

# Hyperfilter

## Compressed Air Filters



Compressed air incorporates a high concentration of dirt, oil, moisture and other impurities. Failure to remove these contaminants will lead to escalating maintenance costs, lengthy downtimes and damaged finished goods.

Hyperfilter has been specifically designed to prevent these undesired effects, offering a comprehensive range of compressed air filters covering all industrial needs.

The secret of Hyperfilter is its highly advanced filter element. This combines a particle retention efficiency of 99,9999% with a very low pressure drop. The upshot is extremely clean air with minimal operating costs.



### Hyperfilter filtration grades<sup>(\*)</sup>

#### Solid particles

##### Class 1: Grade S

For particles up to 0,01 micron.

##### Class 2: Grade P

For particles up to 1 micron.

##### Class 3: Grade Q and D

For particles up to 3 micron. D grade is specifically designed for the filtration of dry dust, downstream the dryer.

#### Oil

##### Class 1: Grade S

Max remaining oil content 0,01mg/m<sup>3</sup>

##### Grade C

Activated carbon oil vapour removal

Max. remaining oil content 0,003mg/m<sup>3</sup>

##### Class 3: Grade P

remaining oil content 0,5 mg/m<sup>3</sup>

<sup>(\*)</sup> ISO 8573-1 Reference conditions

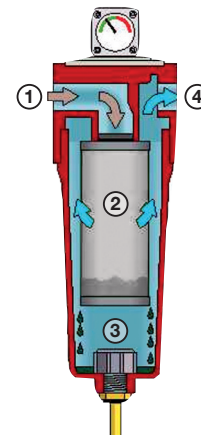
### Product Features:

- Protects tools and downstream equipment
- Increases efficiency, reduces downtimes
- Significantly reduces maintenance costs
- Full range of models and filtration grades for all industrial applications
- Guaranteed performance levels
- The new look housing features a redesigned inside to reduce pressure drops even further, saving energy

The differential pressure gauge warns when the element needs changing. Both a warning light and a remote contact are also available. Alternatively, it is possible to install an indicator on the filter.

The air-tight seal cannot be opened when the filter is under pressure, offering added protection.

The HDI zero-loss drain (standard on models HFN005-072 for filtration grades Q, P and S) features an auto-cleaning protection screen for highest reliability. Simply press the drain to verify its correct operation.



### Operation

- 1) The air enters the filter.
- 2) The air passes through the filter element, which holds virtually all solid and liquid particles with a size higher than the grade of filtration installed.
- 3) The filtered liquid and solid particles drop to the bottom of the filter to be removed by the condensate drain.
- 4) The filtered air exits the filter.

To maintain the air quality standards, filter elements must be replaced at least every 12 months with genuine Parker Hiross parts. Annual filter element changes are therefore essential and ensure:

- Optimal performance is maintained
- Air quality continues to meet international standards
- Low operational costs
- Continued protection of downstream equipments & processes

Failure to perform the scheduled replacement can lead to increasing system pressure drops.



Grade	Filtration type	Typical applications
Q	general purpose	bulk liquid & solid removal , vacuum pump pre-filter, air blowers, refrigeration dryer pre-filter, large pneumatic tools
P	fine filtration	general pneumatic tools & controls, air conveyors, compressed air motors, sand blasting, shipyards & shipping, vacuum pump post-filter, metal working, adsorption dryer pre-filter (oil-free), air motors
S	ultra fine	air conveyors, spray painting, air logistics, instrumentation, air gauging, fine pneumatic tools, adsorption dryer pre-filter (non oil-free), oil-free air
C	critical filtration	hospital & medical, film processing, pharmaceuticals, non-critical breathing air (without CO/CO <sub>2</sub> removal), critical instrumentation, odour- taste and oil vapour removal, production / packaging / transport of food, breweries, beverages and dairies
D	very low dew point filtration	dust filtration, dry particle removal, pharmaceuticals, cosmetics, electronics, food, automotive, chemical, dairies, breweries, aviation, hospitals, refineries, plastics, textiles, railways, adsorption dryer post-filter

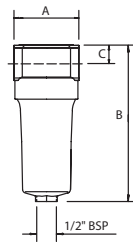
### Accessories & versions:

- kit for installation in series of two or more filters;
- wall mounting kit;
- counterflanges kit (for flanged models);
- element supervision indicator;
- differential pressure gauge;
- flanged models can be supplied in stainless steel for aggressive ambients.

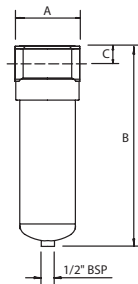
# Technical data

Model	technical data			dimensions (mm)			weight (kg)
	air flow		air	width	height	connec.	
	m <sup>3</sup> /h	m <sup>3</sup> /min	connec.	A	B	C	
HFN005	31,8	0,53	¼"	69	168	21	0,6
HFN010	60	1	3/8"	89	267	24	1,2
HFN018	108	1,8	½"	89	267	24	1,2
HFN022	132	2,2	¾"	89	267	24	1,2
HFN030	180	3	¾"	109	367	34	2,4
HFN045	270	4,5	1"	109	367	34	2,4
HFN062	372	6,2	1¼"	109	514	34	3
HFN072	432	7,2	1½"	109	514	34	3
HFN122	732	12,2	1½"	150	550	41	5,2
HFN135	810	13,5	2"	150	550	41	5,2
HFN175	1.050	17,5	2"	150	928	41	6,5
HFN205	1.230	20,5	2"	150	928	41	6,6
HFN300	1.800	30	2½"	188	733	56	13,5
HFN370	2.220	37	3"	188	933	56	16
NFF380	2.280	38	DN 80	450	1.152	157	54
NFF520	3.120	52	DN 100	500	1.277	206	96
NFF610	3.600	60	DN 100	500	1.277	206	96
NFF750	4.500	75	DN 100	500	1.277	206	96
NFF1000	6.000	100	DN 150	640	1.417	315	169
NFF1510	9.000	150	DN 150	640	1.417	315	169
NFF2000	12.000	200	DN 200	810	1.462	350	278
NFF2500	15.000	250	DN 200	810	1.462	350	278
NFF3000	18.000	300	DN 250	940	1.541	376	320
NFF4500	27.000	450	DN 300	1.026	1.659	467	492

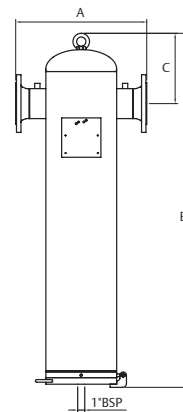
Performances are indicated at filtration temperature of 20 °C and working pressure of 7 bar<sub>g</sub>. Weights are inclusive of filter element but without condensate drain. Materials: HFN005-370 in aluminium, NFF in carbon steel. Filters supplied with elements Q, P and S feature as standard HDI condensate drain up to model HFN072, HDF120 for models HFN122-HFS380 and HDF180 for models NFF520-NFF4500. Filters supplied with elements D and C feature a manual drain. All filters are for operation up to 65 °C, 40 °C for activated carbon working temperature.



HFN 005-205



HFN 300-370



NFF 380-4500

# Parker Worldwide

## Europe, Middle East, Africa

**AE – United Arab Emirates,**  
Dubai

Tel: +971 4 8127100  
parker.me@parker.com

**AT – Austria,** Wiener Neustadt

Tel: +43 (0)2622 23501-0  
parker.austria@parker.com

**AT – Eastern Europe,** Wiener  
Neustadt

Tel: +43 (0)2622 23501 900  
parker.easteurope@parker.com

**AZ – Azerbaijan,** Baku

Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/LU – Belgium,** Nivelles

Tel: +32 (0)67 280 900  
parker.belgium@parker.com

**BY – Belarus,** Minsk

Tel: +375 17 209 9399  
parker.belarus@parker.com

**CH – Switzerland,** Etoy

Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CZ – Czech Republic,** Klecany

Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – Germany,** Kaarst

Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – Denmark,** Ballerup

Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – Spain,** Madrid

Tel: +34 902 330 001  
parker.spain@parker.com

**FI – Finland,** Vantaa

Tel: +358 (0)20 753 2500  
parker.finland@parker.com

**FR – France,** Contamine s/Arve

Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – Greece,** Athens

Tel: +30 210 933 6450  
parker.greece@parker.com

**HU – Hungary,** Budapest

Tel: +36 1 220 4155  
parker.hungary@parker.com

**IE – Ireland,** Dublin

Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IT – Italy,** Corsico (MI)

Tel: +39 02 45 19 21  
parker.italy@parker.com

**KZ – Kazakhstan,** Almaty

Tel: +7 7272 505 800  
parker.easteurope@parker.com

**NL – The Netherlands,** Oldenzaal

Tel: +31 (0)541 585 000  
parker.nl@parker.com

**NO – Norway,** Asker

Tel: +47 66 75 34 00  
parker.norway@parker.com

**PL – Poland,** Warsaw

Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**PT – Portugal,** Leca da Palmeira

Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – Romania,** Bucharest

Tel: +40 21 252 1382  
parker.romania@parker.com

**RU – Russia,** Moscow

Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – Sweden,** Spånga

Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

**SK – Slovakia,** Banská Bystrica

Tel: +421 484 162 252  
parker.slovakia@parker.com

**SL – Slovenia,** Novo Mesto

Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TR – Turkey,** Istanbul

Tel: +90 216 4997081  
parker.turkey@parker.com

**UA – Ukraine,** Kiev

Tel: +380 44 494 2731  
parker.ukraine@parker.com

**UK – United Kingdom,** Warwick

Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**ZA – South Africa,** Kempton Park

Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## Asia Pacific

**AU – Australia,** Castle Hill

Tel: +61 (0)2-9634 7777

**CN – China,** Shanghai

Tel: +86 21 2899 5000

**HK – Hong Kong**

Tel: +852 2428 8008

**IN – India,** Mumbai

Tel: +91 22 6513 7081-85

**JP – Japan,** Tokyo

Tel: +81 (0)3 6408 3901

**KR – South Korea,** Seoul

Tel: +82 2 559 0400

**MY – Malaysia,** Shah Alam

Tel: +60 3 7849 0800

**NZ – New Zealand,** Mt Wellington

Tel: +64 9 574 1744

**SG – Singapore**

Tel: +65 6887 6300

**TH – Thailand,** Bangkok

Tel: +662 186 7000-99

**TW – Taiwan,** Taipei

Tel: +886 2 2298 8987

## South America

**AR – Argentina,** Buenos Aires

Tel: +54 3327 44 4129

**BR – Brazil,** Sao Jose dos Campos

Tel: +55 800 727 5374

**CL – Chile,** Santiago

Tel: +56 2 623 1216

**MX – Mexico,** Apodaca

Tel: +52 81 8156 6000