



Filter Solutions

Pneumatech offers you a comprehensive line-up of innovative filter solutions to meet your specific needs. Our filtration solutions are engineered cost-effectively to provide the best quality air and meet today's increasing quality demands.

For general applications we provide oil coalescing, particulate and oil vapor filters in a wide range of flows and pressures. Pneumatech is also your partner for breathing air, silicone-free, sterile & process filtration.

VT -

Activated carbon towers + vessels

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Features & Benefits

- ▶ Guaranteed air purity with residual oil content below 0,003 mg/m³
 - Superb 2-layer activated carbon material
 - Designed with sufficient safety margin
 - Performance certified by external body
- ▶ Significant energy savings & limited system operating costs
 - Optimal internal flow path
 - Average pressure drop of 125 mbar only
- ▶ Certified class 1 performance, according to ISO 8573-1:2010
 - If combined with Pneumatech oil coalescing filters (G & C)
- ▶ Compact and reliable product design
 - Wall-mounting kit, optional for VT1 - 7
 - Easy to lift, install and service

General Specifications

- ▶ Compressed air inlet pressure:
 - VT 1-9: 1-16 bar / 15-232 PSI
 - VT 11-14: 1-10 bar(g) / 14,5-145 psi(g)
 - VT with optional oil indicator:
1-8,8 bar / 15-127 PSI
- ▶ Ambient air temperature:
10 - 50°C / 14 - 122°F
- ▶ Compressed air inlet temperature :
1 - 66°C / 34 - 151°F



Options



Wall mounting kit



Oil Indicator

Industrie Service Energie und Umwelt	TÜVRheinland® Precisely Right.
<small>TÜV Rheinland Energie und Umwelt GmbH 51161 Köln</small>	<small>931 / 21229599/01 Dr. Norbert Horlemann Tel: 0221 806-1880 Fax: 0221 806-1461 mailto:horlemann@tuvr.com 24 August 2015</small>
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Validation Certificate Evaluation of the air purity class for total oil after an PNEUMATECH G C VT filter train Test report no.: 931 / 21229599/01	
The PNEUMATECH G C VT filter train meets the requirements of air purity class 1 for total oil, according to ISO 8573-1:2010, in a typical compressed air installation.	
Details can be found in the full test report no.: 931/21229599/01	
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ISO 8573-1:2010 Class 1 validation certificate

Pneumatech's VT activated carbon towers and vessels are high-efficiency filtration products designed to fit the most demanding industry applications. Examples are pharmaceutical, medical, food & beverage, electronics and chemical industries.

The VT is capable of removing hydrocarbons, odors and oil vapor from compressed air. The activated carbon layers will, by the use

of adsorption, reduce the residual oil content to lower than 0,003 mg/m³. In combination with Pneumatech G and C filters, the VT meets the requirements of air purity class 1 for total oil, according to ISO 8573-1:2010, in a typical compressed air installation, as was certified by an external body.

Technical specifications for VT 1-9										
Pneumatech Variant → Specifications ↓	Units	VT 1	VT 2	VT 3	VT 4	VT 5	VT 6	VT 7	VT 8	VT 9
Capacity ⁽¹⁾	l/s	20	45	60	95	125	150	185	245	310
	m ³ /hr	72	162	216	342	450	540	666	882	1116
	cfm	42	95	127	201	265	318	392	519	657
Connection	G/NPT	½"	1"	1"	1"	1½"	1½"	1½"	1½"	1½"
Dimensions (A)	mm	490	715	840	715	840	715	840	840	840
	inch	19.29	28.15	33.07	28.15	33.07	28.15	33.07	33.07	33.07
Dimensions (B)	mm	223	223	223	387	387	551	551	715	879
	inch	8.78	8.78	8.78	15.24	15.24	21.69	21.69	28.15	34.61
Dimensions (C)	mm	190	190	190	190	190	190	190	190	190
	inch	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Weight	Kg	10	15	18	29	34	42	50	67	84
	Lbs	22.0	33.1	39.7	63.9	75.0	92.6	110.2	147.7	185.2

Technical specifications for VT 11-14					
Pneumatech Variant → Specifications ↓	Units	VT 11	VT 12	VT 13	VT 14
Capacity ⁽¹⁾	l/s	132	192	264	384
	m ³ /hr	475.2	691.2	950.4	1382.4
	cfm	280	407	559	814
Connection	DIN	40	40	40	40
Length	mm	430	450	450	520
	inch	16.9	17.7	17.7	20.5
Width	mm	430	540	620	660
	inch	16.9	21.3	24.4	26.0
Height	mm	1724	1770	1845	1882
	inch	67.9	69.7	72.6	74.1
Weight	Kg	111	158	210	205
	Lbs	245	348	463	452



1. Flow is measured at reference conditions: 1 Bar(a) and 25°C at operating pressure of 7 bar (g), inlet temperature 35°C & std inlet PDP of 3°C

Correction factors											
For other compressed air inlet temperatures, please multiply the filter capacity by the following correction factor (Kt):											
Inlet temperature	°C	20	25	30	35	40	45	50	55	60	
	°F	68	77	86	95	104	113	122	131	140	
Correction factor	Kt	1.67	1.43	1.25	1	0.71	0.56	0.37	0.25	0.19	

Correction factors												
For other compressed air inlet pressures, please multiply the filter capacity by the following correction factor (Kp):												
Inlet pressure	Bar	3	4	5	6	7	8	9	10	11	12	13
	psi	44	58	73	87	102	116	131	145	160	174	189
Correction factor	Kp	0.57	0.77	0.83	1	1	1	1	1.05	1.05	1.11	1.18



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, improvements, additions or replacements for equipment previously sold or shipped.

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