F.R.L.

F.R. F (Filtr) R (Reg) L (Lub) Drain

Separ Press SW

Res press

exh valve

SlowStart

Anti-bac/Bacremove Filt Film

Resist FR

Oil-ProhR

Press FR

Outdrs FRL Adapter Joiner Press Gauge CompFRL LgFRL **PrecsR** VacF/R Clean FR

ElecPneuR

AirBoost Speed Ctrl

Silncr

CheckV

Nozzle

Air Unit

PrecsCompr

Electro

Press SW

ContactSW

AirSens

PresSW Air Flo Sens/Ctrl

WaterRtSens TotAirSys (Total Air)

TotAirSys

(Gamma)

generator

RefrDry

DesicDry

HiPolymDry

MainFiltr Dischrg

Gas

other Fit/Tube

No Cu/ PTFE FRL

Med

FAC Series

The conventional external exhaust

Port size: ø4,ø6,ø8,ø10,R1/8,R1/4,R3/8 R1/2,Rc3/8,Rc1/2

Direct exhaust in clean rooms.

The innovative clean exhaust filter FAC Series with newly incorporated hollow fiber membrane structure allows the

exhaust air in the pneumatic circuit to be cleaned with high precision. Direct exhausting is possible just by mounting this filter onto the exhaust port of devices in a Class 10 or below clean room.

Plug type FAC10 Series

Installation is completed just by inserting the plug in by hand. Exhaust This type is suitable for Air supply exhausting cylinders and exhausting pilot air from valves.

is no longer required allowing piping work, space and costs to be dramatically improved.

Modular type

Piping is not required when this type is connected to other modular devices (C type, T type bracket, piping adaptor, distributor, etc.).

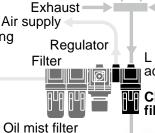
This type is suitable for central exhaust and large flow rate exhausting.

Silencer type This male thread type is provided with a

silencer function, and can be directly installed on the valve's R port.

* For installation, refer to the safety precautions (page 501).

Refrigerating Screw type air air dryer compressor Main line filter



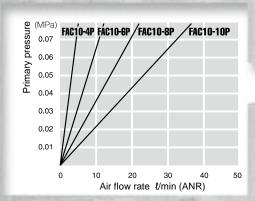
L type piping adaptor

Exhaust

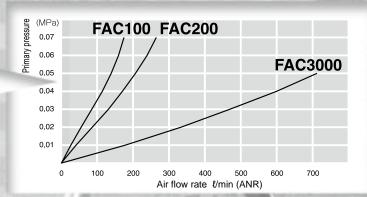
Clean exhaust

Clean exhaust

Flow characteristics/FAC10



Flow characteristics/FAC100, FAC200, FAC3000



Ending

Revolutionary exhaust system for clean rooms

Precise filtration

0.01 µm filtration, 99.99% removal efficiency

High secondary cleanliness

99.99% of 0.1 µm and larger particles are removed * Measurement conditions: 28.3 {/min (ANR) flow rate

Cost reducing and space saving

The work, costs and space required for conventional external exhaust piping are eliminated.

Simplified piping

All external exhaust piping can be eliminated by mounting the plug type on the cylinder and the silencer on the switching valve, thereby simplifying the piping.

Silencer function

The exhaust noise can be suppressed to 60dB (A) or less.

Ample variations

Three styles, the plug type, silencer type and modular type, as well as four flow rate series, 4 to 35, 100, 200 and 600 l/min (ANR) are available.

Enlarged view of hollow fiber membrane ⇒ Clean exhaust Hollow fiber membrane structure The hollow fiber membrane is a tubular membrane with a diameter of 3 mm or less, and having a multi-porous structure with an infinite number of small holes on the membrane wall. The particles found in the fluid are accurately removed when the fluid passes through this membrane. Air IN ■ Hollow fiber membrane

Particle Filter

Ambient Clean exhaust filter temperature Port size Flow rate [@/min (ANR)] range ℃ FAC Series Variation Male thread 5 to 5 to 200 600 Ø8 Ø10 R1/8 R1/4 R3/8 R1/2 Rc3/8 Rc1/2 ø6 Plug type FAC₁₀ Silencer type **FAC100** Silencer type **FAC200** Modular type **FAC3000**

Precautions for selecting model

This is a high precision filtration type, so the flow rate is lower than the normal silencer and cleaner. Refer to each specification for details.

Read Safety Precautions to ensure correct, safe product use.

F.R.L. F.R. F (Filtr) R (Reg) L (Lub) Drain Separ Press SW Res press exh valve SlowStart Anti-bac/Bacremove Filt Resist FR Oil-ProhR Med Press FR No Cu/ PTFE FRL Outdrs FRL Adapter Press Gauge CompFRL LgFRL **PrecsR** VacF/R Clean FR AirBoost

ElecPneuR

Speed Ctrl Silncr

CheckV other Fit/Tube

Nozzle

Air Unit PrecsCompn Electro

Press SV ContactSV

AirSens PresSW Air Flo

Sens/Ctr WaterRtSens

TotAirSys generato

RefrDry DesicDry

HiPolymDry

MainFilt Dischrg

Ending