

Dry dust oxygen filters

PDp+ O₂ 3-670

Superior oxygen safety and quality

Oxygen filters are an essential component of your oxygen generation system. Atlas Copco PDp+ O₂ filters protect the integrity and safety of your oxygen production with superior efficiency and reliability. They filter out particulates as small as 0.01 micron to ensure your oxygen meets your quality requirements. Designed and cleaned for oxygen service, the PDp+ O₂ is available in 19 models and also comes in a sterile/anti-bacterial variant.



Reliability

- Particulate dust filtration down to 0.01 micron.
- Air quality meets Class 1 for dust according to ISO 8573-1:2010.
- Cleaned for O₂ service.
- Manufactured on a dedicated production line with strict cleaning methods.



Safety

- Built without combustible components to prevent any risk of fire.
- Safe housing closure with dead-stop for effective sealing.
- Corrosion-proof housing.



Cost savings

- Low pressure drop.
- Advanced filter head design for optimized flow performance.
- Quick and easy filter element replacement lowers operational costs.

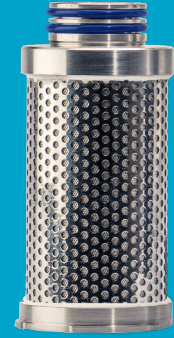
Advanced filter design



- Deep pleated media and advanced filter head design ensure optimal particulate removal at a low pressure drop.
- Double O-ring prevents contamination bypass.
- Internal and external electrophoretic paint finish and heavy-duty polyester powder coating protect housing exterior from corrosion.
- Quick and easy maintenance with profiled bowl and push-fit element design.
- Guaranteed safe housing closure with rotational safety stop.
- Certified suitable for oxygen service: all combustible components are removed from the filter to prevent fire in oxygen-enriched applications.

PDp+ O₂ MS: sterile oxygen filtration

The PDp+ O₂ MS offers the sterile/anti-bacterial filtration that medical, F&B and other exacting applications require, thanks to its dedicated filter element and O-rings. The element can be steam-sterilized in an autoclave.



Technical specifications

Type	Nominal capacity		Reference pressure		Maximum pressure		Connections	Dimensions						Free space for cartridge replacement		Weight		
	Nm ³ /h*	Scfh**	bar(g)	psi(g)	bar(g)	psi(g)		in	A		B		C		D		kg	lbs
									mm	in	mm	in	mm	in	mm	in		
PDp O ₂ 3+	10	6	7	102	16	232	1/8"	50	2.0	17	0.7	157	6.2	60	2.4	0.3	0.7	
PDp O ₂ 7+	25	14	7	102	16	232	1/4"	50	2.0	17	0.7	157	6.2	60	2.4	0.3	0.7	
PDp O ₂ 10+	40	24	7	102	16	232	1/4"	70	2.8	23	0.9	231	9.1	70	2.8	0.6	1.3	
PDp O ₂ 15+	50	30	7	102	16	232	3/8"	70	2.8	23	0.9	231	9.1	70	2.8	0.6	1.3	
PDp O ₂ 20+	80	50	7	102	16	232	1/2"	70	2.8	23	0.9	231	9.1	70	2.8	0.6	1.3	
PDp O ₂ 30+	110	70	7	102	16	232	1/2"	127	5.0	32	1.3	285	11.2	80	3.1	1.7	3.8	
PDp O ₂ 40+	140	80	7	102	16	232	3/4"	127	5.0	32	1.3	285	11.2	80	3.1	1.7	3.8	
PDp O ₂ 45+	170	100	7	102	16	232	1"	127	5.0	32	1.3	285	11.2	80	3.1	1.7	3.8	
PDp O ₂ 55+	200	120	7	102	16	232	3/4"	127	5.0	32	1.3	370	14.6	80	3.1	2.0	4.4	
PDp O ₂ 80+	280	165	7	102	16	232	1"	127	5.0	32	1.3	370	14.6	80	3.1	2.0	4.4	
PDp O ₂ 125+	450	266	7	102	16	232	1 1/4"	140	5.5	41	1.6	476	18.7	85	3.3	3.0	4.4	
PDp O ₂ 145+	515	304	7	102	16	232	1 1/2"	140	5.5	41	1.6	476	18.7	85	3.3	3.0	4.4	
PDp O ₂ 180+	645	380	7	102	16	232	1 1/2"	170	6.7	53	2.1	508	20.0	100	3.9	4.9	8.6	
PDp O ₂ 200+	725	425	7	102	16	232	2"	170	6.7	53	2.1	508	20.0	100	3.9	4.9	8.6	
PDp O ₂ 315+	1130	665	7	102	16	232	2"	170	6.7	53	2.1	708	27.9	100	3.9	5.5	12.1	
PDp O ₂ 380+	1370	810	7	102	16	232	2 1/2"	220	8.7	70	2.8	736	29.0	100	3.9	10.5	23.2	
PDp O ₂ 400+	1450	855	7	102	16	232	3"	220	8.7	70	2.8	736	29.0	100	3.9	10.5	23.2	
PDp O ₂ 560+	2020	1190	7	102	16	232	3"	220	8.7	70	2.8	875	34.4	100	3.9	11.5	25.4	
PDp O ₂ 670+	2425	1535	7	102	16	232	3"	220	8.7	70	2.8	1005	39.6	100	3.9	12.5	27.6	

* Nm³/h: reference at 20°C, 1000 mbar(a), 0% RH

** Scfh: reference at 68°F, 14.5 psi(a), 0% RH

Dimensions



ISO 8573-1:2010 Class 1 for dust

Quality class	Particles		
	0.1.. - 0.5 µm	0.5.. - 1 µm	1.. - 5 µm
0	as specified and more stringent than class 1		
1	≤ 20,000	≤ 400	≤ 10
2	≤ 400,000	≤ 6,000	≤ 100
3	-	≤ 90,000	≤ 1,000
4	-	-	≤ 10,000



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