

OXYGEN

Medical Sterile Oxygen Filters

Models | O20015MS to O21500MS

Flow Rates 5.7 SCFM (9.5 Nm³/hr) to 1425.0 SCFM (2422.5 Nm³/hr)

When it comes to patient care, quality and reliability is paramount. Walker Filtration's New Medical Sterile Oxygen Filters are cleaned for oxygen service in accordance with ASTM G93/G93M, providing outstanding purity for applications where oxygen rated medical filtration is required.

Our Oxygen Filters provide high quality inlet air prior to entering an oxygen generator, as well as the required filtration after the generation process, to ensure the gas meets purity standards and does not carry particulate or other contaminants.

100% integrity tested, Alpha Medical Sterile elements are guaranteed for a minimum of 100 sterilizations at 248°F (120°C), ensuring that your oxygen pipeline is free from live bacteria and other sub-micron particles.

Walker Filtration's Oxygen Filters are manufactured on a dedicated line with strict cleaning methods to ensure the removal of all unwanted contaminants.



Stainless Steel End Caps
Specially designed for autoclave
sterilization compatibility



Contaminant Free Manufacturing All components and materials are thoroughly cleaned and certified for use in oxygen rich environments



Modular Filter
Low cost connecting kits and
new filter head design enables easy
close coupling assembly

- International Validation Designed to exceed the requirements of HTM 02-01 medical gas pipeline systems
- Simplified Serviceability Externally accessible drain, profiled bowl design, and unique push fit elements ensure quick and reliable maintenance
- Flow-Optimized Design Advanced filter head design for optimized flow performance
- Corrosion Protection Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating
- Suitable for Oxygen Service Oxygen Filters are specially designed, cleaned, and packaged, to ensure all combustible
 components are removed from the filter to prevent risk of ignition
- Product Safety in Mind Guaranteed safe housing closure with rotational safety stop











Cleaned in accordance with ASTM G93/G93M





Technical Specification

Filter Model	Pipe	Inlet flo	w rate*	Dimensions inches (mm)					ight	Flowers would	
	size inches	SCFM	Nm³/hr	Α	В	C	D	lbs	Kg	Element model	
O20006MS	1/8	5.7	9.5	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	EO20306SR	
O20015MS	1/4	14.3	23.8	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	EO20306SR	
O20025MS	1/4	23.8	39.9	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	EO20408SR	
O20032MS	3/8	30.4	51.3	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	EO20408SR	
O20050MS	1/2	47.5	80.8	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3 0.6		EO20412SR	
O20070MS	1/2	66.5	113.1	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	(80) 3.7 1		EO20612SR	
O20085MS	3/4	80.8	136.8	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.15 (80) 3.7		EO20612SR	
O20105MS	1	99.8	169.1	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.15 (80) 3.7 1.7		EO20612SR	
O20125MS	3/4	118.8	201.4	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)) 4.4 2.0		EO20621SR	
O20175MS	1	166.3	282.2	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0	EO20621SR	
O20280MS	11/4	266.0	452.2	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	35 (85) 6.6 3.0		EO20731SR	
O20320MS	11/2	304.0	516.8	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	35 (85) 6.6 3.0		EO20731SR	
O20400MS	11/2	380.0	646.0	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	1 (100) 10.8 4.9		EO20831SR	
O20450MS	2	427.5	726.8	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	EO20831SR	
O20700MS	2	665.0	1129.6	6.69 (170)	2.08 (53)	27.87 (708)	7.87 (708) 3.94 (100) 1.		5.5	EO20850SR	
O20850MS	21/2	807.5	1371.8	8.66 (220)	2.75 (70)	28.97 (736) 3.94 (100)		23.1	10.5	EO21140SR	
O20900MS	3	855.0	1452.6	8.66 (220)	2.75 (70)	28.97 (736)	3.94 (100)	23.1	10.5	EO21140SR	
O21250MS	3	1187.5	2018.8	8.66 (220)	2.75 (70)	33.74 (857)	33.74 (857) 3.94 (100) 25.		11.5	EO21160SR	
O21500MS	3	1425.0	2422.5	8.66 (220)	2.75 (70)	39.56 (1005)	3.94 (100)	27.6	12.5	EO21175SR	

* Rated flow at 100 psig (7 barg), reference conditions 14.7 psi(a) (1.014 bar(a)) 68°F (20°C), calculated using 0.95 Gas Density Factor based on 93% oxygen saturation

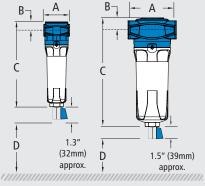
	calculated dailing 0.33 Gas Berisi	ty ractor based on 95 % oxygen saturation				
Grade	SR					
DOP efficiency**	>99.9999%					
Particle removal	0.01 r	nicron				
Maximum operating temperature	248°F	120°C				
Recommended operating temperature	122°F	50°C				
Maximum autoclave temperature	273°F	134°C				
Pressure Loss - clean & dry	1.5 psi	100 mbar				
Pressure loss - element change	12 months	8000 hrs				
Maximum working pressure	300 psig	20.7 barg				
Element end cap material	Stainle	Stainless steel				

**As specified in HTM 02-01 medical gas pipeline systems

Pressure correction factors	for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure psig (barg)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (14)	232 (16)	300 (20.7)
100 psig - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

Technical Notes

- 1. Direction of air flow is inside to out through the filter element. Filter element end caps are stainless steel.
- All Oxygen Filters are fitted as standard with Manual Drain Valves, VMDV25 on models O20006 to O20050, VMDVE25B on models O20070 to O20700, and VMDVE25M on models O20850 to O21500. Standard filters can operate at 300 psig (20.7 barg) range at 248°F (120°C).
- 3. Alpha Oxygen Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 1 and group 2 gases.
- 4. Threaded connections are NPT to ANSI/ASME B1.20 as standard. RP (BSP Parallel) to ISO 7-1 and RC (BSP Taper) to ISO 7-1 are also available up on request.
- 5. Pre-filtration should be used in conjunction with 0.01 micron sterile filters.
- 6. Medical Sterile Filter elements must not operate in water or oil saturated conditions and should be changed at least every 6 months.
- Maximum steam sterilizing autoclave temperature refers to the filter element ONLY. Oxygen grade SR filter elements can be steam sterilized 100 times.
 Each element must be autoclaved before commencement of duty.
- 8. Each element is supplied with an Air Sterilization Certificate to guarantee the highest quality to our customers.
- Oxygen SR grade filters are suitable for use in dry air conditions only, as any liquids passings through the filter could carry bacteria
 and compromise sterility.
- Walker Filtration genuine spare and aftermarket parts must be used, failure to do so will void product warranty. Walker Filtration shall
 not be held liable for damages suffered by the customer if Walker Filtration genuine oxygen rated spare and aftermarket parts are not used.
- 11. All Walker Filtration Alpha Oxygen Filters are produced from high quality, non-toxic, naturally inert raw materials and constituents, in accordance with FDA requirements for food contact as per Code of Federal Regulation (CFR), Title 21.



O20015MS to O20050MS

O20070MS to O21500MS









