FLYING TIGER KJ CO., LTD.
PLASTIC AUXILIARY EQUIPMENTS & TURNKEY SOLUTION EXPERTS
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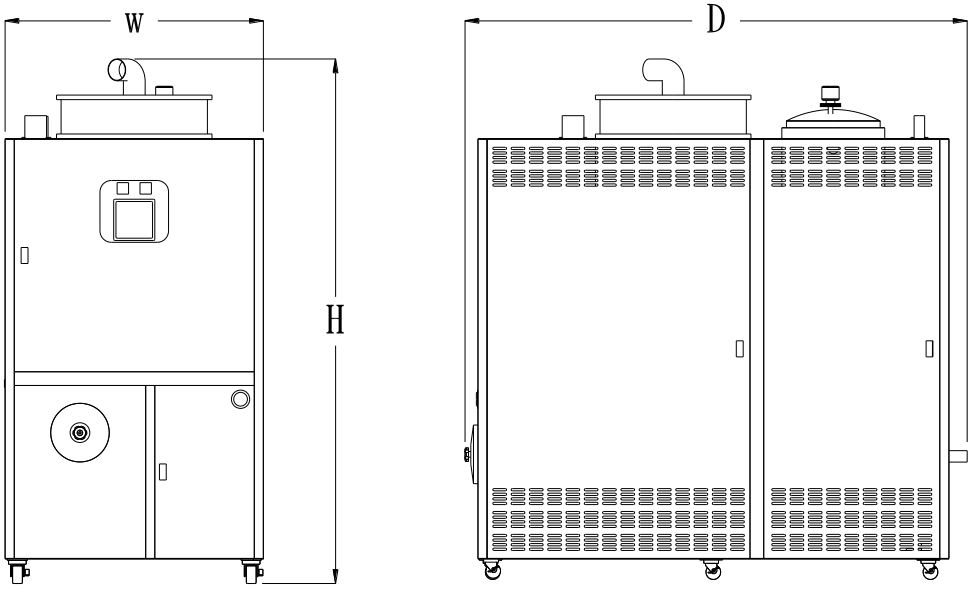
VACUUM DEHUMIDIFYING DRYER

FEATURES:

1. The material preheating system uses hot air recycling and insulation designed to meet the" green dry" idea.
2. Vacuum dehumidification system uses the design of vacuum degree below 1 Torr. Water evaporation temperature can be reduced to below room temperature, and be able to achieve rapid drying purposes.
3. Material conveying system with vacuum dehumidification system share the same power source.
4. Lead drying time has shortened more than half than adsorption dehumidifying system.
5. Energy saving compared to adsorption dehumidifying system has saving more than 30% of the electricity demand.
6. Equipped with Heater less Dryer in the Buffer tank for preventing material moisture again.
7. PLC and colorful human-machine screen for simple operating and monitoring easily.



KVD-12~250

KVD COMPARISON

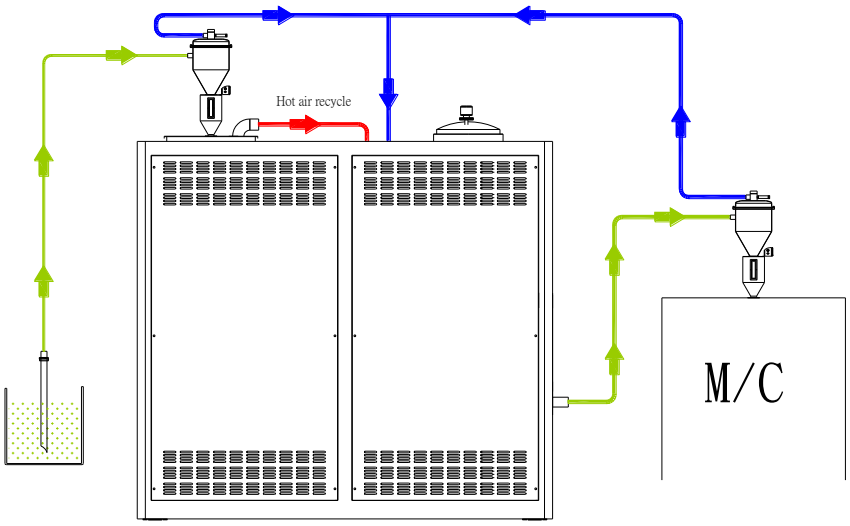
Type		Vacuum Dehumidifying Dryer	Dehumidifying Dryer
Dehumidifying	Dehumidifying method	Vacuum	Adsorption
	Desiccant rotor and molecular sieve cylinder	None	Need
	Drying barrel	Small Capacity	Large Capacity
	Drying heater	Low Power	High Power
	Drying blower	Low Power	High Power
	Hot air recycle	Direct recycle	Recycle after cooling
Regeneration	Regenerative heater	None	Need
	Regenerative blower	None	Need
Cooling	Vacuum motor	Need	None
	Drying blower	None	Need
Lead time		1~2 hours	4~6 hours
Space occupied		Smaller	Bigger
Energy saving		Saving more than 30%	More electricity expense

ENERGY COMSUMPTION ANALYSIS—Processing PET material 200KG/HR(60Hz)

Type		Vacuum Dehumidifying Dryer	Dehumidifying Dryer
Model		KVD-200	KRD-800-3
Total load		41.1KW	61.9KW
Power consumption (PET 200KG/HR)	Total load	0.205 KW/KG、HR	0.310 KG/KG、HR
	Estimate 70% of total load	0.143 KW/KG、HR	0.217 KW/KG、HR
	Comparison rate	66.39%	100%
	Power saving rate	33.61%	—
Power saving (Power consumption estimate 70% of total load)	Hour (1 Hour)	15KW	—
	Day (24 Hours)	360KW	—
	Month (25 Days)	9,000KW	—
	Year (300 Days)	108,000KW	—
Electricity expense saving (Electricity charge US 0.15 per KW)	Hour (1 Hour)	US$2.3	—
	Day (24 Hours)	US$55	—
	Month (25 Days)	US$1,375	—
	Year (300 Days)	US$16,500	—

FLOW CHART:

Direct mounting type:

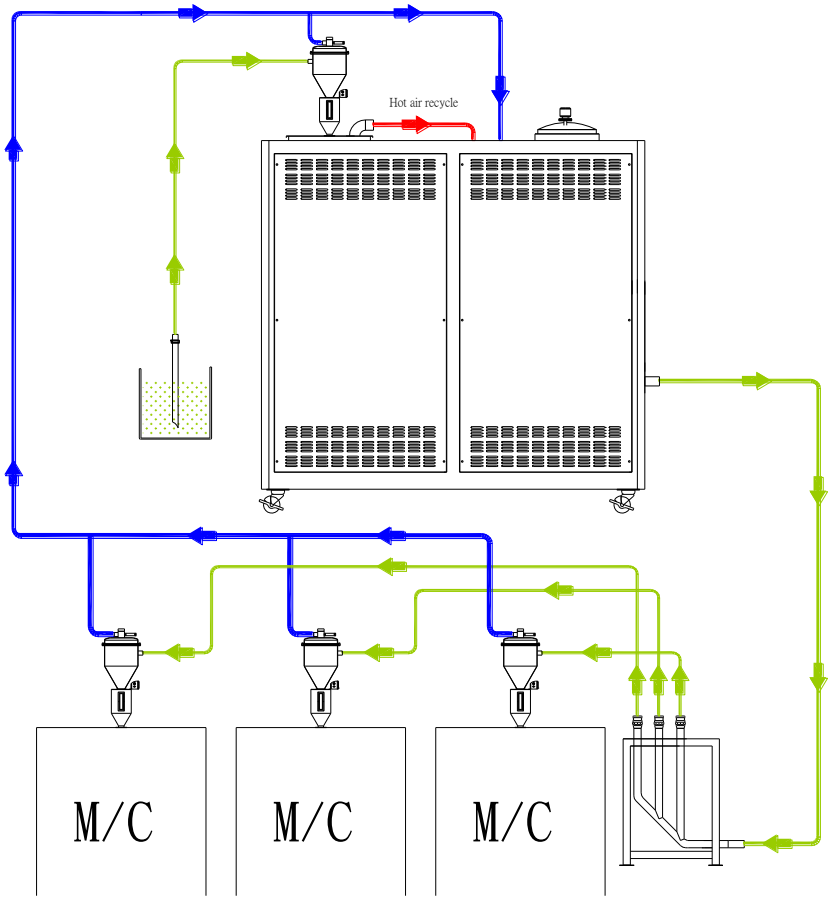


Loading system central loader

air piping

material piping

Central type:



Loading system central loader

air piping

material piping

SPECIFICATIONS

Model			KVD-12	KVD-25	KVD-50	KVD-75
Capacity	KG/HR		12	25	50	75
Drying barrel	KG		25	50	100	150
Vacuum barrel	KG		4	8	16	25
Buffer tank	KG		12	25	50	75
Drying heater	Drying barrel	KW	6.5	6.5	12.0	12.0
	Buffer tank		2.7	2.7	3.5	3.5
Drying blower	KW		0.4(0.2*2)	0.4(0.2*2)	0.8(0.4*2)	0.8(0.4*2)
Vacuum motor	60HZ	KW	1.1	1.1	1.5	1.5
	50HZ		0.75	0.75	1.1	1.1
Central loader	60HZ	KW	0.85	0.85	0.85	1.90
	50HZ		0.75	0.75	0.75	1.75
Central material receiver			3LITER (KCMR-3W) *2PCS		6LITER (KCMR-6W) *2PCS	
Control type			7.7" Colorful human-machine touch panel and PLC controller			
Compressed air	MM		ϕ 5*8MM at 5~7KG/CM^2			
	LPM		100	100	200	200
Total load	60HZ	KW	12.0	12.0	18.7	19.7
	50HZ		11.1	11.1	18.2	19.2
Dimension	Machine (CM)	W	50	60	70	80
		D	190	195	200	210
		H	170	175	180	189
Approx. weight	KG		270	310	350	380
Options	1. PVC Spring hose 2. Suction probe					
Remarks	1.We reserve the right to change specifications without prior notice.					

SPECIFICATIONS

Model			KVD-100	KVD-150	KVD-200	KVD-250
Capacity	KG/HR		100	150	200	250
Drying barrel	KG		200	300	400	500
Vacuum barrel	KG		33	50	66	83
Buffer tank	KG		100	150	200	250
Drying heater	Drying barrel	KW	18.0	18.0	24	24
	Buffer tank		6.5	6.5	10	10
Drying blower	KW		1.6(0.8*2)	1.6(0.8*2)	3.0(1.5*2)	4.4(2.2*2)
Vacuum motor	60HZ	KW	1.5	1.5	2.2	2.2
	50HZ		1.1	1.1	1.5	1.5
Central loader	60HZ	KW	1.90	1.90	1.90	2.6
	50HZ		1.75	1.75	1.75	2.2
Central material receiver			15LITER (KCMR-15W) *2PCS			
Control type			7.7" Colorful human-machine touch panel and PLC controller			
Compressed air	MM		ϕ 5*8MM at 5~7KG/CM^2			
	LPM		300	300	400	400
Total load	60HZ	KW	29.5	29.5	41.1	43.2
	50HZ		29.0	29.0	40.3	42.1
Dimension	Machine (CM)	W	85	89	115	120
		D	220	232	245	250
		H	210	220	257	272
Approx. weight	KG		420	465	590	690
Options	1. PVC Spring hose 2. Suction probe					
Remarks	1.We reserve the right to change specifications without prior notice.					