



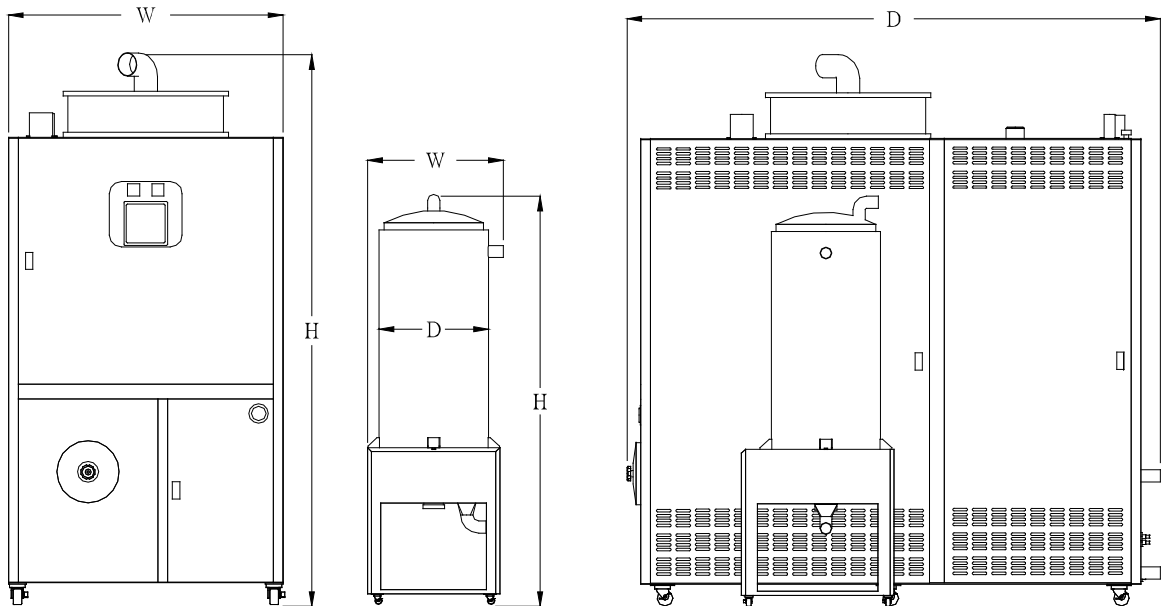
# FLYING TIGER KJ CO., LTD.

Plastic Auxiliary Equipment & Turnkey Solution Experts  
<http://www.tigerkj.com.tw> E-mail: [tigerkj@ms15.hinet.net](mailto:tigerkj@ms15.hinet.net)

## 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 half of the electricity demand.
6. PLC and colorful human-machine screen for simple operating and monitoring easily.



KVD-75~350



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## 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 50%	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		22.4KW	61.9KW
Power consumption (PET 200KG/HR)	Total load	0.112 KW/KG · HR	0.263 KG/KG · HR
	Estimate 70% of total load	0.078 KW/KG · HR	0.184 KW/KG · HR
	Comparison rate	36.12%	100%
	Power saving rate	63.88%	—
Power saving (Power consumption estimate 70% of total load)	Hour (1 Hour)	28KW	—
	Day (24 Hours)	672KW	—
	Month (25 Days)	16,800KW	—
	Year (300 Days)	201,600KW	—
Electricity expense saving (Electricity charge US 0.15 per KW)	Hour (1 Hour)	US\$4.2	—
	Day (24 Hours)	US\$101	—
	Month (25 Days)	US\$2,520	—
	Year (300 Days)	US\$30,240	—

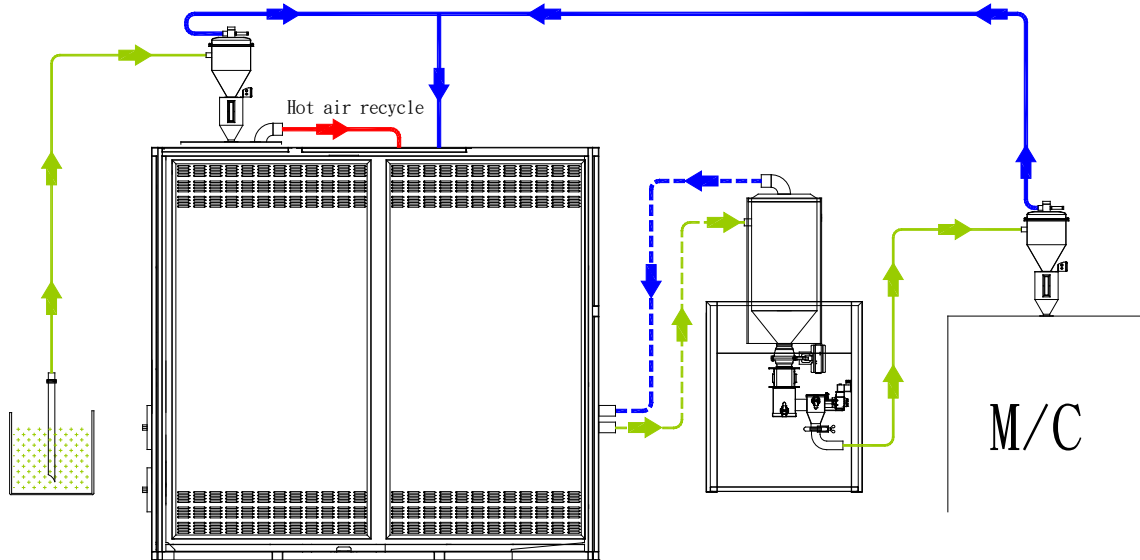


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## FLOWCHART:

Frame type:



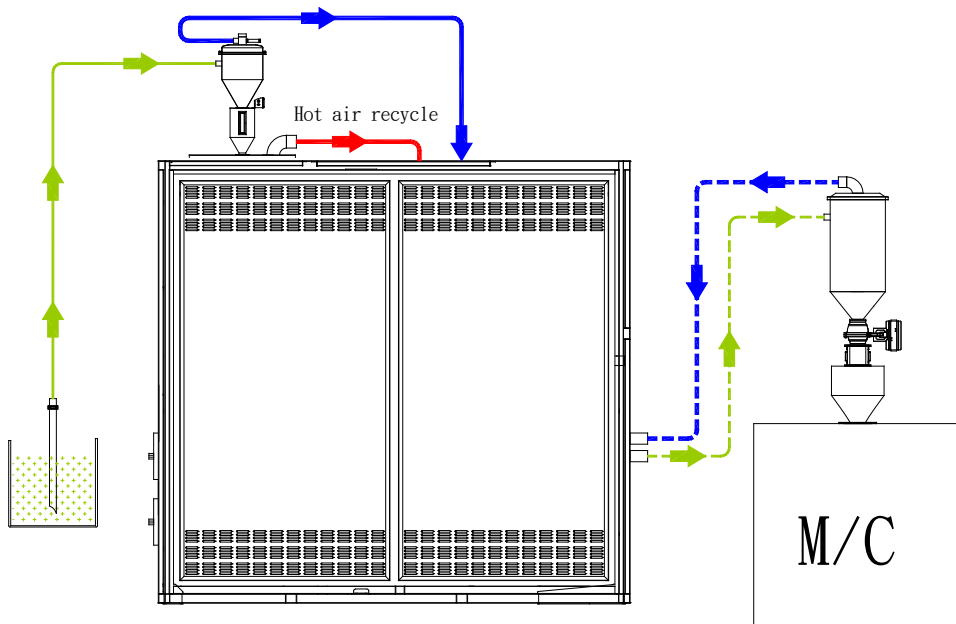
Loading system by vacuum pump

--- air piping  
--- material piping

Loading system by central loader

— air piping  
— material piping

Direct mounting type:



Loading system by vacuum pump

--- air piping  
--- material piping

Loading system by central loader

— air piping  
— material piping

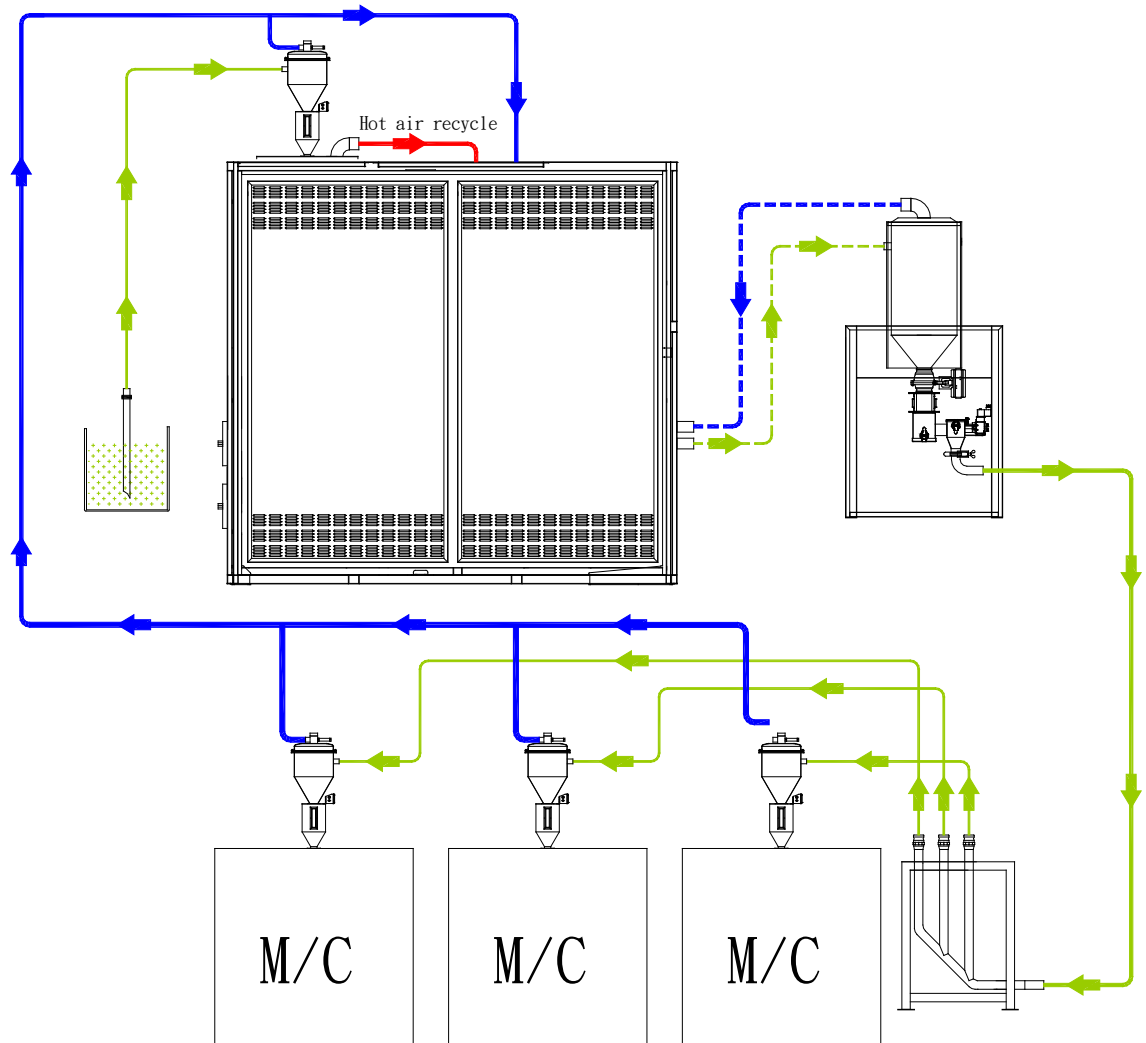


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Central type:



Loading system by vacuum pump

- air piping
- - - material piping

Loading system by central loader

- air piping
- material piping



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## VACUUM DEHUMIDIFYING DRYER SPECIFICATIONS

1 of 1

Model		KVD-75	KVD-150	KVD-200	KVD-250	KVD-350	
Capacity	KG/HR	75	150	200	250	350	
Drying barrel	KG	100	200	300	400	600	
Vacuum barrel	KG	25	50	75	100	125	
Buffer tank	KG	25	50	75	100	125	
Drying heater	KW	6.5	12	16	18	24	
Drying blower	KW	0.8(0.4*2)	1.5(0.75*2)	3.0(1.5*2)	4.4(2.2*2)	7.4(3.7*2)	
Cooling water	INCH	1/2	1/2	1/2	1/2	1/2	
	LPM	33	33	33	33	33	
	KG/CM <sup>2</sup>	Over 1.0-1.5KG/CM <sup>2</sup>					
Vacuum motor	60HZ	KW	1.5	1.5	1.5	2.2	2.2
	50HZ		1.1	1.1	1.1	1.5	1.5
Central loader	60HZ	KW	1.9	1.9	1.9	2.6	2.6
	50HZ		1.75	1.75	1.75	2.2	2.2
Control type		7.7" Colorful human-machine touch panel and PLC controller					
Compressed air	MM	$\phi$ 5*8MM at 5 KG/CM <sup>2</sup>					
	LPM	60					
Total load	60HZ	KW	10.7	16.9	22.4	27.2	36.2
	50HZ		10.15	16.35	21.85	26.1	35.1
Dimension	Machine (CM)	W	80	89	115	120	135
		D	160	182	195	200	215
		H	189	230	257	272	295
	Buffer tank (CM)	W	57	67	72	77	77
		D	$\phi$ 37	$\phi$ 47	$\phi$ 52	$\phi$ 57	$\phi$ 57
		H	165	185	200	214	214
Approx. weight	KG	380	465	590	690	780	
Options	1. Central material receivers with window stand      2. PVC Spring hose      3. Suction probe						
Remarks	1. We reserve the right to change specifications without prior notice.						