

OPENAIRE® FILTER SYSTEM FLOW REGULATOR

For Accurately Simulating CBR Filter Pressure Drop



The OpenAire Flow Regulator is used in place of CBR filters to simulate their flow restriction during ventilation system flow balancing and testing. The regulator mounts to the front of 600 CFM filter housings. It features an adjustable hub for “dialing in” the desired pressure drop for clean filter conditions, dirty filter conditions, or four (4) settings in between. The regulator allows ventilation supply systems to be tested and verified before installing the CBR filters, which preserves their service life.

CBR filters are essential for removing toxic contaminants from ventilation air in collective protection (ColPro) systems. Because CBR filters have a finite life, it is often undesirable to install and operate them during setup and balancing of the ventilation system. At times, CBR filters are simply not available when the supply system must be balanced. If they are available, there remains no easy way of simulating an aged filter condition to ensure that the ColPro system will operate effectively when filter flow restrictions increase. The OpenAire Flow Regulator was designed specifically to address these needs.

The Flow Regulator installs on the front of the CBR filter housing using existing HEPA cover mounting hardware. A rotary hub exposes six (6) calibrated orifice holes that impart flow restrictions from 5.0 in. wg (clean filter condition) to 7.5 in. wg (dirty filter condition) at intervals of 0.5 in. wg. The regulator does not allow flow to be completely restricted to ensure some flow to air-over fan motors.

The OpenAire Flow Regulator eliminates the performance uncertainties associated with other devices. Although a temporary device with no CBR protection capability, it can be used for extended periods and is compatible with the Bag Prefilter when dust collection is desired.

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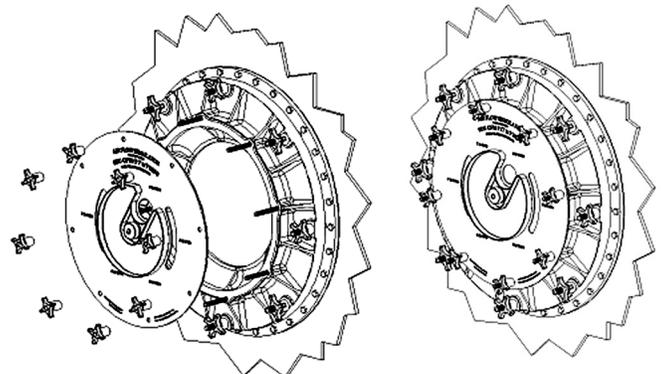
OPENAIRE FILTER SYSTEM FLOW REGULATOR SPECIFICATIONS

Ordering information	
HDT part number	62-NW001018-03
NSN	
On GSA Contract	
Dimensions	
Outside diameter	19" 48.26 cm
Depth	1.25" 3.18 cm
Weight	4 lbs 1.81 kg
Housing material	Aluminum plate with ABS hub, stainless steel hardware, and foam rubber gasket

FLOW RESTRICTION (IN. WG) AT FLOW RATE (SIMULATED: CLEAN TO DIRTY)

Hub Position @	1 o'clock	3 o'clock	5 o'clock	7 o'clock	9 o'clock	11 o'clock
Rated air flow						
500 CFM 14.2 m3/min	3.3 in. wg 822 Pa	3.8 in. wg 947 Pa	4.1 in. wg 1021 Pa	4.5 in. wg 1121 Pa	4.9 in. wg 1221 Pa	5.3 in. wg 1.320 Pa
550 CFM 15.6 m3/min	4.1 in. wg 1021 Pa	4.6 in. wg 1146 Pa	5.0 in. wg 1245 Pa	5.4 in. wg 1345 Pa	5.9 in. wg 1469 Pa	6.4 in. wg 1594 Pa
600 CFM 17.0 m3/min	5.0 in. wg 1245 Pa	5.5 in. wg 137 Pa	6.0 in. wg 1495 Pa	6.5 in. wg 1619 Pa	7.0 in. wg 1744 Pa	7.5 in. wg 1868 Pa
650 CFM 18.4 m3/min	6.0 in. wg 1495 Pa	6.5 in. wg 1619 Pa	7.0 in. wg 1744 Pa	7.7 in. wg 1918 Pa	8.2 in. wg 2043 Pa	8.7 in. wg 2167 Pa
700 CFM 19.8 m3/min	7.1 in. wg 1769 Pa	7.6 in. wg 1893 Pa	8.2 in. wg 2043 Pa	8.9 in. wg 2217 Pa	9.5 in. wg 2366 Pa	10.1 in. wg 2516 Pa

Products, product specifications and data are subject to change without notice to improve reliability, function, and/or design. Please contact Customer Service at 800.969.8527 for the most up-to-date product information.



HDT Expeditionary Systems, Inc.
 30500 Aurora Road, Suite 100
 Solon, OH 44139 USA
 P 800.969.8527 / 540.887.4700
 sales@hdtglobal.com

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