

# High Temperature Particulate Filters

Models | 50HT25 to A50HT302

Flow Rates 15 SCFM (25 Nm<sup>3</sup>/hr) to 1600 SCFM (2720 Nm<sup>3</sup>/hr)

**The High Temperature Filter range offers an efficient and economical filtration solution to protect equipment downstream of heat reactivated desiccant dryers and in other high temperature applications.**

Temperature spikes can damage or reduce the life of standard dust filters over time. If control systems fail, a heat reactivated dryer's heightened temperature and increased particulate load can pass downstream, damaging your applications. Accelerated desiccant aging can also occur, quickly deteriorating a traditional dust filter.

Pairing a high temperature dust filter with the dryer's outlet protects your system from the consequences of high temperature surges. With a heat resistance up to 450°F (232°C), this filter series is designed to protect downstream equipment from dust contamination caused by the heat reactivated desiccant dryer's regenerative process.



#### Comprehensive Range

Connections from 1/4" to 3" and capacities up to 1600 SCFM (2720 Nm<sup>3</sup>/hr) to fit most applications



#### Quality Element Construction

Features unique Nomex outer sock that provides prefiltration and extends service life



#### Corrosion Resistant

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

- **Corrosion Resistant** Aluminum housings provide a significant cost reduction in comparison to stainless steel housings, without compromising on performance
- **Heat Resistant** Each element is finished with corrosion-treated, metallic endcaps bonded in place with high temperature epoxy resin
- **Installation Versatility** Optional mounting brackets available to secure housings to the wall, saving space within the compressor system
- **Safety First** Installing a high temperature dust filter can help prevent severe liabilities such as filter housing malfunctions and compressed air contamination
- **Quality Control** All products are UKCA and CE marked, and include a serial number for complete traceability
- **Guaranteed Integrity** Filtration performance third-party validated to ISO 12500 standards



For further information please visit [www.walkerfiltration.com](http://www.walkerfiltration.com)



For further information please call: **+1 814 836 2900**

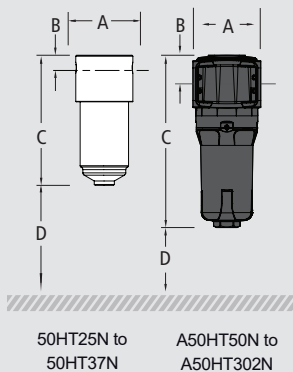
## Technical Specification

Filter model	Pipe size inches	Inlet flow rate		Dimensions inches (mm)				Weight		Element model
		SCFM	Nm <sup>3</sup> /hr	A	B	C	D	lbs	Kg	
150 psig (10 barg) maximum working pressure										
50HT25N (grade)	¼	15	25	2.48 (63)	0.59 (15)	5.91 (150)	1.97 (50)	1.3	0.6	HT1535 (grade)
50HT37N (grade)	⅜	30	51	2.48 (63)	0.59 (15)	7.48 (190)	1.97 (50)	1.4	0.6	HT1550 (grade)
A50HT50N (grade)	½	65	110	4.33 (110)	1.85 (47)	11.02 (280)	3.15 (80)	7.7	3.5	HT2040 (grade)
A50HT75N (grade)	¾	75	127	4.33 (110)	1.85 (47)	11.02 (280)	3.15 (80)	7.7	3.5	HT2540 (grade)
A50HT101N (grade)	1	150	255	4.33 (110)	1.85 (47)	14.37 (365)	3.15 (80)	9.3	4.2	HT2080 (grade)
A50HT151N (grade)	1½	300	510	5.75 (146)	2.32 (59)	19.61 (498)	3.94 (100)	20.3	9.2	HT2512 (grade)
A50HT200N (grade)	2	450	765	5.75 (146)	2.32 (59)	19.61 (498)	3.94 (100)	20.3	9.2	HT2512 (grade)
A50HT201N (grade)	2	650	1105	5.75 (146)	2.32 (59)	27.56 (700)	3.94 (100)	25.8	11.7	HT2520 (grade)
A50HT300N (grade)	3	1000	1700	9.06 (230)	3.62 (92)	29.17 (741)	4.74 (120)	46.3	21.0	HT5020 (grade)
A50HT301N (grade)	3	1250	2125	9.06 (230)	3.62 (92)	33.90 (861)	4.74 (120)	49.8	22.6	HT5025 (grade)
A50HT302N (grade)	3	1600	2720	9.06 (230)	3.62 (92)	39.72 (1009)	4.74 (120)	53.4	24.2	HT5030 (grade)

\*Rated flow at 100 psig (7 barg), reference conditions at 14.5 psi (a) (1 bar (a)) 68°F (20°C)

Grade	RX1		RXA	
Particle removal	1 micron		0.01 micron	
Maximum temperature	450°F	232°C	450°F	232°C
Maximum working pressure	150 psig	10 barg	150 psig	10 barg
Element end cap colour	Stainless Steel			

Pressure correction factors		For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure											
150 psig (10 barg)	Operating pressure psig (barg)	4 (0.3)	9 (0.6)	14.5 (1)	29 (2)	44 (3)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	130 (9)	145 (10)
	Correction factor	0.21	0.2	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19



## Technical Notes

- Direction of air flow is outside to in through the filter element.
- Threaded connections are NPT to ANSI/ASME B1.20.1
- Filters are supplied with a drain plug (¼" NPT for models 50HT25N - A50HT201N, ½" NPT for models A50HT300N-A50HT302N).
- Mounting brackets are available.
- All filter bodies are painted with a black high temperature powder paint finish to eliminate corrosion.
- Aluminum high temperature filters and filter elements are available in silicone-free upon request.
- ½" NPT DP ports are supplied as standard on models A50HT50N-A50HT302N.
- Filter models A50HT300N-A50HT302N suitable for Group 2 Gas applications only.

