.8
Height	mm	1115	1115	1115	1195	1195	1485	1485
Width	mm	3380	3380	3380	3850	3850	4125	4125
Depth	mm	880	1400	1400	1900	1900	2200	2200
Weight	kg	575	800	800	1125	1200	1650	1675

HIGH CAPACITY DUCTED SWIMMING POOL DEHUMIDIFIERS

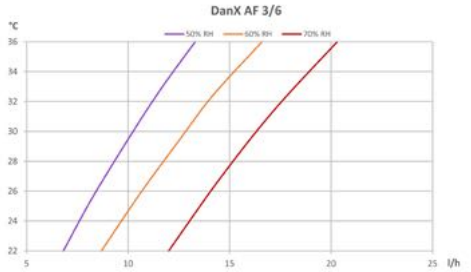
DANX AF

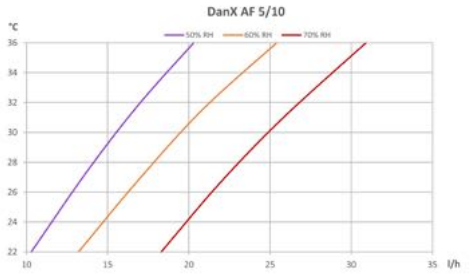
Dimensions (mm)

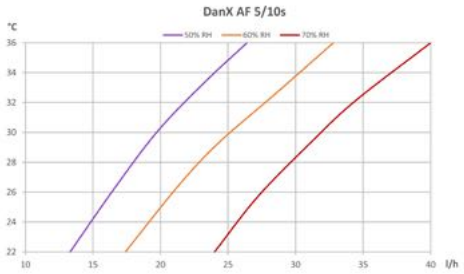


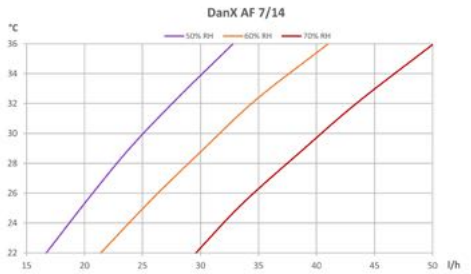
DanX AF	A: mm	B: mm	C: mm	L: mm	W: mm	H: mm	H1: mm	Weight: kg
3/6	985	1920	475	3380	880	1115	915	575
5/10	985	1920	475	3380	1400	1115	915	800
5/10s	985	1920	475	3380	1400	1115	915	800
7/14	1125	2250	475	3850	1900	1195	995	1125
7/14s	1125	2250	475	3850	1900	1195	995	1200
12/24	1400	2250	475	4125	2200	1485	1275	1650
12/24s	1400	2250	475	4125	2200	1485	1275	1675

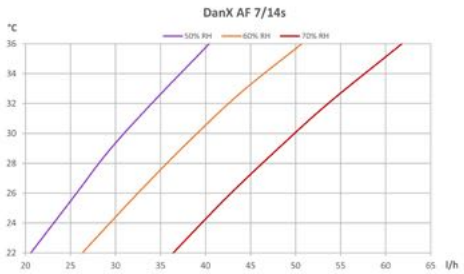
Performance data

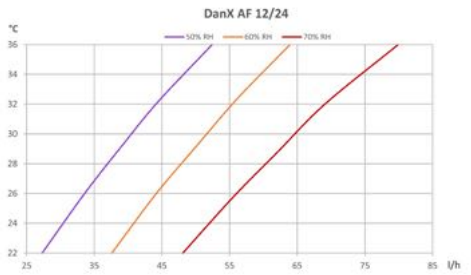


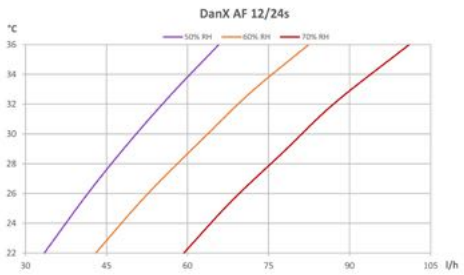












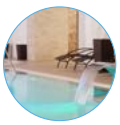
Dantherm CLIMATE SOLUTIONS

SWIMMING POOL HEAT PUMPS

Outdoor pools need heating for comfort, but as heat is lost to the atmosphere, new energy must be constantly supplied to keep the pool warm. Heat pumps are recognised as the most sustainable way to dynamically heat swimming pool water, and with a Dantherm heat pump, you ensure this with reduced operating and energy costs

Our residential swimming pool heaters are easy to install on new pools and to retrofit for existing swimming pool systems, with minimal maintenance required.

HEATING AND COOLING SOLUTIONS FOR:
PRIVATE AND DOMESTIC POOLS UP TO 120M^2

QUICK GUIDE	 HPP-i HEAT PUMP	 HPP-iw HEAT PUMP
POOL TYPE		
 OUTDOOR	●	●
 INDOOR	●	●
 ABOVE GROUND	●	●
OPERATION		
 HEATING	●	●
 COOLING	●	●
 ALL YEAR HEATING		●
APPLICATIONS		
 PRIVATE POOLS	●	●
 SPAS	●	●
 THERAPY & WELLNESS	●	●

INVERTER HEAT PUMPS

HPP-i 8-12-16

HPP-i

The low energy consumption coupled with high heat production makes the HPP-i heat pump an environmentally friendly way to heat your swimming pool.

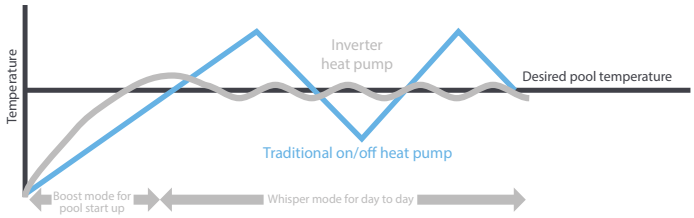
Unlike alternative ways of heating pools, the HPP-i heat pump requires no fuel storage tank or high capacity electrical supply. It produces no smell, fumes or CO_2 gases.

HPP-i heat pumps are designed to work all year round when temperatures are above -5°C. Thus, the pool season can be extended for several months.

Rapid installation, flexible operation

Dantherm HPP-i heat pumps are easy to install and fully self-contained units. When it comes to operation, the HPP-i units offer a quiet, high efficient, reliable, and safe performance.

Temperature control chart



- Inverter heat pump
- Average COP 9.7 = 2 x more efficient than on/off heat pumps
- R32 = 675 GWP, (Global Warming Potential)
- Performance ratings from 9.5 to 25kW
- 9-11 dB(A) sound reduction compared to an equivalent on/off heat pump, with 'Whisper Mode'
- Multifunction operation functions can be set to heating, heat/cool and cooling
- Soft start-up
- Aluminium alloy
- Built-in Wi-Fi module
- Winter cover included
- Designed to work all year round

Controls

The HPP-i heat pump has an integrated controller with a touchscreen user interface.

The basic functions are:

- Function settings for: Heating, Cooling or Heat/Cool
- Parameter adjustment

The PoolTherm App for our Dantherm HPP-i inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Optional accessories

Remote LED control kit w/10m cable 109804

Rubber feet (kit of 4) 108112

Drainage kit 1005558

Water unit connectors 1005629

Dantherm CLIMATE SOLUTIONS

HPP-i 8-12-16

Refrigerant gas

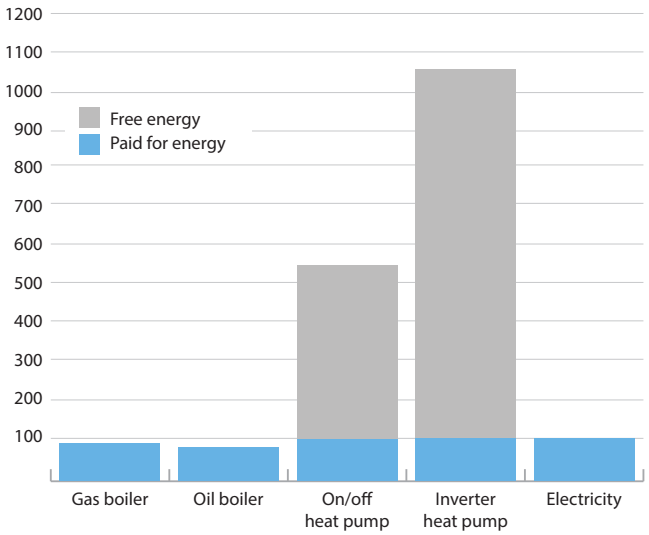
Our heat pumps use the low Global Warming Potential (GWP) refrigerant R32.

This refrigerant:

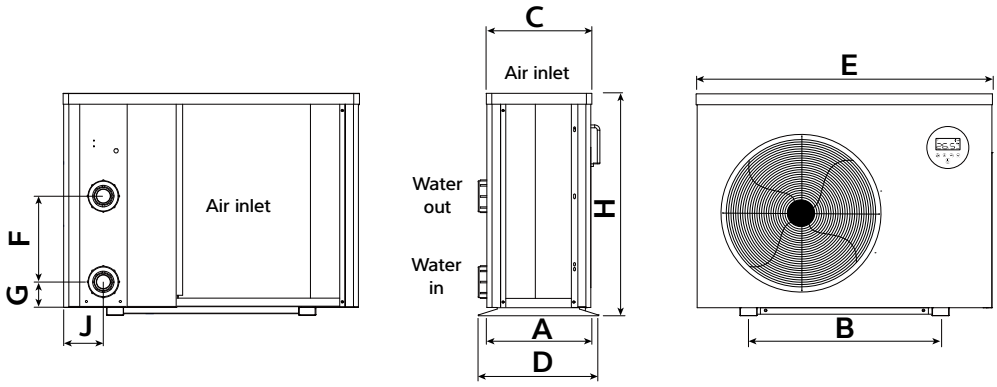
- Has a good GWP (675)
- Has zero ozone depleting potential (ODP)
- Requires less refrigerant volume per kW
- Is easier to reuse and recycle

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Heating method efficiency chart



Dimensions (mm)



Model	A	B	C	D	E	F	G	H	J
HPP-i 8	334	560	318	359	864	250	74	648	116
HPP-i 12	334	560	318	359	864	290	74	648	116
HPP-i 16	334	590	318	359	954	390	74	748	116

INVERTER HEAT PUMPS

HPP-i 8-12-16

CE

Specifications	Units	HPP-i 8	HPP-i 12	HPP-i 16
Air temperature range	°C	-5-43	-5-43	-5-43
Water temperature range	°C	12-40	12-40	12-40
Performance – air 27°C 80% RH, water 27°C				
Heating capacity	kW	9.5	13.0	20.0
COP range		13.2-5.4	13.5-5.6	13.5-5.7
Average COP at 50% speed		8.9	9.7	9.3
Performance – air 15°C 70% RH, water 26°C				
Heating capacity	kW	7.0	9.5	13.5
COP range		6.9-4.2	7.0-4.0	7.0-4.2
Average COP at 50% speed		6.3	6.1	6.3
Performance – air 5°C 70% RH, water 10°C				
Heating capacity	kW	4.1	5.6	7.9
Performance – air 35°C 80% RH, water 28°C				
Cooling capacity	kW	3.9	5.2	7.4
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Rated input power	kW	0.3-1.79	0.40-2.38	0.57-3.21
Rated input current	A	1.38-7.58	1.82-10.80	2.60-14.61
Maximum input current	A	9.5	12.5	19.5
Water flow	m^3/h	3.0-5.0	4.0-6.0	7.0-10.0
Water connection	"/mm	1½/50	1½/50	1½/50
Compressor		Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium
R32 gas weight/CO_2 equivalent	kg/t	0.6/0.41	0.9/0.61	1.1/0.74
Sound pressure level @10m	dB(A)	19.6-31.5	21.9-32.0	24.3-36.1
Sound pressure level @1m	dB(A)	39.6-51.5	41.9-52.0	44.3-56.1
Product size (w x d x h)	mm	864 x 359 x 648	864 x 359 x 648	954 x 359 x748
Weight	kg	47	49	68

Dantherm CLIMATE SOLUTIONS

INVERTER HEAT PUMPS

HPP-iw 12-16-22-28

HPP-iw

The low energy consumption coupled with high heat production makes the HPP-iw heat pump an environmentally friendly way to heat your swimming pool.

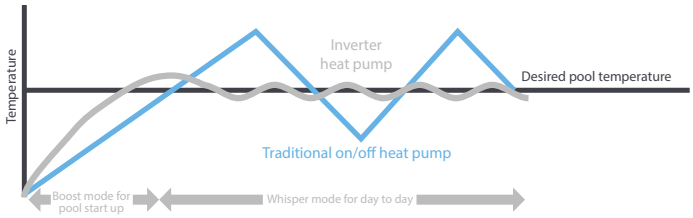
Unlike alternative ways of heating pools, the HPP-iw heat pump requires no fuel storage tank or high capacity electrical supply. It produces no smell, fumes or CO_2 gases.

HPP-iw heat pumps are designed to work all year round when temperatures are above -10°C. Thus, the pool season can be extended for several months.

Rapid installation, flexible operation

Dantherm HPP-iw heat pumps are easy to install and fully self-contained units. When it comes to operation, the HPP-iw units offer a quiet, high efficient, reliable, and safe performance.

Temperature control chart



- Inverter heat pump
- Average COP 10.3 = 2 x more efficient than on/off heat pumps
- R32 = 675 GWP, (Global Warming Potential)
- Increased range of performance ratings from 15 to 36kW
- 9-11 dB(A) sound reduction compared to an equivalent on/off heat pump, with 'Whisper Mode'
- Multifunction operation functions can be set to heating, heat/cool and cooling
- Soft start-up
- Aluminium alloy
- Built-in Wi-Fi module
- Winter cover included

Benefits

- All year heating for outdoor and indoor pools
- Can operate down to -10°C ambient air temperature
- High heating performance at lower temperatures – ideal for quick pool heat up at the start of the season
- Pool heating at altitude
- Higher cooling capacity
- Most efficient models – highest COP

PoolTherm

The PoolTherm App for our Dantherm HPP-i inverter heat pumps is available on Android and iOS. Simply search for 'PoolTherm' in App Store or Google Play and download it today!

Optional accessories

Remote LED control kit w/10m cable 109804

Rubber feet (kit of 4) 108112

Drainage kit 1005558

Water unit connectors 1005629

INVERTER HEAT PUMPS

HPP-iw 12-16-22-28

Refrigerant gas

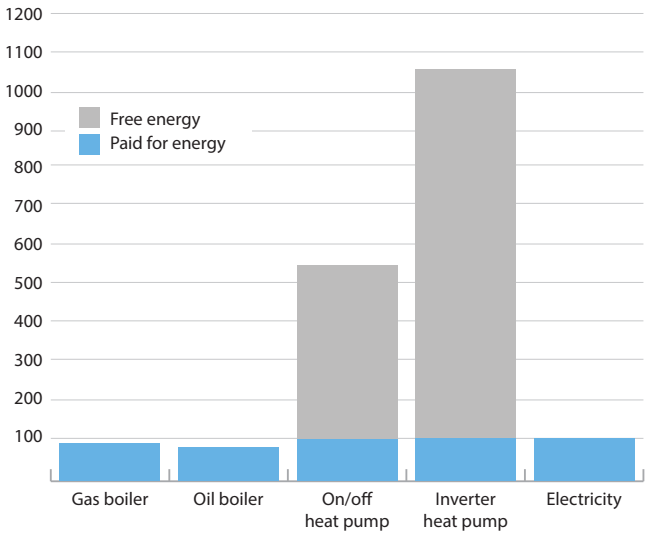
Our heat pumps use the low Global Warming Potential (GWP) refrigerant R32.

This refrigerant:

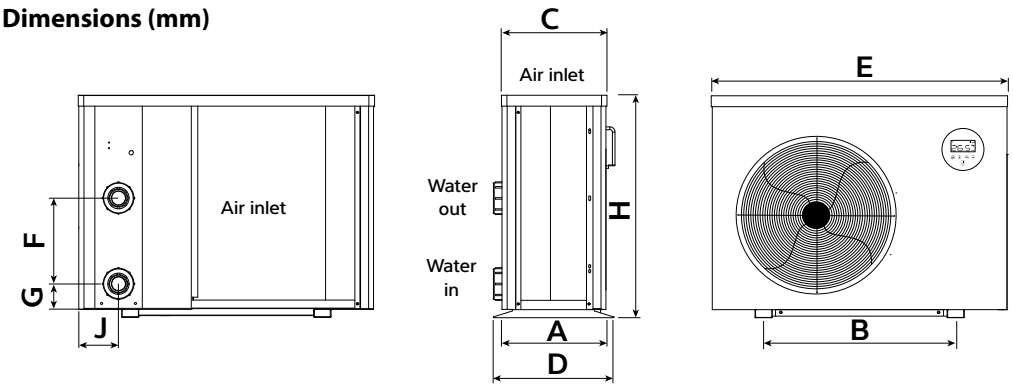
- Has a good GWP (675)
- Has zero ozone depleting potential (ODP)
- Requires less refrigerant volume per kW
- Is easier to reuse and recycle

Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Heating method efficiency chart



Dimensions (mm)



Model	A	B	C	D	E	F	G	H	J
HPP-iw 12	334	590	318	359	954	340	74	648	107
HPP-iw16	404	590	388	429	954	460	74	755	107
HPP-iw 22	404	720	388	429	1084	620	74	948	107
HPP-iw 28	514	790	498	539	1154	650	74	948	128

Dantherm CLIMATE SOLUTIONS

INVERTER HEAT PUMPS

HPP-iw 12-16-22-28

CE

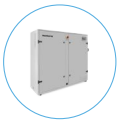
Specifications	Units	HPP-iw 12	HPP-iw 16	HPP-iw 22	HPP-iw 28
Air temperature range	°C	-10-43	-10-43	-10-43	-10-43
Water temperature range	°C	12-40	12-40	12-40	12-40
Performance – air 27°C 80% RH, water 27°C					
Heating capacity	kW	15.0	21.0	27.5	36.0
COP range		15.0-6.6	14.8-6.4	15.0-6.8	14.8-6.0
Average COP at 50% speed		10.6	10.3	10.3	10.2
Performance – air 15°C 70% RH, water 26°C					
Heating capacity	kW	10.5	14.5	18.0	23.9
COP range		7.7-4.6	7.1-4.6	7.5-4.6	7.5-4.6
Average COP at 50% speed		6.4	6.3	6.3	6.3
Performance – air 5°C 70% RH, water 10°C					
Heating capacity	kW	7.5	9.6	11.9	16.0
Performance – air -10°C 70% RH, water 23°C					
Heating capacity	kW	4.6	5.9	7.3	8.8
Performance – air 35°C 80% RH, water 28°C					
Cooling capacity	kW	6.7	9.5	11.9	16.0
Power supply	V/Hz	230/1ph/50	230/1ph/50	400/3ph/50	400/3ph/50
Rated input power	kW	0.27-2.28	0.41-3.15	0.48-3.91	0.64-5.20
Maximum input current	A	13.5	17.0	7.0	9.5
Water flow	m^3/h	5.0-7.0	8.0-10.0	10.0-12.0	12.0-18.0
Water connection	"/mm	1½/50	1½/50	1½/50	1½/50
Compressor		Inverter	Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium	Titanium
R32 gas weight/CO_2 equivalent	kg/t	0.9/0.61	1.2/0.81	2.0/1.35	2.7/1.82
Sound pressure level @10m	dB(A)	20.8-24.5	20.4-33.7	23.0-34.4	22.1-34.2
Product size (w x d x h)	mm	954 x 359 x 648	954 x 429 x 755	1084 x 429 x 948	1154 x 539 x 948
Weight	kg	52	68	93	120

AIR HANDLING UNITS

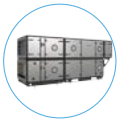
High levels of relative humidity can be extremely damaging to a pool environment, but with a carefully designed ventilation solution, humidity is kept at a comfortable level.

A swimming pool air handling unit must carry out its primary task of dehumidifying the pool space air, be designed and constructed to withstand the pool air environment, and provide a continuously modulated quantity of heated or cooled fresh air for the comfort of all who use it. We can advise on the most effective domestic or commercial pool ventilation products from our selection of heat pump and fresh air technologies.

ENVIRONMENTAL CONTROL SOLUTIONS FOR:
SWIMMING POOLS AND COMMERCIAL USE


DANX 1-2-3 XD


DANX XKS


DANX CF


DANX 1-2-3 HP


DANX XWPS/XWPRS

QUICK GUIDE

POOL TYPE


INDOOR ● ● ● ● ●

OPERATION


WITH HEAT RECOVERY ● ● ●


WITH HEAT RECOVERY AND HEAT PUMP ● ●

APPLICATIONS


PRIVATE POOLS ● ●


PUBLIC POOLS ● ● ● ● ●


HOTELS, SCHOOLS & HEALTH CLUBS ● ● ● ● ●


LEISURE CENTRES & WATER PARKS ● ● ●


GENERAL INDUSTRY AND PRODUCTION ● ● ● ● ●

AIR HANDLING UNITS WITH HEAT RECOVERY

DANX 1-2-3 XD

DANX 1/2/3 XD

DanX XD with double crossflow heat exchanger

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

For both DanX HP and DanX XD

The built-in mixing function takes care not to add any more outdoor air than necessary to provide a comfortable indoor climate. Free cooling is also an option during the summer, where the unit can add up to 100% outdoor air into the pool area through a bypass. The unit's compact, integrated design enables optimal installation in the technical room. Convenient top or side connections ensure easy access to ducts.

Optional accessories

- Water trap - 092447
- Fire thermostat 40 °C / 70 °C - 101277
- Attendence 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 user friendly control system for high-quality demand management. Automatic monitoring and control of pool hall temperature and humidity. The custom-built software runs the unit as efficiently as possible under different conditions.
- Double crossflow heat exchangers with a high efficiency of more than 95% and a low pressure drop.
- Built-in bypass for free cooling in 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 exchanger, heating coil with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts, 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 – all sensors and electrical components pre-connected.
- BMS communication with either Modbus or BACnet.

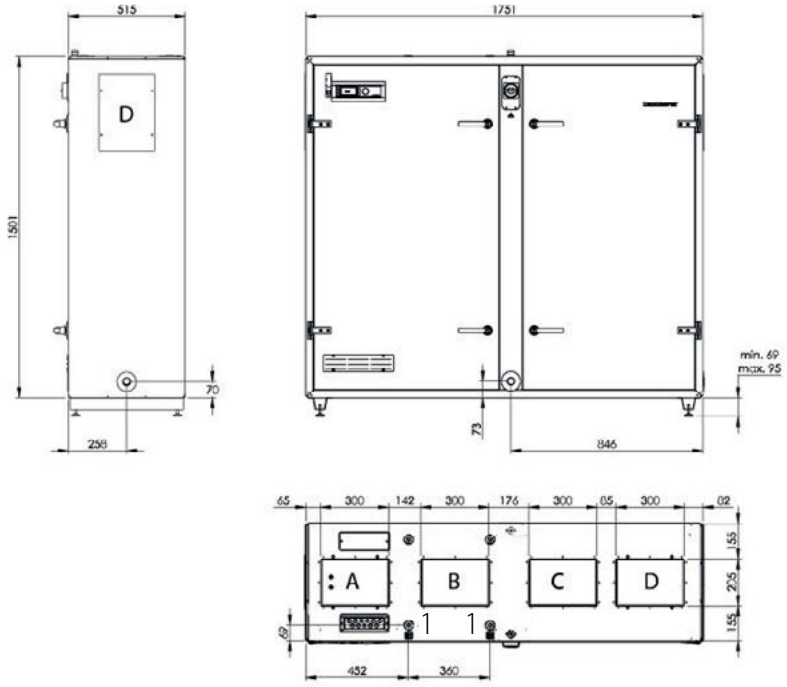
Specifications	Units	DANX 1 XD	DANX 2 XD	DANX 3 XD
Nominal air volume	m^3/h	1,000	1,750	2,750
Max. air volume	m^3/h	1,300	2,100	3,700
Max. external duct pressure*	Pa	350	350	350
Outdoor air volume	%	0-100	0-100	0-100
Dehumidification capacity VDI 2089**	kg/h	7	11	18
Max. power consumption	kW	1.1	1.2	1.9
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
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	254	344	465

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

Dantherm CLIMATE SOLUTIONS

DANX 1-2-3 XD

DanX 1 XD dimensions (mm)

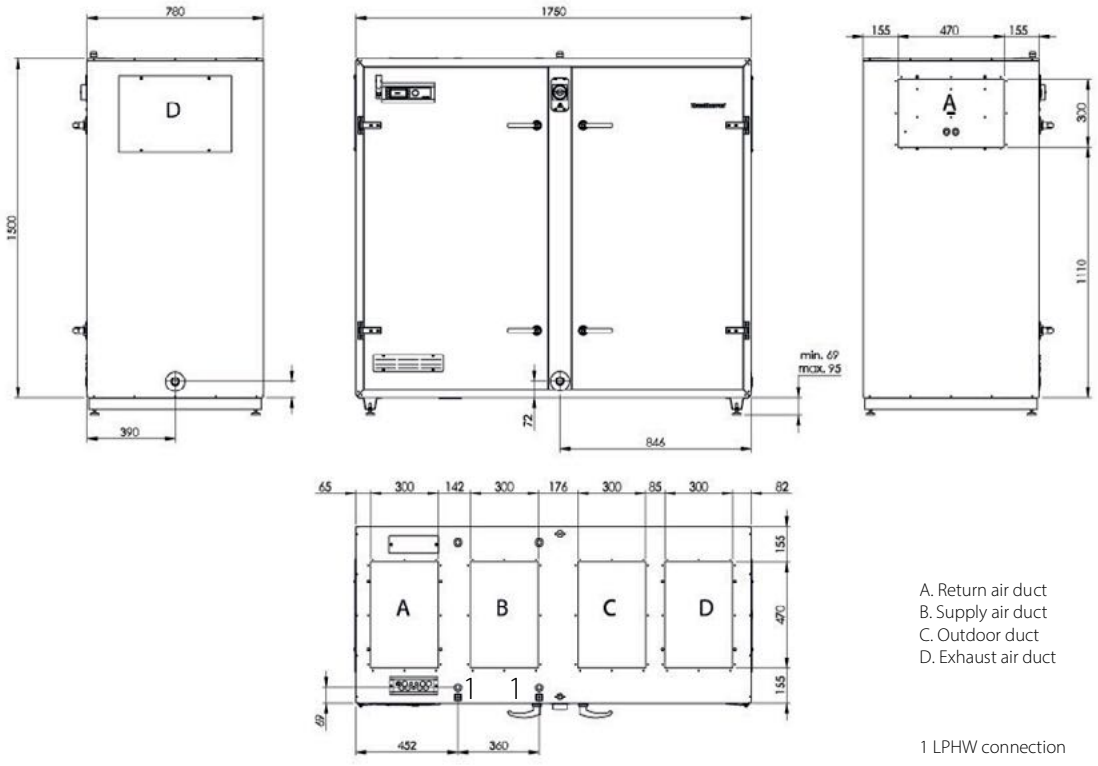


A. Return duct air
B. Supply duct air
C. Outdoor duct
D. Exhaust air duct

1 LPHW connection

The unit shown in the picture is left hand position.

DanX 2 XD dimensions (mm)



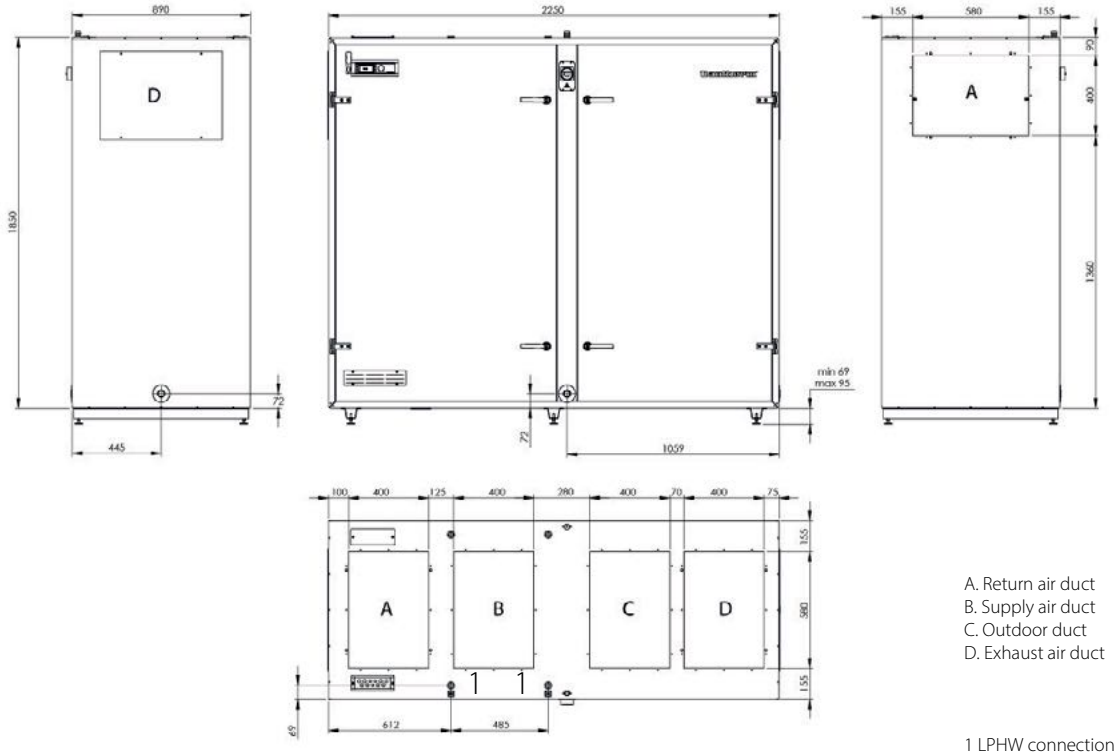
A. Return air duct
B. Supply air duct
C. Outdoor duct
D. Exhaust air duct

1 LPHW connection

The unit shown in the picture is left hand position.

DANX 1-2-3 XD

DanX 3 XD 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.

AIR HANDLING UNITS WITH HEAT RECOVERY

DANX XKS

DANX XKS

- User-friendly control system for high-quality demand management. Automatic monitoring and control of temperature and humidity of the pool hall.
- Crossflow heat exchanger with a high efficiency of up to 75% and a low pressure drop.
- Built-in bypass for free cooling in the summertime.
- Highly energy-efficient EC plug fans.
- Efficient bag filters in different lengths and qualities with low pressure drops are available.
- Load-bearing frame construction module 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 exchanger, heating coil with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts, nuts.
- IP66 damper motors designed for swimming pool use.
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service.
- Modular unit for easy and quick installation with all sensors and electrical components already connected. Separate control panel fitted with cables and plugs for quick electrical connection between unit and panel.
- BMS communication with either Modbus or BACnet.

DanX XKS with crossflow heat exchanger

The DanX XKS is a very effective outdoor air dehumidification system with highly efficient crossflow heat exchanger. This system perfectly controls the humidity and indoor temperature while offering significant running cost reductions due to real energy savings of up to 80%. The integrated mixing function ensures that only the exact quantity of outdoor air needed is supplied – which keeps running costs at a minimum.

Free cooling is also an option during summer, when the unit can add up to 100% outdoor air into the pool area through the integrated bypass.

For countries with high outdoor summer temperatures, the system can be equipped with an additional cooling coil for further dehumidification and air cooling.

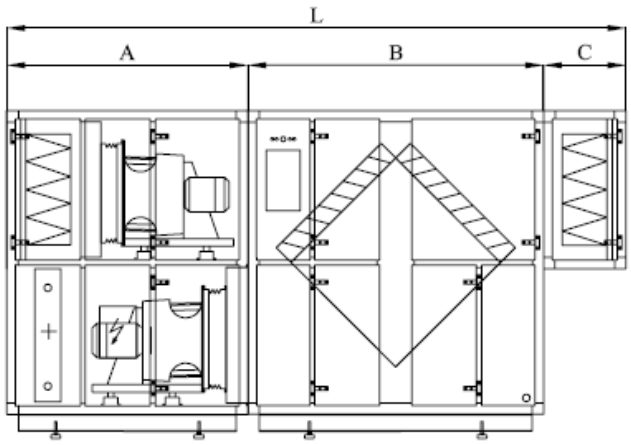
Optionally, we offer various fan types, filter qualities and coils to perfectly match to the requirements.

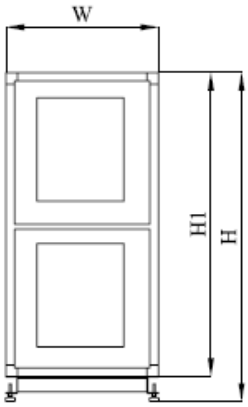
Specifications	Units	2/4 XKS	3/6 XKS	5/10 XKS	7/14 XKS	9/18 XKS	12/24 XKS	16/32 XKS
Nominal air volume	m^3/h	3,350	4,500	8,400	12,500	15,500	21,500	25,500
Max. air volume	m^3/h	4,500	6,000	10,000	14,000	20,000	26,000	32,000
Outdoor air volume	%	0-100	0-100	0-100	0-100	0-100	0-100	0-100
Dehumidification capacity VDI 2089*	kg/h	22	29	54	81	100	139	165
Max. power consumption**	kW	2.2	3.0	6.0	11.0	15.0	22.0	60.0
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Height	mm	1600	1960	1960	2120	2250	2760	3010
Width	mm	3101	3572	3572	3712	4080	4270	5100
Depth	mm	880	880	1400	1900	1800	2200	2200
Weight	kg	850	925	1300	1675	1925	2550	3300

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

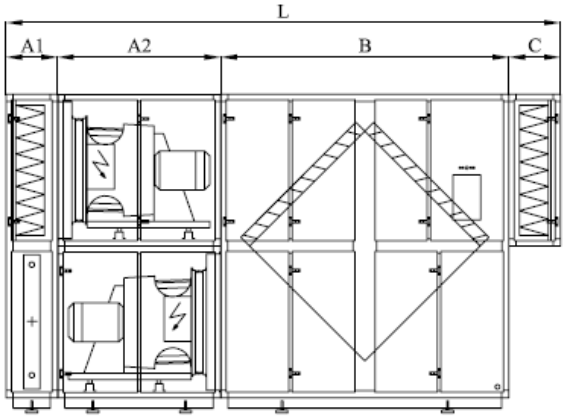
DANX XKS

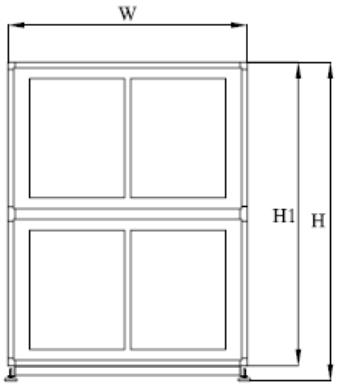
Dimensions (mm)





DanX XKS	A mm	B mm	C mm	L mm	W mm	H mm	H1 mm	Weight kg
2/4	1285	1341	475	3101	880	1600	1400	850
3/6	1390	1707	475	3572	880	1960	1760	925
5/10	1390	1707	475	3572	1400	1960	1760	1300
7/14	1530	1707	475	3712	1900	2120	1920	1675
9/18	1685	1920	475	4080	1800	2550	2350	1925





DanX XKS	A mm	A2 mm	B mm	C mm	L mm	W mm	H mm	H1 mm	Weight kg
12/24	475	1400	1920	475	4270	2200	2760	2550	2550
16/32	475	1500	2650	475	5100	2200	3010	2800	3300

AIR HANDLING UNITS

DANX CF

DANX CF

The DanX CF is a very effective outdoor air dehumidification system with a highly efficient counter-flow heat exchanger. This system perfectly controls the humidity and indoor temperature while offerring significant running cost reductions due to real energy savings of up to 80%. The integrated mixing function ensures that only the exact quantity of outdoor air needed is supplied. This keeps running costs at a minimum.

Free cooling is also an option during summer, when the unit can add up to 100% outdoor air into the pool area through the integrated by-pass.

For countries with high outdoor summer temperatures the system can be equipped with an additional cooling coil for further dehumidification and air cooling.

A wide range of fan types, filter qualities and coils are is available on request, enabling you to create the perfect solution for your requirements.

- User-friendly control system for high-quality demand management. Automatic monitoring and control of temperature and humidity of the pool hall
- Counter-flow heat exchangers with a high efficiency of up to 93% and a low pressure drop
- Built-in bypass for free cooling in the summertime.
- Highly energy-efficient EC plug fans
- Efficient bag filters in different lengths and qualities with low pressure drops are available
- Load-bearing frame construction module 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 counter-flow heat exchanger, heating coil with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts, nuts
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service
- Modular unit for easy and quick installation – all sensors and electrical components pre-connected.
- BMS communication with either Modbus or BACnet

AIR HANDLING UNITS

DANX CF

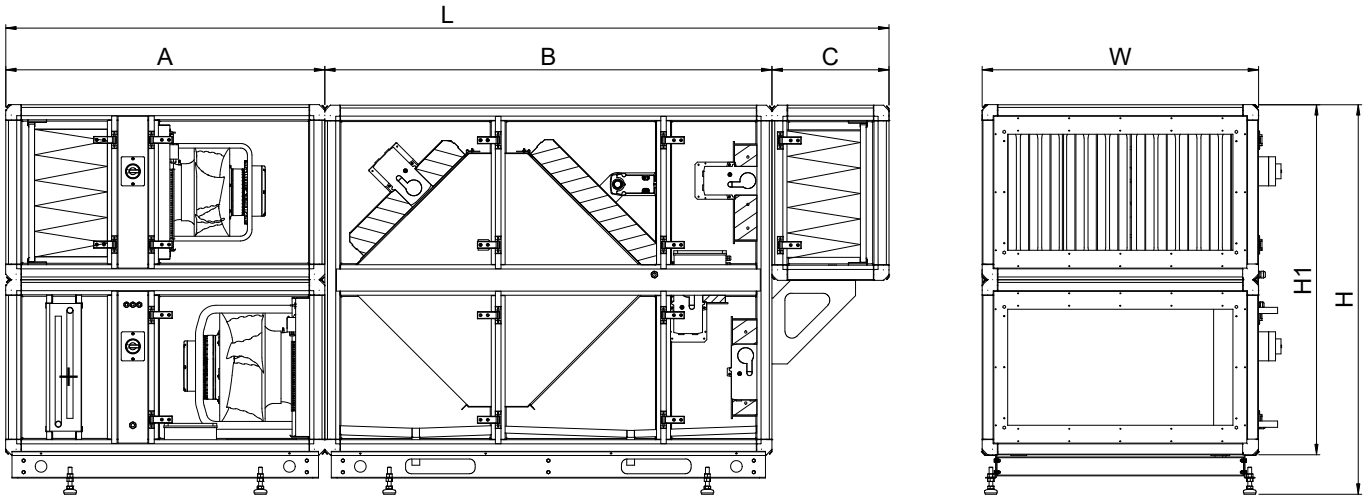
Specifications	Units	DANX CF 3/5	DANX CF 4/7	DANX CF 6/9	DANX CF 8/12
Nominal air volume	m^3/h	3,100	4,400	6,300	8,000
Max air volume	m^3/h	4,500	6,500	9,000	11,500
Outdoor air volume	%	0-100	0-100	0-100	0-100
Dehumidification capacity VDI 2089*	kg/h	20	29	41	52
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Height	mm	1700	1700	2300	2300
Width	mm	3790	3790	4490	4490
Depth	mm	880	1185	1185	1473
Weight	kg	800	960	1335	1530

Specifications	Units	DANX CF 10/14	DANX CF 12/17	DANX CF 16/23	DANX CF 19/28	DANX CF 22/32
Nominal air volume	m^3/h	9,800	11,600	16,000	19,000	22,000
Max air volume	m^3/h	14,000	17,000	23,000	28,000	32,000
Outdoor air volume	%	0-100	0-100	0-100	0-100	0-100
Dehumidification capacity VDI 2089*	kg/h	63	75	104	123	142
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Height	mm	2300	2300	3000	3600	3600
Width	mm	4490	4490	4760	4760	4760
Depth	mm	1778	2066	1964	2066	2370
Weight	kg	1730	1950	2365	2685	2755

* at 30°C/54% indoor

DANX CF

Dimensions (mm)



DanX CF	A mm	B mm	C mm	L mm	W mm	H1 mm	H mm	Weight kg
3/5	1370	1920	500	3790	880	1500	1700	800
4/7	1370	1920	500	3790	1185	1500	1700	960
6/9	1490	2500	500	4490	1185	2100	2300	1335
8/12	1490	2500	500	4490	1473	2100	2300	1530
10/14	1490	2500	500	4490	1778	2100	2300	1730
12/17	1490	2500	500	4490	2066	2100	2300	1950
16/23	1490	2770	500	4760	1964	2800	3000	2365
19/28	1490	2770	500	4760	2066	3400	3600	2685
22/32	1490	2770	500	4760	2370	3400	3600	2755

AIR HANDLING UNITS WITH HEAT RECOVERY AND HEAT PUMP

DANX 1-2-3 HP

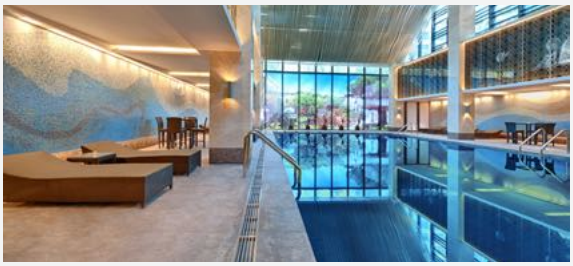
DANX 1/2/3 HP

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
- Attendence 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 bypass 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 exchanger, 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.

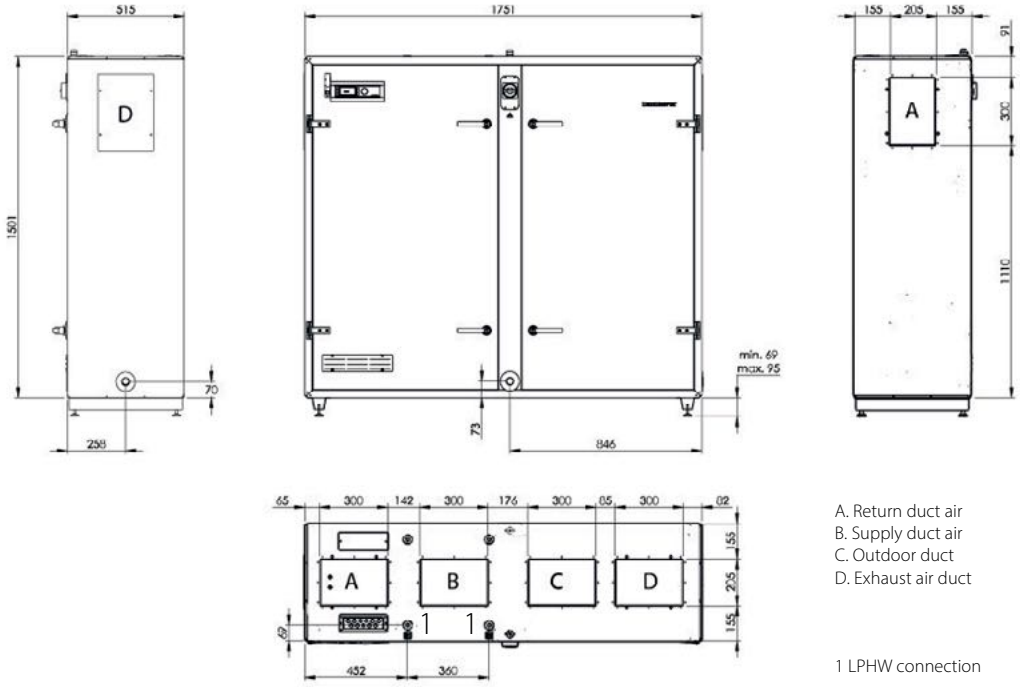
Specifications	Units	DANX 1 HP	DANX 2 HP	DANX 3 HP
Nominal air volume	m^3/h	1,000	1,750	2,750
Max. air volume	m^3/h	1,300	2,100	3,500
Max. external duct pressure*	Pa	350	350	350
Outdoor air volume	%	0-100	0-100	0-100
Dehumidification capacity recirculation**	kg/h	1.7	4.2	6.9
Dehumidification capacity 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/CO2 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

Dantherm CLIMATE SOLUTIONS

DANX 1-2-3 HP

DanX 1 HP dimensions (mm)

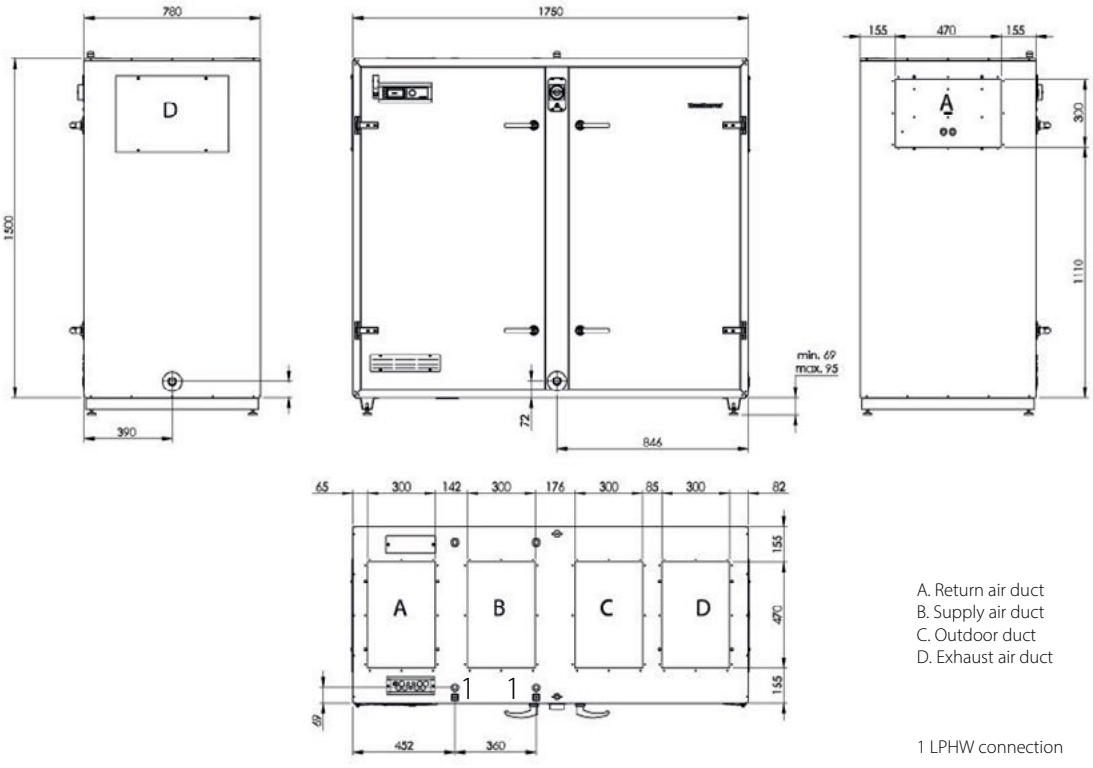


A. Return duct air
B. Supply duct air
C. Outdoor duct
D. Exhaust air duct

1 LPHW connection

The unit shown in the picture is left hand position.

DanX 2 HP dimensions (mm)



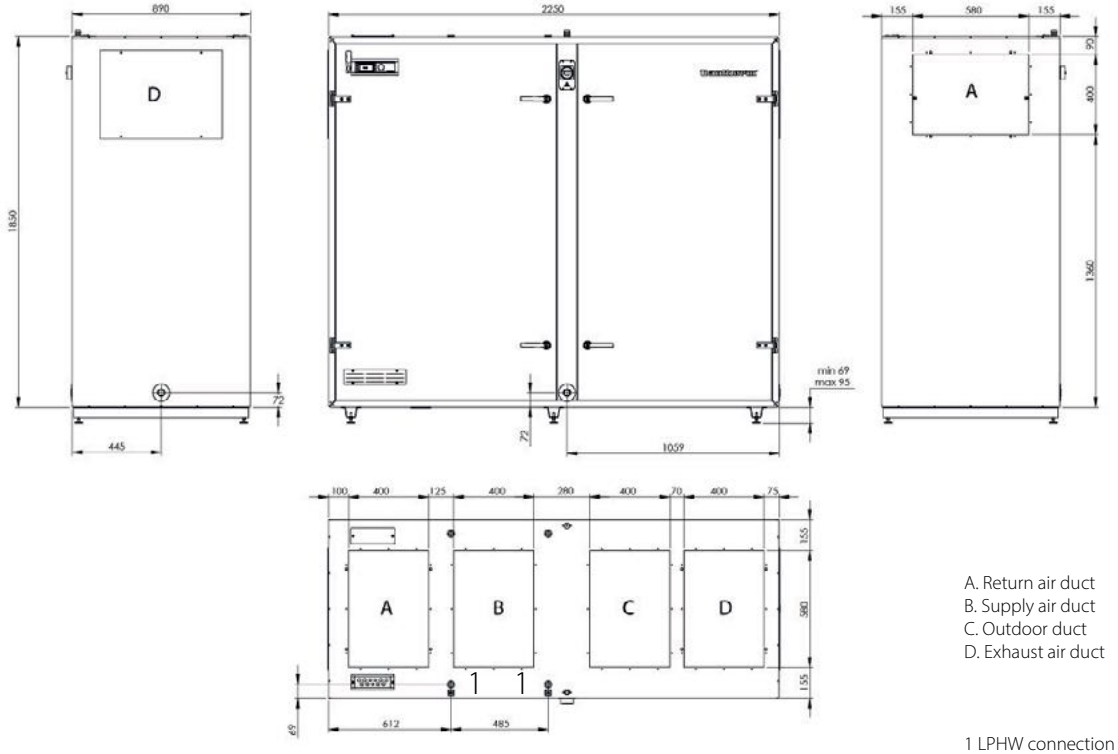
A. Return air duct
B. Supply air duct
C. Outdoor duct
D. Exhaust air duct

1 LPHW connection

The unit shown in the picture is left hand position.

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.

AIR HANDLING UNITS WITH HEAT RECOVERY AND HEAT PUMP

DANX XWPS

DANX XWPS

- Built-in heat pump with scroll compressor and high COP. Optional built-in water-cooled condenser for heating of pool or domestic water.
- User-friendly control system for high-quality demand management. Automatic monitoring and control of pool hall temperature and humidity.
- Very efficient crossflow heat exchanger.
- Built-in by pass for free cooling in the summertime.
- Highly energy-efficient EC plug fans.
- Efficient bag filters in different lengths and qualities with low pressure drops are available.
- Load-bearing frame construction module 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 exchanger, coils with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts and nuts.
- IP66 damper motors designed for pool environments.
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service.
- Modular unit for easy and quick installation with all sensors and electrical components already connected.
- BMS communication with either Modbus or BACnet.

DanX XWPS with heat pump and crossflow heat exchanger

The DanX XWPS combines the best of heat pumps and outside air dehumidification systems. The combination of heat pump and a highly efficient crossflow heat exchanger with an efficiency that exceeds 75% enables you to take full control of both humidity and indoor temperature.

Significant running cost reductions due to energy savings may exceed 100%.

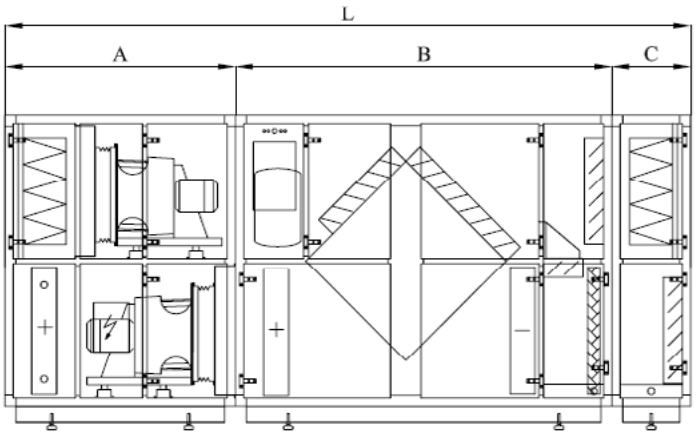
The integrated mixing function ensures that only the exact quantity of outdoor air required to sustain comfortable conditions is supplied.

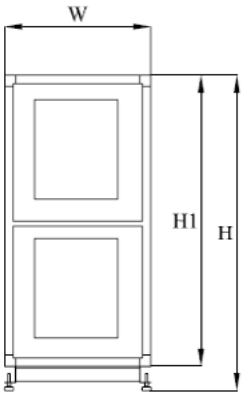
Specifications	Units	2/4 XWPS	3/6 XWPS	5/10 XWPS	7/14 XWPS	9/18 XWPS	12/24 XWPS	16/32 XWPS
Nominal air volume	m^3/h	3,350	4,500	8,400	12,500	15,500	21,500	25,500
Max. air volume	m^3/h	4,500	6,000	10,000	14,000	20,000	26,000	32,000
Outdoor air volume	%	0-100	0-100	0-100	0-100	0-100	0-100	0-100
Dehumidification capacity recirculation*	kg/h	9	16	24	31	40	64	71
Dehumidification capacity VDI 2089*	kg/h	22	29	54	81	100	139	165
Max. power consumption compressor	kW	4.4	5.7	8.8	12.0	16.0	24.0	30.0
Max. power consumption**	kW	7.4	10.1	16.8	23.0	31.0	46.0	60.0
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
R407C gas weight/CO_2 equivalent	kg/t	9/15.97	11/19.51	13/23.06	15/26.61	20/35.48	25/44.35	30/53.22
Height	mm	1600	1960	1960	2120	2250	2760	3010
Width	mm	3665	4135	4135	4275	4660	4950	5868
Depth	mm	880	880	1400	1900	1800	2200	2200
Weight	kg	1150	1300	1800	2300	2700	3650	4600

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

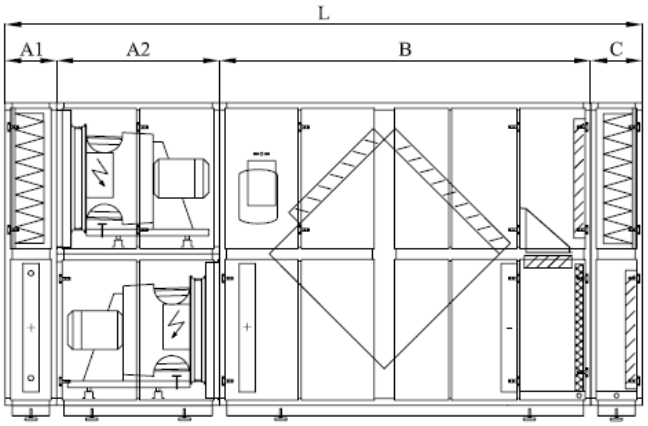
DANX XWPS

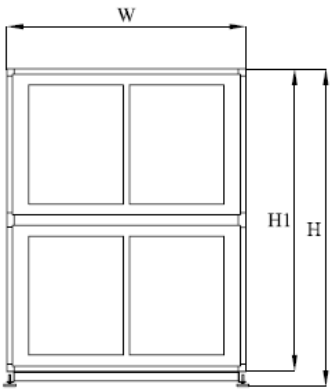
Dimensions





DanX XWPS	A mm	B mm	C mm	L mm	W mm	H mm	H1 mm	Weight kg
2/4	1285	1905	475	3665	880	1600	1400	1150
3/6	1390	2270	475	4135	880	1960	1760	1300
5/10	1390	2270	475	4135	1400	1960	1760	1800
7/14	1530	2270	475	4275	1900	2120	1920	2300
9/18	1685	2500	475	4660	1800	2550	2350	2700





DanX XWPS	A1 mm	A2 mm	B mm	C mm	L mm	W mm	H mm	H1 mm	Weight kg
12/24	475	1400	2600	475	4950	2200	2760	2550	3650
16/32	475	1500	3418	475	5868	2200	3010	2800	4600

AIR HANDLING UNITS WITH HEAT RECOVERY AND HEAT PUMP

DANX XWPRS

DANX XWPRS

DanX XWPRS with heat pump and crossflow heat exchanger

The DanX XWPRS combines the advantages of heat pumps and outside air dehumidification systems. The combination of the heat pump and a highly efficient crossflow heat exchanger gives you full control of the humidity as well as the indoor temperature. The reversible heat pump offers the possibility of active cooling in the summer.

The potential running cost reductions are significant and may well exceed 100%.

The integrated mixing function ensures that only the exact quantity of outdoor air required to sustain comfortable conditions is supplied.

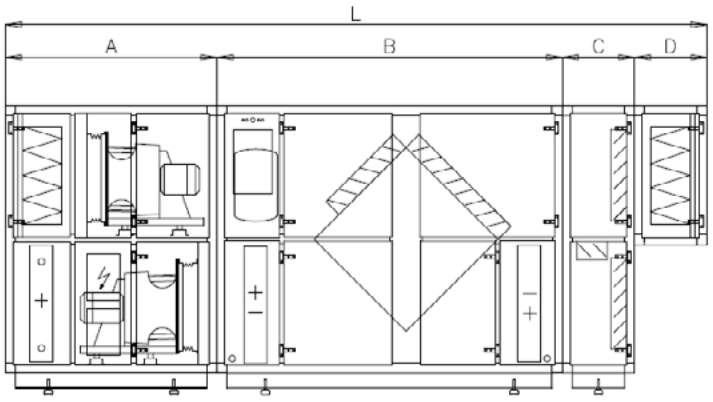
- Built-in heat pump with scroll compressor and high COP. Optional built-in water-cooled condenser for heating of pool or domestic water.
- User-friendly control system for high-quality demand management. Automatic monitoring and control of pool hall temperature and humidity.
- Crossflow heat exchanger with a > 75% efficiency.
- Built-in bypass for free cooling in the summertime.
- Reversible heat pump for active summer cooling.
- Highly energy-efficient EC plug fans.
- Efficient bag filters in different lengths and qualities with low pressure drops are available.
- Load bearing frame construction module 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 exchanger, coils with aluminium frame, pre-painted fins and epoxy coating to protect all fasteners, bolts and nuts.
- IP66 damper motors designed for swimming pool use.
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service.
- Modular unit for easy and quick installation with all sensors and electrical components already connected.
- BMS communication with either Modbus or BACnet.

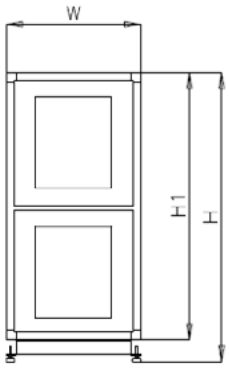
Specifications	Units	2/4 XWPRS	3/6 XWPRS	5/10 XWPRS	7/14 XWPRS	9/18 XWPRS	12/24 XWPRS	16/32 XWPRS
Nominal air volume	m^3/h	3,350	4,500	8,400	12,500	15,500	21,500	25,500
Max. air volume	m^3/h	4,500	6,000	10,000	14,000	20,000	26,000	32,000
Outdoor air volume	%	0-100	0-100	0-100	0-100	0-100	0-100	0-100
Dehumidification capacity recirculation*	kg/h	9	16	24	33	43	68	81
Dehumidification capacity VDI 2089*	kg/h	22	29	54	81	100	139	165
Max. power consumption compressor	kW	4.4	5.7	8.8	12.0	16.0	24.0	30.0
Max. total power consumption**	kW	7.4	10.1	16.8	23.0	31.0	46.0	60.0
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
R407C gas weight/CO_2 equivalent	kg/t	9/15.97	11/19.51	13/23.06	15/26.61	20/35.48	25/44.35	30/53.22
Height	mm	1600	1960	1960	2120	2250	2760	3010
Width	mm	3665	4135	4135	4275	4660	4950	5868
Depth	mm	880	880	1400	1900	1800	2200	2200
Weight	kg	1150	1300	1800	2300	2700	3650	4600

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

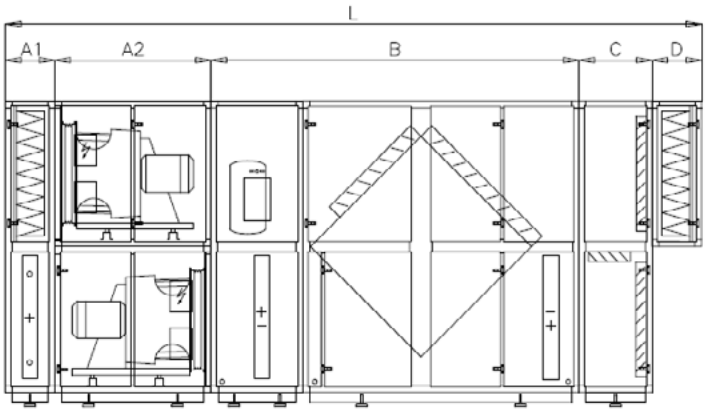
DANX XWPRS

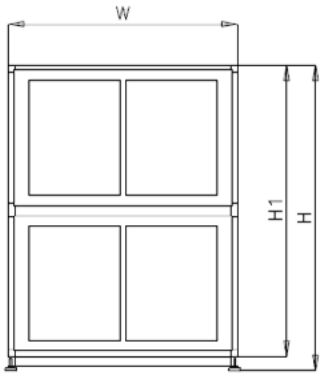
Dimensions





DanX XWPRS	A mm	B mm	C mm	D mm	L mm	W mm	H mm	H1 mm	Weight kg
2/4	1285	2270	475	475	4140	880	1600	1400	1215
3/6	1390	2270	475	475	4610	880	1960	1760	1420
5/10	1390	2270	475	475	4610	1400	1960	1760	1925
7/14	1530	2270	475	475	4750	1900	2120	1920	2600
9/18	1685	2500	600	475	5260	1800	2550	2350	2910



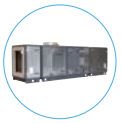


DanX XWPRS	A mm	B mm	C mm	D mm	L mm	W mm	H mm	H1 mm	Weight kg
12/24	475	1400	2600	600	475	2200	2760	2550	3990
16/32	475	1500	3530	700	475	2200	3010	2800	4940

CONDENSE DEHUMIDIFIERS

Dantherm's range of powerful dehumidifiers provides the ideal means of preserving and protecting your valuables from humidity damage. They are suited for humidity control in warehouses, museums, churches, archives and waterworks.

DEHUMIDIFICATION SOLUTIONS FOR:
BUILDINGS, STORAGE, PRESERVATION, FOOD & BEVERAGE

QUICK GUIDE	 CDF 10	 CD 15	 CDF 40-50-70	 CDP 75-125-165	 DANX AF
INSTALLATION					
 WALL-MOUNTED	●	●	●		
 FLOOR-STANDING			●		
 DUCTED				●	●
APPLICATIONS					
 WATERWORKS	●	●	●		
 DRYING ROOMS	●	●	●	●	
 PRESERVATION STORAGE & WAREHOUSING	●	●	●	●	
 MUSEUMS, ARCHIVES & GALLERIES	●	●	●	●	
 GARAGES & CAR STORAGE	●	●	●	●	
 DRY STORAGE, INDUSTRIAL PROCESS DRYING					●

WALL-MOUNTED DEHUMIDIFIERS

CDF 10

CDF 10

The CDF 10 dehumidifier is ideal for protecting furnishings and equipment stored at low temperatures. Being fully automatic with electronic control and a built-in, adjustable hygrostat, the unit has a clear display that indicates the current status of operation.

Defrosting is incorporated in the electronic control. The CDF 10 dehumidifier is operational at temperatures down to 3°C, where the electronic control switches off the dehumidifier. Available in white or gray powder coating.

- Built into a strong and robust powder-coated and hot-galvanised sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for high corrosion resistance
- The condensate outlet is located at the bottom of the CDF dehumidifier. The outlet stub can be connected to a water hose
- Easy accessible washable air filters from front cover
- Reciprocating compressor
- Axial fan
- Electronic control and user-friendly display panel
- Active, demand-controlled defrosting
- Available in white and grey

CDF 10
with water tank

Optional accessories

Room hygrostat - 516301

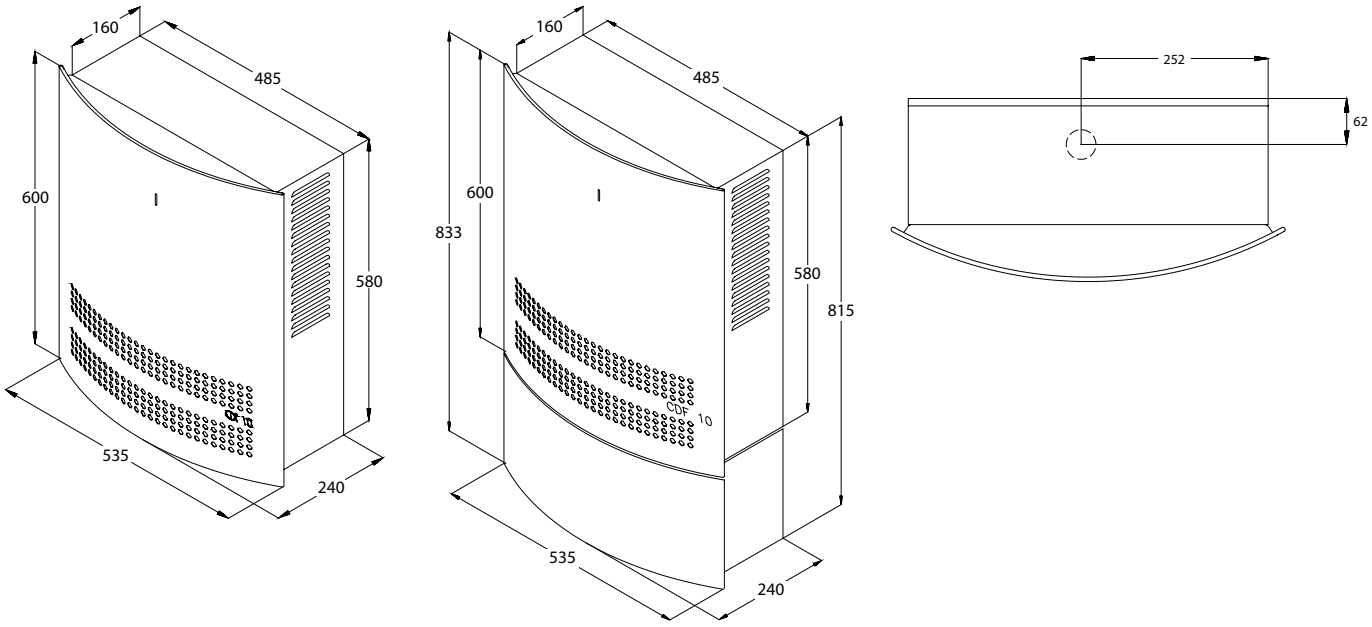
White tank - 351615
Grey tank - 351616

Specifications	Units	CDF 10
Operating temperature range	°C	3-30
Operating humidity range	% RH	40-100
Dehumidification @ 30°C/60% RH	l/24h	7.5
Air flow	m^3/h	220
Power supply	V/Hz	230/1ph/50
Max. power consumption	kW	0.3
Sound pressure level @1m	dB(A)	46
R134A gas weight/CO_2 equivalent	kg/t	0.19/0.27
Water container capacity	l	5.5
Product size (w x d x h)	mm	535 x 240 x 600
Weight	kg	28

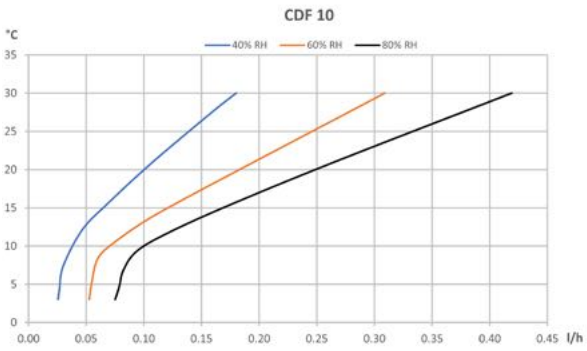
WALL-MOUNTED DEHUMIDIFIERS

CDF 10

Dimensions (mm)



Performance data



Electronic control

The CDF 10 has a built-in hygrostat and is fully automatic with electronic control. The hygrostat is placed behind the front panel and the required relative humidity level can be adjusted by moving the set screw. On delivery the CDF 10 is set at approx. 60% RH.

The CDF 10 is switched on and off by the switch on the side of the unit. A green LED on the front panel lights when the compressor is operating.

If the CDF 10 is used with a water container, it switches off automatically when the water tank is full. A red LED on the front panel lights when the water container needs to be emptied.

Defrosting

Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

The CDF 10 is automatically switched off when the temperature is lower than 3°C. It restarts when the room temperature has increased to more than 3°C.

WALL-MOUNTED DEHUMIDIFIERS

CD 15

R1234yf Climate Friendly Refrigerant

CD 15

The CD 15 is compact, lightweight, robust and quiet. Powerful and highly efficient, it constitues a great and versatile solution for a number of different dehumidification tasks.

Fitted with a bracket for fast and simple wall mounting it is ideally suited for use in water management facilities, car storage, preservation, museums, archives, cellars, spas, domestic use and more.

CD 15
with automatic pump

- Built into a strong and brushed stainless steel cabinet
- Built-in hygrostat
- Operating hour counter
- Easy accessible air filters from front cover
- Reciprocating compressor
- F-gas directive compliant
- Energy efficient axial fan
- Electronic control and user-friendly display panel
- Active, demand-controlled defrosting
- Automatic pump-out with overflow protection
- Wall bracket included
- On-demand hot gas defrost system

Optional accessories

Replacement air filter
490146

Condensate drainage hose
490100
12 x 2mm

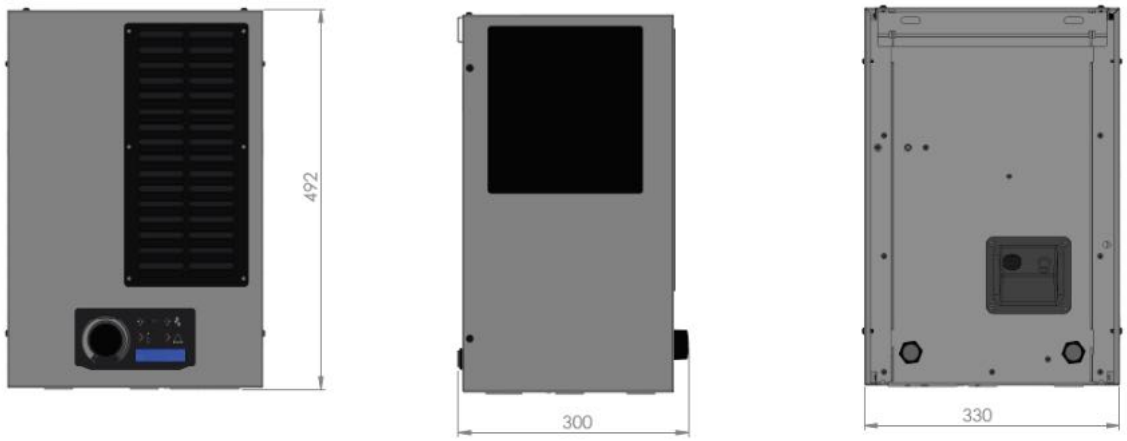
Specifications	Units	CD 15
Operating temperature range	°C	5-30
Operating humidity range	% RH	40-100
Dehumidification @ 30°C/80% RH	l/24h	15.0
Dehumidification @ 20°C/60% RH	l/24h	8.5
Dehumidification @ 15°C/70% RH	l/24h	8.0
Air flow	m^3/h	225
Power supply	V/Hz	230/1ph/50
Max. power consumption	kW	0.3
Sound pressure level @1m	dB(A)	46
R1234yf gas weight/CO_2 equivalent	kg/t	0.14/0.0006
Product size (w x d x h)	mm	330 x 280 x 490
Weight	kg	18.5

Dantherm CLIMATE SOLUTIONS

WALL-MOUNTED DEHUMIDIFIERS

CD 15

Dimensions (mm)



Dimensions above include external fittings

Electronic control

The CD 15 is fully automatic with electronic control, avoiding unnecessary operating times and helping to save energy. Controls include:

- LED for "Pump error"
- LED for "Temperature warning
- LED for Relative humidity OK"

WALL-MOUNTED/FLOOR-STANDING DEHUMIDIFIERS

CDF 40-50-70

CDF 50

The energy-efficient and quiet CDF range of powerful dehumidifiers is ideal for preserving and protecting your valuables from humidity damage. They are suitable for humidity control in garages, warehouses, museums, churches, archives and waterworks.

Controls

- Built in electronic hygrostat and thermostat
- Integrated ON/OFF control of humidity and temperature (electric or water heating coils as accessories)
- 230 V for control valve, exhaust fan and pump/boiler
- RS485 for Modbus communication

- Modern design
- Low sound level
- Low energy consumption
- Integrated control of humidity and temperature
- BMS communication (Modbus RTU)
- Built into a strong and robust powder-coated and hot-galvanised sheet metal cabinet
- Evaporator and condenser coils epoxy-coated to maximise corrosion resistance
- Three operational modes
- Visualized operational conditions for easy troubleshooting

Optional accessories

Wireless remote control DRC1-093455

Floor mounting kit - 094332

Water heating coils - 094333, 094334, 094335

Control valve for water heating coil - 094340

Electric heating coils - 094336, 094337, 094338

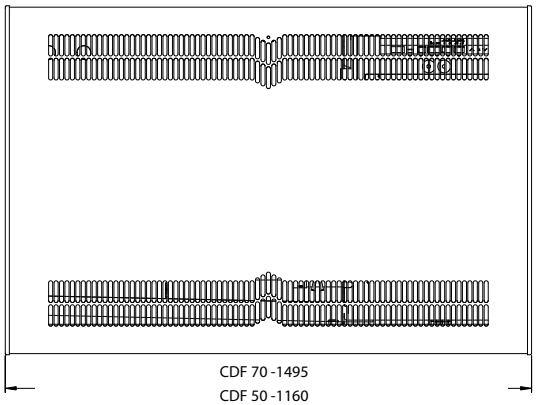
Exhaust fans - 094339, 094341

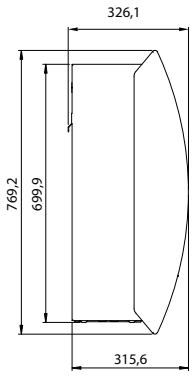
Specifications	Units	CDF 40	CDF 50	CDF 70
Operating temperature range	°C	3-32	3-32	3-32
Operating humidity range	% RH	40-100	40-100	40-100
Dehumidification @ 20°C/60% RH	l/24h	25.4	39.9	42.7
Dehumidification @ 30°C/60% RH	l/24h	38.4	63.2	77.5
SEC @ 20°C/60% RH	kWh/l	0.57	0.55	0.45
Air flow	m^3/h	400	680	900
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Max. power consumption	kW	0.78	1.37	1.5
Sound pressure level @1m	dB(A)	46	47	50
R407C gas weight/CO_2 equivalent		0.7/1.24	0.9/1.60	1/2/2.13
Filter		G3 PPI 15	G3 PPI 15	G3 PPI 15
Condensate drain size (stub)	inch	¾	¾	¾
Product size (w x d x h)	mm	1010 x 326 x 770	1160 x 326 x 770	1495 x 326 x 770
Weight	kg	56.5	65.0	75.5

WALL-MOUNTED/FLOOR-STANDING DEHUMIDIFIERS

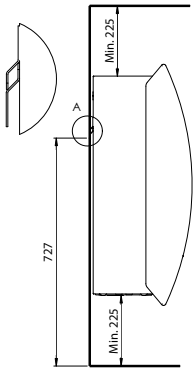
CDF 40-50-70

Dimensions (mm)

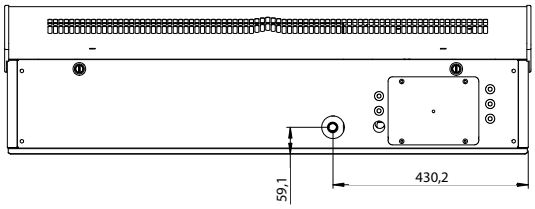




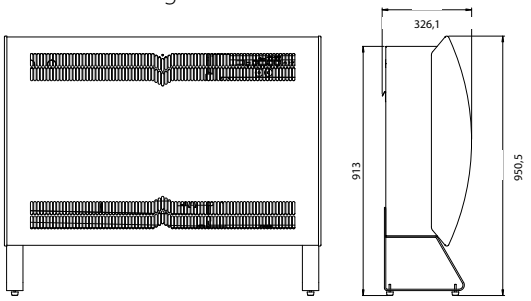
Recommended installation



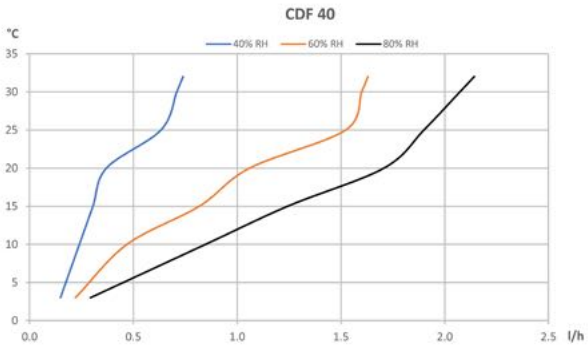
Drain outlet position

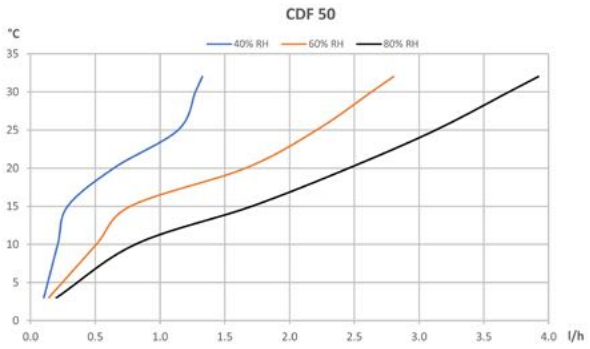


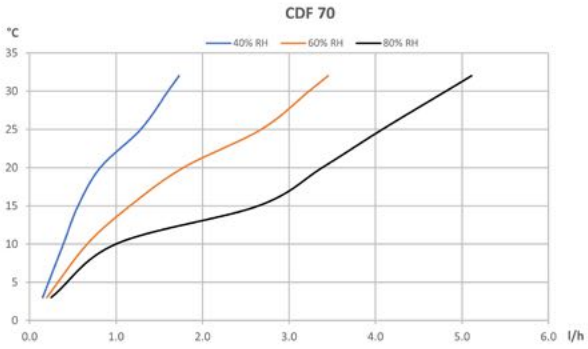
Floor mounting kit



Performance data







LARGE CAPACITY DUCTED DEHUMIDIFIERS

CDP 75-125-165

CDP 75, CDP 125, CDP 165

The CDP 75-125-165 condensation dehumidifiers have been designed for ducted installation in plant rooms for a wide range of commercial installations.

Renowned for their build quality and energy efficiency, the compact units can be wall-mounted or placed on the floor.

The CDP 75-125-165 range will be upgraded in 2023!
Improvements include an integrated touch panel for added user friendliness, R454C refrigerant as well as EC fan and microchannel condenser for better performance, reduced maintenance and minimal energy consumption.

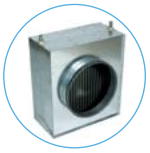
- The CDP 75-125-165 are built into a cabinet made of hot-galvanised, powder-painted and double-skinned panels with 50mm insulation
- Corrosion-protected evaporator and condenser coils
- The condensate outlet is located on the air inlet side
- The outlet stub can be connected to a water hose
- Air inlet through a filter placed in a removable frame
- Dry air outlet positioned either horizontally (through the side) or vertical (through the top) of the unit
- The access for inspection can be moved to the opposite side
- Fresh air (15%) inlet possible through fresh air duct
- Can be supplied with an optional water-cooled condenser
- Rotary/reciprocating compressor
- Radial fan

Optional accessories

Room hygrostat - 516301

Duct hygrostat - 516310

Room thermostat - 513321



Water heating coil - 570027, 570028, 570029

Shock-absorbing floor mounting kit - 175367, 175368, 175369

Wall mounting kit - 175381, 175382

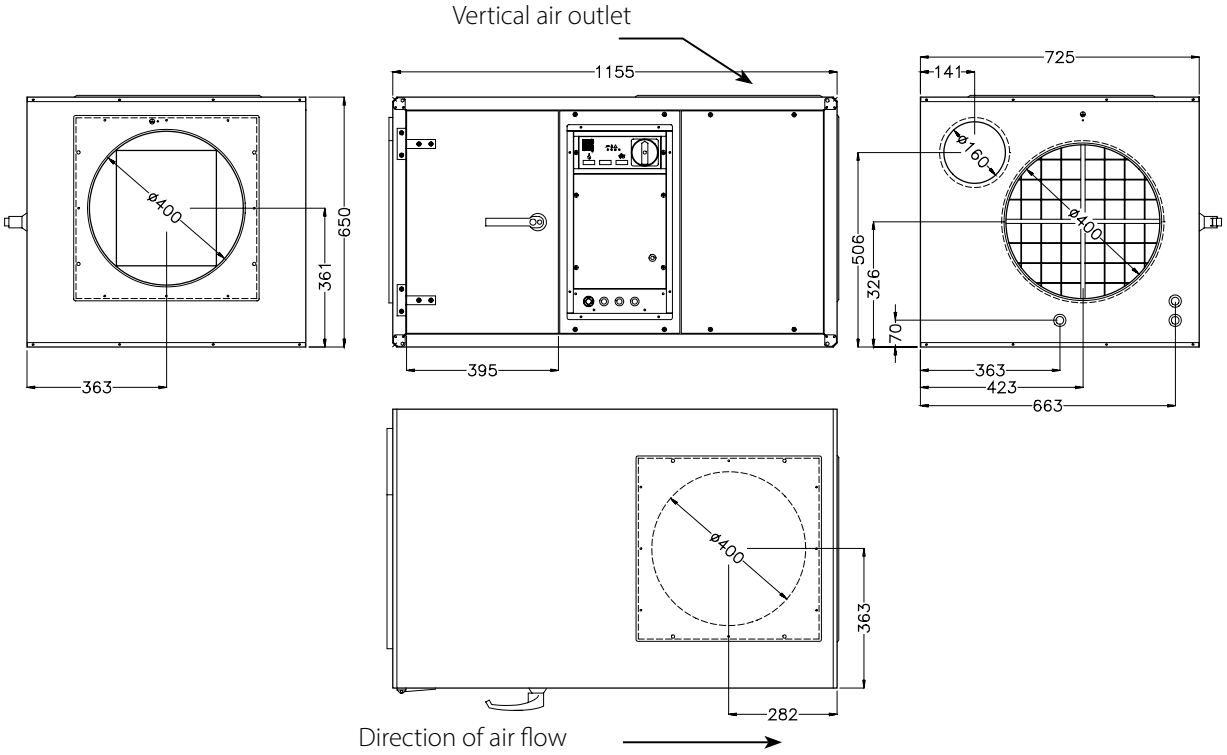
Defrost sensor - 175401

Failure monitoring kit - 019401

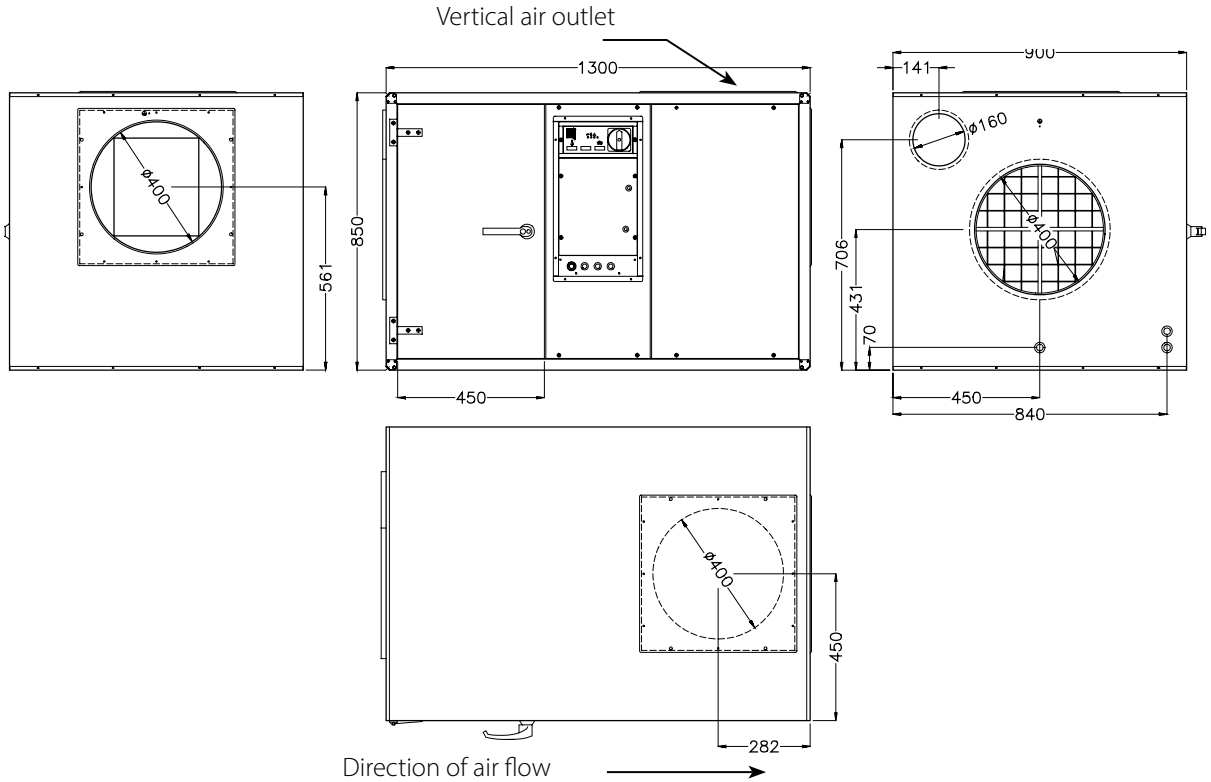
Specifications	Units	CDP 75	CDP 125	CDP 165
Operating temperature range	°C	20-38	20-38	20-38
Operating humidity range	% RH	40-100	40-100	40-100
Dehumidification @ 28°C/60% RH	l/24h	74	124	162
Air flow	m^3/h	1,500	2,500	3,600
Power supply	V/Hz	230/1ph/50	230/1ph/50 + 400/3ph/50	400/3ph/50
Sound pressure level @1m	dB(A)	58	60	63
R407C gas weight/CO_2 equivalent	kg/t	2.1/3.73	5.2/9.22	6.8/12.06
Water-cooled condenser		Optional	Optional	Optional
Product size (w x d x h)	mm	1155 x 725 x 650	1300 x 900 x 850	1400 x 1010 x 975
Weight	kg	130	160	190

CDP 75-125-165

CDP 75 dimensions (mm)

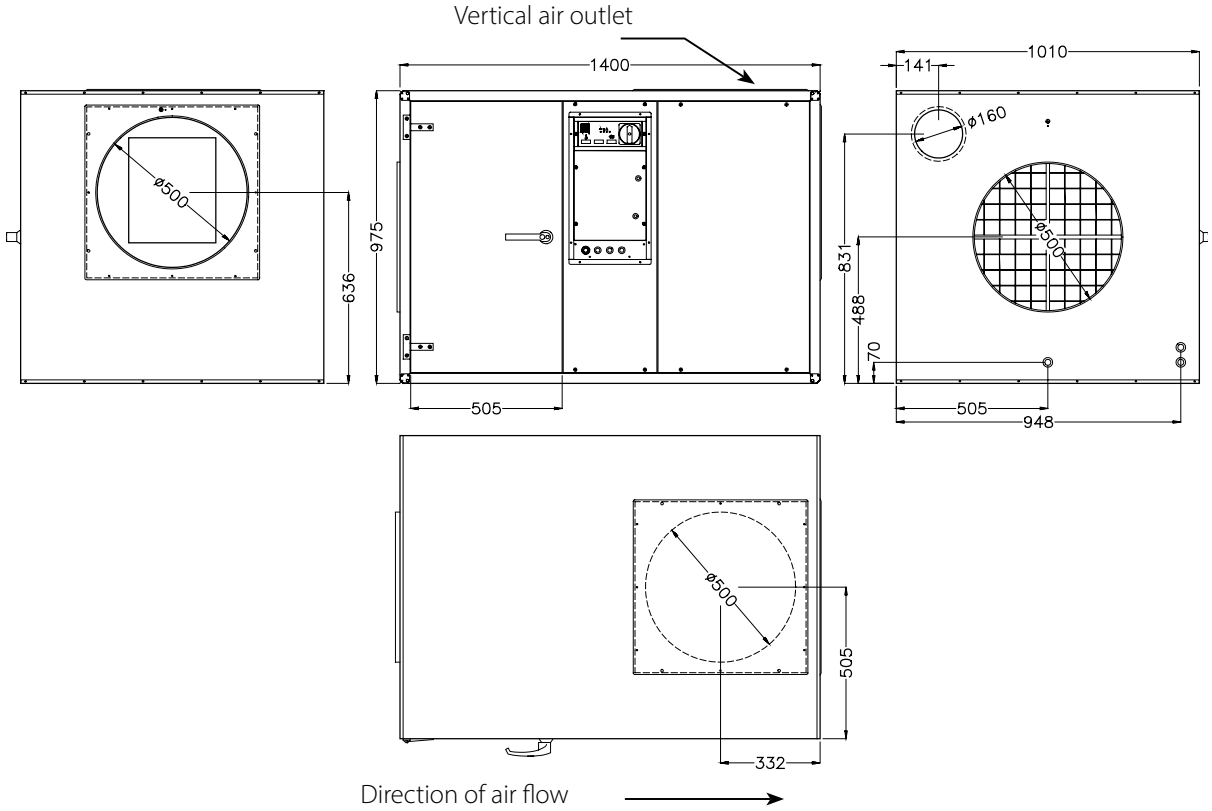


CDP 125 dimensions (mm)

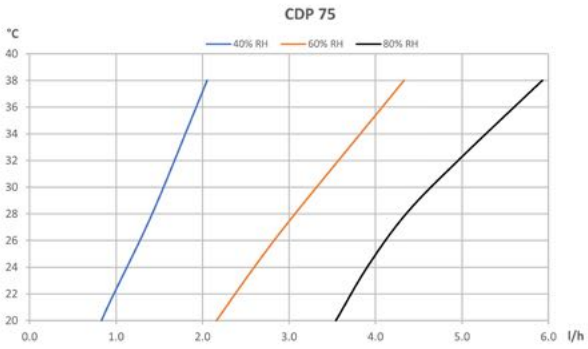


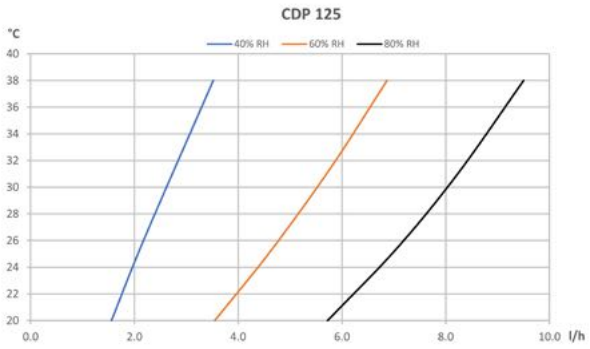
CDP 75-125-165

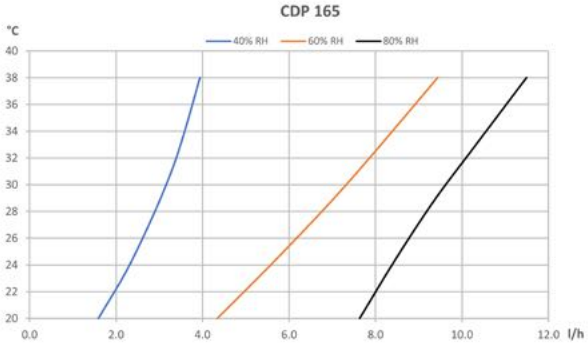
CDP 165 dimensions (mm)



Performance data







LARGE CAPACITY DUCTED DEHUMIDIFIERS

DANX AF

DANX AF

With its ability to significantly reduce the energy consumption, the DanX AF heat pump dehumidification system enables you to control humidity as well as indoor temperature in your building. Ideally suited for installation where space is limited, the system can even be installed suspended under the ceiling.

To reduce energy consumption even further, the DanX AF can be fitted with an optional water-cooled condenser. With this, the unit reuses all excess heat by transferring it to your hot water supply instead of letting it go to waste.

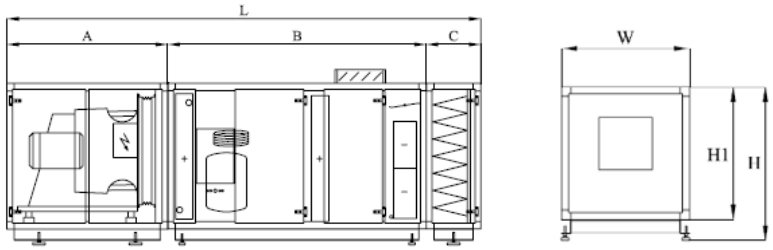
- User-friendly control system that monitors and controls temperature and humidity automatically. The custom-built software runs the unit as efficiently as possible under different conditions.
- BMS communication with either Modbus or BACnet. All internal terminal wiring done from factory.
- Refrigerant circuit with optional built-in water cooled condenser for heating of domestic water and external condenser for hot countries.
- Optional DX or water-cooling coil.
- Highly energy-efficient EC plug fans.
- Highly efficient bag filters with a low pressure drop.
- Fresh air (30%) inlet possible through fresh air duct.
- Load-bearing frame construction module with galvanised, powder-painted sandwich panels with 50mm mineral wool insulation and bottom frame with adjustable feet.
- Specifically designed to withstand the aggressive environments (Corrosion class C4 according to EN/ISO 12944-2), with epoxy coated, coils with aluminium frame, pre-painted fins and with all fasteners, bolts and nuts specially protected.
- Large inspection doors with strong hinges and tongue locks and handles for easy access for service.
- Modular unit for easy and quick installation with all sensors and electrical components already connected. Separate control panel fitted with cables and plugs for quick electrical connection between unit and panel.

Specifications	Units	AF 3/6	AF 5/10	AF 5/10s	AF 7/14	AF 7/14s	AF 12/24	AF 12/24s
Dehumidification @ 28°C/60% RH	l/h	13	20	25	33	39	52	62
Operating temperature range	°C	22-36	22-36	22-36	22-36	22-36	22-36	22-36
Operating humidity range	% RH	50-80	50-80	50-80	50-80	50-80	50-80	50-80
Air flow	m^3/h	4,850	7,300	9,500	12,000	14,000	19,000	24,000
External duct pressure	Pa	300	300	300	300	300	300	300
Outdoor air	%	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Power supply	V/Hz	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Max. power consumption	kW	8.6	12.3	16.1	22.1	24.1	31.7	42.8
R407C gas weight/CO_2 equivalent	kg/t	9/15.97	14/24.84	14/24.84	22/39.03	22/39.03	32/56.77	32/56.77
Height	mm	1115	1115	1115	1195	1195	1485	1485
Width	mm	3380	3380	3380	3850	3850	4125	4125
Depth	mm	880	1400	1400	1900	1900	2200	2200
Weight	kg	575	800	800	1125	1200	1650	1675

LARGE CAPACITY DUCTED DEHUMIDIFIERS

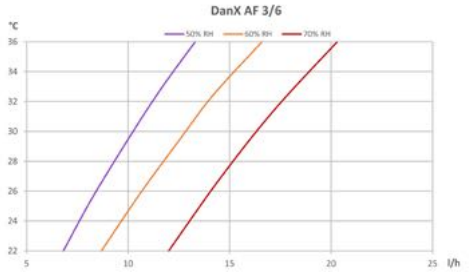
DANX AF

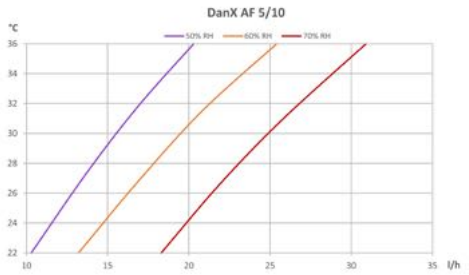
Dimensions

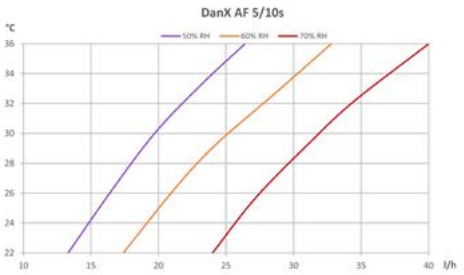


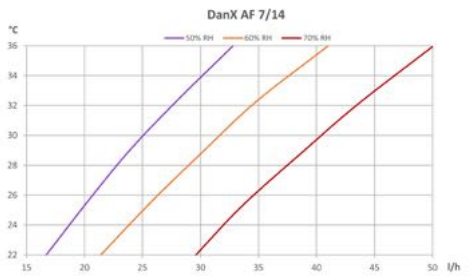
DanX AF	A: mm	B: mm	C: mm	L: mm	W: mm	H: mm	H1: mm	Weight: kg
3/6	985	1920	475	3380	880	1115	915	575
5/10	985	1920	475	3380	1400	1115	915	800
5/10s	985	1920	475	3380	1400	1115	915	800
7/14	1125	2250	475	3850	1900	1195	995	1125
7/14s	1125	2250	475	3850	1900	1195	995	1200
12/24	1400	2250	475	4125	2200	1485	1275	1650
12/24s	1400	2250	475	4125	2200	1485	1275	1675

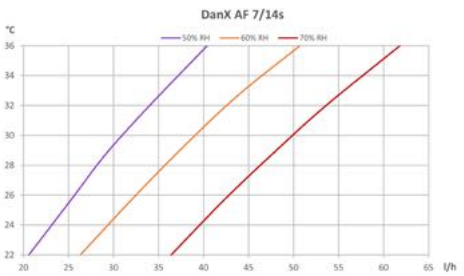
Performance data

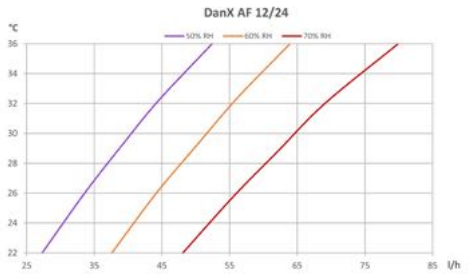


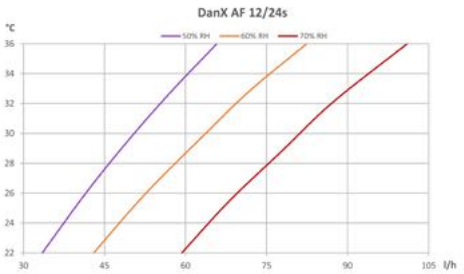












Dantherm CLIMATE SOLUTIONS

ACCESSORIES

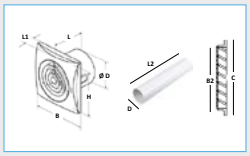
ACCESSORIES

CDP 40-50-70 | CDP 40T-50T-70T

Illustration	Accessory	Description	Products	Code
	**Remote control, DRC1**	DRC1 is a wireless RH and temperature controller. Frequency: 433 mhz Range: Up to 50m depending on the conditions Protection class: IP20 **Functionalities:** • Reading and setting of RH, temperature, alarms and service information • Locking of settings	CDP 40 CDP 50 CDP 70 CDP 40T CDP 50T CDP 70T	**093455**
	**External RH/t sensor**	Remote sensor with 10 meter wire Protection class: IPX7	CDP 40 CDP 50 CDP 70 CDP 40T CDP 50T CDP 70T	**051710**
	**Floor mounting kit, 2 pcs**	Each bracket to be mounted on each side of the dehumidifier	CDP 40 CDP 50 CDP 70	**094322**
	**Water heating coil 2.6 kW*** **Water heating coil 4.2 kW*** **Water heating coil 6.2 kW***	Comprises water heating coil, flexible hose, fittings and gasket *at 80/60° C *(See technical specifications for water heating coils on separate page).*	CDP 40, 40T CDP 50, 50T CDP 70, 70T	**094333** **094334** **094335**
	**DN 10 control valve and actuator for water heating coils**	Comprises valve and actuator 230 V, ON/OFF (180 seconds from closed to fully open), includes union nut for Ø 12 tube	CDP 40 CDP 50 CDP 70 CDP 40T CDP 50T CDP 70T	**094340**
	**Electric heating coil 2 kW** **Electric heating coil 3.5 kW** **Electric heating coil 5 kW**	Comprises electric heating coil, relays and electric wires	CDP 40, 40T CDP 50, 50T CDP 70, 70T	**094336** **094337** **094338**

ACCESSORIES

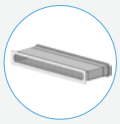
CDP 40-50-70 | CDP 40T-50T-70T

<table>
<tr><th>Illustration</th><th>Accessory</th><th>Description</th><th>Products</th><th>Code</th></tr>
<tr><td rowspan="2"> 
  </td><td>Pro 30 Standard
Exhaust fan</td><td rowspan="2">The exhaust fan can be used in combination with the CDP to either increase dehumidification capacity or establish outdoor air supply

Pro 30 Standard:
Power supply: 230 V/50Hz
Power consumption: 7.5W
Air volume: 97m³/h
Sound level: 25 dB(A)

Pro 32 Standard:
Power supply: 230 V/50Hz
Power consumption: 17W
Air volume: 185m³/h
Sound level: 32 dB(A)

Dimensions:

<table><tr><th></th><th>Pro 30 Standard</th><th>Pro 32 Standard</th></tr><tr><td>Ø D</td><td>99</td><td>124</td></tr><tr><td>B</td><td>158</td><td>182</td></tr><tr><td>H</td><td>136</td><td>158</td></tr><tr><td>L</td><td>107</td><td>91</td></tr><tr><td>L1</td><td>26</td><td>27</td></tr><tr><td>D</td><td>100</td><td>125</td></tr><tr><td>L2</td><td>500</td><td>500</td></tr><tr><td>B2</td><td>100</td><td>125</td></tr><tr><td>C</td><td>125</td><td>150</td></tr></table></td><td>CDP 40
CDP 50
CDP 70
CDP 40T
CDP 50T
CDP 70T</td><td rowspan="2">094339</td></tr>
<tr><td>Pro 32 Standard
Exhaust fan</td><td>CDP 40
CDP 50
CDP 70
CDP 40T
CDP 50T
CDP 70T</td></tr>
<tr><td>  </td><td>Through-wall duct kit with filter, extension kit and alu grill</td><td>Comprises inlet and outlet section, grills, inlet filter and extension

For walls between 70 and 366mm thickness</td><td>CDP 40T
CDP 50T
CDP 70T</td><td>094271
094243
093508</td></tr>
<tr><td>  </td><td>Duct lead-in adapter</td><td>The adapter makes it possible to place CDP 40T-50T-70T on the wall without changing the existing wall openings</td><td>CDP 40T
CDP 50T
CDP 70T</td><td>094801
094802
094804</td></tr>
</table>

ACCESSORIES

CDP 40-50-70 | CDP 40T-50T-70T

Water heating coils – calculations at room temperature = 28°C; 60% RH

CDP 40 + CDP 40T	**Q = 400 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	3.32	2.64	0.68	3.4	1.02	1.36
Water flow rate	l/min	4.2	1.8	0.3	2.4	0.6	1.8
Water pressure drop	kPa	11.8	2.8	0.1	4.2	0.6	3.1
Water velocity	m/s	1.05	0.46	0.07	0.6	0.18	0.47
Air flow rate	m3/s	0.11	0.11	0.11	0.11	0.11	0.11
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	8	8	8	8	8	8
Connection tube, Ø	mm	12	12	12	12	12	12

CDP 50 + CDP 50T	**Q = 680 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	5.28	4.27	0.99	5.45	1.82	2.2
Water flow rate	l/min	7.2	3	0.6	4.2	1.2	3
Water pressure drop	kPa	32.3	7.6	0.2	11.6	1.8	8.6
Water velocity	m/s	1.68	0.74	0.1	0.95	0.32	0.76
Air flow rate	m3/s	0.19	0.19	0.19	0.19	0.19	0.19
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	10	10	10	10	10	10
Connection tube, Ø	mm	12	12	12	12	12	12

CDP 70 + CDP 70T	**Q = 900 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	7.56	6.23	2.37	7.9	2.83	3.23
Water flow rate	l/min	10.2	4.8	1.2	6	1.8	4.8
Water pressure drop	kPa	83	20.1	1.5	30.1	5.3	22.9
Water velocity	m/s	2.4	1.09	0.23	1.38	0.49	1.12
Air flow rate	m3/s	0.25	0.25	0.25	0.25	0.25	0.25
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	8	8	8	8	8	8
Connection tube, Ø	mm	12	12	12	12	12	12

ACCESSORIES

CDP 75-125-165

Illustration	Accessory	Products	Code
	**Room hygrostat**	CDP 75 CDP 125 CDP 165	**516301** **516301** **516301**
	**Room thermostat**	CDP 75 CDP 125 CDP 165	**513321** **513321** **513321**
	**Duct hygrostat**	CDP 75 CDP 125 CDP 165	**516310** **516310** **516310**
	**Wall mounting kit**	CDP 75 CDP 125	**175381** **175382**
	**Shock-absorbing floor mount kit**	CDP 75 CDP 125 CDP 165	**175367** **175368** **175369**
	**Water heating coil**	CDP 75 CDP 125 CDP 165	**570027** **570028** **570029**
	**Defrost sensor**	CDP 75 CDP 125 CDP 165	**175401** **175401** **175401**
	**External failure monitoring kit**	CDP 75 CDP 125 CDP 165	**019401** **019401** **019401**

ACCESSORIES

CDF 10-40-50-70

Illustration	Accessory	Description	Products	Code
	**Water tank**	White or grey	CDF 10	**351615 – White tank** **351616 – Grey tank**
	**Remote control, DRC1**	DRC1 is a wireless RH and temperature controller. Frequency: 433 mhz Range: Up to 50m depending on the conditions Protection class: IP20 **Functionalities:** • Reading and setting of RH, temperature, alarms and service information • Locking of settings	CDF 40 CDF 50 CDF 70	**093455**
	**External RH/t sensor**	Remote sensor with 10 meter wire Protection class: IPX7	CDF 40 CDF 50 CDF 70	**051710**
	**Floor mounting kit, 2 pcs - black**	Each bracket to be mounted on each side of the dehumidifier	CDF 40 CDF 50 CDF 70	**094332**
	**Water heating coil 2.6 kW*** **Water heating coil 4.2 kW*** **Water heating coil 6.2 kW***	Comprises water heating coil, flexible hose, fittings and gasket *at 80/60° C *(See technical specifications for water heating coils on separate page).*	CDF 40 CDF 50 CDF 70	**094333** **094334** **094335**
	**DN 10 control valve and actuator for water heating coils**	Comprises valve and actuator 230 V, ON/OFF (180 seconds from closed to fully open), includes union nut for Ø 12 tube	CDF 40 CDF 50 CDF 70	**094340**
	**Electric heating coil 2 kW** **Electric heating coil 3.5 kW** **Electric heating coil 5 kW**	Comprises electric heating coil, relay and electric wires	CDF 40 CDF 50 CDF 70	**094336** **094337** **094338**

ACCESSORIES

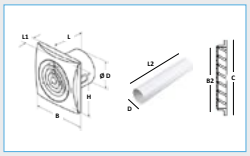
CDF 10-40-50-70

<table>
<tr><th>Illustration</th><th>Accessory</th><th>Description</th><th>Products</th><th>Code</th></tr>
<tr><td rowspan="2">  </td><td>Pro 30 Standard
Exhaust fan</td><td rowspan="2">The exhaust fan can be used in combination with the CDP to either increase dehumidification capacity or establish outdoor air supply.

Pro 30 Standard:
Power supply: 230 V/50Hz
Power consumption: 7.5W
Air volume: 97m³/h
Sound level: 25 dB(A)

Pro 32 Standard:
Power supply: 230 V/50Hz
Power consumption: 17W
Air volume: 185m³/h
Sound level: 32 dB(A)

Dimensions:

<table><tr><th></th><th>Pro 30 Standard</th><th>Pro 32 Standard</th></tr><tr><td>Ø D</td><td>99</td><td>124</td></tr><tr><td>B</td><td>158</td><td>182</td></tr><tr><td>H</td><td>136</td><td>158</td></tr><tr><td>L</td><td>107</td><td>91</td></tr><tr><td>L1</td><td>26</td><td>27</td></tr><tr><td>D</td><td>100</td><td>125</td></tr><tr><td>L2</td><td>500</td><td>500</td></tr><tr><td>B2</td><td>100</td><td>125</td></tr><tr><td>C</td><td>125</td><td>150</td></tr></table></td><td>CDF 40
CDF 50
CDF 70</td><td rowspan="2">094339</td></tr>
<tr><td>  </td><td>Pro 32 Standard
Exhaust fan</td><td>CDF 40
CDF 50
CDF 70</td></tr>
<tr><td colspan="3"></td><td>094341</td></tr>
</table>

ACCESSORIES

CDF 10-40-50-70

Water heating coils – calculations at room temperature = 20°C; 50% RH

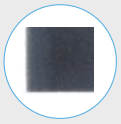
CDF 40	**Q=400 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	3.85	3.19	1.16	3.94	1.64	1.91
Water flow rate	l/min	5.4	2.4	0.6	3	1.2	3
Water pressure drop	kPa	15.5	3.9	0.3	5.5	1.3	5.7
Water velocity	m/s	1.22	0.56	0.11	0.69	0.28	0.66
Air flow rate	m3/s	0.11	0.11	0.11	0.11	0.11	0.11
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	8	8	8	8	8	8
Connection tube, Ø	mm	12	12	12	12	12	12

CDF 50	**Q=680 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	6.11	5.12	2.42	6.29	2.75	3.08
Water flow rate	l/min	8.4	3.6	1.2	4.8	1.8	4.8
Water pressure drop	kPa	42.2	10.6	1.1	14.9	3.8	15.6
Water velocity	m/s	1.94	0.06	0.24	1.1	0.48	1.07
Air flow rate	m3/s	0.19	0.19	0.19	0.19	0.19	0.19
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	10	10	10	10	10	10
Connection tube, Ø	mm	12	12	12	12	12	12

CDF 70	**Q=900 m³/h**						
Water temperature	°C	82/71	80/60	70/35	90/70	60/40	55/45
Capacity	kW	8.74	7.43	3.86	9.07	4.12	4.47
Water flow rate	l/min	11.4	5.4	1.8	6.6	3	6.6
Water pressure drop	kPa	108.1	27.7	3.4	38.7	10.3	40.7
Water velocity	m/s	2.78	1.3	0.38	1.59	0.71	1.55
Air flow rate	m3/s	0.25	0.25	0.25	0.25	0.25	0.25
Inlet temperature	°C	82	80	70	90	60	55
Outlet temperature	°C	71	60	35	70	40	45
Air pressure drop	Pa	8	8	8	8	8	8
Connection tube, Ø	mm	12	12	12	12	12	12

ACCESSORIES

CD 15

Illustration	Accessory	Description	Products	Code
	**Replacement air filter**	Replacement	CD 15	**490146**
	**Condensate drainage hose**	Size: 12 x 2 mm	CD 15	**490100**

GLOSSARY

Prefix = type of heat pump or product

HPP-i	Heat pump pool-inverter
CDF	Dehumidifier, fixed installation
CDP	Dehumidifier, pool installation
DanX	Swimming pool AHUs

Suffix = model type

For example

-T	CDP through-the-wall version

DanX 1, DanX 2, DanX 3

XD	Double crossflow heat exchanger only
HP	Double crossflow heat exchanger and heat pump

DanX XWPS

X	Crossflow heat exchanger
WP	Heat pump
S	Swimming pools

DanX XWPRS

X	Crossflow heat exchanger
WP	Heat pump
R	Reversible
S	Swimming pools

DanX XKS

X	Crossflow heat exchanger
K	Crossflow heat exchanger only
S	Swimming pools

DanX CF

CF	Counter-flow heat exchanger

DanX AF/AFs

AF	Heat pump dehumidifier, no crossflow heat exchanger
S	Larger compressor and more airflow, higher dehumidification capacity, contained in the same dimensions as the 'non s' version.

Number = size of product

For example

CDP	40, 50, 70, 75, 125, 165
DanX XD/HP	1, 2, 3
DanX AF	3/6, 5/10, 5/10s, 7/14, etc.
DanX XKS	2/4, 3/6, 5/10, 7/14, etc.

DanX numbering system

Numbers indicate air flow, so a 2/4 is from 2000 m^3/h to 4000 m^3/h. The actual nominal air flow is stated in the documentation and brochures.

XWPS-XWPRS/XKS 2/4 = 2000/4000

XWPS-XWPRS/XKS 3/6 = 3000/6000

XWPS-XWPRS/XKS 5/10 = 5000/10000

XWPS-XWPRS/XKS 7/14 = 7000/14000

XWPS-XWPRS/XKS 9/18 = 9000/18000

XWPS-XWPRS/XKS 12/24 = 12000/24000

XWPS-XWPRS/XKS 16/32 = 16000/32000

***NOTE:** On an AF the same numbering system is used, but the air flow cannot be changed. The actual nominal air flow is stated in the documentation and brochures.*

AF 3/6 = 3000/6000

AF/AFs 5/10 = 5000/10000

AF/AFs 7/14 = 7000/14000

AF/AFs 12/24 = 12000/24000

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