LEWACO

LEWACO *Project and Implementation Office*

86-300 Grudziądz
ul. Powstanców Wielkopolskich 24
phone/fax (56) 462 21 68

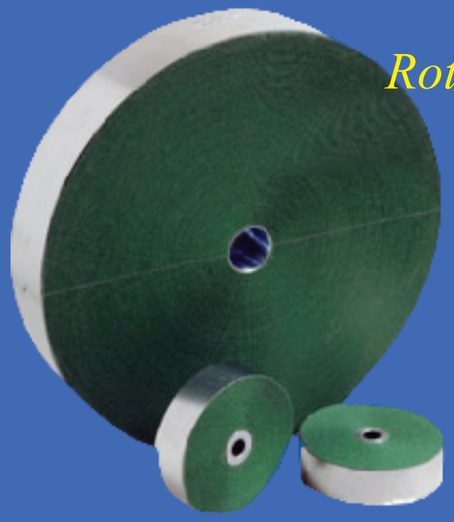
biuro@lewaco.pl
lewaco@grudziadz.com.pl

www.lewaco.pl

AIR DEHUMIDIFIERS

Most effective air dehumidifiers worldwide

www.e-osuszanie.pl



Rotor the heart of each dehumidifier...

RELIABILITY

EXPERIENCE

ENERGY EFFICIENCY

LEWACO

Pioneer in the dehumidification sector in Poland !

Since 1995 we deliver and assemble industrial desiccant dehumidifiers and complete dehumidification systems in all industry branches. We have experience of many years that allows us to solve problems related to humidity in the air.

LEWACO produces a wide range of desiccant dehumidifiers both in standard versions and equipped with heat pumps or heat recovery systems as well.
The energy efficient dehumidifiers of the BDHM E and BDHM F type are unique products - the quantity of consumed electric energy necessary for the condensation of 1 kg of water from the air is 3-times smaller than in other known solutions. We offer also industrial condensation dehumidfiers of the KT series that exceptionally prove true operating in high humidity and temperature.
Due to the application of special solutions the KT dehumidfiers can operate also in low temperatures.

LEWACO as a producer and distributor of dehumidifiers assures also service and after warranty services.

LEWACO it is also technical support and preparation of conceptions and projects for the needs of our customers having troubles with air humidity.

DEHUMIDIFIERS

Contents

DHM

Standard desiccant dehumidifier with electric regeneration heater and one-phase electric power supply

Dehumidification capacity at 20°C / 60%
from 0,6 to 4,2 kg/h

Dry air capacity
from 140 to 700 m /h

Benefits of DHM dehumidifiers:

- housing made of stainless metal sheet
- not dust evolving, washable, desiccant rotor
- small device weight, grip for easy transport
- adaptation for the connection of round ventilation ducts and flexible pipes
- high dehumidification capacity
- application in construction industry warehouse dehumidification, water clearing plants, corrosion protection

Technical data of DHM C dehumidifiers with one fan:

TYPE	Capacity * [kg/h]	Dry air** [m^3/h]	Wet air [m^3/h]	Energy consumption [kW]	Dimensions		
					L	W	H
DHM 06C	0,6	140	45	0,9	305	460	390
DHM 09C	0,9	330	60	1,3	350	410	390
DHM 11C	1,1	360	60	1,6	350	410	390
DHM 12C	1,2	200	50	1,6	390	450	430
DHM 16C	1,6	300	100	2,2	510	450	525
DHM 19C	1,9	350	100	2,5	510	450	525
DHM 27C	2,7	500	180	3,6	700	695	785
DHM 42C	4,2	700	250	4,8	700	695	785

* for initial air parameters: t= 20°C, 60% RH
** air flow for density 1.2 kg/m^3
Electric supply of DHM 27C and DHM 42C – 400V, 50Hz ; other DHM.C units - 230V , 50Hz

Technical data of DHM D dehumidifiers with two fans:

TYPE	Capacity * [kg/h]	Dry air** [m^3/h]	Wet air [m^3/h]	Energy consumption [kW]	Dimensions		
					L	W	H
DHM 06D	0,6	190	40	0,8	300	295	715
DHM 14D	1,4	300	90	2,9	510	660	625
DHM 16D	1,6	450	100	3,4	400	350	410
DHM 17D	1,7	350	100	3,0	510	660	625
DHM 21D	2,1	500	120	3,6	468	451	455
DHM 30D	3,0	500	150	5,0	700	960	785
DHM 42D	4,2	700	210	7,0	700	960	785

* for initial air parameters: t= 20°C, 60% RH
** air flow for density 1.2 kg/m^3
Electric supply of DHM 30D and DHM 42D – 400V, 50Hz ; other DHM.D units - 230V , 50Hz

BDHM A

95A/130A/155A/220A/290A

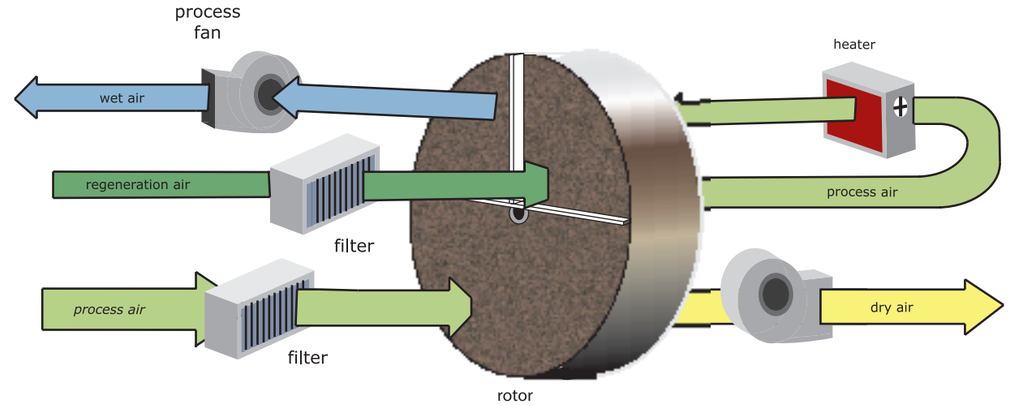
Dehumidification capacity at 20°C / 60%
from 10 to 29,0 kg/h

Dry air flow
from 1500 to 5000 m^3/h

Benefits of BDHM A dehumidifiers:

- BDHM A dehumidifiers are made of stainless metal sheet or painted, and are equipped with sectional filters of the EU4 class for process and regeneration air
- process and regeneration air fans with direct drive
- inside regeneration heat recovery system decreasing the energy consumption
- equipped with electric regeneration heater as standard, but gas, steam and water heaters are available as option
- exceptionaly efficient desiccant rotor with long durability
- rotor drive system visible through installed inspection window
- dehumidifier can be installed in narrow places, access to filters and control of the electric gearswitch from the front side of the device, what means that the device can be situated near a wall.
- facility to add preliminary and end radiators, filters with higher precision, fans with inverters

Operation principle of BDHM A dehumidifiers

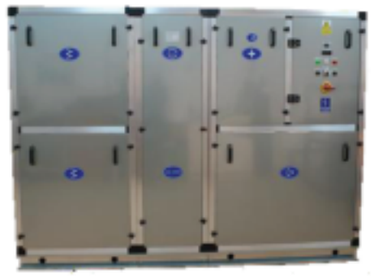


Technical data of BDHM A dehumidifiers

Operation temperature
range from -25 to +40°C
Humidity range: 0÷100%
Standard power supply: 400V,50 Hz
DEHUMIDIFIERS OF OTHER CAPACITIES AVAILABLE ON REQUEST

* for initial air parameters: t= 20°C, 60% RH
** air flow for density 1.2 kg/m^3

DEHUMIDIFIER TYPE	95A	130A	155A	220A	290A
Dehumidification capacity*	10 kg/h	13 kg/h	15,5 kg/h	22 kg/h	29 kg/h
Dry air quantity**	1500 m^3/h	2400 m^3/h	2600 m^3/h	3600 m^3/h	5000 m^3/h
Available static pressure	300 Pa	300 Pa	350 Pa	300 Pa	250 Pa
Wet air quantity**	600m^3/h	700m^3/h	800 m^3/h	1200 m^3/h	1600 m^3/h
Available static pressure	250 Pa	250 Pa	300 Pa	300 Pa	250 Pa
Regeneration heater power	14 kW	17,5 kW	21 kW	31,5 kW	42 kW
Total electric power	15,65 kW	20,25 kW	24 kW	34 kW	47,2 kW
Main protection 400V~;50Hz	25	35	50	63	80
Weight	180kg	230kg	450 kg	600 kg	750 kg



BDHM B

High efficiency desiccant dehumidifier to achieve low dew points

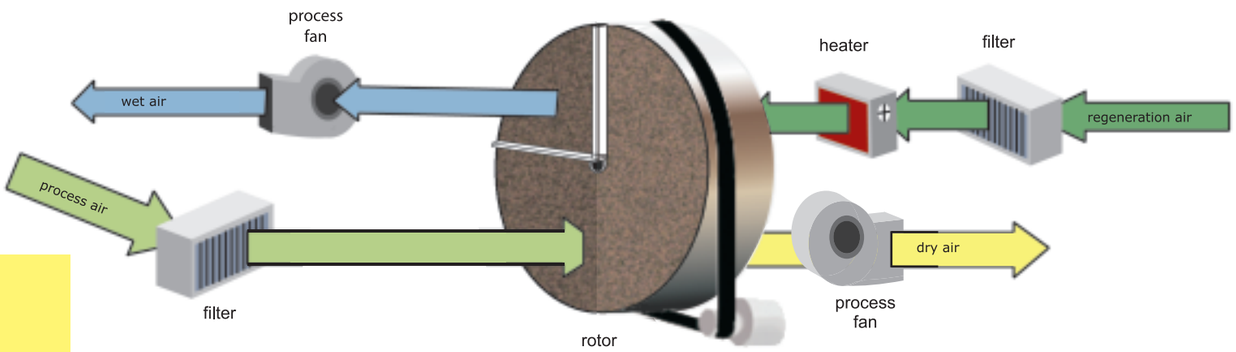
Dehumidification capacity at 20°C / 60%
from 21,5 to 98 kg/h

Dry air capacity
from 3000 to 14000 m³/h

Benefits of BDHM B dehumidifiers:

- BDHM B dehumidifiers were designed for the needs of process dehumidification, where priority is to achieve low dew points, dehumidifiers are made of aluminium profiles and panels insulated with 50 mm mineral wool, complete made of stainless metal sheet
- usually the regeneration heater is electrical but as option there are gas, steam and water heaters are avilable. For the regeneration temperature measurement an electronic temperature regulation was implemented due to sectional
- construction of the BDHM B dehumidifiers they can be produced customized for respective application version. Besides of their dehumidification function they can be equipped with preliminary and end radiators, process heaters, heat recovery system or additional filtration
- for the construction of the dehumidifiers high quality materials and reliable components of known producers were used
- exceptionaly efficient desiccant rotor with long durability
- available pressure of the process and regeneration fans is selected individually

Operation principle of BDHM B dehumidifiers



Technical data of BDHM B dehumidifiers

TYPE	Capacity * [kg/h]	Dry air** [m³/h]	Wet air [m³/h]	Energy consumption [kW]	Dimensions		
					L	W	H
BDHM 215B	21,5	3000	900	38,1	2710	1120	1680
BDHM 265B	26,5	4000	1300	51,3	2710	1120	1680
BDHM 310B	31	4500	1500	55,3	2710	1420	1980
BDHM 460B	46	7000	2200	90,2	2710	1420	1980
BDHM 560B	56	7500	2500	109,0	2910	1420	1980
BDHM 680B	68	10000	3300	123,0	2910	1420	1980
BDHM 820B	82	11000	4000	149,5	3210	1700	2260
BDHM 980B	98	14000	4600	177,0	3210	1700	2260

Operation temperature range: from -25C to +40°C
Humidity range: 0÷100%;
Standard power supply 400V , 50 Hz,
DEHUMIDIFIERS WITH OTHER CAPACITIES AVAILABLE ON REQUEST

* important for conditions 20°C, 60% RH
** for density 1.2 kg/m³

BDHM E

Desiccant dehumidifier with integrated heat pump – most effective dehumidification

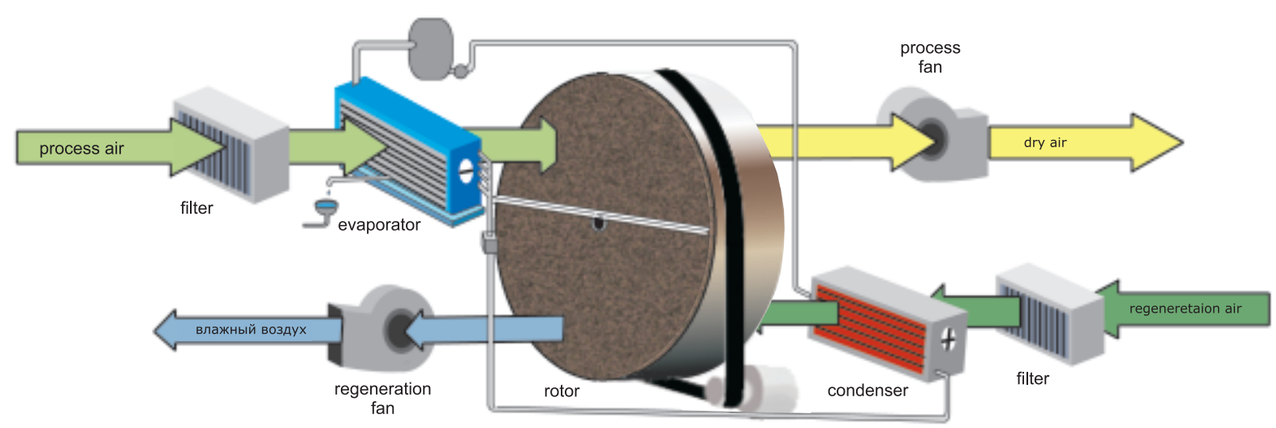
Dehumidification capaciity at 20°C / 60%
from 7,5 to 93 kg/h

Dry air capacity from
1200 to 30000 m³/h

Benefits of BDHM E dehumidifiers:

- total energy consumption is 3 times lower in relation to the standard desiccant dehumidifier and twice lower in relation to the condensation dehumidifier
- low dry air temperature – cooling of the air behind the dehumidifier is not necessary
- achieving of low dew points up to DP = -10°C is possible
- insulated panels with the thickness of 50mm made of stainless metal sheets, integrated in aluminium profiles
- heat pump compressor with permanent regulation of cooling capacity ensures high operational economy of the device
- optimal configuration fitting the customer needs is available, electrical switchgear with control system is standard
- exceptionally efficient desiccant rotor with long durability
- available pressure of the process and regeneration fans is selected individually

Operation principle of BDHM E dehumidfiers



Technical data of BDHM E dehumidifiers

Operation temperature range: od +5 do +35°C
Humidity range: 0÷100%;
Standard power supply 400V , 50 Hz,
DEHUMIDIFIERS WITH OTHER CAPACITIES AVAILABLE ON REQUEST

* important for conditions 200C, 60% RH
** for density 1.2 kg/m³

TYPE	Capacity* [kg/g]	Dry air** [m³/h]	Wet air [m³/h]	Energy consumption [kW]
BDHM 75E	7,5	1200	600-240	5
BDHM 100E	10	1400	800 - 2600	6
BDHM 140E	14	2000	1000 - 3600	7
BDHM 165E	16,5	2600	1200 - 4200	8,5
BDHM 200E	20	3100	1800 - 5200	11
BDHM 240E	24	3600	1 600 - 5 500	12
BDHM 300E	30	4000	1 800-6 200	13
BDHM 350E	35	5000	1 900 - 6 800	18,5
BDHM 440E	44	6400	3 000 - 12 800	23
BDHM 520E	52	7600	3 800 - 15 200	25
BDHM 650E	65	9000	4 600 - 16 600	27,5
BDHM 780E	78	10 500	5 200 - 21 000	31
BDHM 930E	93	12 000	11 000 - 40 000	38

BDHM F

Desiccant dehumidifier
with integrated heat pump
-energy efficient dehumidification

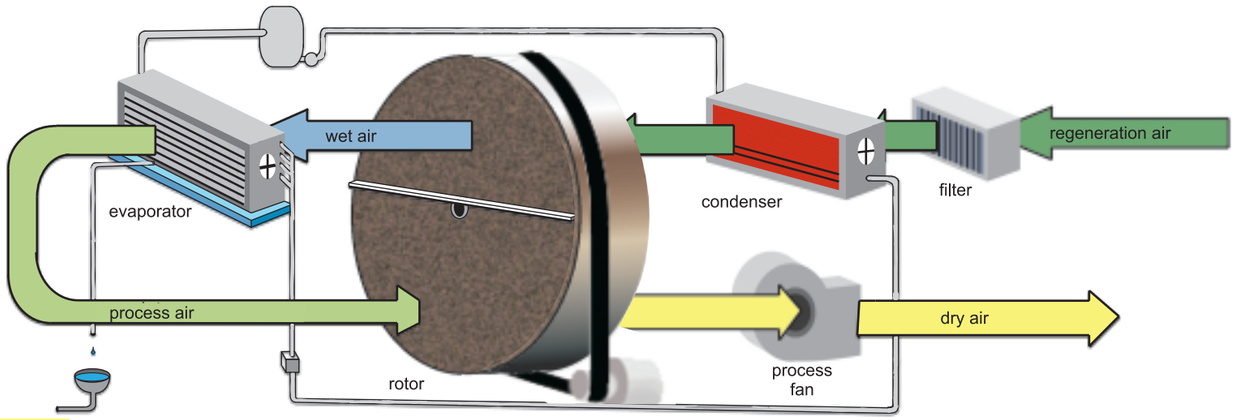
Dehumidification
capacity at 20°C / 60%
from 10,2 to 80,0 kg/h

Dry air capacity
from 3 700 to 33 700 m^3 /h

Benefits of BDHM F dehumidifiers:

- total energy consumption 3-time lower in relation to the standard desiccant dehumidifier patented
- operation principle is a combination of desiccant cooling and dehumidification
- installation of wet and regeneration air ducts is not necessary
- facility to achieve low dew points up to DP = -10°C
- insulated panels with the thickness of 50mm made of stainless metal sheet, integrated in aluminium profiles
- heat pump compressor with permanent regulation of cooling capacity ensures high operational economy of the device
- optimal configuration fitting the customer needs is available, electrical switchgear with control system is standard

Operation principle of BDHM F dehumidifiers

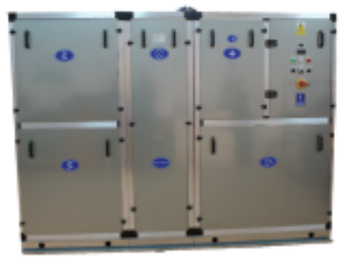


Technical data of BDHM F dehumidifiers

TYPE	Capacity* [kg/h]	Dry air** [m^3/h]	Compressor power [kW]	Total energy consumption [kW]
BDHM 81F	10,2	3700	4,2	5,7
BDHM 101F	14,4	5200	5,9	8
BDHM 102F	17	7400	7	9,5
BDHM 122F	28	12000	9,5	14,4
BDHM 152F	50	20900	21	32,9
BDHM 172F	63	26600	26,5	41,5
BDHM 192F	80	33700	33,6	52,6

Operation temperature range: from +5 to +25°C
Humidity range: 0÷100% RH
Standard power supply 400V , 50 Hz,
DEHUMIDIFIERS WITH OTHER CAPACITIES AND CONFIGURATIONS AVAILABLE ON REQUEST

* important for conditions 20°C, 60% RH
** for density 1.2 kg/m



BDHM R

Standard desiccant dehumidifier with regeneration electrical heater, three-phase power supply

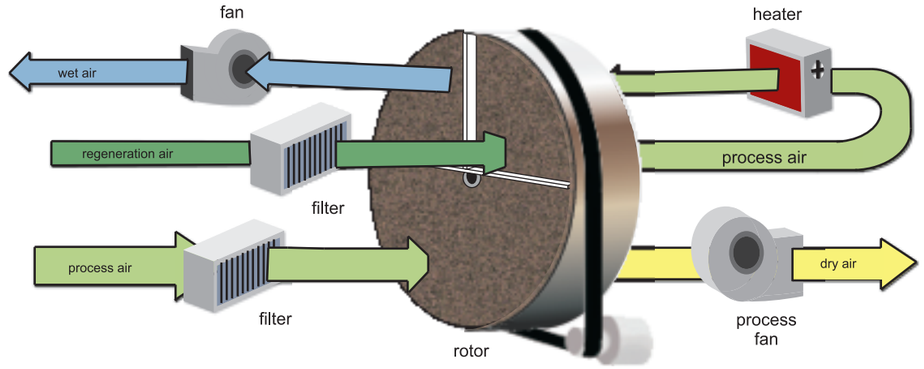
Dehumidification capacity
at 20°C / 60%
from 4,6 to 95 kg/h

Dry air capacity from 1000
to14000 m^3 /h

Benefits of BDHM R dehumidifiers:

- BDHM R dehumidifiers were designed for the needs of process dehumidification, they are made of aluminium profiles and panels insulated with 50 mm mineral wool, complete made of galvanized metal sheet.
  Optionally the panels can be made of stainless metal sheet
- the regeneration heater is electric as standard, but there are gas, steam and water heaters available.
  For the regeneration temperature measurement an electronic temperature regulator is applied
- due to sectional construction of the BDHM R dehumidifiers they can be produced customized for respective application version. Besides of their dehumidification function they can be equipped with preliminary and end radiators, process heaters, heat recovery system or additional filtration
- for the construction of dehumidifiers high quality materials and reliable components of known producers were used
- exceptionaly efficient desiccant rotor with long durability
- available pressure of the process and regeneration fans is selected individually.

Operation principle of BDHM R dehumidifiers



Technical data of BDHM R dehumidifiers

Type	Capacity * [kg/h]	Dry air ** [m^3/h]	Wet air [m^3/h]	Energy consumption [kW]	Dimensions		
					L	W	H
BDHM 46 R	4,6	1000	250	6,4	680	450	1110
BDHM 50 R	5,2	900	350	7,8	680	550	1200
BDHM 75 R	7,5	1200	450	12	1660	810	1370
BDHM 80 R	7,3	1250	430	10,5	845	620	1080
BDHM 90 R	10	1500	580	14,7	845	620	1080
BDHM 100 R	10	1500	600	15,5	1560	910	1370
BDHM 125 R	12,5	2000	500	19	1760	1030	1390
BDHM 150 R	15	2600	900	24	1760	1030	1390
BDHM 200 R	20	3500	1300	32	1950	1250	1590
BDHM 240 R	24	4300	1500	40	2050	1350	1790
BDHM 300 R	30	5000	1900	48	2150	1350	1790
BDHM 380 R	38	6500	2300	54	2300	1480	1900
BDHM 420 R	42	7500	2500	64	2500	1650	1950
BDHM 540 R	54	9000	3000	80	2800	1650	1950
BDHM 660 R	66	11000	4200	110	3400	1650	1950
BDHM 950 R	95	14000	4700	127	3500	1650	2300

Operation temperatue range:
from -25 to +40°C
Humidity range: 0÷100%;
Standard power supply 400V , 50 Hz,
DEHUMIDIFIERS WITH OTHER CAPACITIES AND CONFIGURATIONS AVAILABLE ON REQUEST

* important for conditions 20°C, 60% RH
** for density 1.2 kg/m^3

KT

Industry refrigerative dehumidfiers

Series consists of 6 dehumidification models
from 126 to 870 kg/24h

Dehumidifiers of the KT series are devices with high dehumidification capacity special designed for industry and commercial purposes, where the humidity level should be controlled or where condensation of the water steam should be prevented. The device is foreseen for dehumidification of archives, storehouses, paper, sugar and other higroscopic materials, industrial halls, production rooms and coldstores. This series consists of 6 basic models that are available in the dehumidification capacity range from 126 to 870 kg/24h. The KT units were designed in such a way to make the maintanace and service easy so each of their parts is easly accessible and when necessary simply to replace, reducing in this way the service and miantanance costs. All devices are completly factory-assembled and factory-wired, they are thoroughly emptied and dried and were subjected to tightness tests under pressure as well, and afterwards filled with the coolant R407C. Before the transportation they were subjected to essential startup tests. The devices comply with the European Directives and have a Declaration of Conformity.

Versions of KT dehumidifiers:

KT.. - standard industry dehumidifiers
KT.. S - standard industry dehumidifiers equipped with defrost function of the evaporator by means of hot gas
KT.. P.. - special industry dehumidifiers made according to individual projects and customer demand.
KT.. CH - with temperature control. This dehumidifier type is equipped with additional condenser and is used where beside of humidity control also temperature has to be regulated. Additional condenser can be assembled in a dehumidifier or outside of it. These dehumidifiers can be equipped in defrost function with hot gas as well.

Accessories for KT dehumidifiers:

- mechanical or electronic humidistat
- housing made of stainless metal sheet
- increased static pressure of the fan
- version with carriage on wheels

Technical data of KT dehumidifiers

Type	Dehumidifier capacity at 30°C/80% [L/24h]	Capacity at 20°C60% [L/24h]	Dry air quantity [m³/h]	Power supply [V/f/Hz]	Power consumption max [kW]	Temperature operation range [°C]	Humidity operation range [%]	Dimensions [LxWxH]	Weight [Kg]
KT160	126	48	1400	230/1/50	2,0	5-3	30-99	920x670x500	66
KT160S	126	48	1400	230/1/50	2,0	1-35	30-99	920x670x500	66
KT240	188	70	1600	400/3/50	2,9	5-35	30-99	920x670x500	72
KT240S	188	70	1600	400/3/50	2,9	1-35	30-99	920x670x500	72
KT360	300	110	3000	400/3/50	4,5	5-35	30-99	920x670x500	150
KT360S	300	110	3000	400/3/50	4,5	1-35	30-99	920x670x500	150
KT520	440	170	3800	400/3/50	5,8	5-35	30-99	920x670x500	190
KT520S	440	170	3800	400/3/50	5,8	1-35	30-99	920x670x500	190
KT750	600	280	6200	400/3/50	9,0	5-35	30-99	2000x1300x1600	230
KT750S	600	280	6200	400/3/50	9,0	1-35	30-99	2000x1300x1600	230
KT980	870	330	8500	400/3/50	11,2	5-35	30-99	2000x1300x1600	320
KT980S	870	330	8500	400/3/50	11,2	1-35	30-99	2000x1300x1600	320

KT P – individually designed dehumidifiers, according to customer requirements, in high processed air cooling and dehumidification technology (compressors with permanent capacity regulation, etc)

KT 90/120F

Dehumidification capacity at 30°C/80% **from 80 to 106 l/24h**

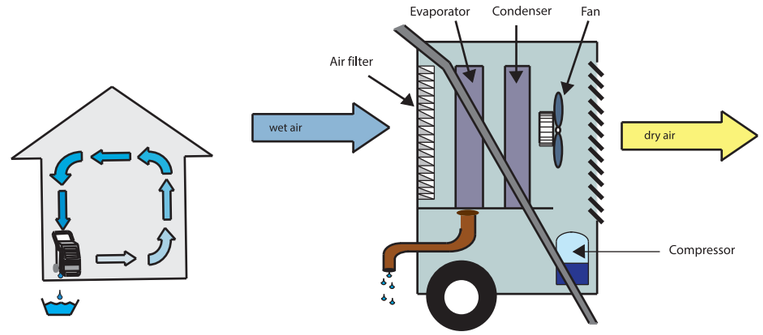
Dry air capacity from 750 to 850 m³/h

The refrigerative dehumidifiers chill the inlet air under the dew point. In the first stage the wet air flows through a filter that has the task to catch the dust and dirt carried by the air. Later on the air flows to the evaporator, where it is chilled under the dew point. On this stage follows the water steam condensation. The water floculated from the air is racked out through a flexible pipe to the outside of the device, whereby the dehumidified air flows additionally through a condenser where it is heated. The temperature of dry air is near the temperature of the inlet air.

Model	**KT 90F (FW)**	**KT 120F (FW)**
Dehumidification capacity		
30°C/80% l/24h	80	106
25°C/70% l/24h	58	77
20°C/60% l/24h	50	66
Air flow m³/h	750	850
Power consumption 20°C/6 0 % W	1350	1450
Power supply V/Hz	230/50	230/50
Cooling agent	R410	R410
Operation temperature range °C	3 - 35	3 - 35
Weight kg	55	60
Dimensions (H x W x L) mm	1035x690x580	1035x690x580

NOTE: KT 90FW and KT 120FW means a version adapted for the connection of ventilation ducts.

Operation principle of KT90/120F dehumidifiers



Benefits of KT90/120F dehumidifiers

- Automatic defrosting assembled as standard
- Operation in low temperatures already from 3°C possible
- High dehumidification effciency
- HEPA filter eliminating contaminations and unpleasant odour
- Integrated electric humidity sensor with display
- Environment friendly cooling agent
- Dehumidifier adjusted for permanent operation
- Ventilation duct connection possible
- Holders and wheels facilitating the usage and transportation, shock resistant housing

KT 38F

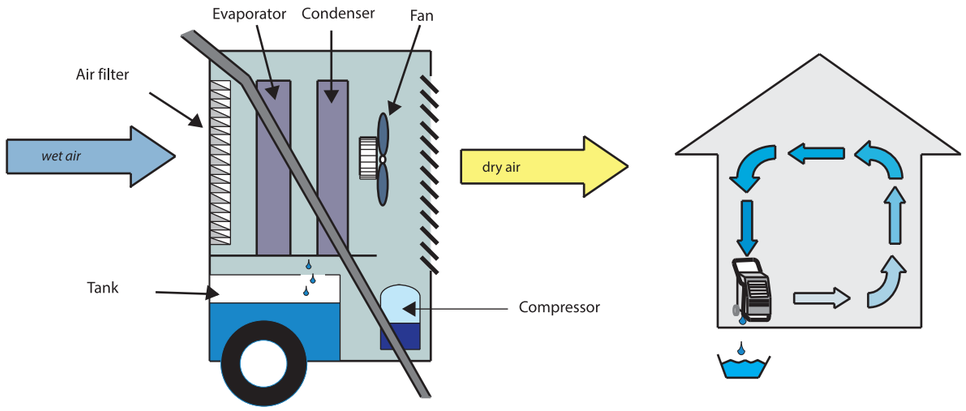
Dehumidification capacity at 30°C/ 80% **36l/ 24h**

Dry air capacity **300 m^3/h**

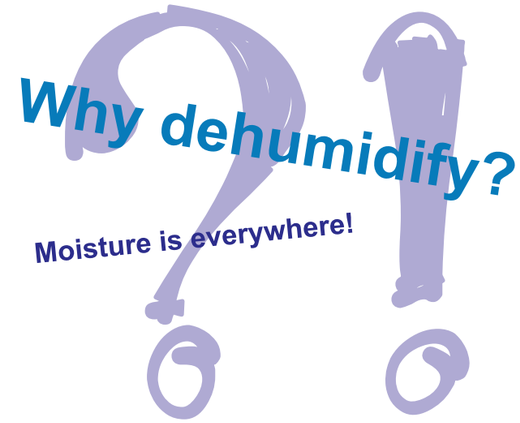
The dehumidifiers chill the inlet air under the dew point. In the first stage the wet air flows through a filter that has the task to catch the dust and dirt carried by the air. Later on the air flows to the evaporator, where it is chilled under the dew point. On this stage follows the water steam condensation. The water from the air flows to a tank (or is drained to the sewage system). Although the dehumidified air flows further through a condenser, where it is heated. Finally the outlet air blown out by the device has the temperature approximated to the temperature that had the inlet air sucked in by the device.

Model	**KT 38F**
Dehumidification capacity	
30°C/80% l/24h	36
25°C/70% l/24h	19
20°C/60% l/24h	14
Air flow m^3/h	300
Power consumption 20°C/60 % W	730
Power supply V/Hz	230/50
Cooling agent	R410a
Water tank volume l	6
Weight kg	26
Dimensions (H x W x L.) mm	440x320x590

Operation principle of KT 38F dehumidifiers



Wet air can cause damage of buildings and products and decrease the efficiency of production processes. LEWACO dehumidifiers are the best solution to fight the harmful moisture effects.



Corrosion

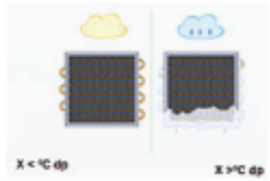
Iron and steel will not rust if the air relative humidity in their surroundings is below 50% RH

Condensation

Water will not condensate on cool surfaces if the dew point temperature of the air in contact with it is lower than the cool surface temperature.

Ice formation

Ice will not form on the exchanger surface if the dew point temperature of the air in contact with it is lower than the surface temperature.

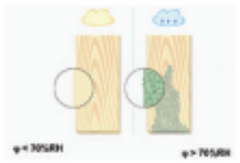


Material higroscopicity

High quality of such products like pills, dry food, powders, sweets and other higroscopic materials can be achieved when from the beginning of the production process till the moment of the sale to the customer the product touches only the air with low realitive humidity. The majority of higroscopic materials do not absorb the moisture when the humidity of the air is lower than 50%. But there are products that require a relative humidity below 15%.

Mould

Keeping in the air the relative humidity below 70%, prevents mould formation and fungus growth.

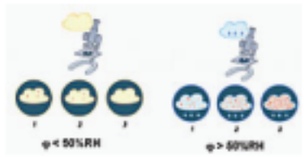


Product dehumidification

If the dehumidified products are high temperature sensitive then the achieving of very low relative humidity of products is possible through sorption dehumidifiers.

Bacteria

Bacteria need humidity to maintain the life processes and procreation. Often the moisture included in higroscopic materials serves as nutrient solution for the bacterium development. Keeping the relative humidity below 50% prevents the bacteria reproduction.



PHARMACEUTICALS

The air humidity is exceptionally important in the process of production and coating of pills. The dehumidifiers are able to keep the humidity on a properly low level causing in this way significant shortening of the pill drying process.
Dry air means among others proper powder viscosity from which the pills are made, powder coagulation before the capsule will be sealed and the facility to place different powder ingridients. During the process of dehumidification of products in fluidal dehumidifiers the dry air from the LEWACO dehumidifiers enables the work through the entire year independently from weather conditions.

ENERGETICS

During the standstill some of the energetic devices such as: kettles, turbines, electro filters, generators could be subject to corrosion processes. The use of standstill preservation in form of dry air through the LEWACO dehumidifiers will succesfully protect them

STORAGE

Storing of goods in dry air is used for many materials: powders, sugar, coffee, electronic devices, military equipment. Dry air is necessary to keep an appropriate high quality of products. The air dehumidification is more economic than heating and ventilation of large storage surfaces. Due to the application of dehumidifiers the level of relative humidity in storehouses can be controlled and the products can be stored over long periods of time.
The application of LEWACO dehumidifiers prevents the formation and growth of corrosion, bacteria and mould.

MEAT INDUSTRY

Dry air produced by the LEWACO dehumidifiers brings many benefits. The ceilings and walls are condensation free, what ensures high production quality and high hygenic standard. When the relative humidity is kept below 65-70%RH, then the risk of mould and bacteria growth is significantly reduced.
The rooms and corridors dry faster after washing them decreasing the standstill to a minimum.

ANTI-CORROSION

While carrying out anti-corrosion and painting labors inside closed containers, tanks, pipings etc. it is necessary to keep a proper relative humidity below 45% RH inside them. It prevents the formation and dispersion of corrosion processes, increases the quality and durability of painted steel construction. The air dehumidification proposed by LEWACO is full of benefits that provide stable and longlasting protection due to surface security.

References

among others:

Telefonika Bydgoszcz
Solidarność Lublin
Wedel Warszawa
MLEKOVITA Bielsk Podlask
Elektrownia Skawina
Jutrzenka Bydgoszcz
Polpharma Starogard Gdański
TEVA Kraków

FOOD INDUSTRY

The maintanance of proper air parameters, especially humidity, is necessary in many technological processes in food production. The control of air humidity can eliminate the negative influence of weather changes on food products. The LEWACO dehumidifiers operate in dairy sector - cheese maturation, pneumatic transport, packaging and coldstores, in fish drying before the smoking process, in baking sector, in fermentation process, packing and storing of backer'goods, in production of sweets. Dry air prevents the condensation of moisture on products (chocolate, sweets) or on devices.

WATER WORKS

Water treatment plants or filter halls are permanently exposed to water condensation on devices, tanks, building walls. In order to avoid the condensation that can cause also extensive corrosion it is advisable to install the LEWACO dehumidifiers. In sewage treatment plants unpleasant odour can be a big problem both for these people who work there and for the near surroundings as well. It can be radically decreased if the relative air humidity is kept below 50%RH.

MUSEUMS AND ARCHIVES

Moisture is a major enemy in fight to preserve our heritage in form of old artefacts for the future generations. If the relative humidity is kept in the borders of permited limits, none micro organisms or bacteria will thrive and none metal surface will corrosion susceptible.

PLASTICS

The plastics industry is aware of the problems connected with the moisture in the air. The problems appear already during the condensation formation in the injection moulds (wall "sweating") up to the adsorption of moisture by the granulates. The application of LEWACO dehumidifiers increases the production capacity, ensures higher quality of manufactured products, operation reliability (less mould repairs and maintanance).

CONSTRUCTION

During the execution of construction labors inside the building it is necessary to keep the humidity on properly low level. High humidity in the air constitutes a big problem.
Finishing labors cannot be carried out on wet plasters, concrete floor and ceiling screeds. The moisture in the building leads to mold and fungus formation, high humidity is a cause for corrosion processes in steel.

OTHER SECTORS

Additionally dehumidifiers are used in the process of product drying in coldstores and cooling chambers, in defence industry, in furniture production and timber drying or liquidation of water damage.

Nestle Toruń
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Dr.Oetker Płock