

# Ultimate filters - Threaded filters

## Features & Benefits

- ▶ Flow-optimised design
- ▶ Improved air flow characteristics
- ▶ Reduced energy consumption
- ▶ Reduced costs of owner ship
- ▶ 6 filtration grades
- ▶ Increased performance
  - Significantly reduced differential pressure <125 mbar
  - Exceptional oil aerosol and particulate removal
- ▶ New filtration technology
  - NEW deep pleated media
  - NEW housing design for flexible installation and simplified serviceability
  - NEW externally accessible drain
- ▶ Tested and validated in accordance with ISO 12500-1 & ISO 8573-1:2010
- ▶ Dead stop head to bowl connection with lock indication for safety closure
- ▶ Corrosion protected housings: internal and external electrophoretic paint finish followed by a tough polyester powder coating
- ▶ Unique, specially designed adapter for removal of the automatic and manual drains from the bowl without a need to open the filter (for sizes 119-2550 m<sup>3</sup>/h)
- ▶ Multiple options
  - Differential pressure gauge with/without potential free contact
  - Manual drain
  - Automatic drain
  - Electronic drain
  - Wall brackets
  - Connection kits
- ▶ Two ranges available:
  - HE version with differential pressure gauge
  - S version without differential pressure gauge

## General Specifications

- ▶ Significantly reduced differential pressure <125 mbar
- ▶ Maximum working pressure: 16 bar(g)/232 psi(g)
- ▶ With manual drain: up to 20.7 bar(g)/300 psi(g)
- ▶ Available from 1/8" to 3"
- ▶ Flow rates from 10-2550 Nm<sup>3</sup>/h (6-1500 scfm)



HE filter



S filter

## Options



Connection kits



Automatic drain



Wall brackets



Manual drain with adapter



Electronic drain



Differential pressure gauge including potential free contact

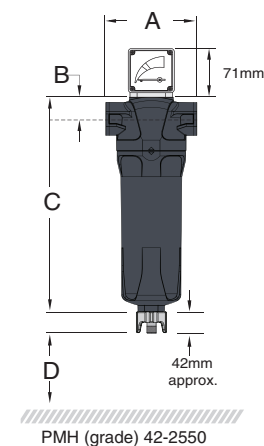
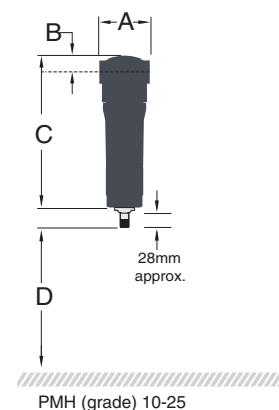
With energy efficiency and low total cost of ownership the Pneumatech Ultimate Filter surpasses conventional filters in the market place, providing to be the most advanced filter yet.

with the new element design, significantly improves air flow and performance, making the Ultimate filter one of the most energy efficient filter housings available.

The expertly engineered Ultimate Series not only achieves the highest air purity standards in line with ISO 8573-1:2010, it also incorporates the latest in filtration technology. The new filter housing reduces differential pressure loss which, when combined

With a range that incorporates coalescence filters, dust filters, activated carbon filters and water separators, available in a wide range of port sizes suitable for installation worldwide.

Filter Model	Pipe Size	Flow Rate		Dimension (mm)				Weight (kg) Approx.	Element Model
	G/ NPT	Nm <sup>3</sup> /h	SCFM	A	B	C	D		
PMH (grade) 10	1/8"	10	6	50	17	157	60	0.25	F(grade)-1
PMH (grade) 25	1/4"	25	15	50	17	157	60	0.25	F(grade)-2
PMH (grade) 42	1/4"	42	25	70	24	231	70	0.6	F(grade)-3
PMH (grade) 54	3/8"	54	32	70	24	231	70	0.6	F(grade)-4
PMH (grade) 85	1/2"	85	50	70	24	231	70	0.6	F(grade)-5
PMH (grade) 119	1/2"	119	70	127	32	285	80	1.7	F(grade)-6
PMH (grade) 144	3/4"	144	85	127	32	285	80	1.7	F(grade)-7
PMH (grade) 178	1"	178	105	127	32	285	80	1.7	F(grade)-8
PMH (grade) 212	3/4"	212	125	127	32	371	80	2	F(grade)-9
PMH (grade) 297	1"	297	175	127	32	371	80	2	F(grade)-10
PMH (grade) 476	1 1/4"	476	280	140	40	475	80	3	F(grade)-11
PMH (grade) 545	1 1/2"	545	321	140	40	475	80	3	F(grade)-12
PMH (grade) 765	2"	765	450	170	53	508	100	4.9	F(grade)-13
PMH (grade) 1189	2"	1189	700	170	53	708	100	5.5	F(grade)-14
PMH (grade) 1444	2 1/2"	1444	850	220	70	736	100	10.5	F(grade)-15
PMH (grade) 1529	3"	1529	900	220	70	736	100	10.5	F(grade)-16
PMH (grade) 2125	3"	2125	1250	220	70	857	100	11.5	F(grade)-17
PMH (grade) 2550	3"	2550	1500	220	70	1005	100	12.5	F(grade)-18



Grade	P	G	S	C	D	V
Particle removal (micron) ■	5	-	1	-	0.01	-
Outlet oil aerosol concentration (mg/m <sup>3</sup> ) ■	1	0.3	-	0.01	-	0.003
Total mass efficiency (%)	>90	>99.25	-	>99.9	-	-
Quality class of air at outlet (particles / oil) ▲	4 / 3	- / 3	3 / -	- / 2	1 / -	- / 1
Initial pressure drop over filter in dry applications (bar)	0.05	0.055	0.055	0.085	0.085	0.115
Initial pressure drop over filter in wet applications (bar) ★	0.08	0.125	-	0.125	-	-

### Pressure correction factors

For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure

Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	20 (290)
7 barg – correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.6