



Product Specifications

IntelliPak™ I
Final HEPA filter option



June 2020

RT-PRC062B-EN

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HEPA filters will be offered as a cooling only final filter option IntelliPak 1 Units. Designs exist for the 20-55 ton units. Additional design time required for 60-75 and 90-130 ton sizes. Requires downstream filter access. Burglar bars will be included with this option for down flow applications. It is recommend to also apply a mini-helic pressure gage for filter pressure drop monitoring.

HEPA Filter Specifications

- ASHRAE 52.2 Efficiency - 99.97% 0.3 Micron DOP Particle Size
- ASHRAE 52.2 MERV Rating - 17
- Agency - UL Class 1
- Rated Capacity - 2000 CFM (based on 24"x 24" filter area)
- Rated Velocity - 500 FPM
- Rated Resistance Clean - 1.4 Inches W.C. at 500 FPM
- Final Resistance Dirty - 2.0 Inches W.C.
- Media - Fiberglass
- Header/Casing Material - Galvanized Casing

Table 1. Filter size and usage

Tonnage	HEPA filter type & quantity			Square feet
	24 x 24 x 12	24 x 12 x 12	12 x 24 x 12	
20-25	3	3	1	20
30	6	0	1	26
40	6	3	2	34
50-55	9	0	2	40

Vendor part numbers that correspond to our filters:

Note: Trane uses High Capacity Astrocel® HCX

AAF 906-000-081 12"x 24"x 12" (vertical mounting)

AAF 905-000-029 24"x 24"x 12"

AAF 906-000-495 24"x 12"x 12" (horizontal mounting)

Clean Filter Pressure Drop

Table 2. Filter pressure drop

Tonnage	Filter square feet	CFM vs. HEPA filter pressure drop (in H ₂ O)				
		4000	6000	8000	10000	11000
20-25	20	0.23	0.51	0.9	1.4	1.69
		6000	9000	10500	12000	13500
30	26	0.30	0.67	0.91	1.19	1.51
		8000	11000	14000	16000	18000
40	34	0.31	0.59	0.95	1.24	1.57
		10000	14000	17500	20000	22500
50-55	38	0.39	0.76	1.19	1.55	1.96

AAF Product Description

AstroCel® HCX

High capacity AstroCel I HCX filters are designed to handle higher airflow than the corresponding sizes of standard AstroCel I filters. this offers greater operating flexibility and cost savings.

- Higher airflow with the same resistance
- Higher airflow (up to 2000 CFM for a 24" x 24" x 11.5" filter, with slightly higher initial resistance)
- Lower resistance, lower energy cost, and substantially longer life at the same rate of flow compared to standard HEPA filters
- Available with antimicrobial treated media

Sizes

All standard and special sizes, 11.5" deep only

Efficiencies

99.97% and 99.99% minimum, 0.3 um

Cell side materials, bonds, separators, gaskets

Same as standard AstroCel I filters. AstroCel I HCX filters can be classified according to UL Standard 586. they are also classified UL class 1 by Standard 900 (except those made with non-fire retardant wood cell sides).

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