

FILTER SELECTION DATA SHEET

SERVA-cell High Temp Extended surface ASHRAE rated filter

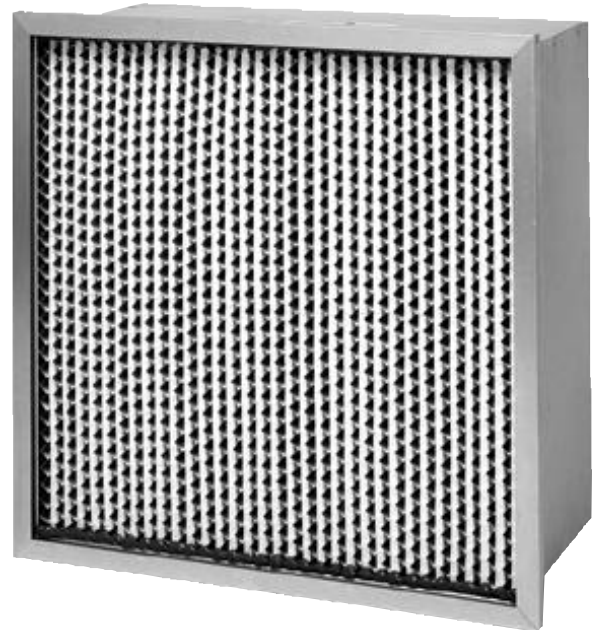
Purolator **Filtration** **Systems**

Introduction

- Purolator's SERVA-cell High Temp is a high efficiency, extended surface, ASHRAE rated air filter.
- Its box filter construction eliminates the need for retainers and special external wire media supports.
- A high surface area to depth ratio provides the maximum amount of effective filter media in areas of minimum in-line duct space.
- Applications: Specifically built for conditions such as turbulent airflow and elevated operating temperatures up to 750°F.
- Average efficiency range: 65-95%
Average arrestance: 97-99%
- Recommended airflow rate: 500 FPM (625 FPM Max.)
- Available in seven filter face sizes (see chart on back), and two depth sizes—6", 12".

Media and Support

- Media: Continuous sheet of non-combustible, waterproof, microfiberglass.
- Pleat configuration: Radi-edge configuration promotes maximum exposure of media surface area to airflow.
- Pleat support: Pleated around radi-edge, corrugated aluminum separators. All filter packs to be woven on our automatic weaving machine.
- Media area/square foot: See Performance data chart on back side.



Construction features

- Frame: All metal, corrosion resistant, aluminized steel casing—available with a single header. An expanded metal grid is attached upstream and downstream providing additional pack support within the frame.
- The media pack is secured to the four inner surfaces of the frame with a microfiberglass blanket.
- Available with a single-channel unitized header.
- Tested in accordance with U.L. Standard 900 and ASHRAE 52.1-1992.
- Recommended operating temperature: max. 750°F.

Suggested product specifications

- The filter shall be the SERVA-cell HT as manufactured by Purolator Products Air Filtration Company.
- Air filters shall be the rigid-cell air filter type engineered to provide medium and high efficiency filtration combined with a prolonged life cycle.
- The filter media shall consist of a continuous sheet of non-combustible, waterproof, microfiberglass media pleated around radi-edge, corrugated aluminum separators. These separators shall fully support the media while exposing its maximum surface area to airflow.
- The radial configuration shall keep the separators from puncturing the media.
- When tested in accordance with ASHRAE Test Std. 52.1-1992 the filter media shall have an average efficiency of 65-95% and an arrestance of not less than 97-99%.
- The filter pack shall be enclosed in an all-metal, corrosion-resistant, aluminized steel casing protecting the filter from shipping damage and allowing it to withstand high-temperature service conditions up to 750°F.
- The pack shall be secured to four inner surfaces of the metal frame to prevent air bypass.
- The enclosure frame shall be constructed of corrosion resistant aluminized steel in such a manner as to produce a rigid durable filter. An aluminized expanded metal grid shall be secured to internal frame, improving pack stability within the enclosing frame.
- To eliminate air bypass, each 24 x 24 single header model frame shall be roll formed continuously from the enclosure frame material.
- Filters shall be listed and rated by Underwriters Laboratories, Inc. as Class I.

Performance data: SERVA-cell High Temp

Series	Nominal size W x H x D	Actual Size W x H x D*	SERVA-cell Model number	Rated capacity CFM	Initial resistance inches w.g.	Media area/ Sq. ft.	Filter weight lbs.	
65	24 x 24 x 12	23-5/16 x 23-5/16	SL65HT-4412	2000	.45	105	18.0	
	20 x 25 x 12	19-5/16 x 24-5/16	SL65HT-0512	1750	.45	90	17.0	
	20 x 24 x 12	19-5/16 x 23-5/16	SL65HT-0412	1650	.45	86	16.5	
	20 x 20 x 12	19-5/16 x 19-5/16	SL65HT-0012	1400	.45	70	13.5	
	16 x 25 x 12	15-5/16 x 24-5/16	SL65HT-6512	1400	.45	70	13.5	
	16 x 20 x 12	15-5/16 x 19-5/16	SL65HT-6012	1100	.45	56	11.0	
	12 x 24 x 12	11-5/16 x 23-5/16	SL65HT-2412	1000	.45	48	20.0	
	24 x 24 x 6	23-5/16 x 23-5/16	SL65HT-4406	1000	.15	55	11.5	
	20 x 25 x 6	19-5/16 x 24-5/16	SL65HT-0506	875	.15	47	10.5	
	20 x 24 x 6	19-5/16 x 23-5/16	SL65HT-0406	825	.15	45	10.0	
	20 x 20 x 6	19-5/16 x 19-5/16	SL65HT-0006	700	.15	37	8.0	
	16 x 25 x 6	15-5/16 x 24-5/16	SL65HT-6506	700	.15	37	8.0	
	16 x 20 x 6	15-5/16 x 19-5/16	SL65HT-6006	550	.15	29	6.5	
	12 x 24 x 6	11-5/16 x 23-5/16	SL65HT-2406	500	.15	25	13.0	
	85	24 x 24 x 12	23-5/16 x 23-5/16	SL85HT-4412	2000	.60	105	18.0
		20 x 25 x 12	19-5/16 x 24-5/16	SL85HT-0512	1750	.60	90	17.0
		20 x 24 x 12	19-5/16 x 23-5/16	SL85HT-0412	1650	.60	86	16.5
		20 x 20 x 12	19-5/16 x 19-5/16	SL85HT-0012	1400	.60	70	13.5
16 x 25 x 12		15-5/16 x 24-5/16	SL85HT-6512	1400	.60	70	13.5	
16 x 20 x 12		15-5/16 x 19-5/16	SL85HT-6012	1100	.60	56	11.0	
12 x 24 x 12		11-5/16 x 23-5/16	SL85HT-2412	1000	.60	48	20.0	
24 x 24 x 6		23-5/16 x 23-5/16	SL85HT-4406	1000	.30	55	11.5	
20 x 25 x 6		19-5/16 x 24-5/16	SL85HT-0506	875	.30	47	10.5	
20 x 24 x 6		19-5/16 x 23-5/16	SL85HT-0406	825	.30	45	10.0	
20 x 20 x 6		19-5/16 x 19-5/16	SL85HT-0006	700	.30	37	8.0	
16 x 25 x 6		15-5/16 x 24-5/16	SL85HT-6506	700	.30	37	8.0	
16 x 20 x 6		15-5/16 x 19-5/16	SL85HT-6006	550	.30	29	6.5	
12 x 24 x 6		11-5/16 x 23-5/16	SL85HT-2406	500	.30	25	13.0	
95		24 x 24 x 12	23-5/16 x 23-5/16	SL95HT-4412	2000	.65	125	22.0
		20 x 25 x 12	19-5/16 x 24-5/16	SL95HT-0512	1750	.65	108	20.9
		20 x 24 x 12	19-5/16 x 23-5/16	SL95HT-0412	1650	.65	103	20.9
		20 x 20 x 12	19-5/16 x 19-5/16	SL95HT-0012	1400	.65	84	19.8
	16 x 25 x 12	15-5/16 x 24-5/16	SL95HT-6512	1400	.65	84	19.8	
	16 x 20 x 12	15-5/16 x 19-5/16	SL95HT-6012	1100	.65	66	17.6	
	12 x 24 x 12	11-5/16 x 23-5/16	SL95HT-2412	1000	.65	58	20.0	
	24 x 24 x 6	23-5/16 x 23-5/16	SL95HT-4406	1000	.35	64	12.6	
	20 x 25 x 6	19-5/16 x 24-5/16	SL95HT-0506	875	.35	55	11.6	
	20 x 24 x 6	19-5/16 x 23-5/16	SL95HT-0406	825	.35	53	11.6	
	20 x 20 x 6	19-5/16 x 19-5/16	SL95HT-0006	700	.35	43	11.0	
	16 x 25 x 6	15-5/16 x 24-5/16	SL95HT-6506	700	.35	43	11.0	
	16 x 20 x 6	15-5/16 x 19-5/16	SL95HT-6006	550	.35	34	10.5	
	12 x 24 x 6	11-5/16 x 23-5/16	SL95HT-2406	500	.35	30	13.0	

* Actual Depth Dimension: Nominal depth 12"= Actual depth 11 1/2", Nominal depth 6"= Actual depth 5 7/8"



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