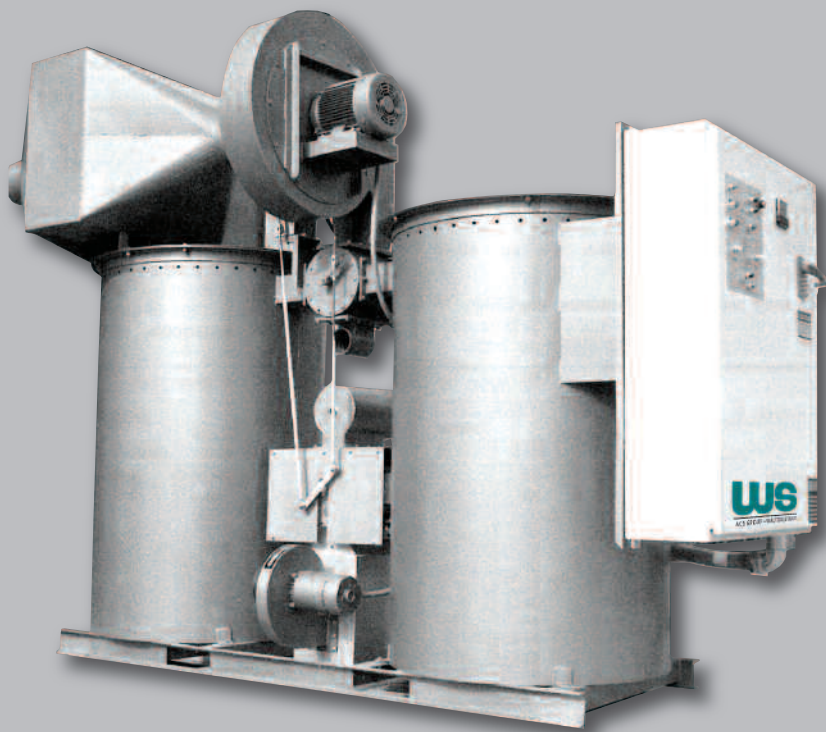


WSD DESICCANT HOPPER DRYER



WSD 1200

STANDARD FEATURES

- 460/3/60 supply voltage
- 85-4,000 CFM
- Dew points of -40°F (-40°C), standard
- Electronic temperature control
- Cycle times are 8, 12, and 16 hours. Component wear is reduced and desiccant life extended
- The only moving parts are two 4-way valves and the blowers
- Standard hopper clean-out door and large sight glasses
- Direct drive fans— no belts, no sheaves
- Only desiccant is located inside towers. All heaters are located outside in separate boxes
- Process air heaters are mounted externally and are drawer-type with slide in and out

OPTIONS

- Gas fired process heaters
- Remote heater
- Low dew point indication
- PLC control options
- Other supply voltages available

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WSD DESICCANT HOPPER DRYER

Suggested Residence and Temperature Selection Guide for Hygroscopic Plastic Materials

Material	Residence Time (Hours)	Average Drying Temperature °F (°C)	Material	Residence Time (Hours)	Average Drying Temperature °F (°C)
ABS	3-4	180° (80°)	Polycarbonate	3-4	250° (50°)
Acetate	2-3	120° - 150° (49° - 65°)	Polyethylene with 35-40% Carbon Black	6-12	160° (70°)
Acrylic	3-4	190° (85°)			
Butyrate	2-3	120°-150° (49° - 65°)	Polyurethane	3-4	180° (80°)
Nylon	3-6	170° (75°)	XY Polymer	3-4	160° (70°)
PET (Crystalline State Only)	4-6	300°- 350° (150° - 175°)	P.E.T.G	4-5	150° (65°)

Consult factory for any materials not shown

NOTE: For non-critical parts with surface finishes which are not critical, use short residence time per the chart. Where the part is critical in extrusion or molding processes, use the longer residence times. This allows you to get the material very dry, eliminating more moisture for an excellent finished product. This chart

represents suggested material residence times and temperature based upon ACS Group · Walton/Stout test and experience for sizing ACS Group · Walton/Stout drying equipment. No other use is intended or implied. For further information on your specific material, contact your material supplier.

For proper dryer application, review the residence time guide above.

Hopper

Determine the pounds per hour that your process requires and multiply the residence time by the pounds per hour to determine the hopper capacity. If the hopper size is marginal, always select the larger size.

Dryer

The proper dryer is applied by matching the CFM of the unit to the desired throughput of the process. Always use 1 CFM per pound of material.

Application Demonstration:

If your process requires 1000 lbs. per hour of extruded ABS — from the residence guide, you would select approximately 4 hours of residence in the dryer hopper. 4 hrs x 1000 lbs/hr = 4000 lb. hopper capacity. Select this hopper from the SD hopper chart. Utilizing 1 CFM per lb. of material per hour, you would require a dryer with 1000 CFM. The selected system would then be a WSD 1000 — SD 135 .

SD Hopper Insulated ^A				
Model	Capacity lbs (kgs)	Nominal Dimensions in (mm)		Weight
		Diameter	Height	
SD 6	210 (95)	22 (559)	56 (1,422)	110 (50)
SD 9	315 (143)	22 (559)	68 (1,727)	160 (72)
SD 12	420 (191)	28 (711)	68 (1,727)	210 (95)
SD 17	595 (270)	28 (711)	88 (2,235)	260 (118)
SD 23	805 (365)	28 (711)	110 (2,794)	300 (136)
SD 30	1,050 (476)	34 (863)	99 (2,514)	450 (204)
SD 45	1,575 (715)	34 (863)	137 (3,480)	650 (295)
SD 60	2,100 (953)	44 (1,117)	120 (3,048)	850 (386)
SD 75	2,625 (1,190)	44 (1,117)	141 (3,582)	980 (445)
SD 90	3,150 (1,429)	54 (1,311)	126 (3,200)	1,300 (590)
SD 135	4,725 (2,143)	54 (1,311)	163 (4,140)	1,750 (794)
SD 180	6,300 (2,858)	68 (1,727)	156 (3,962)	2,050 (930)
SD 240	8,400 (3,810)	68 (1,727)	185 (4,699)	2,350 (1,065)
SD 300	10,500 (4,762)	78 (1,981)	186 (4,724)	2,700 (1,225)
SD 425	14,875 (6,747)	78 (1,981)	225 (5,715)	3,100 (1,406)

^A For detailed dimensional data see bulletin number WMH1-140 and WMH1-175

WSD Model	Air Flow (cfm)	Nominal Dimensions in (mm)			Weight
		Width	Length	Height	
WSD 125	125	36	67	63	650
WSD 185	185	36	67	63	800
WSD 250	250	40	84	74	1100
WSD 400	400	40	84	74	1300
WSD 600	600	53	109	88	1400
WSD 750	750	53	109	97	2300
WSD 1000	1000	52	118	103	3000
WSD 1200	1200	52	118	103	3200
WSD 1500	1500	57	133	113	4000
WSD 2000	2000	63	192	125	4300
WSD 2500	2500	63	192	125	4600
WSD 3000	3000	63	196	125	5000
WSD4000	Consult Factory				

Larger systems available-contact ACS Group · Walton/Stout.

^B Suggested residence and temperature selection chart is based on experience for sizing ACS Group · Walton/Stout drying equipment. No other use is intended or implied. For information on your specific material, contact your material supplier.

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