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In this 2024 Catalog, we provide reliable information about our products so that consumers can make an informed choice.

Today, DanVex is one of the European leaders in the design and manufacture of a wide range of dehumidifiers, humidifiers and heat pumps. Indeed, it can already be recognized that the areas and fields of activity in which DanVex equipment is used are all around you.

We make sure that we maintain our leadership position in the application of new and modern solutions. Among other things, we pay attention to programs related to reducing the environmental impact of greenhouse gases containing fluorine. In order to comply with EU regulations, we have worked hard to improve our equipment and switch to more environmentally friendly refrigerants.

Now you too are taking part in saving our planet when you use DanVex dehumidifiers and heat pumps.

Thank you for choosing us!!!



DanVex & Climate & Refrigerants



F-gas (fluorinated gas) is the main tool by which moisture is extracted from the air in condensation dehumidifiers.

It is believed that the air temperature on the planet increases due to the greenhouse effect enhancement. Carbon dioxide CO2 is one of the gases that creates the greenhouse effect. It is proved that the increase in the concentration of CO2 in the atmosphere is greatly influenced by human activity. In 1997 the Kyoto Protocol introduced the concept of «Global warming potential» (abbreviated as GWP). This is a coefficient that determines the degree of 1kg gasimpact of gas on global warming compared to 1 kg of carbon dioxide in 100 years. GWP CO2 is equal to 1.

The terms of F-gases use in various equipment are specified in the EU Regulation

The Regulation refers dehumidifiers to air conditioning equipment and systems. In 2022 and later mobile air conditioners/ dehumidifiers (indoor household equipment) are allowed using F-gases with a GWP of less than 150.

Professional air conditioners/ dehumidifiers/ heat pumps having F-gas in an amount of less than 3 kg per unit of equipment with a GWP of more than 750 are allowed until January 1 2025.

After this date such equipment will be prohibited from putting into circulation in the EU.





DanVex & Climate & Refrigerants



Why DanVex use R32 and R290 refrigerants?

Currently F-gases R410C, R407A, R134A refrigerants are the most common for use in dehumidifiers. Their GWP data is given in the table. These gases are not prohibited for use in professional dehumidifiers until 2025 but they have a very high GWP. That is why DanVex started producing equipment with R32 refrigerant in 2021. This refrigerant has a significantly lower GWP equal to 675 and in addition requires a smaller amount to be refilled into the dehumidifier. DanVex mobile dehumidifiers now use F-gas R290. It has GWP equal to 3.

Why it is not possible to use R290 refrigerant in all dehumidifiers if its GWP is very small?

Customer safety is a top priority for DanVex. During the manufacture of equipment safety and environmental requirements must be observed. Currently the European standard EN378 is valid in Europe.



The refrigerant R290 is natural gas propane. It does not contain fluorine but it is very explosive and has a fire safety class A3. In practice this means that the equipment cannot contain a large amount of R290 since there is a risk of exceeding the gas concentration in the premises in case of a refrigerant leak from the system. It is not allowed to use 'powerful' dehumidifiers filled with R290 in small rooms.

We cannot guarantee that an ordinary user will comply with this rule.

Therefore professional dehumidifiers cannot be filled with this refrigerant and DanVex does not produce dehumidifiers with R290 refrigerant in models with performance of more than 40 liters per day.

Refrigerant	GWP (AR4)
R410A	2 088
R407C	2 107
R134A	1 430
R32	675
R290	3



What is the air humidity and why do you need to control it?

Relative and absolute air humidity



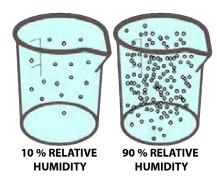
Ambient air is a gas mixture that always contains a certain amount of water in the form of water vapor. The maximum amount of water vapor in the air depends on its temperature and pressure.

Absolute humidity is a value showing the mass of water vapor in grams containing in 1 m% of air.

Relative humidity reflects the current percentage of water relative to its maximum possible content at a certain temperature and pressure.

When the maximum possible amount of water is absorbed by air, air becomes "saturated" and its relative humidity is 100%. The ability of air to absorb water vapor increases with increasing temperature. Therefore, the maximum possible (absolute) water content in air increases with increasing temperature. If the air is heated, then the maximum possible amount of water vapor that can be in the air will increase. At In this case, the relative humidity will decrease, since the water vapor content will remain unchanged. (This is used when drying materials by heating. Water leaves the material into heated air and air thrown out onto the street).

Te	mp	Water content (g/m³)							
C	,C	40%	60%	80%	100%				
+	+ 5	1,3	1,9	2,6	3,3				
+	10	3,8	5,6	7,5	9,4				
+	15	5,1	7,7	10,2	12,8				
+	20	6,9	10,4	13,2	17,3				
+	25	9,2	13,8	18,4	23				
+	30	12,9	18,2	24,3	30,3				



While the air is cooled, the maximum possible amount of water vapor in the air is gradually reduced. If the amount of water vapor remains unchanged, the relative humidity rises accordingly.

When air is continuously cooled, the ability to absorb moisture by the air will gradually decrease until the air becomes saturated (100% humidity), which is equal to the maximum possible water vapor content in it. This condition is a dew point temperature.

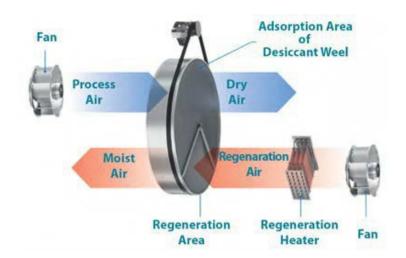
DanVex Dehumidifier Principles

DanVex uses two different dehumidifier technologies in its dehumidifiers: condensation and desiccant.



Condensation technologie

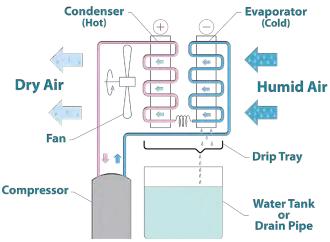
When the air is cooled below the dew point temperature, the water vapor content will become higher than the maximum possible water vapor content. Excess water vapor will begin to be forced out of the air. It condenses, turning into water, and thus is extracted from the air. In the dehumidifier, the air passes from the room through the cooling unit, reaching the dew point, the water condenses and is being removed, the air heats up to the room temperature, returning back to the room. This process takes place thanks to the freon gas compressor and accessories. All the difficulties lie in the accurate calculation, the correct selection of components, and smart process control.



Desiccant technologie

The principle of operation is to use a moisture-absorbing rotor with high adsorbing properties. Air supply to the rotor is carried out in such a way that the operating (dehumidified) air passes through 75% of the rotor sector and through 25% of the sector in the counterflow to the working one - the regeneration air preheated to a predetermined temperature. This air absorbs moisture from the rotor sorbent and withdraw it outside the room under dehumidifying.

DanVex dehumidifiers is a globally recognized standard in equipment for air dehumidification being a guarantee of the performance data and reliability declared.



Mobile Dehumidifiers DEH-p

Mobility and functionality





DEH-1000p

Room volume, m³	Max. qty., kg / room
10	0,076
15	0,114
20	0,152
25	0,19
30	0,228
35	0,266
40	0,304
45	0,342

Mobile dehumidifiers are compact devices for removing moisture from the air.

They are used to maintain comfortable conditions in country houses, apartments, museums, small swimming pools and bathrooms, storerooms, basements, etc.

The presence of a built-in condensate tank provides autonomous operation. It is also possible to connect drainage hoses to the dehumidifier, for automatic operation in continuous mode.

Light weight allows you to move the dehumidifier between rooms in the apartment or apartment house.

When choosing a model for effective dehumidification and compliance with fire safety regulations, it is necessary to strictly observe the specified minimum dimensions of the rooms where the dehumidifier will be used. These data are given in the table on the left.

Features of DEH-p mobile dehumidifiers:

- •integrated condensate tank resulting to placement in any zone of the room convenient for you;
- informative and simple control panel;
- automatic operation mode according to the set parameters of air humidity;
- heat exchangers with protective hydrophilic coating;
- compact housing made of high-quality plastic.

MODEL	DEH-1000p
Maximum capacity, L / Day (30C, 80%)	80
Maximum capacity, L / Day (20C, 60%)	41,4
Supply airflow, m3/h	450
Operating range, ℃	+10+32
Capacity of the internal condensate tank	7,2
Power, W	740
Current, A	3,2
Voltage	230V/50Hz
Noise level, dB	< 42
Refrigerant	R290A*200g
Size in wooden packaging, mm (depth * width * height)	335*515*670
Size without packaging, mm (depth * width * height)	286*480*630
Weight with wooden packaging, kg	26
Net weight, kg	23,8

Pool & Wall Dehumidifiers DEH-WP / DEH-P

Performance and elegance





The dehumidifiers of the P and WP series have been developed for use in premises with high humidity where a pleasant appearance is required.

The most well–known application is swimming pools therefore generically this series is called «for swimming pools». However DEH-P and DEH-WP dehumidifiers are used wherever it is necessary to maintain a preset humidity level taking into account aesthetic appearance. These are residential houses, laundries, museums, fitness industry, libraries, churches etc.

The P series are dehumidifiers in a plastic case that are installed on the floor.

The WP series has a stylish, practical metal case that can be mounted on the floor or hung on the wall in a room to save space and design.

All models can drain condensate into the drainage or back into the pool. The DEH-1700p model has an integrated tank with an electric pump for condensate automatic drain.



DEH-600WP/1000WP



Remote Control (for WP)

DEH-1700p

Pool & Wall Dehumidifiers DEH-WP / DEH-P

Specification Sheet



MODEL	DEH-1200p	DEH-1700p	DEH-600wp	DEH-1000wp	DEH-1700wp	DEH-2000wp
Maximum capacity, L / Day (30C, 80%)	108	168	60	100	170	200
Maximum capacity, L / Day (20C, 60%)	45,6	62	21,6	32,9	54,1	65,5
Supply airflow, m3/h	850	850	300	500	850	1100
Operating range, °C	+10+32	+10+32	+10+38	+10+38	+10+38	+10+38
Remote control	-	-	+	+	+	+
Power, W	1300	1628	760	1250	1610	2100
Current, A	5,8	7,4	3,4	5,5	6,8	9,3
Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Noise level, dB	47	48	< 46	< 48	< 46	< 48
Refrigerant	R32A*630g	R32A*700g	R32*280g	R32*500g	R32*780g	R32*900g
Size in wooden packaging, mm (depth * width * height)	370*565*1930	470*565*1930	350*840*800	350*990*800	380*1470*800	380*1470*800
Size without packaging, mm (depth * width * height)	310*485*1735	410*485*1735	270*760*695	270*900*695	270*1410*695	270*1410*695
Weight with wooden packaging, kg	64	80	56,5	69	100	105
Net weight, kg	49	67	45	50	75	80

Industrial Dehumidifiers DEH-i / DEH-K

The perfect combination of performance/ quality/ cost/ availability





DEH-900i/1200i



DEH-1600i/1900i

Professional dehumidifiers of "i" and "K" series are used to achieve the required air humidity characteristics during production and storage of goods.

It is enough to install the dehumidifier in the room, connect it to the power supply and sewage system, and the dehumidifier is ready to work.

When selecting a model, observe the following principle: the volume of air in the room should pass through the dehumidifier at least twice an hour. If there are obvious sources of moisture, choose a more powerful model.

Difference between the "i" and "K" series:

The "i" series has 1 compressor, an electronic controller with automatic operation, wheels for mobility, and a washable G1 filter.

In the more powerful models of the "K" series to achieve the required capacity there are 2 or 4 compressors, controller with wi-fi or Modbus control, UV lamp and ion generator to disinfect the air and the interior of the dehumidifier, washable G4 filter. Optionally, the dehumidifier can be connected to a duct system.

DEH-i and DEH-K are used everywhere: for maintaining set humidity in warehouses and production, for drying of materials; in medical, chemical, electrical, food and beverage, mining industries.

dehumidifiers are:

- rigid structure of body with easy access for maintenance;
- high-quality painted metal body panels;
- incoming and dehumidified air flows separated on opposite sides to achieve maximum efficiency;
- friendly maximally informative control panel;
- low noise due to vibration protection and the compressor noise isolation;
- modern industrial design;
- possibility of connecting air ducts (optional for the «K» series);
- ability to control via Wi-Fi and Modbus application (K series)



DEH-3K/5K



Controller



Industrial Dehumidifiers DEH-i / DEH-K

Specification Sheet



MODEL	DEH-500i	DEH-900i	DEH-1200i	DEH-1600i	DEH-2K	DEH-3K	DEH-5K	DEH-10K
Maximum capacity, L/Day (30C, 80%)	50	90	120	160	200	300	500	1000
Maximum capacity, L/Day (20C, 60%)	20,3	36,9	49	53,8	110	166	277	575
Supply airflow, m3/h	300	840	1400	1150	2500	3500	5000	10000
Air Pressure, Pa	n.a.	n.a.	n.a.	n.a.	200	200	200	300
Air cleaning, Filter type	G1	G1	G1	G1	UV lamp, G4	UV lamp, G4	UV lamp, G4	UV lamp, G4
Working range, %RH	30-100	30-100	30-100	30-100	30-100	30-100	30-100	30-100
Customizable humidity, %RH	10-95	10-95	10-95	10-95	10-95	10-95	10-95	10-95
Operating range, °C	+10+35	+10+35	+10+35	+10+35	+10+35	+10+38	+10+38	+10+38
Power, W	950	1260	1500	1800	4000	6000	11000	22000
Current, A	4,3	5,3	6,8	8	7	10,8	20	40
Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz
Noise level, dB	< 64	< 64	< 64	< 64	<55	< 55	< 55	< 65
Refrigerant	R32*250g	R290*250g	R290*300g	R32*1000g	R32*1700g	R32*1800g*2	R32*2200g*2	R32*2200g*4
Size in wooden packaging, mm (depth * width * height)	495*425*750	560*590*100	560*590*100	575*715*1085	660*900*1900	800*1322*2150	800*1322*2150	870*1692*2200
Size without packaging, mm (depth * width * height)	410*330*550	440*430*750	440*460*760	460*600*900	600*833*1850	600*1122*1850	600*1122*1850	670*1492*1900
Weight with wooden packaging, kg	42.5	62	70	86	180	240	275	340
Net weight, kg	34	52	54	70	161	220	250	310
Waterproof grade	IP22	IP22	IP22	IP22	IPX3	IPX3	IPX3	IPX3
Control	Digital controller	Digital controller	Digital controller	Digital controller	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus

Ducted Dehumidifiers DD / DD-F

DD-36F/56F



The long engineering experience in the development of professional equipment has led us to create a range of duct dehumidifiers with a very wide range of applications. The range includes dehumidifiers with capacities from 40 liters to 1000 liters of drainage per day. Control is performed through an external controller or remotely via Wi-Fi via smartphone application or via Modbus, RS485. Pressure fans allow the equipment to be used both independently and as part of a ventilation system.

DD-F series has an additional air intake with automatic valve for fresh air supply. The dehumidifiers are equipped with two or three-stage filtration system with HEPA-filter

For air disinfection and the elimination of unpleasant odors for example tobacco smoke, all models of the DD series are equipped with an ion generator and a UV lamp.

The dehumidifiers have a wide range of applications - from dehumidification of air in apartments and villas to public swimming pools and industrial or commercial spaces of considerable volume

Key features:

- Built-in remote control and external monitoring function;
- Compact size for flush mounting
- Easy access for maintenance;
- Two fan speeds;
- Stainless steel heat exchanger side plates
- Copper tubes with aluminum fins and Blue Fin hydrophilic coating.
- Built-in coarse, medium and fine filters, UV lamp and ionizer for air purification and disinfection.

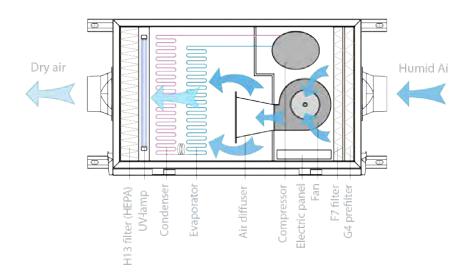


Controller

Ducted Dehumidifiers DD / DD-F



DD series

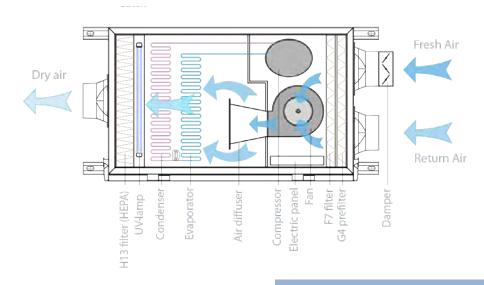


DD-F series has 2 air inlets and one air outlet. The first inlet is for recirculation and the second inlet is for fresh air supply from outside. The fresh air supply is controlled by a valve whose opening and closing can be adjusted automatically or manually.

We produce several series of duct dehumidifiers:

The DD series has one air inlet and one air outlet. Can be operated in recirculation or fresh air supply mode. If it is necessary to combine recirculation and fresh air modes, it is possible to install a tee at the inlet of the dehumidifier.

DD-F series





Ducted Dehumidifiers DD / DD-F

Specification Sheet



MODEL	DD - 36F	DD - 56F	DD - 96F	DD - 136F	DD - 168	DD - 240	DD - 380	DD - 480	DD - 720	DD - 960
Maximum capacity, L/Day (30C, 80%)	36	56	96	136	168	240	380	480	720	960
Supply airflow, m3/h	500-670	650-780	1000-1200	1200-1350	1800-2200	2500-2900	3500-3850	4800-5300	7500-9000	9000-11000
Return airflow, m3/h	350-460	470-550	680-800	750-850	1800-2200	2500-2900	3500-3850	4800-5300	7500-9000	9000-11000
Fresh airflow, m3/h	150-210	180-230	320-400	400-500	-	-	-	-	-	-
Static Pressure, Pa	100	100	100	100	200	200	200	200	400	400
Air cleaning, filter type	G4+F7+H13 (Hepa) UV-lamp, ionization	G4+F7+H13 (Hepa) UV-lamp, ionization	G4+F7+H13 (Hepa) UV-lamp, ionization	G4+F7+H13 (Hepa) UV-lamp, ionization	G4+F7 UV-lamp, ionization	G4+F7 UV-lamp, ionization	G4+F7 UV-lamp, ionization	G4+F7 UV-lamp, ionization	G4+F7 UV-lamp, ionization	G4+F7 UV-lamp, ionization
Working range, %RH	45-100	45-100	45-100	45-100	45-100	45-100	45-100	45-100	45-100	45-100
Operating range, °C	+5+38	+5+38	+5+38	+5+38	+5+38	+5+38	+5+38	+5+38	+5+38	+5+38
Power, W	620	700	920	1160	2800	4000	5500	9000	15000	21000
Current, A	3	3,3	4,9	6,2	5,1	7	10	16	26	37
Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	380/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Noise level, dB	< 45	< 45	< 45	< 45	< 55	< 55	< 55	< 55	< 55	< 55
Digital controller Wi-Fi Modbus	+	+	+	+	+	+	+	+	+	+
Refrigerant	R32*450g	R32*650g	R32*650g	R32*680g	R32*1600g	R32*1800g	R32*1600g*2	R32*1800g*2	R32*1800g*3	R32*1800g*4
Control	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus
Return air duct, mm	150	150	200	200	500x400	500x400	750x450	750x450	1200x450	1200x450
Supply air duct, mm	150	150	200	200	350x350	350x350	818x313	818x313	1058x348	1058x348
Dimensions, mm	950x539x265	950x539x265	1030x639x375	1030x639x375	1160x820x600	1160x820x600	1370x1120x720	1370x1120x720	1700x1642x720	1700x1642x720
Weight, kg	42	47	63	67	96	105	245	265	422	450

Desiccant Dehumidifiers AD

Excellent efficiency at low temperatures

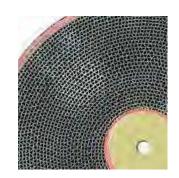


Desiccant type dehumidifiers are designed for efficient dehumidification of air with humidity up to 100% and temperature from -20 $^{\circ}$ C to + 40 $^{\circ}$ C with minimum amount of energy consumption. The temperature range from -30 $^{\circ}$ C to + 50 $^{\circ}$ C is also achievable with a special request.

Usually dehumidifiers of this type are used if a humidity of less than 30% is required in the premise and /or the air temperature is less than +10 °C since condensation dehumidifiers become ineffective in such conditions.



DanVex AD dehumidifiers are used for indoor or outdoor installation where air humidity regulation is required independently or in combination with a ventilation and air treatment system.



Air supply to the rotor is carried out in such a way that the working (dehumidifying) air passes through 75% of the rotor sector. Through the remaining 25% of the sector, preheated air for regeneration is directed in counterflow to the working air. It absorbs moisture from the rotor sorbent and removes it outside the dehumidified room.

Slight overpressure of water vapor contributes to the efficient exchange of humidity between air and sorbent and the quality of regeneration is controlled by the temperature of the regeneration air. In addition the regeneration air performs the function of cleaning the inner surface of the rotor from possible contamination due to dust ingress together with the operating air. The rotor rotation allows you to combine the process of operating air sorption with the regeneration of the sorbent.

The absence of condensate allows the installation to be used without being bound to the sewage system

Desiccant Dehumidifiers AD



AD-3000



Features:

- •the body and all internal elements are made of stainless steel or steel with powder coating;
- •ability to work with an external humidity sensor (supplied complete with);
- •electrical engineering design in accordance with the international standard EN60204;
- protection class IP44;
- suitable for very cold places and with high humidity;
- •all-weather continuous operation from -20°C to + 40°C of the environment;
- •the rotor contains a highly effective silica gel that absorbs water vapor well;
- •airflow belt drive and rotational speed are optimized for maximum efficiency;
- effective sealing solution to reduce air leaks



AD-200

Desiccant type dehumidifiers are much more expensive than condensation type dehumidifiers both in cost and in operation. Therefore, they are used in cases where the use of a condensation type dehumidifier is impossible or unprofitable due to extreme humidity and/or temperature requirements

Desiccant Dehumidifiers AD

Specification Sheet



MODEL	AD-200	AD-400	AD-550	AD-800	AD-1000	AD-1500	AD-3000
Nominal capacity (20°C/60%), kg/hour	0,6	2,2	3	5	7	11	22
Nominal capacity (20°C/60%), kg/day	14,4	52,8	72	120	168	264	528
Dry airflow, m3/hour	180-220	400	550	820	1100	1550	3000
Static pressure, Pa	70	50	100	200	200	200	300
Regeneration airflow, m3/hour	60	130	200	250	400	580	990
Static pressure, Pa	50	50	50	150	150	150	200
Rated power, KW	1,2	2	3,8	9	12	13	34
Rated current, A	6	10	20	13,6	18	20	52
Voltage	230V / 50Hz	230V / 50Hz	230V / 50Hz	400V / 50Hz	400V / 50Hz	400V / 50Hz	400V / 50Hz
Noise, dB	< 45	< 50	< 65	70	70	80	100
Diameter Proces air IN, mm	100	125	125	200	200	250	400
Diameter Dry air OUT, mm	100	125	125	200	200	250	450*225
Diameter Regenertion air IN, mm	80	80	80	150	150	160	200
Diameter Regeneration air OUT, mm	80	80	80	150	150	160	200
Dimensions, mm (depth * width * height)	292*442*678	425*680*400	420*578*867	640*877*1232	640*877*1232	660*888*1238	1000*2200*1240
Weight, kg	30	34	60	165	175	190	380
Control	Digital controller	Digital controller	Digital controller	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus	Digital controller, Wi-Fi, Modbus

Ultrasonic Humidifiers HUM-S



DanVex industrial ultrasonic humidifiers are capable of maintaining humidity levels up to 100%. The temperature of the resulting «fog» depends on the supplied water temperature. DanVex humidifiers are designed to be placed directly in the premise being served on the floor. Hanging on the wall is also allowed.

The principle of operation

Air humidification in the premise takes place due to water ultrasonic spraying in the humidifier body and water particles movement through the steam pipe using the air flow created by the built-in fan.



DanVex humidifiers of the HUM-S series are equipped with an electronic control panel. Humidity level control is carried out using a remote hygrostat.

The humidifier has an automatic operation mode. Once the set humidity is reached the humidifier turns off and switches to humidity control mode. When the humidity decreases by more than 2% of the set humidity the humidifier turns on and humidification takes place.

Application

DanVex humidifiers are used in all kind of activity and production. The main application is the elimination of static electricity dust reduction humidity control. It is impossible to avoid humidifier in furniture paper, textile, leather, automotive, electrical, chemical production, printing, houses, warehouses, server rooms, storages of vegetables and fruits etc.



Ultrasonic Humidifiers HUM-S

Specification Sheet

Advantages:

- · compact stainless steel housing;
- easy to install and maintain;
- instant readiness to work;
- · modern and practical design;
- uniform steam supply;
- safe steam temperature;
- low cost of operation and maintenance;
- high fire safety due to the absence of heating elements;
- small size of water particles promotes rapid absorption by air;
- remote hygrostat for indoor humidity control;
- mechanical water purification filter included



HUM-3S/6S

MODEL	HUM-3S	HUM-6S	HUM-9S	HUM-12S	HUM-15S	HUM-18S
Maximum capacity, I/h	3	6	9	12	15	18
Maximum capacity, l/day	72	144	216	288	360	432
Supply airflow, m3/h	180	180	280	280	300	400
Working range, % RH	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%	0% - 100%
Static Pressure, Pa	20	20	40	40	50	50
Operating range, ℃	+5°C+38°C	+5°C+38°C	+5°C+38°C	+5°C+38°C	+5°C+38°C	+5°C+38°C
Mist vent, mm	1 * 110	1 * 110	2 * 110	2 * 110	3 * 110	3 * 110
Power, W	300	600	900	1200	1500	1800
Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Net weight, kg	26	28	36	39	50,5	54
Size in wooden packaging, mm (depth * width * height)	700*460*740	700*460*740	760*550*750	760*550*750	770*770*750	770*770*750
Size without packaging, mm (depth * width * height)	600*330*495	600*330*495	640*420*500	640*420*500	640*640*500	640*640*500
Weight with wooden packaging, kg	36,5	39,5	55	58,8	73	77
Control	Remote hygrostat, automatic mode					

Air to Water Heat Pump Systems



The DanVex heat pump is designed for absolute comfort - it is a unique 3-in-1 system that heats, cools and produces domestic hot water, it provides maximum comfort all year round. The inverter compressor adapts to changes in temperature outside the house and smoothly changes the power for heating.

Monoblock concept. All components are combined in one outdoor unit, thus the pump has a simple plumbing connection to the heating and water supply systems of the house.





The installation is accessible to a specialist plumber and does not require the qualification of a refrigeration engineer, as there is no need to install refrigerant piping.

The built-in redundant electric boiler, allows the DanVex heat pump to be efficient even at low ambient temperatures down to -25°C, withstanding the harshest winter climates.

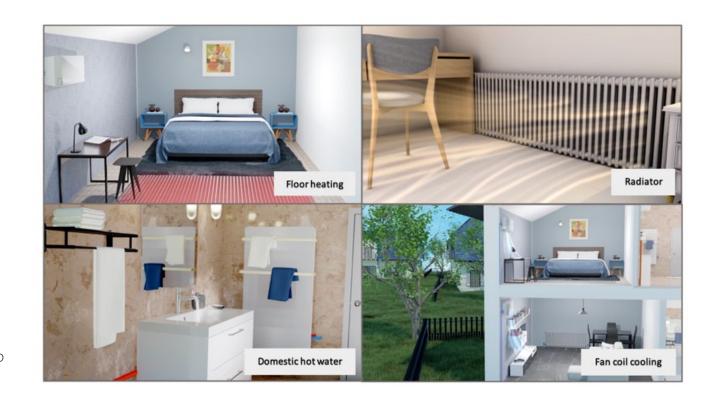
A smart controller with touch screen, built-in wi-fi and Modbus functionality is included.

You can easily control your home climate or hot water systems with a smartphone app. It allows you to easily read the status of your heating system and, if necessary, optimize your energy consumption remotely, without costly trips.

Air to Water Heat Pump Systems

Operating mode:

- Hot water up to +60°C
- Heating + hot water
- Cooling + hot water
- Heating at outside temperature down to 25℃
- Air cooling at outside temperatures up to + 43°C



DanVex heat pump - comfort and durability

- Low noise level
- High and low pressure gauges
- Controller with touch screen and RS485
- Control via WIFI with smartphone

- Monoblock concept, easy to install, does not require installation of freon cooling circuit
- Works at low temperatures down to -25°C, equipped integrated electric backup heater

Air to Water Heat Pump Systems

Model			AW-9M1	AW-15M1	AW-15M3	AW-20M3	AW-25M3	
Heating o	capacity	kW	4.1~10.8	6.5~20.2	6.5~20.2	9.0~26	11.3~31	
Heating	Capacity	kW	8.933	15.031	15.031	19.935	24.801	
(A7/W35)	Power input	kW	2.080	3.490	3.490	4.505	5.828	
(/ (// **33)	COP		4.3	4.31	4.31	4.43	4.26	
Heating	Capacity	kW	8.156	13.946	13.946	19.625	23.600	
(A7/W55)	Power input	kW	2.957	4.954	4.954	7.049	8.395	
(((), (()))	COP		2.73	2.82	2.82	2.78	2.81	
Power supply		V/Ph/Hz	220-24	0/1/50		380-415/3/50		
Electrical heater power kW		3	4.5	4.5	6	6		
Electrical heater current A		13.6	20.5	13.6	18.2	18.2		
Max power input kW		7.39	11.8	11.66	15.2	16.5		
Max current A			33.6	53.6	24.5	32.2	34.1	
Operating air temp.		°C	-25					
Max. water temp. °C			60					
Working mode			Heating, Cooling, Hot water					
Compressor			Heating + Hot water, Cooling + Hot water Mitsubishi Twin rotary DC inverter					
Condenser					ate heat exchanger	Citci		
Evaporator					& hydrophilic fin-tub	es		
Expansion valve			Electronic expansion valve					
High pressure switch			4.2/3.6MPa					
Low pressure switch			0.05/0.15MPa					
Water flow		m3/h	1,5	2.6	2.60	3.40	4.30	
Pipe connection inch		1-1/4	1-1/4	1-1/4	1-1/4	1-1/4		
Refrigerant (R32) kg		1.2	2.3	2.3	2.8	3.0		
CO2 equivalent ton		0.81	1.5525	1.5525	1.89	2.025		
Net size mm			1120x480x712				1415	
Net weight		kg	86	123	123	170	185	
Noise		dB(A)	52	56	56	58	58	