

# Becker\* Products

## FD-1500 Dryer

*Provides Filtration and Moisture Protection for all Becker Control Instrumentation*

The Becker FD-1500 dryer filters and dehydrates supply gas for all Becker control instrumentation. The FD-1500 dryer provides superior filtration and dehydration with 110 in<sup>2</sup> of 10 $\mu$  filtering media and 2.0 lbs. of silica gel. The FD-1500 dryer incorporates an easy-to-replace spin-on cartridge made of a high quality, high capacity nylon and fiberglass filter element reinforced with stainless steel mesh. All FD-1500 dryers are fully hydrotested to one and a half times the working pressure to help ensure pressure vessel integrity.

### Product Features

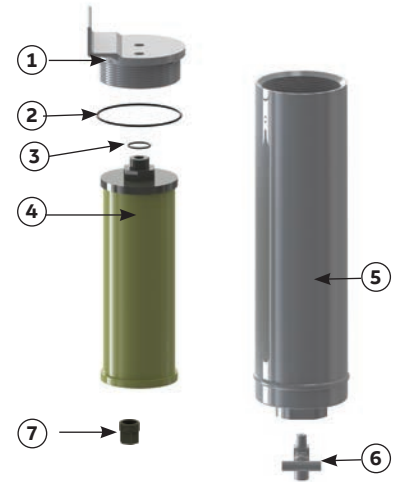
- Offers protection from excessive moisture, freezing and dirt
- Prevents clogging while providing 10 micron filtration, thanks to two-stage filter technology
- Hydrostatically tests to 2,250 psig
- Incorporates 2-inch pipe mount bracket
- Features a spin-on replacement cartridge for ease of change-out
- Offers internal access with an ordinary wrench thanks to machined (square) end of housing
- Absorbs up to 0.66 lbs. of moisture with high capacity silica gel
- Offers superior capacity filter element

**Table 1 - Specifications**

Specification	Value
<b>MAOP</b>	1500 psig
<b>Flow Capacity</b>	50 SCFM (1.4 m <sup>3</sup> /hr)
<b>Filtration</b>	10 $\mu$ nominal (110 in <sup>2</sup> filtration area)
<b>Dehydration</b>	2 lbs. (0.9 kg) silica gel moisture absorption
<b>Dimensions</b>	20-inch (508 mm) length 4-1/2" (114 mm) diameter
<b>Mounting</b>	2-inch pipe mount standard for all loose equipment
<b>Weight</b>	29 lbs (13 kg)



**Figure 1 - Becker FD-1500 Filter Dryer**



**Figure 2 - FD-1500 Filter-Dryer (exploded view)**  
Exploded view of the FD-1500 dryer illustrates the unit's simplicity.

**Table 2 - FD-1500 Filter Dryer Components**

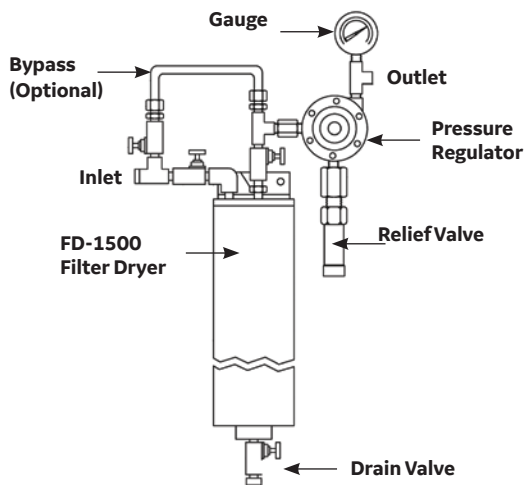
Item	Description	Part Number
1	Upper filter housing flange	21-3012
2	Filter housing O-ring	95-2652
3	Filter cartridge O-ring	95-2653
4	Replacement cartridge (includes filter cartridge O-ring, filter housing O-ring, and compatibility adapter)	21-4003
5	Lower filter housing	21-3021
6	Drain needle valve	20-2926
7	Compatibility adapter	21-3090

**Table 3 - FD-1500 Dryer Materials**

Item	Description	Material
1	Upper filter housing flange	Carbon steel
2	Filter housing O-ring	Buna-N
3	Filter cartridge O-ring	Buna-N
4	Fine filtration assembly (second stage)	Nylon
5	Replacement filter cartridge tube	PVC
6	Drying desiccant	Silica gel
7	Coarse filter (first stage)	Fiberglass
8	Lower filter housing	Carbon steel
9	Drain needle valve	316 stainless steel

**Table 4 - FD-1500 Port Definitions**

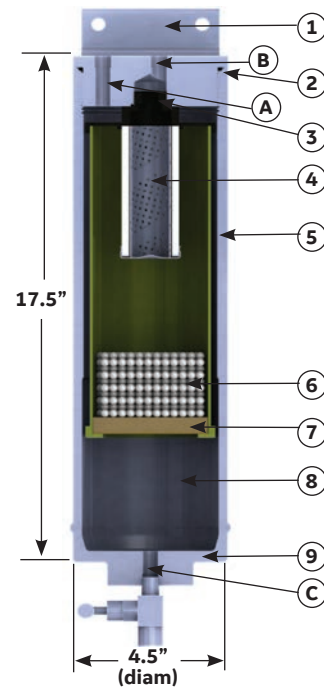
Item	Description	Port Size
A	Inlet	1/4-inch FNPT
B	Outlet	1/4-inch FNPT
C	Drain	1/4-inch FNPT



**Figure 3 -** Becker FD Series Gas Supply Systems Incorporate the FD-1500 Dryer. The economical FD-1 gas supply system provides complete regulation, filtration, dehydration, and relief in a single package.

**Table 4 - FD-1500 Port Definitions**

Item	Part Number
FD-1500 Filter Dryer (complete assembly)	21-3010
FD-1500 Filter Dryer replacement cartridge (includes filter cartridge O-ring, filter housing O-ring, and compatibility adapter)	21-4003



**Figure 4 -** FD-1500 Dryer (cutaway view) Cutaway view of the FD-1500 dryer illustrates main components and inner workings. The FD-1500 idryer is equipped with a high quality screen-reinforced nylon and fiberglass filtering media to prevent contaminants from damaging downstream instrumentation. Additionally, the FD-1500 dryer carries enough desiccant drying media to absorb up to 0.66 lbs. of entrained moisture. The FD-1500 dryer assembly contains a simple replacement cartridge that incorporates filtration and drying in one convenient module.

### Compatibility Adapter

Use the FD-1500 compatibility adapter to install FD-1500 replacement filter cartridges in other popular OEM filter/dryer housings. Take advantage of BHGE's two-stage filtration system and reduce your spare filter inventory without having to replace your existing filter housing. Simply thread the adapter onto a Becker FD-1500 replacement filter cartridge and it is ready to be installed in your existing filter housing. Contact your local sales representative for compatibility.



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