

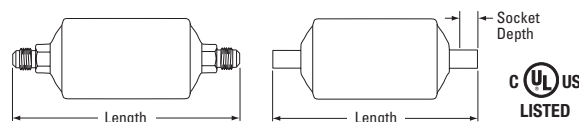


Reversible Heat Pump Filter-Driers



Type HPC-082 through HPC-307-S-HH

Maximum Rated Pressure of 650 psi / 44.8 bar



DESIGN FEATURES:

- Enhanced flow capacities deliver system protection solutions for today's system sizes.
- Filter-drier operates in either flow direction with low pressure drop.
- Sporlan dependable molded core for maximum filtration ability. When flow reverses, dirt already collected remains in the filter-drier.
- Rugged metal check valve designed for maximum flow capacity.
- Catch-All shells are epoxy powder coated to prevent corrosion even in the most adverse conditions.
- Carefully engineered desiccant formulations for new system and system clean-up for all commercially available HCFC and HFC refrigerant/lubricant combinations.
- HPC-160 and HPC-300 Series incorporate the largest core size available in the industry per filter-drier type. A larger molded core provides superior performance, and is especially advantageous for R-410A/POE lubricant systems.
- Shells listed by Underwriters Laboratories for 650 psi for R-410A systems.

Specifications

Inches • lb

"HPC" SERIES LIQUID LINE TYPE		CONNECTION SIZE Inches	VOLUME OF DESSICANT Cu. In.	OVERALL LENGTH Inches		SOLDER SOCKET DEPTH Inches	DIAMETER of BODY Inches	SHIPPING WEIGHT lb
SAE Flare	ODF Solder			SAE Flare	ODF Solder			
HPC-082	HPC-082-S	1/4	8	5.78	5.32	.38	3.0	1-1/4
HPC-083	HPC-083-S	3/8		6.22	5.46	.44		
HPC-084	HPC-084-S	1/2		6.48	5.58	.50		
HPC-103	HPC-103-S	3/8	10	6.75	5.88	.44	3.0	1-3/4
HPC-104	HPC-104-S	1/2		6.94	6.00	.50		
HPC-105	HPC-105-S	5/8		7.25	6.31	.62		
HPC-163	HPC-163-S	3/8	14	7.78	6.92	.44	3.0	2-1/4
HPC-163-HH	HPC-163-S-HH	3/8		7.78	6.92	.44		
HPC-164	HPC-164-S	1/2		7.95	7.07	.50		
HPC-164-HH	HPC-164-S-HH	1/2		7.95	7.07	.50		
HPC-165	HPC-165-S	5/8		8.28	7.35	.62		
HPC-165-HH	HPC-165-S-HH	5/8		8.28	7.35	.62		
HPC-304	HPC-304-S	1/2	30	11.08	10.18	.50	3.0	4-1/4
HPC-304-HH	HPC-304-S-HH	1/2		11.08	10.18	.50		
HPC-305	HPC-305-S	5/8		11.38	10.42	.62		
HPC-305-HH	HPC-305-S-HH	5/8		11.38	10.42	.62		
—	HPC-306-S	3/4		—	10.86	.62		
—	HPC-307-S	7/8		—	11.02	.75		
—	HPC-307-S-HH	7/8		—	11.02	.75		

Specifications

mm • kg

"HPC" SERIES LIQUID LINE TYPE		CONNECTION SIZE Inches	VOLUME OF DESSICANT cm ³	OVERALL LENGTH mm		SOLDER SOCKET DEPTH mm	DIAMETER of BODY mm	SHIPPING WEIGHT kg
SAE Flare	ODF Solder			SAE Flare	ODF Solder			
HPC-082	HPC-082-S	1/4	131	147	135	10	76	0.6
HPC-083	HPC-083-S	3/8		158	139	11		
HPC-084	HPC-084-S	1/2		165	142	13		
HPC-103	HPC-103-S	3/8	164	171	149	11	76	0.8
HPC-104	HPC-104-S	1/2		176	152	13		
HPC-105	HPC-105-S	5/8		184	160	16		
HPC-163	HPC-163-S	3/8	229	198	176	11	76	1.0
HPC-163-HH	HPC-163-S-HH	3/8		198	176	11		
HPC-164	HPC-164-S	1/2		202	180	13		
HPC-164-HH	HPC-164-S-HH	1/2		202	180	13		
HPC-165	HPC-165-S	5/8		210	187	16		
HPC-165-HH	HPC-165-S-HH	5/8		210	187	16		
HPC-304	HPC-304-S	1/2	492	281	259	13	76	1.9
HPC-304-HH	HPC-304-S-HH	1/2		281	259	13		
HPC-305	HPC-305-S	5/8		289	265	16		
HPC-305-HH	HPC-305-S-HH	5/8		289	265	16		
—	HPC-306-S	3/4		—	276	16		
—	HPC-307-S	7/8		—	280	19		
—	HPC-307-S-HH	7/8		—	280	19		



Reversible Heat Pump Filter-Driers

Ratings and Selection Recommendations

For New Installations – Refrigerant 22



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TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 60 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-082	15	97	194	158	2.2	7.7	1 thru 3
HPC-082-S							
HPC-083					3.7	13.0	
HPC-083-S							
HPC-084					4.1	14.4	
HPC-084-S							
HPC-103	18	116	215	176	5.0	17.6	1 thru 5
HPC-103-S					5.5	19.3	
HPC-104					8.3	29.1	
HPC-104-S					8.9	31.2	
HPC-105					10.2	35.8	
HPC-105-S					10.8	37.9	
HPC-163	26	168	364	297	5.0	17.6	1 thru 8
HPC-163-S					5.5	19.3	
HPC-164					8.3	29.1	
HPC-164-S					8.9	31.2	
HPC-165					10.2	35.8	
HPC-165-S					10.8	37.9	
HPC-304	53	342	696	567	8.7	30.5	8 thru 20
HPC-304-S					9.3	32.6	
HPC-305					9.9	34.7	
HPC-305-S					10.5	36.9	
HPC-306-S					11.0	38.6	
HPC-307-S					11.4	40.0	

For Clean-Up After Burnout – Refrigerant 22

TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 60 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-163-HH	26	168	93	81	4.8	16.8	1 thru 8
HPC-163-S-HH					5.2	18.3	
HPC-164-HH					7.9	27.7	
HPC-164-S-HH					8.5	29.8	
HPC-165-HH					9.7	34.0	
HPC-165-S-HH					10.3	36.2	
HPC-304-HH	53	342	167	119	8.3	29.1	8 thru 20
HPC-304-S-HH					8.8	30.9	
HPC-305-HH					9.4	33.0	
HPC-305-S-HH					10.8	37.9	
HPC-307-S-HH					10.8	37.9	



Reversible Heat Pump Filter-Driers

Ratings and Selection Recommendations

For New Installations – Refrigerant 407C

TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 50 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-082	15	97	163	53	2.0	7.0	1 thru 3
HPC-082-S							
HPC-083					3.4	11.9	
HPC-083-S							
HPC-084					3.8	13.3	
HPC-084-S							
HPC-103	18	116	181	80	4.6	16.1	1 thru 5
HPC-103-S					5.1	17.9	
HPC-104					7.6	26.7	
HPC-104-S					8.2	28.8	
HPC-105					9.4	33.0	
HPC-105-S					9.9	34.7	
HPC-163	26	168	307	100	4.6	16.1	1 thru 8
HPC-163-S					5.1	17.9	
HPC-164					7.6	26.7	
HPC-164-S					8.2	28.8	
HPC-165					9.4	33.0	
HPC-165-S					9.9	34.7	
HPC-304	53	342	586	189	8.0	28.1	8 thru 20
HPC-304-S					8.6	30.2	
HPC-305					9.1	31.9	
HPC-305-S					9.7	34.0	
HPC-306-S					10.1	35.5	
HPC-307-S					10.5	36.9	



407C

For Clean-Up After Burnout – Refrigerant 407C

TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 50 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-163-HH	26	168	90	88	4.4	15.4	1 thru 8
HPC-163-S-HH					4.8	16.8	
HPC-164-HH					7.3	25.6	
HPC-164-S-HH					7.8	27.4	
HPC-165-HH					8.9	31.2	
HPC-165-S-HH					9.5	33.3	
HPC-304-HH	53	342	161	88	7.6	26.7	8 thru 20
HPC-304-S-HH					8.1	28.4	
HPC-305-HH					8.6	30.2	
HPC-305-S-HH					9.2	32.3	
HPC-307-S-HH					9.9	34.7	



Reversible Heat Pump Filter-Driers

Ratings and Selection Recommendations

For New Installations – Refrigerant 410A



410A

TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 50 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-082	15	97	85	63	2.1	7.4	1 thru 3
HPC-082-S							
HPC-083					3.6	12.6	
HPC-083-S							
HPC-084					4.0	14.0	
HPC-084-S	18	116	94	70	4.9	17.2	1 thru 5
HPC-103					5.4	19.0	
HPC-103-S							
HPC-104					8.1	28.4	
HPC-104-S					8.7	30.5	
HPC-105	26	168	158	119	10.0	35.1	1 thru 8
HPC-105-S					10.6	37.2	
HPC-163					4.9	17.2	
HPC-163-S					5.4	19.0	
HPC-164					8.1	28.4	
HPC-164-S	53	342	302	227	8.7	30.5	8 thru 20
HPC-165					10.0	35.1	
HPC-165-S					10.6	37.2	
HPC-304					8.5	29.8	
HPC-304-S					9.1	31.9	
HPC-305	53	342	302	227	9.7	34.0	8 thru 20
HPC-305-S					10.3	36.2	
HPC-306-S					10.8	37.9	
HPC-307-S					11.2	39.3	

For Clean-Up After Burnout – Refrigerant 410A

TYPE	SURFACE FILTERING AREA		RATINGS AT AHRI STANDARD CONDITIONS				SELECTION RECOMMENDATIONS (Tons)
			WATER CAPACITY DROPS AT 50 PPM		REFRIGERANT FLOW CAPACITY		
	Sq. Inch	cm ²	75°F 25°C	125°F 50°C	Tons at 1 psi ΔP	kW at 0.07 bar ΔP	AIR CONDITIONING
HPC-163-HH	26	168	69	100	4.7	16.5	1 thru 8
HPC-163-S-HH					5.1	17.9	
HPC-164-HH					7.7	27.0	
HPC-164-S-HH					8.3	29.1	
HPC-165-HH					9.5	33.3	
HPC-165-S-HH	53	342	123	109	10.1	35.5	8 thru 20
HPC-304-HH					8.1	28.4	
HPC-304-S-HH					8.6	30.2	
HPC-305-HH					9.2	32.3	
HPC-305-S-HH					9.8	34.4	
HPC-307-S-HH					10.6	37.2	