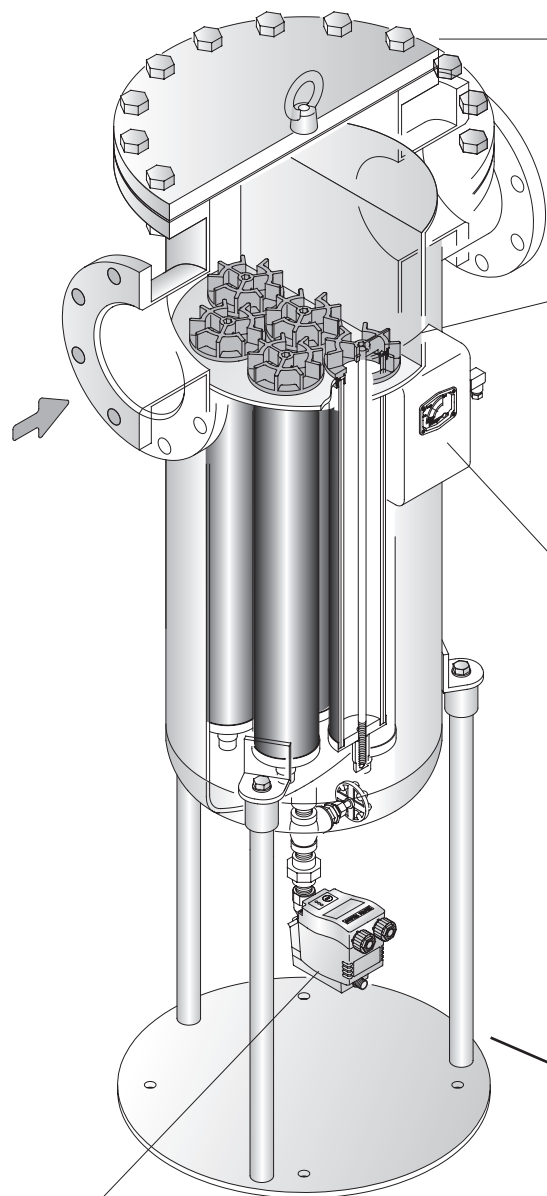


Providing total oil-free specifications from refrigeration air dryer to filter by incorporating a stainless steel vessel



■ Stainless steel vessel incorporated for all models  
(SUS304) Truly clean air is supplied without rust forming.  
Lightweight (10 to 20% (CKD comparison))

■ Easily replace element

A screw method is used for element installation, so the element is replaced by removing the upper flange. Stainless steel is also used for the screws, with no concern for stiffness due to rust.



■ Remote control possible

An indicator with a differential pressure switch is standard, installed on the front. The element replacement interval is confirmed beforehand. An alarm signal is output from the differential pressure switch, providing an accurate reading and enabling remote control.

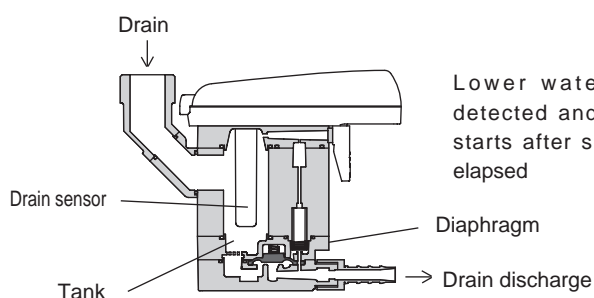


■ Easy installation

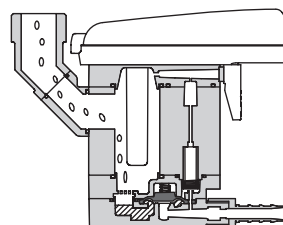
Installation legs have been prepared as standard.  
Piping work is easier. (AF5016isexcluding.)  
The legs are removed when not required.

■ Drain discharger with no air loss sensor prevents wasted air consumption (Provided as standard on P and S types)

The highly reliable drain lower end sensor and solenoid valve have been integrated in this new energy-saving drain discharger. While air is discharged with the drainage when using the float or disc drain discharger, this product detects lower water levels during drainage discharge, so air is not wasted and discharged when discharging the drainage. An alarm signal is output, enabling remote control. (Power supply 95 VAC to 240 VAC is required)



Lower water level is detected and discharge starts after set time has elapsed



Lower water level is detected again and drainage stops

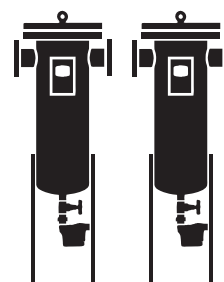
## Wide variation

40 models in four types are available.

The ideal model can be selected based on the flow rate and quality of air.

## AF5016P-50

Flow rate classification		Element		Bore size	
016	16 m <sup>3</sup> /min(ANR)	P	P type	50	Flange 2B
032	32 m <sup>3</sup> /min(ANR)	S	S type	80	Flange 3B
048	48 m <sup>3</sup> /min(ANR)	M	M type	100	Flange 4B
064	64 m <sup>3</sup> /min(ANR)	X	X type	150	Flange 6B
080	80 m <sup>3</sup> /min(ANR)			200	Flange 8B
096	96 m <sup>3</sup> /min(ANR)				
128	128 m <sup>3</sup> /min(ANR)				
160	160 m <sup>3</sup> /min(ANR)				
192	192 m <sup>3</sup> /min(ANR)				
256	256 m <sup>3</sup> /min(ANR)				



## Easy design of equipment

The dimensions and bore sizes are the same for each series with the same flow rate, so the system is easily designed and installed.

Types can be changed only by replacing the element.

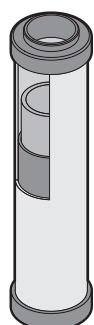
### PType

Main line filter

(Pre-filter)

For air dryer pre-filter

- Contaminants 3 µm and over are removed
- Water separation efficiency 95%



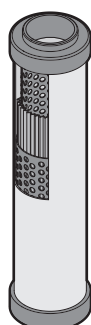
### SType

Oil mist filter

(Oil removing filter)

Protect expensive pneumatic components

- Contaminants 0.3 µm and over are removed
- Oil content up to a concentration of 0.5 mg/m<sup>3</sup> (at 21°C) is removed from the oil content on the secondary side



### MType

Oil mist filter

(High-performance oil removing filter)

For pneumatic pressure circuits which are susceptible to oil

- Contaminants 0.01 µm and over are removed
- Oil content up to a concentration of 0.01 mg/m<sup>3</sup> (at 21°C) is removed from the oil content on the secondary side



### XType

Oil mist filter

(Activated carbon filter)

For pneumatic pressure circuits which are susceptible to odors

- Suction by activated carbon
- Vaporized oil content up to a concentration of 0.003 mg/m<sup>3</sup> (at 21°C) and odors are removed from the oil content on the secondary side



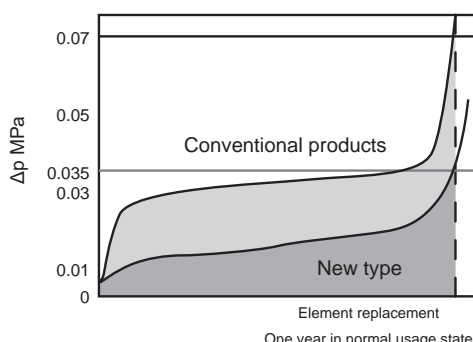
CKD's original chemical fiber structure permanent element has been adopted for the 3 µm element. This structure reduces clogging and realizes long service life and low pressure loss.

Polysilicate micro fibers quickly separate oil and limit pressure loss. The pleated structure creates a large filtration area, increasing the capacity for catching impurities. Prevents increased pressure loss.

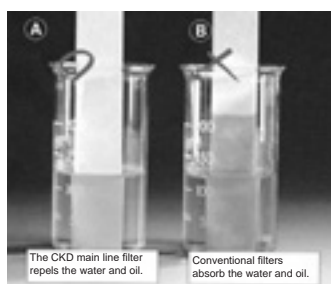
Cylindrically wound particle activated carbon adsorbs oil vapor molecules and odor molecules with a low pressure loss. High density activated carbon extends element service life.

## Long life/low pressure loss element

Element service life curve



- The pressure loss is half that of conventional products.
- The element is replaced when the pressure drops to 0.035 MPa.
- The element service life is one year when used under normal conditions.

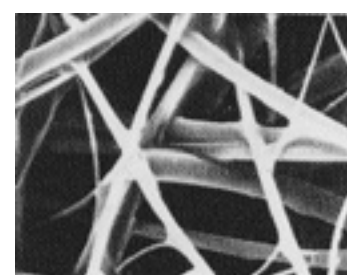


### ① New filter

Borosilicate glass microfibers used in the filtration layer powerfully repel water and oil, allowing the pressure drop and operation costs to be minimized.

### ② Conventional filter

Conventional glass microfibers absorb water and oil, so the pressure easily drops, filtration performance decreases, and operation costs increase.



High 96% porosity inside the element fibers helps achieve low pressure loss and a long life

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending