

# 脱湿干燥机 DEHUMIDIFYING DRYER



# CHALLENGER DFG-Z series

本装置是超级省能源、省空间型脱湿干燥机，  
自带一二次输送集成型脱湿干燥机。

This New Model is the Super Energy-saving & Space-saving  
Dehumidifying Dryer; It is also a Dehumidifying Dryer Integrated  
with Primary & Secondary Material Conveying.



## 省空间 20% (本公司比)

Saves 20% of Space (Compare to Our Own Dryer)

- 轻巧化设计
- 通过大幅度的设计变更，节省了空间
- Lightweight design
- Significant design change saves space

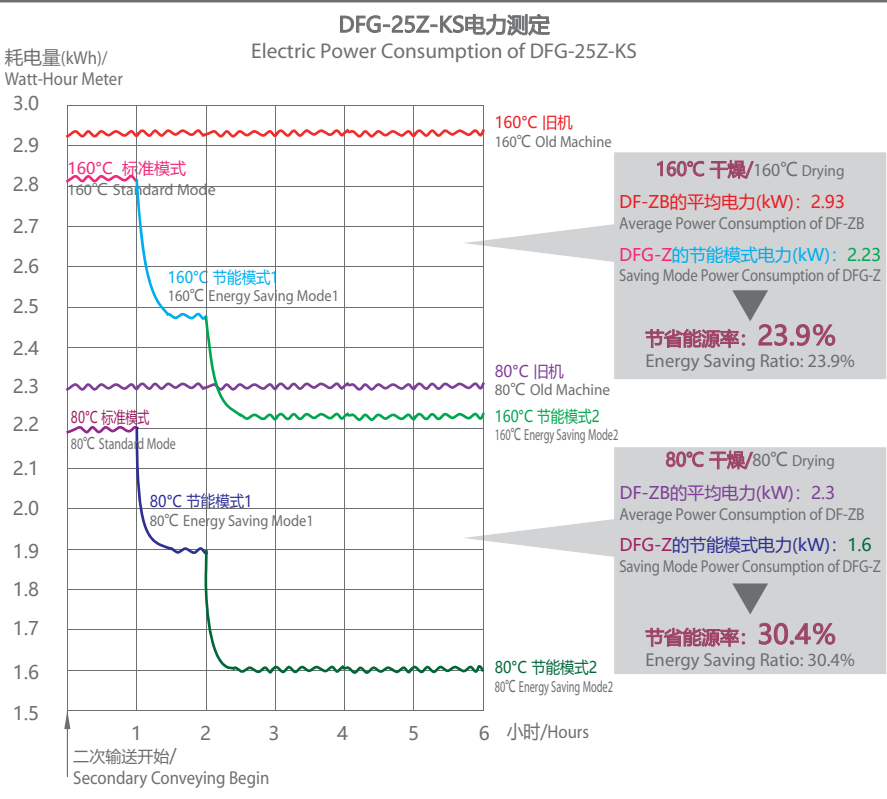
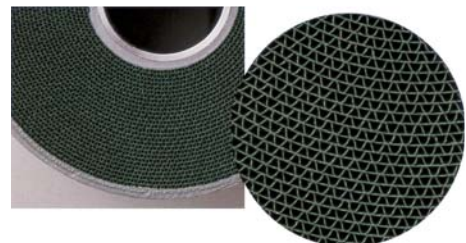
## 省能源 30% (本公司比)

Saves 30% of Energy (Compare to Our Own Dryer)

## 采用新型沸石式蜂巢转子

New Corrugated Honeycomb

- 由于采用高性能独特的特殊制作法，而且基材内部采用沸石设计，可以得到-40℃的低露点空气
- 很容易对高温空气进行脱湿
  - 与其他吸湿材不同，即使在100℃的情况下，吸湿能力也非常出色
- 对于低温领域的空气，更容易脱湿
  - 对于低温领域的空气也有着吸湿能力
- 具有寿命长且安定的脱湿能力
  - 沸石结晶会产生微孔结构，可以降低因高温引起的劣化，将除湿效率下降现象减少到最低
  - 蜂巢转子构造可以节省能源并降低压力损失
- Even the inside of the honeycomb element is supported by zeolite, producing lower dew point air (-40℃)
- The zeolite as a desiccant has high absorption efficiency even in dehumidifying the high temperature air of 100℃ and the air of low humidity
- Crystalline zeolite has a microporous structure, reducing heat deterioration and minimizing a decline in dehumidifying efficiency
- Honeycomb structure saves energy and reduces pressure loss



## 带保温层干燥筒

Insulated Drying Hopper

- 减少导热原因形成的热量损失，防止高温引起的烫伤
- Insulation keeps the heat in to reduce energy consumption, and increases safety by reducing the risk of scald



## 可视化维护保养

Visualization Maintenance

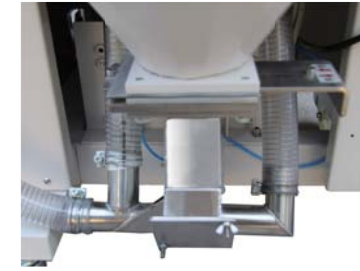
- 原料更换简洁方便
- 15min可更换清扫完成
- Easy & convenience raw material change
- Change & clean material in 15 minutes



## 二次定量输送，前后清扫

Secondary Quantify Conveying with Cleaning

- 防止树脂在管道中残留及再吸湿
- Prevents the resin from remaining in the pipeline and from absorbing moisture again



## 采用方便的喇叭口设计方式

Convenient Horn Mouth Mechanism

- 热风通过喇叭管由下而上均匀吹出，材料受喇叭管阻力呈柱塞状由上而下流动，材料与热风形成对流，使材料充分均匀干燥
- 干燥筒内的喇叭口取出方便
- Hot air blows out through the horn pipe from the bottom evenly and convect with the material, this makes the material dried fully and equably
- The horn mouth is removable



## PID 控制面板

PID Control Panel

- 微电脑PID控制，实现高精度温度控制
- 12项异常报警
- 自动预约功能作为标准装备
- 采用简易控制面板，操作更简单化
- PID control for accurate temperature control
- 12 kinds of abnormal alarm
- Automatic appointment start function as standard
- Control panel makes operation easier



## 料斗

Hopper

- 一次输送料斗 (输送1)
- 二次输送料斗 (输送2)
- 在成型机上装有独自开发具有除粉功能的沸腾式料斗，输送材料后，通过空气流动，以去除粉末和异物
- Primary hopper (Convey-1)
- Secondary hopper (Convey-2)
- Kawata's original "Boiling Power Reduction Hopper", which is mounted on a molding machine, removes resin powder and foreign matter by air flow after conveying.



一次输送料斗(输送1)/ Primary hopper (Convey-1)  
二次输送料斗(输送2)/ Secondary hopper (Convey-2)

干燥

DFG-Z series

# DFG-Z 根据能力不同, 提供8种不同的机型

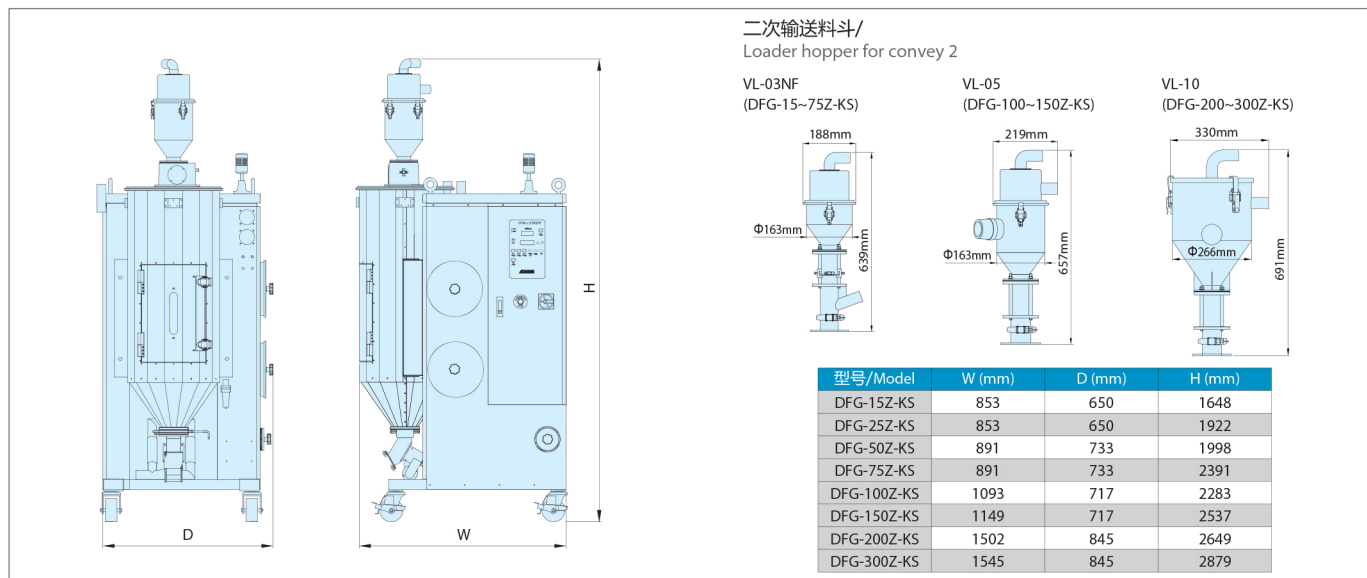
## 8 Models to Meet Growing Demand

### 规格 Specifications

型号/Model	DFG-15Z-KS	DFG-25Z-KS	DFG-50Z-KS	DFG-75Z-KS	DFG-100Z-KS	DFG-150Z-KS	DFG-200Z-KS	DFG-300Z-KS	
风量/Air flow (m <sup>3</sup> /h)	35 50 75 80 110 145 220								
露点/Dew point (°C)	※ -40								
干燥温度/Drying temperature (°C)	65~160		70~160			75~160		65~160	
干燥风机容量/Drying blower capacity (50/60Hz)(kW)	0.17/0.28		0.28/0.42	0.55/0.85		1.3/1.9	2.3/3.4	3.3/5.0	
再生加热管容量/Regeneration heater capacity (kW)	2.0						4.0		
再生风机容量/Regeneration blower capacity (50/60Hz)(kW)	0.09/0.12						0.17/0.28		
吸湿筒回转马达容量/ Desiccant chamber motor capacity (kW)	0.025								
干燥筒/ Drying hopper	有效容量/Effectibe capacity (L)	25	42	84	125	167	250	500	
	装料量/Feeding volume (kg)	15	25	50	75	100	150	300	
	干燥筒内胆材质/Drying hopper inner material	SUS304(镜面/Buffering)							
	干燥加热管容量/Drying heater capacity (kW)	2.0		2.7	4.0		6.0	9.0	
附属品/Accessories	循环空气输送, 定量输送, 保温付/Circulating air conveying, batch conveying, glass wool insulation								
一次输送料斗(输送1)/Primary hopper (Convey-1)	AL-05						AL-10		
风机容量/Blower capacity (50/60Hz)(kW)	0.55/0.85				1.3/1.9				
二次输送料斗(输送2)/Secondary hopper (Convey-2)	VL-03NF			VL-05		VL-10			
风机容量/Blower capacity (50/60Hz)(kW)	0.55/0.85(和一次输送兼用/Concurrent use of blower with primary conveying)				1.3/1.9(和一次输送兼用/ Concurrent use of blower with primary conveying)				
主断路器容量/Main breaker capacity(380-415/200-220V)(A)	15/32			32/40		32/50	40/75	50/100	
总电气容量/Power supply (50/60Hz)(kW)	4.8/5.3		5.6/6.1	8.0/8.9		8.7/9.9	13.8/15.6	17.8/20.2	
压缩空气用量/Compressed air requirement (L/min)	5 (0.4~0.6Pma)(配管口径Φ8/Pipe size Φ8)								
冷却水量/Cooling water volume (L/min)	不要/No need						15		
附属品/Accessories	PVC软管/PVC flexible hose Φ38×20m, 吸料管/Suction pipe Φ38×650mm×1根, 电源线/Power supply cable 5m								
涂装色/ Paint color	本体/Frame	日涂工 Y15-85A 半艶 JPMA Y15-85A, semigloss							
	电控箱门/Control panel door	日涂工 C69-50T							
机器重量/Weight (kg)	200	210	230	250	300	330	490	550	

※ 露点根据使用环境有所变动。  
The dew point varies according to ambient air conditions.

### 外形尺寸图 Dimensions



### 选购件 Options

- 特殊吸料管/Special suction pipe
- 旋风分离器/Cyclone separator
- 主电源漏电开关/Leakage switch of main power
- SL-38简易混合装置/SL-38 simple mixing device
- 油污过滤器/Oil demister
- 输送风机加大/Conveying blower up
- 两方向输送/Secondary two-way conveying
- 露点仪/Dew point instrument
- SSR固态继电器/SSR solid state relay