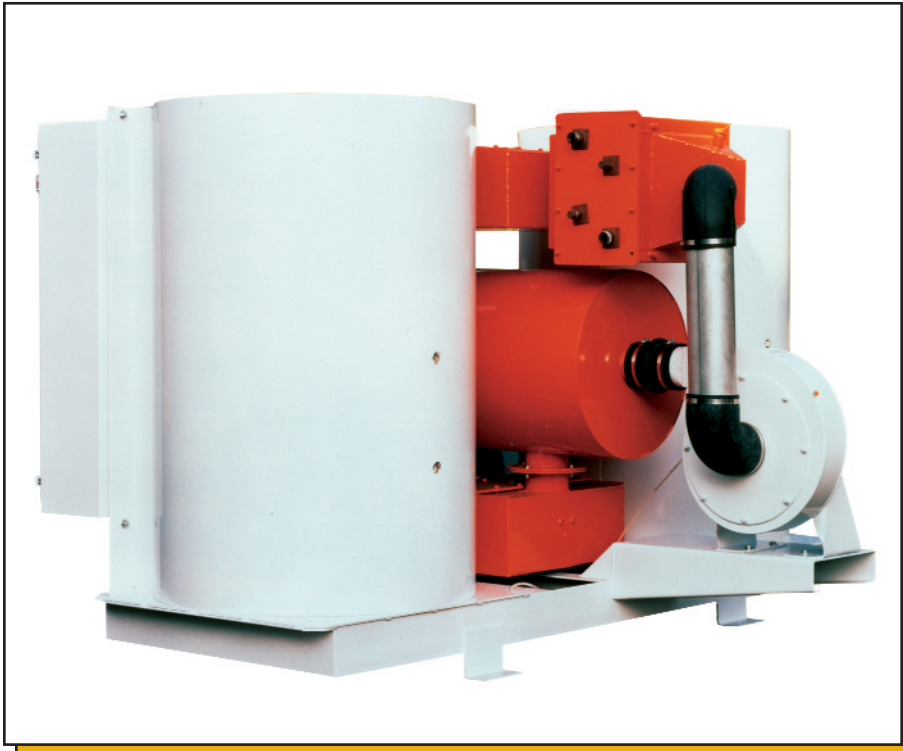


# DB Series

## Desiccant Dryer



*DB Series Desiccant Dryer: an efficient and cost effective method of drying hygroscopic materials prior to processing.*

The DB Series Desiccant Dryer from Process Control is the product of an extensive research and development program. Featuring our proven desiccant dehumidifying technology, the DB Series offer simplified controls, unparalleled energy efficiency, and world class reliability.

The clean, simple design and logical placement of all components give users easy access to all system components. The air switching valves are designed to be wear-free and provide a superior seal between the active and regenerative desiccant beds. There are no rotating valve carousels to create maintenance problems for operators. Energy efficient heater boxes with an innovative outer shell minimize heat loss. A process air heater box mounted directly on the dryer hopper saves

energy and provides for a more effective temperature control.

The closed-loop cooling within the regenerative cycle avoids deposits of atmospheric moisture into the freshly regenerated desiccant bed. The integral air to water heat exchanger assures a dry, cool bed with a predictable moisture capacity. In an open loop cooling system, with no heat exchanger, regeneration heat is exhausted into ambient and the bed is not cooled sufficiently prior to being placed into the active circuit. Additionally, our insulated desiccant towers save energy and minimize the time required for the regeneration heat up stage.

An air flow ratio of only 0.6 CFM per PPH of process material is all that is

required due to our superior hopper design and closed loop regeneration technology. Compared to the 1.0 CFM per PPH common throughout the dryer industry, our lower airflow results in significant energy savings through reduced BTU requirements and energy efficient desiccant beds.

The operator control panel on the DB Series utilizes a touch screen interface with an Allen-Bradley micro-logix 1200 PLC controller. This allows operators to easily adjust temperature set point controls for primary and regeneration circuits and view dryer status and safety indicators. ■

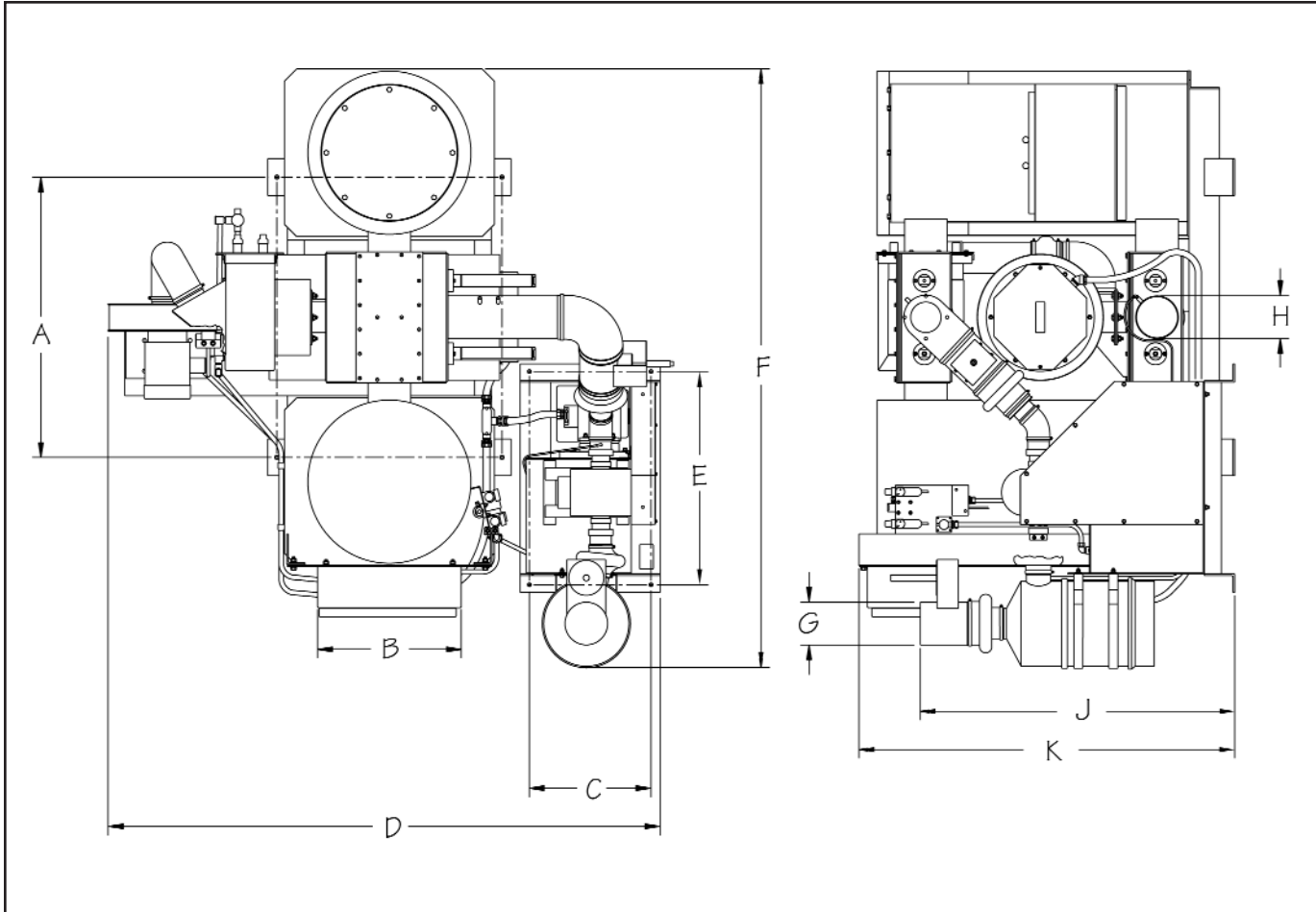
### Standard Features

- Positive displacement blowers for primary circuit, air to water heat exchanger for regenerative circuit
- Low maintenance cartridge filters
- Vacuum and pressure relief valves
- EDPM Hi-temp rubber and Gor-Tex PTFE seals
- Allen Bradley Micro-Logix controller with touch screen interface
- IEC rated starters and contactors
- Independent over-temperature protection
- Heavy duty disconnect

### Options

- Dew point switching of desiccant towers (-40° or -60°F)
- Pre-coolers, aftercoolers and special filtration for primary circuit air
- Special paint and electricals

# DB Series Desiccant Dryer



## SPECIFICATIONS for DB SERIES DESICCANT DRYER

Model Number	CFM	Dimensions (inches)										Ship Weight lbs.				
		A	B	C	D	E	F	G	H	J	K					
DB035	210	46.0	37.0	20.0	90.8	35.0	98.3	7.0	7.0	51.7	61.8	2000				
DB055	330				52.2					2000						
DB080	480				93.1					52.7		2300				
DB120	720				93.6					52.4		3300				
DB160	960			26.3	95.5	43.3	109.2			51.0	3500					
DB200	1200			68.0	51.5	57.0	134.0			63.0	143.0	8.0	8.0	58.4	73.8	4000
DB250	1500										147.0			4500		
DB300	1800										10.0			10.0		72.0
DB350	2100	10.0	10.0					72.0	73.8		4500					
														4500		



**PROCESS CONTROL Corporation**  
**World Headquarters**  
 6875 Mimms Drive, Atlanta, GA 30340 USA  
 Tel: (770) 449-8810 Fax: (770) 449-5445  
 www.process-control.com

**PROCESS CONTROL GmbH**  
 Industriestrasse 15, 63633 Birstein, Deutschland  
 Tel: (+49) 0 60 54-91 29 0 Fax: (+49) 0 60 54-91 29 99  
 E-Mail: ProcessControl@t-online.de