Gardner Denver

AIR TREATMENT | 100–11,400 SCFM

FHT Series

What is FHT?

Gardner Denver FHT Series filters are high temperature downstream filters designed to contain a large amount of desiccant fine microns without plugging an air system.

Operating Principle

Phase 1 – Compressed air typically leaves a desiccant dryer containing dust concentrations up to 0.05 ppm for heatless and up to 5 ppm for heated. Particle size varies from 200 microns to about 1 micron. As the desiccant laden air enters the filter housing, a quick reduction in velocity and a sharp change of direction enables particles from 200 to 20 microns to drop out.

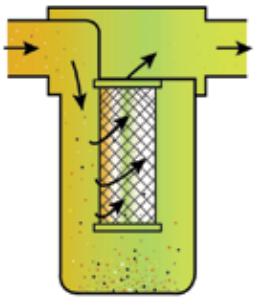
Phase 2 – The air then enters phase 2 where it flows through a layer of glass fabric cloth (1). Dust collects on the cloth becoming an efficient filter in itself. As the dust layers begin to thicken, the outer layers of dust shed off the cartridge and fall to the bottom of the housing.

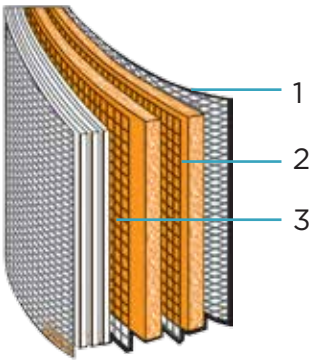
Phase 3 – Reaching the 3rd and final phase, the compressed air travels through a multi-layered filter media (2) where all remaining particles one micron and larger are captured. A final wrap of the glass fabric cloth (3) prevents fiber migration.

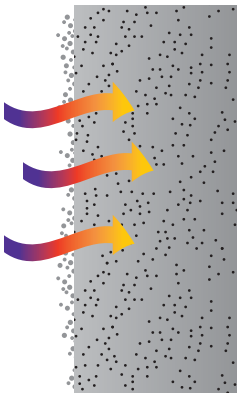
Advantages at a Glance

Three Phase filtration technique maximizes cartridge lifetime

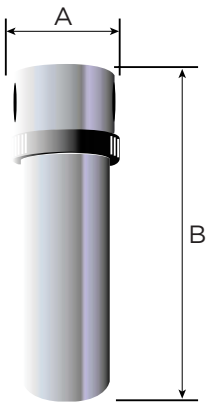
- Removes all solid particles one micron and larger
- Up to 11,400 scfm
- Up to 250 psig
- High Temperature Filter up to 450°F







Sizing Your Application



To find the maximum flow at pressures other than 100 psig (7kgf/cm²), multiply the flow (from table below) by the correction factor corresponding to the minimum pressure at the inlet of the filter. Do no select by pipe size; use flow rate and operating pressure.

MINIMUM INLET PRESSURE	PSIG KGF/CM²	20 1.4	30 2.1	40 2.8	60 4.2	80 5.6	100 7.0	120 8.4	150 10.5	200 14.1	250 17.6
CORRECTION FACTOR		0.30	0.39	0.48	0.65	0.82	1.00	1.17	1.43	1.87	2.31

SPECIFICATIONS

MODEL NUMBER	MAX. FLOW @ 100 PSIG (7 KGF/CM²) SCFM	M³/MIN	HOUSING TYPE	MWP (1) @ 450°F (232°C) PSIG	KGF/CM²	IN/OUT CONNECTION	DIMENSIONS H × W IN	WEIGHT LBS	REPL. ELEMENT	QTY REQUIRED
FHT00100	100	2.8	Head/Bowl	250	17.6	1" NPT	14 × 4	13	FHT00100E	1
FHT00200	200	5.7	Head/Bowl	250	17.6	1" NPT	24 × 4	19	FHT00200E	1
FHT00400	400	11	Pressure Vessel	165	11.6	3" NPT	40 × 10	95	FHT00400E	1
FHT00600	600	17	Pressure Vessel	165	11.6	3" NPT	40 × 10	95	FHT00600E	1
FHT01200	1200	34	Pressure Vessel	165	11.6	3" NPT	41 × 16	159	FHT00600E	2
FHT01800	1800	51	Pressure Vessel	165	11.6	3" NPT	43 × 16	219	FHT00600E	3
FHT02400	2400	68	Pressure Vessel	165	11.6	4" ANSI Flange	55 × 20	236	FHT00600E	4
FHT03000	3000	85	Pressure Vessel	165	11.6	4" ANSI Flange	55 × 20	239	FHT00600E	5
FHT04800	4800	136	Pressure Vessel	165	11.6	6" ANSI Flange	53 × 24	319	FHT00600E	8
FHT06600	6600	187	Pressure Vessel	165	11.6	6" ANSI Flange	62 × 28	548	FHT00600E	11
FHT08400	8400	238	Pressure Vessel	165	11.6	6" ANSI Flange	62 × 28	548	FHT00600E	14
FHT11400	11400	323	Pressure Vessel	165	11.6	8" ANSI Flange	68 × 33	772	FHT00600E	19

Model FHT01200 and larger are ASME code constructed and stamped.
At rated flow conditions, pressure drop will be less than 1 psid (0.07kgf/cm²). Pressure drop will increase only as the filter cartridges become loaded with solid particles. Filter cartridges should be replaced when pressure drop across the cartridge exceeds 10 psid (0.7kgf/cm²). Maximum temperature: 450°F (232°C)

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by continuously improving all business processes

with a focus on innovation and velocity

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Please recycle after use.