Burn Out Bi-flow filter HPC-HH Series Parker Sporlan Catch-All®

Parker Sporlan Catch-All® burn out Bi-flow liquid line filters driers ensure cleaning and decontamination of reversible systems as refrigeration, air-conditioning and heat pumps from, acids, wax, sludge, solid particles and moisture.

The design of cores and choice of the chemical components insure perfect result with small pressure drop.

Prevention of troubles after compressor burnout of all reversible air conditioning and heat pumps is optimal with burn out HPC Bi-flow filters driers.

Benefits

Max Working Pressure	44.8 bar (650 psig)
Temperature Range	-40°C up to +66°C

- **Leak Testing:** 45 bar in a pool
- **HPC paint:** Winter Gray 10-7069 is a U.L recognized high gloss epoxy powder coating.
- **Filtration:** 20 microns
- **Approvals:** PED 97/23/EC - article 3.3 UL file no. SA- 1756A&B

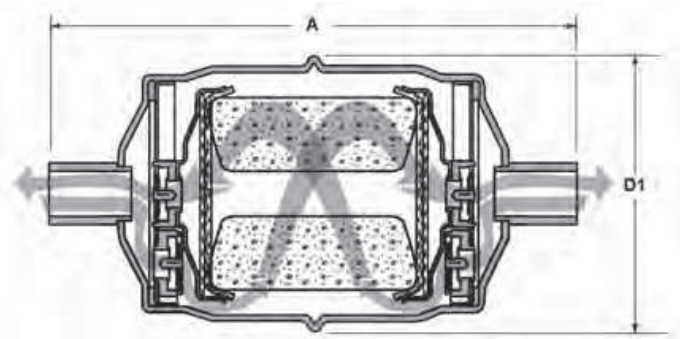
The physical size of the **Catch-All® HPC Bi-flow Burn out filters** range allows the product to be manufactured under the PED category (art.3.3) which does not require the "CE" marking.

For all requests, consult your nearest Parker Sporlan Wholesaler or contact us on:
racecustomerservice@parker.com / www.parker.com/race

Technical Data

Part Number	Type	Connections Size		Flow Capacity (kW) (1)				Dimensions (mm)		Weight kg
		SAE	ODF	R22	R134a R407C	R404A R507	R410A	L	D1	
404180	HPC-163-HH	3/8"		16.9	15.5	11.3	16.5	197.6	76	1.021
404201	HPC-163-S-HH		3/8"	18.3	16.9	12.3	17.9	175.8	76	1.021
404220	HPC-164-HH	1/2"		27.8	25.7	18.6	27.1	201.9	76	1.021
404241	HPC-164-S-HH		1/2"	29.9	27.4	20.0	29.2	179.6	76	1.021
404260	HPC-165-HH	5/8"		34.1	31.3	22.9	33.4	210.3	76	1.021
404281	HPC-165-S-HH		5/8"	36.2	33.4	24.4	35.5	186.7	76	1.021
401369	HPC-304-HH	1/2"		29.2	26.7	19.5	28.5	281.4	76	1.93
401370	HPC-304-S-HH		1/2"	30.9	28.5	20.7	30.2	258.6	76	1.93
401371	HPC-305-HH	5/8"		33.1	30.2	22.2	32.4	289.1	76	1.93
401372	HPC-305-S-HH		5/8"	38.0	32.4	23.6	34.5	264.7	76	1.93
401373	HPC-307-S-HH		7/8"	38.0	34.8	25.6	37.3	279.9	76	1.93

(1) Liquid capacity in accordance with ARI 710-86 standard
Te = -15°C, Tc = 30°C, Δp = 0.07 bar (1 psig)



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Accurate at the time of going to print.

Correction Factors for Filters Driers

Flow Capacity Correction Factors

R 134a

Condensing Temperature Tc (°C)	Evaporating Temperature Te (°C)										
	20	15	10	5	0	-5	-10	-15	-20	-25	-30
60	1.25	1.28	1.31	1.35	1.38	1.42	1.46	1.50	1.55	1.60	1.65
55	1.17	1.19	1.22	1.25	1.28	1.31	1.35	1.38	1.42	1.46	1.51
50	1.09	1.12	1.14	1.17	1.19	1.22	1.25	1.28	1.32	1.35	1.39
45	1.03	1.05	1.08	1.10	1.12	1.14	1.17	1.20	1.23	1.26	1.29
40	0.98	1.99	1.01	1.03	1.05	1.07	1.10	1.12	1.15	1.18	1.20
35	0.93	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.12	1.14
30	0.88	0.90	0.91	0.93	0.94	0.96	0.98	1.00	1.02	1.04	1.07
25	0.85	0.86	0.87	0.89	0.90	0.92	0.94	0.95	0.97	0.99	1.01
20	-	0.82	0.83	0.85	0.86	0.88	0.89	0.91	0.93	0.94	0.96
15	-	-	0.80	0.81	0.82	0.84	0.85	0.86	0.88	0.90	0.91
10	-	-	-	0.77	0.79	0.80	0.81	0.83	0.84	0.86	0.87
5	-	-	-	-	0.76	0.77	0.78	0.80	0.81	0.82	0.84
0	-	-	-	-	-	0.74	0.76	0.77	0.78	0.79	0.81
-5	-	-	-	-	-	-	0.73	0.74	0.75	0.76	0.77
-10								0.71	0.72	0.73	0.74

R 404A / R507

Condensing Temperature Tc (°C)	Evaporating Temperature Te (°C)												
	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
60	1.73	1.78	1.84	1.90	2.00	2.10	2.20	2.30	2.40	2.55	2.70	2.90	3.15
55	1.46	1.49	1.53	1.58	1.63	1.69	1.76	1.84	1.92	2.03	2.12	2.22	2.39
50	1.27	1.30	1.33	1.36	1.41	1.45	1.50	1.56	1.61	1.68	1.76	1.84	1.93
45	1.12	1.15	1.17	1.20	1.24	1.28	1.32	1.36	1.41	1.45	1.51	1.57	1.64
40	1.02	1.04	1.06	1.08	1.11	1.14	1.17	1.21	1.25	1.29	1.33	1.38	1.43
35	0.94	0.95	0.97	0.99	1.01	1.04	1.06	1.09	1.12	1.16	1.19	1.24	1.28
30	0.86	0.87	0.89	0.91	0.93	0.95	0.97	1.00	1.02	1.05	1.08	1.11	1.15
25	0.80	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.97	1.00	1.02	1.05
20	-	0.78	0.79	0.81	0.82	0.84	0.85	0.87	0.89	0.91	0.94	0.96	0.98
15	-	-	0.74	0.76	0.77	0.79	0.80	0.82	0.84	0.86	0.87	0.90	0.92
10	-	-	-	0.72	0.74	0.75	0.76	0.77	0.79	0.81	0.82	0.84	0.86
5	-	-	-	-	0.70	0.71	0.72	0.74	0.75	0.77	0.78	0.80	0.82
0	-	-	-	-	-	0.68	0.69	0.70	0.72	0.73	0.74	0.76	0.77
-5	-	-	-	-	-	-	0.66	0.67	0.68	0.69	0.70	0.72	0.73
-10	-	-	-	-	-	-	-	0.64	0.65	0.66	0.67	0.68	0.70
-15	-	-	-	-	-	-	-	-	0.59	0.60	0.61	0.62	0.64
-20	-	-	-	-	-	-	-	-	-	0.57	0.58	0.59	0.60

Selection example:

Capacity Qe = 10 kW
R404A
Condensing temperature = 45°C
Evaporating temperature = -20°C
Correction factor = 1.41
Capacity ARI Qe ari = 10 x 1.41 = 14.1 kW

Report the capacity to the table page 186 (inches) and page 187 (mm).

Correction Factors for Filters Driers

Flow Capacity Correction Factors

R 407C

Condensing Temperature Tc (°C)	Evaporating Temperature Te (°C)										
	20	15	10	5	0	-5	-10	-15	-20	-25	-30
60	1.34	1.36	1.39	1.42	1.45	1.49	1.53	1.56	1.61	1.66	1.71
55	1.23	1.25	1.27	1.30	1.33	1.36	1.38	1.42	1.46	1.50	1.54
50	1.14	1.16	1.18	1.20	1.23	1.25	1.27	1.31	1.34	1.37	1.41
45	1.07	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.27	1.30
40	1.00	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.18	1.20
35	0.95	0.96	0.97	0.99	1.00	1.02	1.04	1.06	1.08	1.10	1.13
30	0.90	0.91	0.92	0.93	0.95	0.97	0.98	1.00	1.02	1.04	1.06
25	0.86	0.87	0.88	0.89	0.90	0.92	0.93	0.95	0.97	0.98	1.00
20	-	0.83	0.84	0.85	0.86	0.88	0.89	0.90	0.92	0.93	0.95
15	-	-	0.81	0.82	0.83	0.84	0.85	0.87	0.88	0.89	0.91
10	-	-	-	0.78	0.79	0.80	0.81	0.83	0.84	0.85	0.87
5	-	-	-	-	0.76	0.77	0.78	0.79	0.80	0.81	0.83
0	-	-	-	-	-	0.74	0.75	0.76	0.77	0.78	0.80
-5	-	-	-	-	-		0.73	0.74	0.75	0.76	0.77
-10	-	-	-	-	-			0.71	0.72	0.73	0.74

R 410A

Condensing Temperature Tc (°C)	Evaporating Temperature Te (°C)												
	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
60	1.55	1.56	1.58	1.60	1.62	1.65	1.68	1.71	1.75	1.78	1.83	1.87	1.92
55	1.37	1.38	1.39	1.41	1.43	1.45	1.47	1.50	1.52	1.55	1.58	1.62	1.66
50	1.24	1.25	1.26	1.28	1.29	1.31	1.32	1.34	1.37	1.39	1.41	1.44	1.47
45	1.14	1.15	1.16	1.17	1.18	1.20	1.22	1.23	1.25	1.27	1.29	1.31	1.34
40	1.06	1.07	1.08	1.09	1.10	1.11	1.13	1.14	1.16	1.17	1.19	1.21	1.23
35	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.11	1.12	1.15
30	0.94	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.03	1.04	1.06	1.07
25	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01
20	-	0.85	0.86	0.87	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.95	0.96
15	-	-	0.82	0.83	0.84	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.92
10	-	-	-	0.79	0.80	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87
5	-	-	-	-	0.77	0.77	0.78	0.79	0.79	0.80	0.81	0.82	0.83
0	-	-	-	-	-	0.75	0.75	0.76	0.77	0.78	0.78	0.79	0.80
-5	-	-	-	-	-	-	0.73	0.73	0.74	0.75	0.75	0.76	0.77
-10	-	-	-	-	-	-	-	0.70	0.70	0.71	0.72	0.73	0.74

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Correction Factors for Filters Driers

Flow Capacity Correction Factors

R 22

Condensing Temperature Tc (°C)	Evaporating Temperature Te (°C)												
	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
60	1.24	1.25	1.26	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.42	1.43	1.49
55	1.17	1.18	1.20	1.21	1.22	1.24	1.26	1.28	1.30	1.32	1.35	1.37	1.40
50	1.11	1.12	1.14	1.15	1.16	1.18	1.20	1.21	1.23	1.25	1.27	1.30	1.32
45	1.06	1.07	1.08	1.09	1.10	1.12	1.14	1.16	1.18	1.20	1.21	1.23	1.24
40	1.01	1.02	1.03	1.04	1.05	1.07	1.08	1.09	1.11	1.13	1.14	1.16	1.18
35	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.07	1.08	1.10	1.12
30	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.03	1.04	1.06	1.07
25	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.98	0.99	1.00	1.01	1.02
20	-	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.97	0.98	0.99
15	-	-	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.95
10	-	-	-	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91
5	-	-	-	-	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88
0	-	-	-	-	-	0.78	0.79	0.80	0.81	0.82	0.82	0.84	0.85
-5	-	-	-	-	-	-	0.76	0.77	0.78	0.79	0.80	0.81	0.80
-10	-	-	-	-	-	-	-	0.74	0.75	0.76	0.77	0.78	0.79
-15	-	-	-	-	-	-	-	-	0.72	0.73	0.74	0.75	0.76
-20	-	-	-	-	-	-	-	-	-	0.68	0.69	0.72	0.73

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