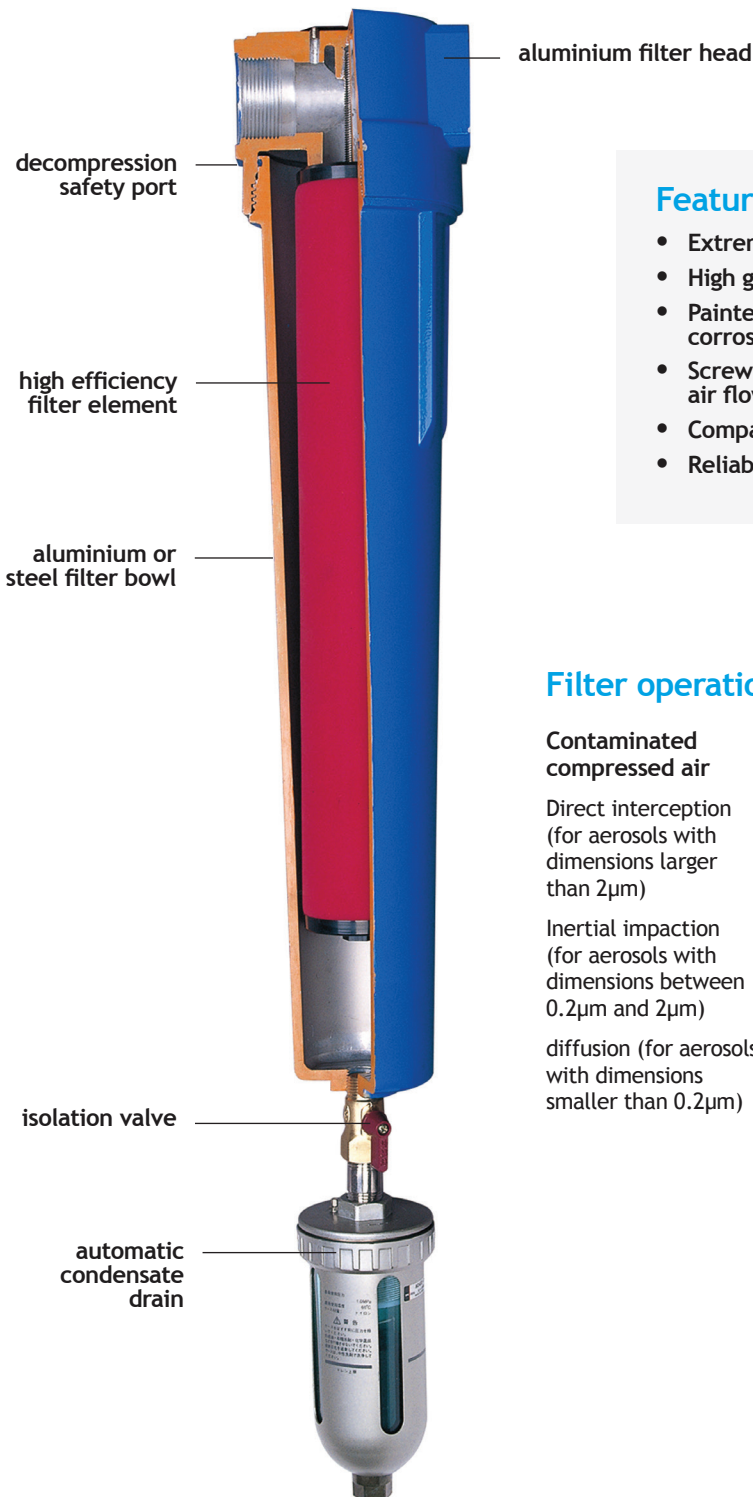


# ultrapure COMPRESSED AIR filters



## PRODUCT SPECIFICATION



### Features

- Extremely low pressure drop (high energy savings)
- High grade aluminium-silicon filter housing
- Painted surface with epoxy resin for wear resistance and corrosion resistance
- Screw threads at inlet and outlet for easy installation with air flow indication on the housing
- Compact design
- Reliable automatic condensate drain

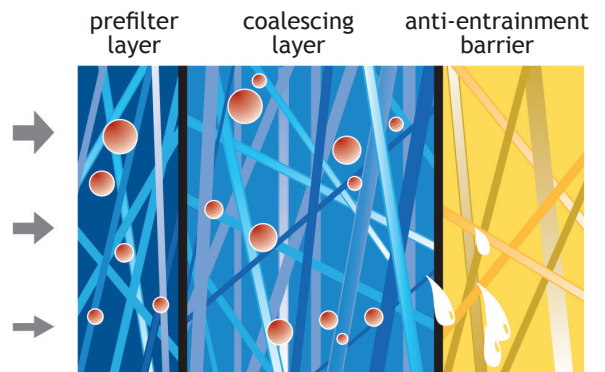
### Filter operation principle

#### Contaminated compressed air

Direct interception  
(for aerosols with dimensions larger than  $2\mu\text{m}$ )

Inertial impaction  
(for aerosols with dimensions between  $0.2\mu\text{m}$  and  $2\mu\text{m}$ )

diffusion (for aerosols with dimensions smaller than  $0.2\mu\text{m}$ )



## GUIDE & SPECIFICATION

### Quality of air and pressure drop chart

Filter grade	Minimal solid particle size µm	Residual oil content ppm(mg/m <sup>3</sup> )	Pressure drop under rated condition Bar(g) at nominal flow rate	
			dry	wet
UPF7	1	1	0.07	0.14
UPF5	0.01	0.01	0.07	0.21
UPF1	0.01	0.001	0.07	N/A

### ISO8573.1 Quality class

Quality Classes	Solid contamination µm	Maximum pressure dew point	
		°C	(mg/m <sup>3</sup> )
1	0.1	-70	0.008
2	1	-40	0.08
3	5	-20	0.8
4	15	3	4
5	40	7	21
6	-	10	-

### Specification

Filter grade	Element model	Function
UPF7: Main pipeline filter	Model	I
UPF5: Ultra efficient filter for eliminating oil	Nominal flow rate	AD
UPF1: Filter for eliminating oil and odour	Maximum flow rate	ED
	16	G
	20	TG
	28	
	36	
	40	
	44	
	48	

\* must be ordered at the time of ordering the filter housing

## SPECIFICATION CONT

### Dimensions

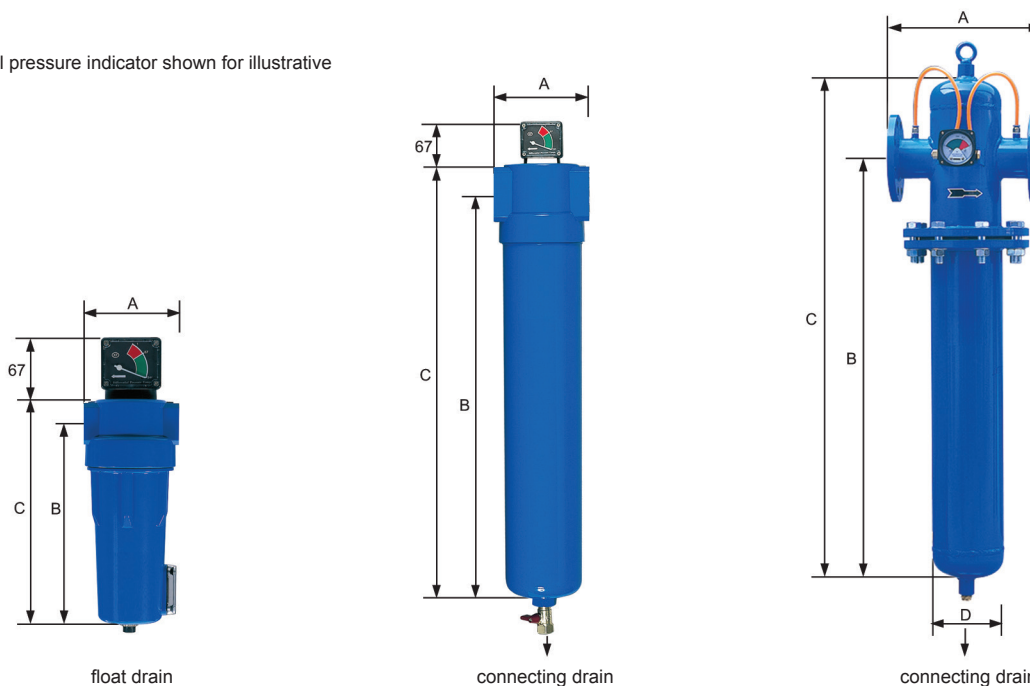
Filter model	Flow rate NM <sup>3</sup> /min		Pipe connection	Element model	Quantity of elements	Dimensions (mm)				Appearance
	Nominal	Maximum				A	B	C	D	
UPF-0016	1	1.5	½"	XE*-16	1	104	217	243		chart 1
UPF-0020	1.72	3	1"	XE*-20	1	104	287	313		
UPF-0028	4.9	8	1½"	XE*-28	1	138	385	424		
UPF-0036	10.7	14	1½"	XE*-36	1	138	585	630	*	chart 2
UPF-0040	14	17	2"	XE*-40	1	148	639	685	*	
UPF-0044	17.7	22	2"	XE*-44	1	148	780	820	*	
UPF-0048	22	31	2½"	XE*-48	1	148	940	990	*	
UPF-0056-F	36	44	DN100	XE*-44	2	500	950	1150	250	chart 3**
UPF-0060-F	54	66	DN100	XE*-44	3	500	950	1150	250	
UPF-0064-F	72	88	DN100	XE*-44	4	600	990	1250	350	
UPF-0068-F	90	106	DN125	XE*-44	5	600	990	1250	350	

Note: \* filter grade \*\* up to 10mm spigot

### Correction factor of operation pressure (steel flange 10 bar as standard)

inlet pressure	2	3	4	5	6	7	8	9	10	12	14	16
correction factor	0.38	0.50	0.62	0.75	0.87	1.00	1.12	1.24	1.37	1.62	1.86	2.11

Note: Differential pressure indicator shown for illustrative purposes only.



**Chart 1: Aluminum housing complete with internal drain**

**Chart 2: Aluminum housing complete with external drain (steel bowl)**

**Chart 3: Steel housing complete with external drain and DP gauge**

Note: Drain valves and other accessories also available. Refer to ultrapure for specific needs or requirements.