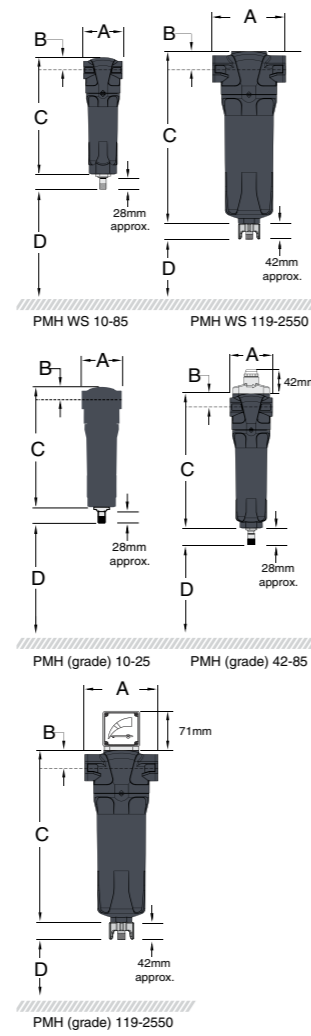


Technical Specification

Filter Model	Pipe Size	Flow Rate		Dimension (mm)				Weight (Kg) Approx.	Element Model
		Nm³/h	SCFM	A	B	C	D		
PMH WS 10	1/8	10	6	50	17	157	60	0.25	-
PMH WS 25	1/4	25	15	50	17	157	60	0.25	-
PMH WS 42	1/4	42	25	70	24	231	70	0.6	-
PMH WS 59	3/8	59	35	70	24	231	70	0.6	-
PMH WS 85	1/2	85	50	70	24	231	70	0.6	-
PMH WS 119	1/2	119	70	127	32	285	80	1.7	-
PMH WS 212	3/4	212	125	127	32	285	80	1.7	-
PMH WS 297	1	297	175	127	32	285	80	1.7	-
PMH WS 476	1 1/4	476	280	140	40	475	80	3	-
PMH WS 680	1 1/2	680	400	140	40	475	80	3	-
PMH WS 1189	2	1189	700	170	53	508	100	4.9	-
PMH WS 1444	2 1/2	1444	850	220	70	420	100	8	-
PMH WS 2550	3	2550	1500	220	70	420	100	8	-
PMH (grade) 10	1/8	10	6	50	17	157	60	0.25	E(grade)-1
PMH (grade) 25	1/4	25	15	50	17	157	60	0.25	E(grade)-2
PMH (grade) 42	1/4	42	25	70	24	231	70	0.6	E(grade)-3
PMH (grade) 54	3/8	54	32	70	24	231	70	0.6	E(grade)-4
PMH (grade) 85	1/2	85	50	70	24	231	70	0.6	E(grade)-5
PMH (grade) 119	1/2	119	70	127	32	285	80	1.7	E(grade)-6
PMH (grade) 144	3/4	144	85	127	32	285	80	1.7	E(grade)-7
PMH (grade) 178	1	178	105	127	32	285	80	1.7	E(grade)-8
PMH (grade) 212	3/4	212	125	127	32	371	80	2	E(grade)-9
PMH (grade) 297	1	297	175	127	32	371	80	2	E(grade)-10
PMH (grade) 476	1 1/4	476	280	140	40	475	80	3	E(grade)-11
PMH (grade) 680	1 1/2	680	400	140	40	475	80	3	E(grade)-12
PMH (grade) 765	2	765	450	170	53	508	100	4.9	E(grade)-13
PMH (grade) 1189	2	1189	700	170	53	708	100	5.5	E(grade)-14
PMH (grade) 1444	2 1/2	1444	850	220	70	736	100	10.5	E(grade)-15
PMH (grade) 1529	3	1529	900	220	70	736	100	10.5	E(grade)-16
PMH (grade) 2125	3	2125	1250	220	70	857	100	11.5	E(grade)-17
PMH (grade) 2550	3	2550	1500	220	70	1005	100	12.5	E(grade)-18



Grade	P	G	C	V
Particle removal*	5 micron	1 micron	0.01 micron	-
Maximum particle size class to ISO 8573-1:2010.	4	3	1	-
Maximum oil content	3	3	2	1
Maximum oil carryover at 20°C (68°F)	5 mg/m³	0.3 mg/m³	0.01 mg/m³	0.003 mg/m³
Pressure loss - clean & dry	50 mbar 0.75 psi	55 mbar 0.8 psi	85 mbar 1.2 psi	115 mbar 1.7 psi
Pressure loss - saturated	80 mbar 1.4 psi	125 mbar 1.8 psi	125 mbar 1.8 psi	N/A N/A
Pressure loss - element change	12 mths 8000 hrs	12 mths 8000 hrs	12 mths 8000 hrs	at least every 6 mths
Maximum temperature - automatic drain	80°C 176°F	80°C 176°F	80°C 176°F	50°C** 122°F**
Maximum working pressure - automatic drain	16 barg 232 psig	16 barg 232 psig	16 barg 232 psig	16 barg 232 psig
Maximum temperature - manual drain	120°C 248°F	120°C 248°F	120°C 248°F	50°C** 122°F**
Maximum working pressure - manual drain	20.7 barg 300 psig	20.7 barg 300 psig	20.7 barg 300 psig	20.7 barg 300 psig
Element end cap colour	Green	Red	Blue	Black

* Dust filtration grades, S (1 micron), D (0.01 micron) are also available.
 ** Recommended operating temperature 25°C (122°F)

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

The Ultimate in Filtration Performance

Integrating into Pneumatech's compressed air filtration range, the new Ultimate Water Separator combines proven centrifugal technology with a new forward thinking housing design to deliver market leading water removal efficiencies – eliminating 99% bulk water with continuously low differential pressure.

The custom engineered centrifugal module features unique vanes to eliminate points of low efficiency, and a vortex arrestor to stop re-entrainment – ensuring minimal operating pressure loss and maintaining excellent liquid removal, even at low velocity.

Remove 99% of bulk water when tested in accordance with ISO 12500-4



Water Separators

Energy saving

Water separators operate with consistently low differential pressure at 50-60 mbar, reducing both energy consumption and operating costs

Flexible Installation

Modular design and accessible fixings enable simple close coupling assembly

Cost Effective

No replacement components required

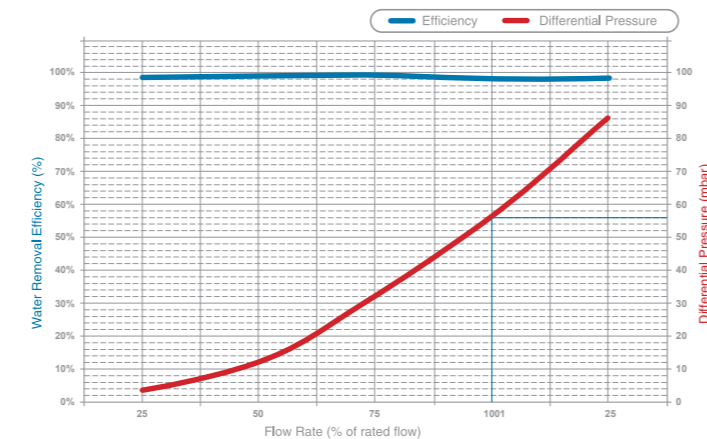
Product Safety in Mind

Guaranteed safe housing closure with rotational safety stop

Corrosion Protection

Internal and external electrophoretic painting followed by a tough polyester powder coating

Tested performance



Unique Centrifugal Module Removes 99% of bulk water even at low velocities

With exceptional performance at any flow rate, the New Ultimate is perfect for use with variable speed compressors.

pneumatech
Pure air . Pure gas

www.pneumatech.com

Pneumatech reserves the right to change or revise specifications and product design in connection with any features of our products. Such changes do not entitle the buyer to corresponding changes, improvement, additions or replacement for equipment previously sold or shipped. © 2019 Pneumatech. All rights reserved.



Pneumatech Ultimate Filters & Water Separators

The most advanced filters to date

Literature number: 699900311 Filter and Water Separators Ultimate

pneumatech
Pure air . Pure gas



Pneumatech's New Ultimate Filters are market leading in the industry today.

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.

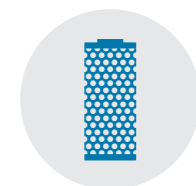
The expertly engineered Ultimate Series not only achieves the highest air purity standards in line with ISO 8573-1:2010, it also incorporates the latest in filtration technology. The new filter housing reduces differential pressure loss which, when combined with the new element design, significantly improves air flow and performance, making the Ultimate filter one of the most energy efficient filter housings available.

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.



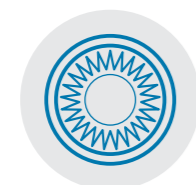
Flow-Optimised Design

- Improved air flow characteristics
- Reduced energy consumption
- Reduced cost of ownership



Increased Performance

- Significantly reduced differential pressure <125 mbar
- Up to 20.7 barg (300 psig) maximum working pressure
- 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

Pneumatech Ultimate Filters

The most advanced filters to date

The new Pneumatech Ultimate Series provides a comprehensive range that protect downstream equipment from contaminants found in compressed air.



Features and Benefits:

- ▶ Reliable filtration performance
- ▶ Tested and validated in accordance with ISO 12500-1 & ISO 8573-1: 2010
- ▶ Color coded elements
- ▶ Corrosion resistant color coded caps for easy and accurate filtration grade identification



Robust Design & EP Corrosion Protection

The new range offers corrosion resistance and salt spray testing to ISO 9227: 2012. Durable and hard wearing electrophoretic coating on both internal and external faces of the filter housing followed by a tough polyester powder coating.

Market Leading Performance

Introducing new deep pleated media technology is a step change in performance, combined with a custom engineered anti re-entrainment layer for exception oil coalescence, ensures low total cost of ownership.

New Externally Accessible Drain

Unique, externally accessible automatic drain fitted to filter models PMH 119 – 2550. The drain supplied as standard with a plastic drain shield cover.

Simplified Serviceability

Designed with servicing and maintenance in mind, the new profiled bowl design and hexagonal spanner locator coupled with the internal unique push fit element ensures a simple, quick and reliable process.

Filter elements

New Filtration technology

Pneumatech utilizes deep pleated media to deliver market leading filtration performance. The new forward thinking design delivers exceptional results in both oil aerosol removal and particulate retention; significantly reducing differential pressure and energy consumption

for low operational lifetime costs. Engineered to deliver a step change in performance, the new ultimate element optimizes filtration efficiencies and produces compressed air in line with the highest standards of air purity, meeting the quality classes specified in ISO 8573-1: 2010.

Features and Benefits:



Extensive filter range

Then new range of threaded filters is available from 1/8" to 3" with flow rates from 10 – 2550 Nm³/hr (6 – 1500 scfm) with a maximum operating pressure of 20.7 barg (300 psig).
Pneumatech Ultimate - The filter range with best in class performance and greatest flexibility.