

Dehumidifiers serie DW

DW dehumidifiers series, equipped with honeycomb desiccant rotor technology represent a new top level performance in dehumidifying systems, optimizing energy consumption and energy maximum efficiency and duty versatility.

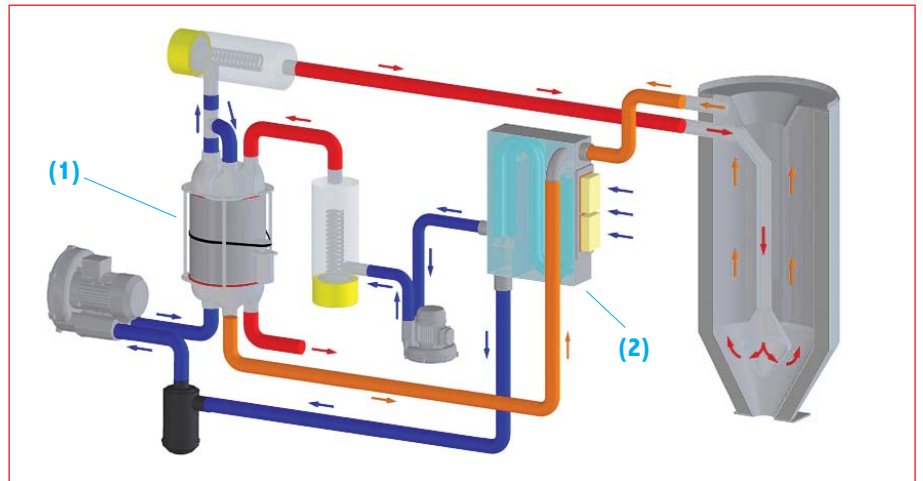
Models DW maintain a constant Dew Point value to - 25 °C up 50 °C thanks to the desiccant molecular sieves rotor technology with air flow rate from 30 to 600 m³/h. Special peculiar characteristics of this new series make it suitable to be used on medical and food applications (fields, sectors), ensuring great advantages and upstanding features recognizable also in the base version.

Standard Feature:

- Microprocessor control unit with LCD display, easier programmation, setting only two parameters (material type & machine hourly consumption)
- Molecular sieves honeycomb rotor technology **(1)**
- PID electronic control of process temperature with automatic presetting of the safety temperature
- Integrated energy saving devise **(2)**
- Internal stainless steel heating chamber insulated
- Side channel blowers for process & regeneration
- Process filter
- Regeneration filter
- Weekly timer
- Solid state relays (SSR) for heating the process
- RS485 ModBus
- Warnings lamp
- Multi-hoppers DTM interface

Options:

- Air Process flow rate control by inverter
- Dew point instrument monitoring and control system with alarm
- Operator touch screen panel
- Acoustic alarm
- Hand controller HC
- Clogged filter pressure switch
- Dedicated process air temperature safety control
- Portable Dew Point
- Plug for external Dew Point connection
<75 °C >150°C recommend heater exchanger for temp.



DW model with honeycomb rotor

		DW30	DW60	DW100	DW160	DW200	DW300	DW400	DW600
Air flow	m ³ /h	30	60	100	160	200	300	400	600
Process temperature	MT °C	70-150	70-150	70-150	70-150	70-150	70-150	70-150	70-150
	HT °C	70-190	70-190	70-190	70-190	70-190	70-190	70-190	70-190
Blower power of process	kW	0,45	0,4	0,75	1,1	1,6	3	4	5,5
Blower power of regeneration	kW	0,1	0,2	0,2	0,4	0,4	0,37	0,37	0,37
Power heating process	MT kW	1,2	2	2	3,5	5	7,5	7,5	15
	HT kW	-	-	3,5	5	9	15	15	22,5
Power heating regeneration	kW	0,8	2	2	3,5	3,5	5	9	9
Installed power total	MT kW	2,55	4,6	5	8,5	10,5	16	21	30
	HT kW	-	-	6,5	10	14,5	23,5	28,5	37,5
Power supply	V/Hz	230/1/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60
Dimensions WxDxH	mm	540x834x842	540x1062x1294	540x1062x1294	540x1062x1294	540x1062x1294	950x1095x1858	950x1095x1858	950x1095x1858
Weight	kg	80	140	150	175	185	350	400	450

Dehumidifiers serie DWCompact

The new compact dryer series **DWC** use honeycomb desiccant rotor that guarantees a superior process performance to the drying process with few parameters set by the operator.

DWC integrate the hopper and feeding system to adjust the production according the requests of the moulding machine considering all the drying factors.

This new range od DWC include 3 models from 70 to 280 mc/h and can individually operate or centralized for the preparation of more materials controlled by one touch screen. Dew Point -25°C up to 50 °C.

Beside the standard features the DWC include:

- Air Process flow rate control by inverter
- Machine & hopper feeding control
- Material level control by load cells
- Material anti stress control
- Drying time release
- Batch production
- Modular systems

Options:

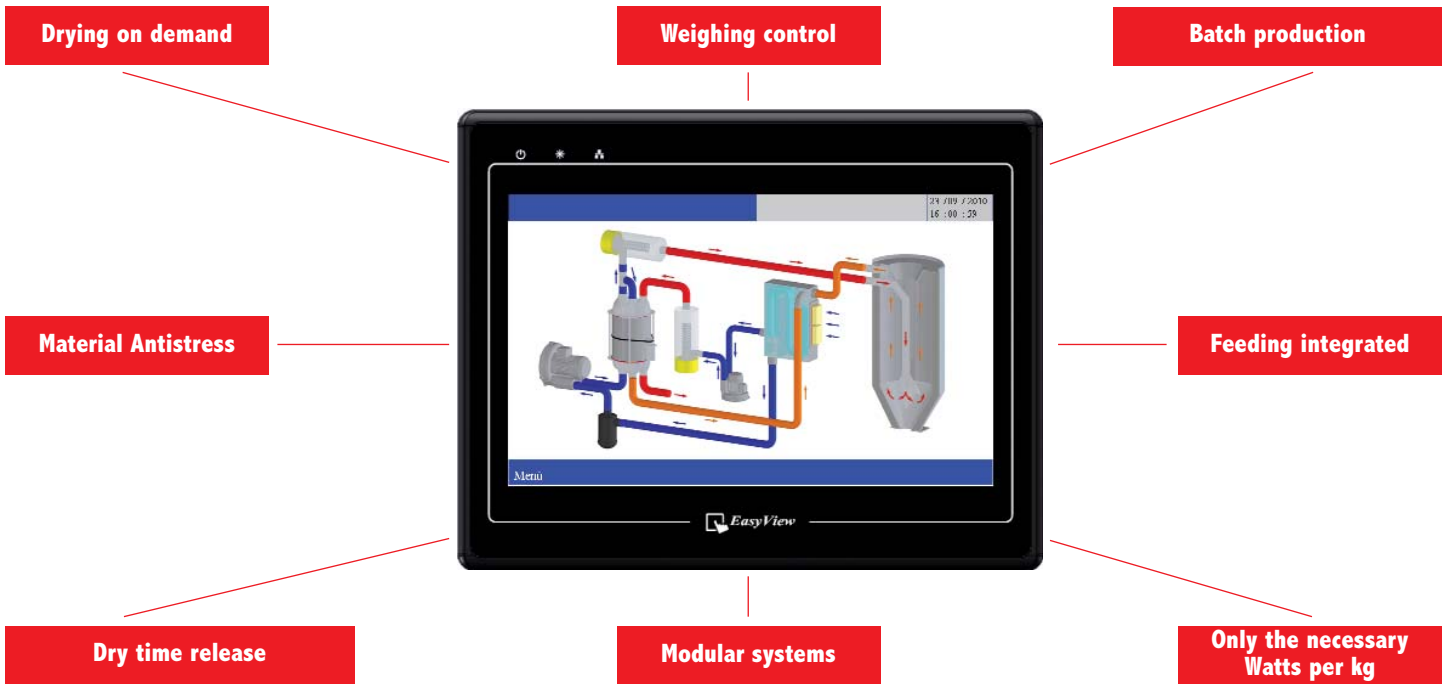
- Touch screen
- Dew Point device
- DWC feeders
- DWC Multi-Touch



Touch control unit up to 8 multi DWC



		DWC150	DWC250	DWC500
Hopper capacity	dm ³	150	250	500
Process airflow max	m ³ /h	30-70	60-140	100-280
Process temperature	MT °C	70-140	70-140	70-140
Blower power of process	kW	0,4	0,75	1,6
Blower power of regeneration	kW	0,2	0,2	0,4
Power heating process	MT kW	1,5	2	5
Power heating regeneration	kW	1,5	2	3,5
Installed power total	MT kW	3,6	4,95	10,5
Receiver material		LDM10	LDM10	LDM25
Power supply	V/Hz	400/3/50-60	400/3/50-60	400/3/50-60
Dimensions WxDxH	mm	660x1312x1718	660x1312x2208	825x1477x2423
Weight	kg	220	240	300



To facilitate setting of the drying systems, a material database is integrated in the control as an additional function. The database includes a data pool with parameters of about 50 standard materials and can accommodate other additional materials recipe specified by the customer.

Plastic Material	Chemical Description	Bulk Density kg/dm ³	Drying Time h	Drying Temperature °C	Nominal Air Flow m ³ /kg	Final Moisture % in weight	Typ. Starting Moisture % in weight
ABS (extrusion grade)	AcryloButadienStyrene	0,55	3-4	80-85	2,2	< 0,015	<0,2
ABS (moulding grade)	AcryloButadienStyrene	0,55	2-3	85	2	< 0,020	<0,2
CA (2)	Cellulose Acetate	0,70	2-3	70	2	< 0,020	<0,7
CAB	Cellulose Acetate/Butirrate	0,60	2-3	70	2	< 0,020	<0,6
EVA (2)	EthylenVinilAcetate	0,60	2-3	90-105	1,8	-	-
EVOH	EthylenVinilAlcool	0,60	2-3	90-105	2	-	-
LCP (1) (3)	Liquid CrystalsPolymer	0,80	3-4	150	2,2	<0,01	<0,05
PA 11-12 (3) (*) - Nylon	PolyAmide, Nylon	0,60	3-5	70-80	2	0,15-0,02*	0,6-1,2*
PA 6, 46, 66 (3) (*) - Nylon	PolyAmide	0,60	4-6	70-80	2	0,15-0,02*	0,6-1,2*
PAI	PolyArylenImide	0,85	6-8	180	2	<0,02	-
PAR (1) (3)	PolyArylate	0,70	5-6	120	2	<0,02	-
PBT (1) (3)	PolyButyilenTerephtalate	0,80	3-4	130-140	2,2	<0,02	<0,15
PC (3)	PolyCarbonate	0,65	2-3	120	2	<0,02	<0,3
PC/ABS	Abs/Polycarbonate	0,65	3	100	2	< 0,020	<0,1
PC/PBT	PolyCarbonate/PBT	0,75	3-4	110	2,2	-	-
PE, HDPE cable(*) (alogen free, α)	Polyethylene	0,70	4-10	60	2,5	<0,04*	<0,08
PE, HDPE, LDPE (7)	Polyethylene	0,50	1	85	1,6	<0,01	<0,02
PE, HDPE, LDPE black 3%	Polyethylene + carbonBlack 3%	0,55	2-3	80	1,8	<0,01	-
PE, HDPE, LDPE black 40%	Polyethylene + carbonBlack 50%	0,70	2-3	80-90	2	<0,02	<0,2
PEEK (1) (3)	PolyEtherEtherKetone	0,80	3-4	150-160	2,2	<0,05	<0,1
PEI (1) (3)	PolyEtherImide	0,75	4-5	140-160	2,5	<0,01	<0,2
PEN (1) (3)	PolyEthyleNaphtalene	0,85	5-6	150-170	3	<0,005	-
PES	PolyetherSulfone	0,80	3-4	150-180	2	<0,05	0,35
PET fiber textile (1) (3) (8)	PolyEthylenTerephtalate	0,84	5-6	160-180	3	<0,003	<0,2
PET bottl.-tech.l fiber-sheet (1) (3)	PolyEthylenTerephtalate	0,84	5-6	160-180	3	<0,003	<0,2
PET injection molding (1) (3)	PolyEthylenTerephtalate	0,85	3-4	130-140	2	<0,02	<0,2
PET PCR (1) (2) (3) (8)	Recycled PET- Post Consumer Regrid	0,35	4-5	130-140	3	<0,008	<0,3
PETG (4) (6)	PolyEthylenTerephtalateGlycol	0,74	4-5	65	3,5	<0,01	<0,1
PMMA - Acrylic	PolyMetilMethacrylate	0,65	3-4	80	3	<0,02	<0,3
POM - Acetalic - (homopolymer)	PolyOxiMethylene	0,85	1	90-100	2	-	<0,1
PP talk 40%	PolyPropylene	0,65	2-3	90	2	<0,02	-
PPO (3)	PolyPropylene	0,65	2-3	90	2	<0,02	-
PPS (1) (3)	PolyPropylene	0,65	2-3	90	2	<0,02	-