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Automation Machinery Co., Ltd.
美得自動化機械有限公司

Automation Plastics Systems
塑膠自動化輔助周邊系統



除濕乾燥系統 Dehumidifying and Drying Device

MTAD 除濕乾燥機 MTAD-Dehumidifying

為什麼建議您採用除濕機？

塑料制品成型不良，多數源自除濕乾燥不良。

美國塑料協會建議成型前的塑料必須乾燥到0.02%以下的含水率。透明度不佳、澆道粘住、毛邊、氣泡、銀條、流痕、龜裂、尺寸安定性不佳、產生內應力、產品物性強度不足等缺點，其多數不良原因，在於成型塑料未被充分除濕乾燥所致。尤其高浸水性塑料如：PET、PBT、PA、PC等更需要超低露點Dew point-40°C 乾燥設備。

Why you are recommended to use Dehumidifier?

Poor molding of plastic products mostly comes from poor dehumidification and drying. U.S Plastic Association recommends that the plastic prior to molding must be dried to the water content of 0.02% and below. For defects including poor transparency, sticky pouring channel, blurs, bubble, bullion, flow mark, crack, poor dimension stability, internal stress and insufficient product physical strength, the cause of most of them is that the plastic is not fully dehumidified and dried. Particularly, highly soaking plastic including PET, PBT, PA, and PC requires drying equipments with a super low dew point (Dewpoint-40°C)

轉輪式蜂巢除濕乾燥機

轉輪式蜂巢除濕機主要部件均採用進口元器件，精心選材設計，良工裝配。

機台的主要用途是與熱風式料鬥乾燥機搭配，對吸濕性較強的工程塑料如：PA、PC、PBT、PET、PMMA、TPU等進行高效率的除濕乾燥作業。

Rotating MTAD Dehumidifying

We reserve right to change specifications without prior notice.

Working with a hopper dryer, the dehumidifier is used to dehumidify engineering plastics which contain moisture, such as PA, PC, PBT, PET, PMMA, TPU etc.



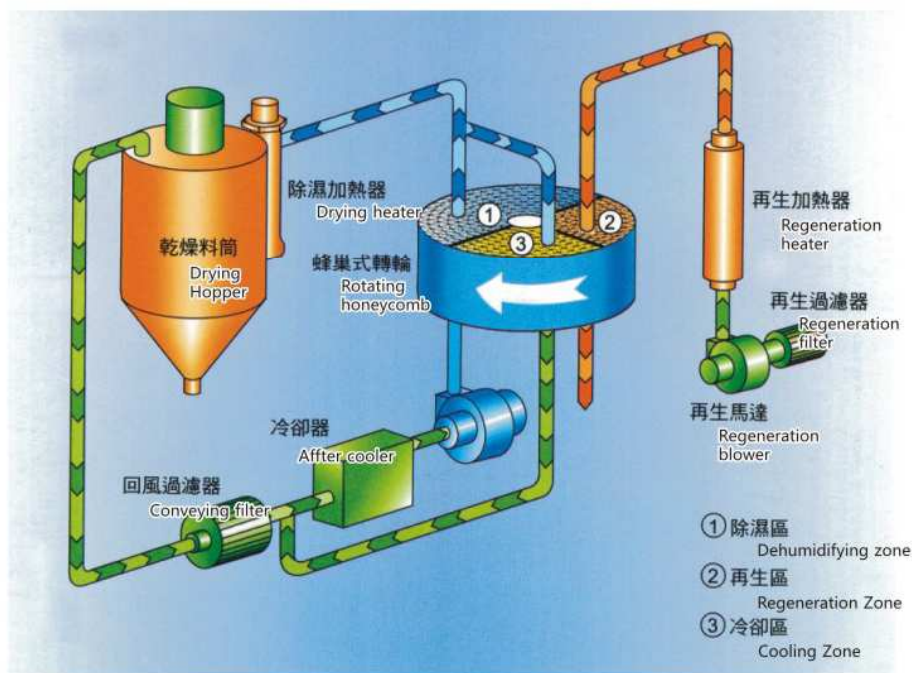
- 採用P.I.D溫度控制系統，該系統具有再生溫度設定與實際溫度顯示屏幕。
- 可調蜂巢轉輪之旋轉速度。
- 採用雙冷卻器結構，確保更低的回風溫度及露點。
- 蜂巢可達到-40°C以下露點，在配置增強狀態下更可達到-50°C~-60°C甚至更低的露點。
- 機器占地小，移動方便，可任意更換機台使用。
- **可選配PLC控制器搭配LCD觸控式人機界面。**
- **可隨時監控機器除濕效果的露點計供選配。**



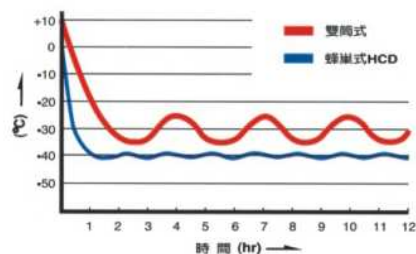
控制器 PLC&LCD

FEATURES:

- P.I.D temperature controlling system adopted, with displays of regeneration temperature and real temperature.
- Rotation speed of honeycomb adjustable.
- Double-condenser adopted, low temperature of recycling air and low dew-point available with enhanced configuration.
- Dew-point up to -40~-50°C, lower dew-point available with enhanced configuration.
- PLC control and LCD touch screen control available.
- Dew-point meter to supervise the dehumidifying effect (optional).
- Small foot-print, easy to move.



功能流程圖
Functional Diagram



除濕露點效果圖
Dehumidifying Result



MTAD 大型除濕乾燥系統 MTAD-Centralized Dehumidified Drying Systems

大型除濕乾燥系統應用於塑膠生產量特別大且露點要求很低的場合。本公司生產的大型除濕乾燥系統用於處理PET原料時每小時最高可達1000公斤。該系統主要包含每小時乾燥風量最高達4000立方米的蜂巢轉輪式除濕機及容量高達8000公升（於裝載PET時的有效重量為6400公斤）的保溫式乾燥料桶，經由轉輪除濕機處理過後的乾燥原料最終含水率可以達到0.004%以下。

Centralized Dehumidified Drying Systems

DDS series centralized dehumidified drying systems are used in factories, which produce a great quantity of plastic products and also require a very low dewpoint. The highest PET material handling throughput for this series machine is 1000kg/hr, this system mainly includes a honeycomb dehumidifier with 4000m³/hr maximum drying air capacity and an insulated drying hopper with 8000 L maximum loading capacity (effective loading weight is 6400 kg when loads PET material). After being disposed by honeycomb dehumidifier, the moisture content in material can be reduced to less than 0.004%.



(700H-3000H)



大型除濕乾燥系統組合



旋風集成器
(適用於粉塵較多的PET除塵系統)



乾燥料桶

適用行業

Orientation Industry



技術規格表 Specifications

機型 MODEL	MTAD-除濕乾燥機												
	50	80	120	150	200	300	400	500	700	1000	1500	2000	3000
乾燥風量 Air Flow(cmh)	50	80	120	150	200	300	400	500	700	1000	1500	2000	3000
乾燥電熱功率 Heating Power	3.9	6	6	7.2	12	15	18	21	24	32	58	80	96
乾燥風車功率 Process Blower	0.4	0.75	1.5	1.5	1.5	2.4	3.4	5.5	5.5	9	9*2	13*2	13*3
再生風車功率 Regenerative blower	0.2	0.2	0.2	0.4	0.4	0.75	0.75	1.5	1.5	2.4	3.4	3.4	7.5
再生電熱功率 Regenerative Heater	3	3.5	3.5	4	5.4	7.2	7.2	10	10	15	20	20	30
出入口之管徑 Pipe Size	2"	2"	2"	2.5"	2.5"	3"	3"	4"	4"	5"	6"	8"	8"
電壓 Voltage	3Φ,380V,50HZ												
外型 Dimension													
H (mm)	1000	1230	1230	1680	1680	1700	1700	1875	1875	1990	2000	2300	2500
W(mm)	450	480	480	600	600	700	7000	1000	1000	1200	1300	1400	1600
D(mm)	700	730	730	1100	1100	1255	1255	1390	1390	1860	1910	1910	2160
重量(kg)	80	120	140	215	225	240	280	290	300	400	510	630	760

*乾燥電熱為選配，需搭配歐化料桶使用

乾燥能力表 Drying Capacities (Kg/Hr)

原料 Material	乾燥 溫度 ℃	乾燥 時間 (HR)	比熱 (J/KG.℃)	原料 比重 (Kg/dm³)	MTAD 型號/ 乾燥能力 /Drying Capacities (kg/hr)												
					50	80	120	150	200	300	400	500	700	1000	1500	2000	3000
ABS	80	2~3	0.34	0.6	18	27	35	71	105	180	210	285	355	425	710	1065	1500
CA	75	2~3	0.5	0.5	15	22	30	60	90	150	180	235	295	355	590	885	1200
CAB	75	2~3	0.5	0.5	15	22	30	60	90	150	180	235	295	355	590	855	1200
CP	75	2~3	0.6	0.6	18	27	35	71	106	180	210	285	355	425	710	1060	1500
LCP	150	4	0.6	0.6	13	20	27	55	80	135	160	210	265	320	530	800	1150
POM	100	2	0.35	0.6	27	40	53	105	160	265	320	425	530	640	1060	1600	2400
PMMA	80	3	0.35	0.65	19	29	38	77	115	192	230	307	383	460	767	1150	1530
IONOMER	190	3~4	0.55	0.5	11	17	22	44	66	111	133	177	220	265	442	663	1000
PA6/6.6/6.10	75	4~6	0.4	0.65	10	14	19	38	58	96	115	153	192	230	383	575	960
PA11	75	4~5	0.58	0.65	12	17	23	46	69	115	138	184	230	275	460	690	1000
PA12	75	4~5	0.28	0.65	12	17	23	46	69	115	138	184	230	275	460	690	1000
PC	120	2~3	0.28	0.7	21	31	41	83	124	206	250	330	413	495	826	1238	960
PU	90	2~3	0.45	0.65	19	29	38	77	115	190	230	307	383	460	767	1150	1530
PBT	130	3~4	0.3-0.5	0.7	15	23	31	62	93	155	186	248	310	372	620	930	1100
PE	90	1	0.55	0.6	53	80	106	212	318	531	637	850	1062	1275	2125	3185	4000
PEI	150	3~4	0.6	0.6	13	20	27	53	80	133	160	212	265	320	530	800	1200
PET	160	4~6	0.3-0.5	0.85	13	19	25	50	75	125	150	200	250	300	500	750	1150
PETG	70	3~4	0.6	0.6	13	20	27	53	80	133	160	212	265	320	530	800	1200
PEN	170	5	0.85	0.85	15	23	30	60	90	150	180	240	300	360	600	900	1300
PES	150	4	0.7	0.7	15	23	30	60	90	150	180	240	300	360	600	900	1300
PMMA	80	3	0.65	0.65	19	29	38	77	115	190	230	385	460	765	1150	1530	
PPO	110	1~2	0.4	0.5	22	33	44	88	133	220	265	355	440	530	885	1330	1730
PPS	150	3~4	0.6	0.6	13	20	27	53	80	133	160	212	265	320	530	800	1200
PI	120	2	0.27	0.6	27	40	53	105	160	265	320	425	530	640	1060	1600	2400
PP	90	1	0.46	0.5	44	66	88	180	265	442	530	710	885	1060	1770	2655	3500
PS(GP)	80	1	0.28	0.5	44	66	88	180	265	442	531	708	885	1062	1770	2655	3500
PSU	120	3~4	0.31	0.65	14	22	29	60	85	145	173	230	290	345	575	865	1300
PVC	70	1~2	0.2	0.5	22	33	44	90	135	220	265	355	442	530	885	1330	1730
SAN(AS)	80	1~2	0.32	0.5	22	33	44	90	135	220	265	355	442	530	885	1330	1730
TPE	110	3	0.7	0.7	20	30	40	85	125	205	250	330	413	495	826	1238	1650

產品規格若有變更，恕不另行通知。 We reserve right to change specifications without prior notice.

备注：(1)使用独立的干燥料斗。

(2)在20℃的大气温度及65%的相对湿度下，干燥后其水份含量低於0.005%。

▶ MTRD 除濕機~三機一體送料組合



MTRD系列除濕乾燥機送料組合集乾燥、除濕及送料三種功能為一體，特別適用於處理吸濕性很強的塑料。該系列產品造型分全密式(中小型機)與半開放式(大型機)，結構方面採用進口蜂巢轉輪除濕機搭配下吹式全不鏽鋼保溫乾燥料桶以及對閉循環式二段送料功能組合而成。該系列產品採用微電腦集中控制提供了自動故障顯示及24小時自動運轉定時設定功能，尚可選配觸控式人機介面與露點計供選配。

MTRD 3IN1 Dehumidifying Drying-Conveying



MTRD Series of compact dryers combines a MTRD dehumidifier, an insulated drying hopper, and a two-stage closed-loop conveying device to form a "All-in-One" compact unit. The small and medium range (capacity of the dehumidifier from 30 to 200 m³ /hr) has been designed under the full-integral concept, and the large range (capacity of the dehumidifier from 300 to 700 m³ /hr) has been designed under the semi-integral concept.

多功能
Multiple Function

高品質
High Quality

簡節化
Compact Structure

省能源
Energy Saving

新款式
Innovative Design

MTRD Dehumidifying Drying-Conveying

陶瓷蜂巢轉輪除濕機 Dehumidifying



全不銹鋼保溫下吹式乾燥機 Dryer

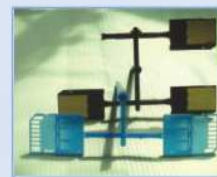


全不銹鋼二段或三段輸送機 Loader



MTRD Series

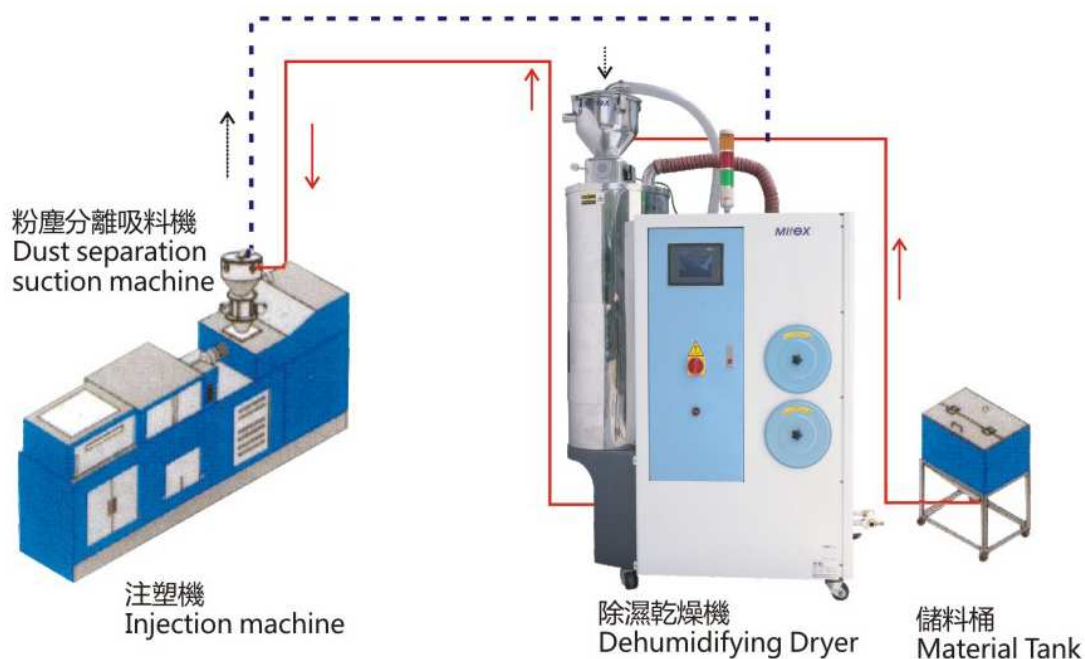
MTRD 適用產品類型
Orientation product type



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一對一除濕乾燥送料系統

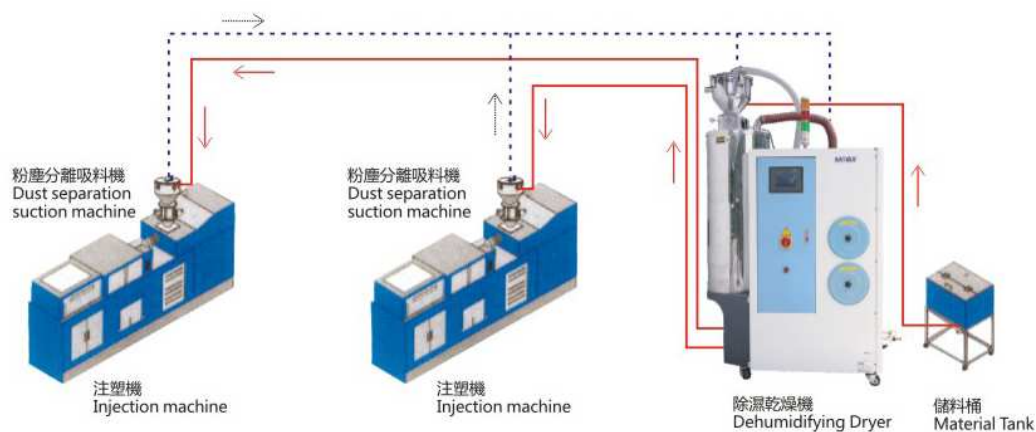
One-By-One Dehumidifying and feeding system



MITEX

一對二除濕乾燥送料系統

One-By-Two Dehumidifying and feeding system





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