

脱湿干燥机 DEHUMIDIFYING DRYER



CHALLENGER DFG-ZCseries

由川田创作的“完全清洁系统”

Produced by KAWATA widely Recognized for Its "TOTAL CLEAN SYSTEM"

省能源 30% (本公司比)

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

- 采用DFG-Z省能方法实施
- Principle of Saving Energy Refers to DFG-Z

使用高性能过滤器，防止异物混入

HEPA Filter

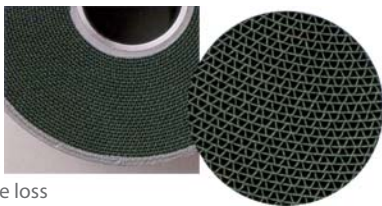
- 树脂中混入异物，是品质不良的最大原因
- 在输送，干燥回路上安装了高性能的过滤器(0.3μm×99.97%)，形成了完全封闭的循环系统，可以完全防止污染的产生
- Contamination of the material with foreign matter is one of the major causes of the reject product
- HEPA filters (Efficiency 99.97% at 3 microns) both in the drying and conveying circuits (closed-loop system) prevent contamination



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°C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°C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°C)
- The zeolite as a desiccant has high absorption efficiency even in dehumidifying the high temperature air of 100°C 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



使用空气切换清扫取代一切可能产生异物的阀门等结构

Kawata's original Air Cut Method

- 采用非阀门式的川田自主开发的空气切换清扫方式进行分批输送及清扫，配管内不会残留原料，也不会产生异物
- Batch conveying by means of Kawata's original air cutting method instead of using valves on the material line leaves no material in the pipe and prevents foreign matter



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)

材料配管采用内外抛光洁净管

Sanitary Pipes for the Material Line

- 输送时由于颗粒磨损会产生粉尘，而配管在连接部也可能产生污染物。为消除这两种危险，用兼有完全密封性和清洁性的内外抛光洁净管作为标准规格进行配备
- Sanitary pipes with excellent sealing performance eliminate the risk of contamination at the junction

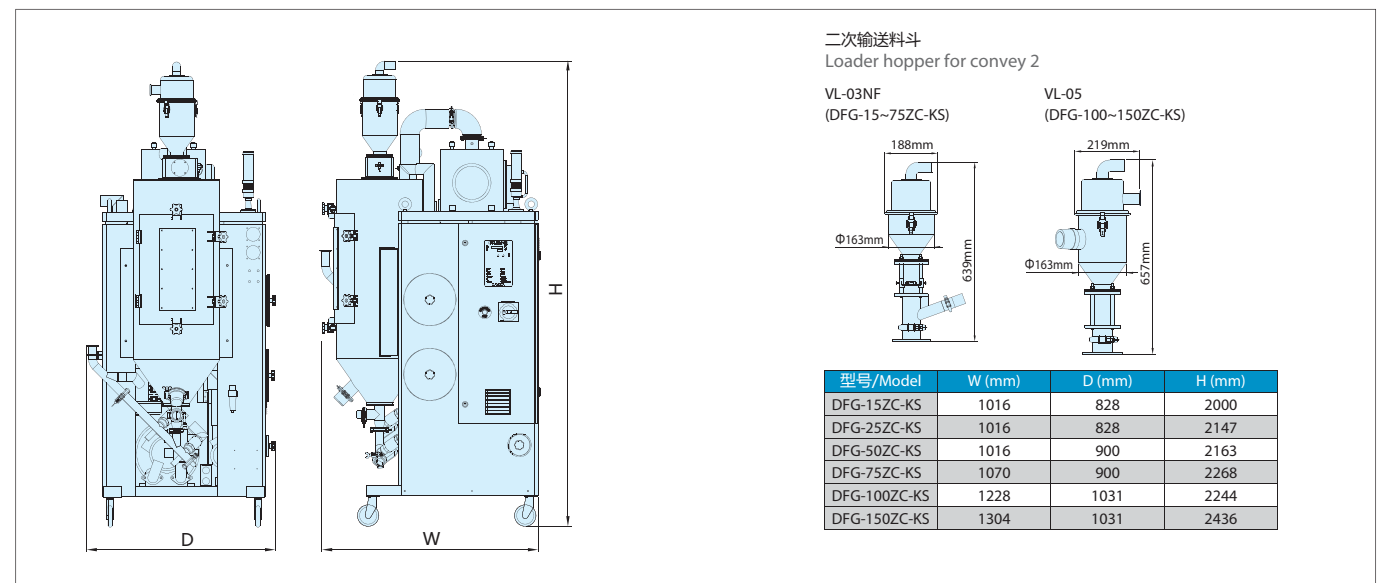


规格 Specifications

型号/Model	DFG-15ZC-KS	DFG-25ZC-KS	DFG-50ZC-KS	DFG-75ZC-KS	DFG-100ZC-KS	DFG-150ZC-KS	
风量/Air flow (m³/h)	28	40	75	125	167	250	
露点/Dew point (°C)	※ -40						
干燥温度/Drying temperature (°C)	75~140						
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			
再生加热管容量/Regeneration heater capacity (kW)	2.0						
再生风机容量/Regeneration blower capacity (50/60Hz)(kW)	0.09/0.12						
吸湿筒回转马达容量/Desiccant chamber motor capacity (kW)	0.025						
干燥高精度过滤器(过滤精度)/Dry HEPA filter(filter precision)	0.3μm×99.97%(捕集/Collection)						
干燥筒/Drying hopper	有效容量/Effective capacity (L)	25	42	84	125	167	250
	装料量/Feeding volume (kg)	15	25	50	75	100	150
	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	2.4	2.7	4.0		
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						
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			
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	20/32	20/40	32/50			
总电气容量/Power supply (50/60Hz)(kW)	4.8/5.3	5.3/5.8	6.7/7.6	8.7/9.9			
压缩空气用量/Compressed air requirement (L/min)	5 (0.4~0.6PMPa)(配管口径Φ8/Pipe size Φ8)						
冷却水量/Cooling water volume (L/min)	不要/No need						
附属品/Accessories	电源线/Power supply cable 5m						
涂装色/ Paint color	本体/Frame			日塗工 Y15-85A 半艶 JYMA Y15-85A, semigloss			
	电控箱门/Control panel door			日塗工 C69-50T			
机器重量/Weight (kg)	255	266	295	310	330	405	

※ 露点根据使用环境有所变动。
The dew point varies according to ambient air conditions.
※ N₂循环干燥的情况，请向各营业所询问。
Contact us for optional N₂ gas circulation.

外形尺寸图 Dimensions



选购件 Options

- 洁净型吸料管/Spotless suction pipe
- 旋风分离器/Cyclone separator
- 主电源漏电开关/Leakage switch of main power
- 两方向输送/Secondary two-way conveying
- 露点仪/Dew point instrument
- 输送风机加大/Conveying blower up
- SSR固态继电器/SSR solid state relay