

5-30  
SCFM

**CDS SERIES**  
SINGLE TOWER  
DESICCANT AIR DRYERS



**PROVEN RELIABILITY.**



Champion specializes in delivering the best compressed air quality to your working environment. Removing water, solid particulates and oil from compressed air has many benefits which all lead to increased productivity and reduced overhead costs. The CDS Series single tower desiccant air dryer provides quality air to your application with minimal investment. The compact, in-line design is ideally suited for point of use applications, such as paint spraying operations or pneumatic tools, that require clean, dry compressed air. The modular housings, with optional oil removal pre-filter provides ease of installation to any system. Drying compressed air was never easier.

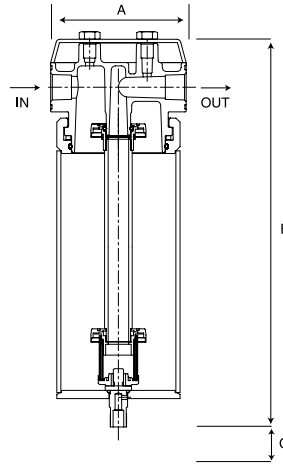


## CDS SERIES FEATURES

- Delivers -40°F dew point for dry air
- Flows of 5 to 30 scfm ideal for point of use applications
- 1/4" and 1/2" connections make installation easy
- Rugged, powder coated corrosion resistant aluminum bowl that with-stands tough environments
- Integrated 15 micron dust filter provides added protection
- Optional CFF Grade E filter removes solids to 0.01 micron and oil down to 0.008 ppm
- Desiccant change-out indicator monitors desiccant condition



CDS5F Dryer with Optional



## HOW IT WORKS

Contaminated compressed air enters the desiccant dryer and flows downward through a bed of silica gel desiccant. As the desiccant removes the water and becomes saturated, the color of the desiccant change-out indicator turns from blue to white. Next the air flows through an integrated dust filter upwards to the outlet port of the dryer. The air is dried to a -40°F dew point and is ready for use.

## TABLE 1 - SPECIFICATIONS

Model	Flow Capacity scfm (m <sup>3</sup> /hr) @ pressure shown			Inlet/Outlet Connections	Housing Dimensions in (mm)			Weight lb (kg)	Optional Oil Pretreatment Package
	80 psig (6 bar)	100 psig (7 bar)	150 psig (10 bar)		A	B	C*		
CDS5	4.1 (7.0)	5.0 (8.5)	7.2 (12.2)	1/4"	4.12 (105)	12.62 (321)	3.0 (76)	13.0 (5.9)	CDS5F
CDS10	8.3 (14.0)	10.0 (17.0)	14.4 (24.4)	1/4"	4.12 (105)	12.03 (305)	3.0 (76)	15.0 (6.8)	CDS10F
CDS20	16.5 (28.1)	20.0 (34.0)	28.7 (48.8)	1/2"	4.12 (105)	20.25 (514)	3.0 (76)	19.5 (8.9)	CDS20F
CDS30	24.8 (42.1)	30.0 (51.0)	43.1 (73.2)	1/2"	4.12 (105)	28.08 (711)	3.0 (76)	22.5 (10.2)	CDS30F

\*Minimum bowl removal clearance  
 -Maximum Operating Pressure: 200 psig (14 bar)  
 -Maximum Operating Temperature: 125°F (52°C)

## TABLE 2 - SILICA GEL DESICCANT CHARGES

Dryer Model	Silica Gel lbs (kg)	Kit Model*	Replacement Silica Gel Kit
CDS5 & CDS5F	1 (0.45)	CDS5D	Two x 1 lb (0.45 kg) bags
CDS10 & CDS10F	2 (0.9)	CDS10D	Two x 2 lb (0.9 kg) bags
CDS20 & CDS20F	4 (1.8)	CDS20D	Four x 2 lb (0.9 kg) bags
CDS30 & CDS30F	6 (2.7)	CDS30D	Six x 2 lb (0.9 kg) bags



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Due to Champion's continuing product development program, specifications and materials are subject to change without notice or obligation.

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