



# COMPRESSED AIR DRYERS

No more moisture | No more water | No more oil



# Universal Compressors Inc.

Universal Compressors Inc. is a leading manufacturer of Compressed Air Dryers specializing in the high quality filtration, separation and purification of compressed air.



**D Series** | Compressed Air Dryers



**ATD Series** | Air Tool Dryers



**FC/FD Series** | Mini Filters and Desiccant Dryers



**FSD Series** | Water Separators



**FSD Series** | Compressed Air Filters



**TD Series** | Automatic Timer Drains



**SUPER-DRY**

# D Series | Compressed Air Dryers | :

The world's highest efficiency and heavy duty  
Desiccant Compressed Air Dryers at affordable prices



LIFE  
EXPECTANCY  
**25**  
YEARS

SUPER-DRY  
**10**  
YEAR  
WARRANTY

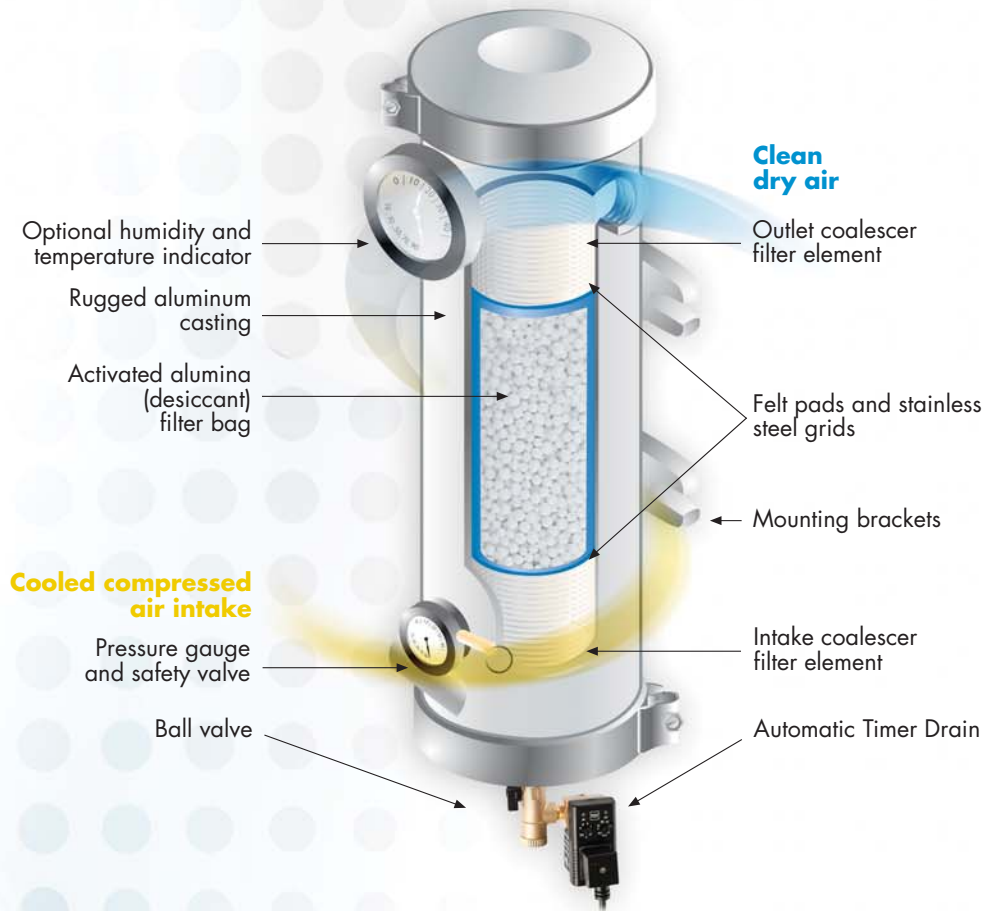
- Up to 300 SCFM
- Point of use dryers
- Supplement to a central system
- Zero air loss

**Applications:**

- | Sand Blasting | Paint Spraying | Dust Collectors | Foam Spray |
- | Air Welders | Plasma Cutting | Air Tools | Packing Equipment |



### Standard Features and Benefits



Super-Dry Compressed Air Dryers contain two highly efficient polypropylene coalescer elements at inlet & outlet ports to absorb oil and all solid air particles. Also included, one desiccant bag specifically designed to absorb water vapors and humidity from your compressed air system.

#### Housings for Flows up to 300 SCFM:

- Heavy duty aluminum casting for high durability and corrosion resistance
- Powder coated exterior for added durability
- Special V-band stainless steel clamps permit easy removal of covers for cartridge replacement
- Optimized air flow through housing minimizes pressure drop
- Wall mounting brackets included
- 3 stages in one unit: separation, filtration and drying

#### Enhanced Performance:

- Easy replaceable self-contained desiccant cartridges
- High efficiency polypropylene coalescent elements
- Optimum filter efficiency even at low air flows
- 10 year warranty
- Life expectancy: 25 years
- Pressure dew point: - 40°F
- Max. working pressure: 150 PSIG





## Premium Options



- 1 Temperature and Moisture Indicator**  
Indicates optimum cartridge replacement based on % relative humidity
- 2 Ball Valve & Strainer**  
Isolates and protects drain
- 3 Automatic Timer Drain**  
Efficient drainage of condensate  
Extends the cartridge life of the dryer

### Standard Accessories



Pressure Gauges, Safety Valve and Ball Valve

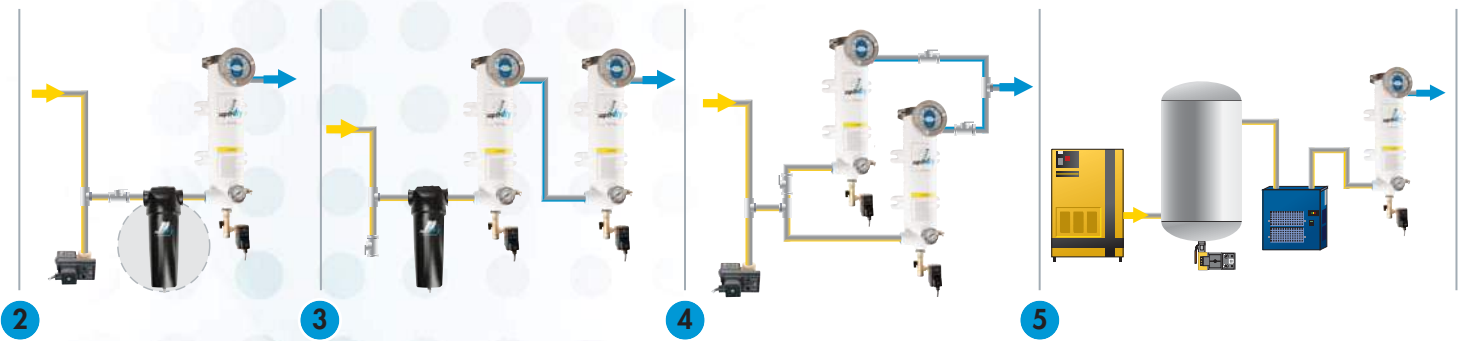
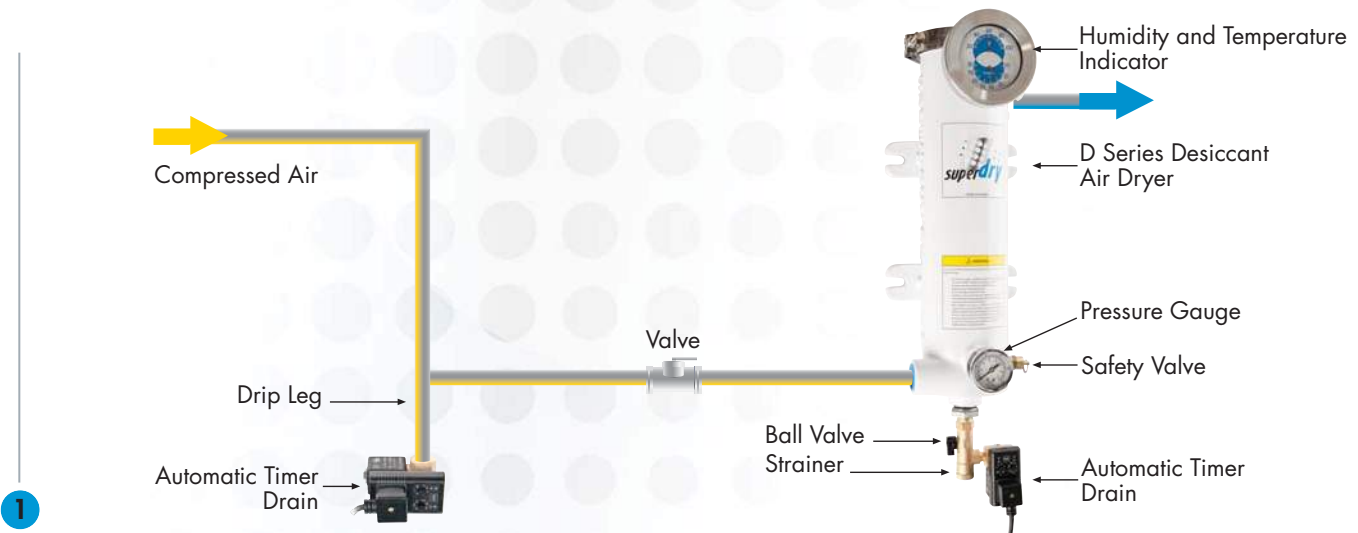


Replacement Cartridge

# SUPER-DRY

## D Series | Compressed Air Dryers |

### Typical Configurations & Installations



#### 1 Recommended Configuration

- General Shop Air
- Air Tools
- Sand Blasting

#### 2 Air / Water Separator

- Extends the life of the desiccant cartridge

#### 3 In Series Configuration

- Provides a stable dew point

#### 4 Parallel Configuration

- Recommended for high flows
- Maintenance without interrupting the air supply

#### 5 Downstream of a refrigerated air dryer

- Provides lower dew point



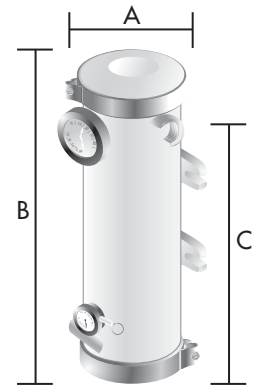
# SUPER-DRY

## D Series | Compressed Air Dryers |

### Specifications and Engineering Data




#### Specifications and ordering information:

Model	Air Flow @ 100 psig scfm	Inlet/Outlet NPT in	Dimensions			Weight lbs	Replacement Kit
			A	B	C		
D-1	70	1	6	19	17 ½	20	ED-1
D-2	150	1 ½	9	20	18	40	ED-2
D-3	200	2	9	33	30	75	ED-3
D-4	300	3	11	33	29 ½	100	ED-4



Maximum inlet temperature: 100°F (38°C) Maximum inlet pressure: 150 psig

#### Options

			
<b>Humidity and Temperature Indicator HGT- ¼</b>	<b>Automatic Timer Drain TD- ¼</b>	<b>Ball Valve Strainer BVS- ¼</b>	
HGT - ¼	Relative Humidity % 10 - 80	Temperature °F 20 - 100	Connection NPT ¼
TD - ¼	Interval Time min. 0.5 - 45	Discharge Time sec. 0.5 - 10	In & Out Ports NPT ¼
BVS - ¼	Inlet Port NPT ½	Outlet Port NPT ¼	Material Brass



# SUPER-DRY ATD Series | Air Tool Dryers | :

Protect your compressed air application



LIFE  
EXPECTANCY  
**25**  
YEARS

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SUPER-DRY  
**10**  
YEAR  
WARRANTY

- High efficiency
- Portable and lightweight
- Continuous clean dry air

#### Applications:

| Nail Guns | Spray Painting & Coating | Airbrushes | Shot Blasting |  
| Air Sampling Equipment | Automotive Workshop | Air Tool Protection |





# SUPER-DRY

## ATD Series | Air Tool Dryers |

Cam Lock Model also available



ATD-1/2 CL

### ATD Series

#### Features:

- Aluminum casting
- Portable and lightweight
- Easy to use
- Quick and easy to service
- No electrical requirements

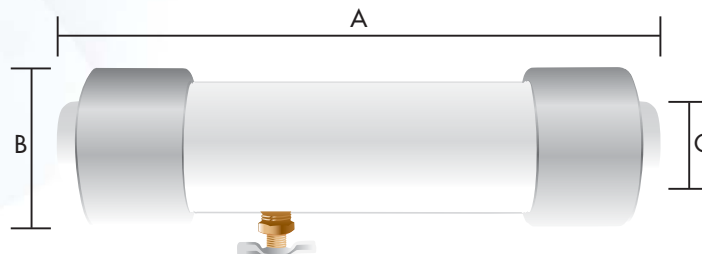
#### Benefits:

- Extends the life of your air-operated equipment
- Prevents air tools from freezing when working in a cold environment
- Reduces air tools maintenance costs
- Eliminate production down time

#### Specifications and ordering information:

Model	Air Flow @ 100 psig scfm	Inlet/Outlet NPT in	Dimensions			Weight lbs	Replacement Kit
			A	B	C		
ATD-1/4	22	1/4	10 1/8	2 5/8	1 1/2	2.5	EATD
ATD-1/2	44	1/2	10 1/8	2 5/8	1 1/2	2.5	
ATD-1/2 CL	44	1/2	10 3/4	3	1 3/4	4.2	

Maximum inlet temperature: 100°F (38°C) Maximum inlet pressure: 150 psig



# SUPER-DRY FC/FD Series | Mini Filters and Desiccant Dryers | :

Protect your compressed air application



- High efficiency
- Portable and lightweight
- Continuous clean dry air



# SUPER-DRY

## FC/FD Series | Mini Filters and Desiccant Dryers |

### Specifications and Engineering Data

#### The Super-Dry FC/FD contains:

- A coalescer filter (FC) designed to filter water, oil and other contaminants
- A miniature desiccant dryer (FD) to remove moisture from your compressed air system

#### Quick change replacement kit



FC / FD Series elements



FD element



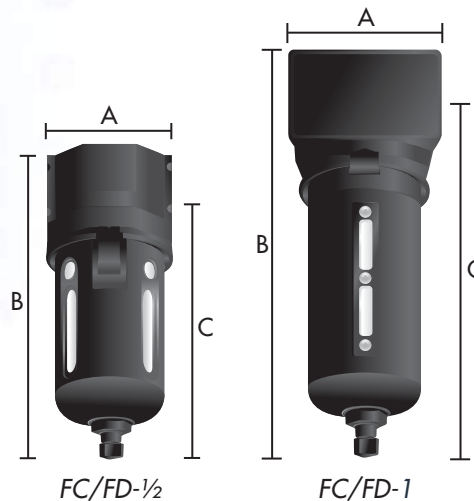
FC element

#### Specifications and ordering information:

Model	Air Flow @ 100 psig scfm	Inlet/Outlet NPT in	Dimensions			Weight lbs	Replacement Kit
			A	B	C		
FC-1/2	20	1/2	3 1/8	7 1/2	6 1/2	1.2	EFC-1/2
FC-1	40	1	3 5/8	11 7/8	10	3.8	EFC-1
FD-1/2	20	1/2	3 1/8	7 1/2	6 1/2	1.2	EFD-1/2
FD-1	40	1	3 5/8	11 7/8	10	3.8	EFD-1

FC-1/2 & FD-1/2: Maximum inlet temperature: 100°F (38°C) Maximum inlet pressure: 130 psig Plastic Bowl

FC-1 & FD-1: Maximum inlet temperature: 100°F (38°C) Maximum inlet pressure: 150 psig Metal Bowl



# SUPER-DRY FSD Series | Water Separators | :

## | Bulk Liquid Removal



- **Excellent liquid removal**
- **Low maintenance**
- **Easy to install**

Super-Dry Water Separators have been designed for the efficient removal of bulk liquid contamination from compressed air.





# SUPER-DRY FSD Series | Water Separators |

## Specifications and Engineering Data

### Features:

- Up to 1695 scfm
- Heavy duty housing for high durability
- Zero air loss float drain included
- Excellent liquid removal efficiencies at all flow conditions



Float Drain



### Pre-Filtration of Super-Dry D Series Air Dryer

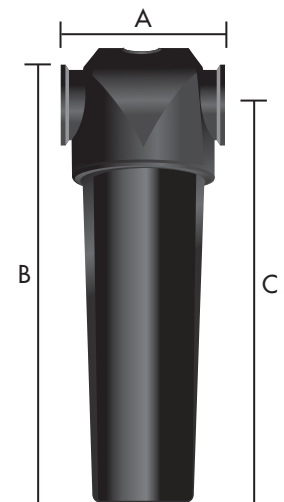
### Typical applications

- Protection of refrigeration dryer
- Pre-filtration of desiccant dryer
- Bulk liquid removal at the point of use
- Downstream of an after-cooler
- Protection of compressed air piping and air receivers from corrosion

### Specifications and ordering information:

Model	Air Flow @ 100 psig scfm	Inlet/Outlet NPT in	Dimensions			Weight lbs
			A	B	C	
FSD-60-W	85	1/2	3.8	9.3	7.9	3
FSD-80-W	85	3/4	3.8	9.3	7.9	3
FSD-100-W	233	1	5.1	10.8	9.2	5
FSD-180-W	233	1 1/4	5.1	10.8	9.2	5
FSD-300-W	742	1 1/2	6.7	17	15	12
FSD-400-W	742	2	6.7	17	15	12
FSD-500-W	1695	3	8.1	19.9	17.5	22

Maximum inlet temperature: 176°F (80°C) Maximum inlet pressure: 232 psig



# SUPER-DRY FSD Series | Compressed Air Filters |

Superior Filtration for Increased Productivity



- **No more oil**
- **No more solid air particles**
- **No more rust**
- **No more contaminants**

Super-Dry FSD Series filters effectively removes up to 99% of contaminants present in the compressed air. Clean, quality compressed air maximises air-tool service life, ensures that pneumatic machinery and control systems operate at the peak of their performance and keeps pipes & valves free from contaminants.



# SUPER-DRY

# FSD Series | Compressed Air Filters |

## Specifications and Engineering Data

### Features:

- High flow capabilities
- Low differential pressure
- Long service life
- Reliable filtration
- Simple maintenance
- Zero air loss float drain and pressure differential indicator included
- High efficiency pleated filter elements



- 1 Pressure differential indicator**
  - Visual inspection
- 2 Filter housing**
  - High grade, powder coated, aluminium casting
  - Easy filter element removal
  - Minimal pressure drop
  - Anti-corrosion protection
- 3 Element**
  - Long service life
  - Inner and outer Stainless Steel support screens
  - Pleated elements for higher filter surface
  - End caps with airtight positive «O» ring seal prevent contamination by-pass
- 4 Automatic condensate drain**
  - With float-controlled condensate drainage



### Grade A - Particulate Filter

- Solid Particulate Removal: 1.0 micron
- Pressure Drop: 0.44 psi
- Oil Carry-Over: 0.5 ppm

### Grade B - Coalescing filter

- Solid Particulate Removal: 0.01 micron
- Pressure Drop: 1.74 psi
- Oil Carry-Over: 0.001 ppm

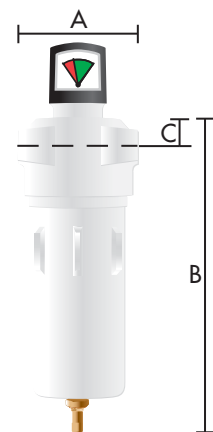
### Grade D - Activated Carbon

- Pressure Drop: 1.31 psi
- Oil Carry-Over: 0.003 ppm

### Specifications and ordering information:

Model	Air Flow @ 100 psig scfm	Inlet/Outlet NPT in	Dimensions			Weight lbs
			A	B	C	
FSD-30	30	¼	3.43	8.23	0.83	3.3
FSD-60	60	½	3.43	10.98	0.83	3.7
FSD-100	100	¾	5.12	12.40	1.69	9.4
FSD-140	140	1	5.12	12.40	1.69	9.4
FSD-180	180	1	5.12	16.34	1.69	11
FSD-300	300	1½	5.12	20.28	1.69	12.1

Maximum inlet temperature: 176°F (80°C) Maximum inlet pressure: 232 psig





### **SUPER-DRY SOLUTIONS INCLUDES:**

- D Series**      ● | Compressed Air Dryers
- ATD Series**    ● | Air Tool Dryers
- FC/FD Series** ● | Mini Filters and Desiccant Dryers
- FSD Series**    ● | Water Separators
- FSD Series**    ● | Compressed Air Filters
- TD Series**     ● | Automatic Timer Drains



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