MWC series
FILTER FOR TURBINE TYPE
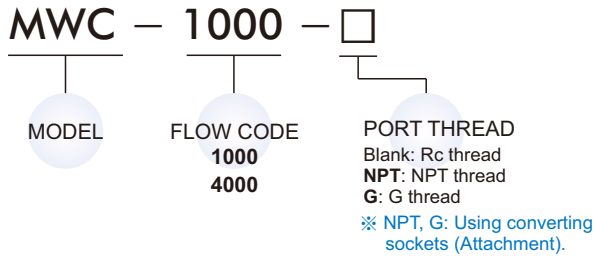
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Features

- Water removal rate remove as much as 99.99% of the water.
- Cost space saving save 80% cost.
- No power supple since no electricity is used, no wiring work is necessary. Installation is very easy.
- Compact design easily installed in wide variety of mechanical systems, due to space-saving design.

Specification

Model	MWC-1000	MWC-4000
Port size	3/8	1
External dimension (mm)	$\phi\,85 \times 382$	$\phi\,130 \times 501$
Max. operating pressure	1 MPa	
Max. air flow (※)	940 NL/min	4,000 NL/min
Option	Bracket	
Weight	1.6 kg	4.3 kg

※ Pressure is at 0.7 MPa.

Order example

MWC — 1000 — □

MODEL

FLOW CODE
1000
4000

PORT THREAD
Blank: Rc thread
NPT: NPT thread
G: G thread
※ NPT, G: Using converting sockets (Attachment).

Order example of bracket

BT — MWC-1000

BRACKET

FLOW CODE
1000
4000

Pressure loss / flow capacity

The pressure loss is less than 1%.

MWC-1000

Flow capacity vs. Air pressure

Pressure loss vs. Flow capacity

MWC-4000

Flow capacity vs. Air pressure

Pressure loss vs. Flow capacity
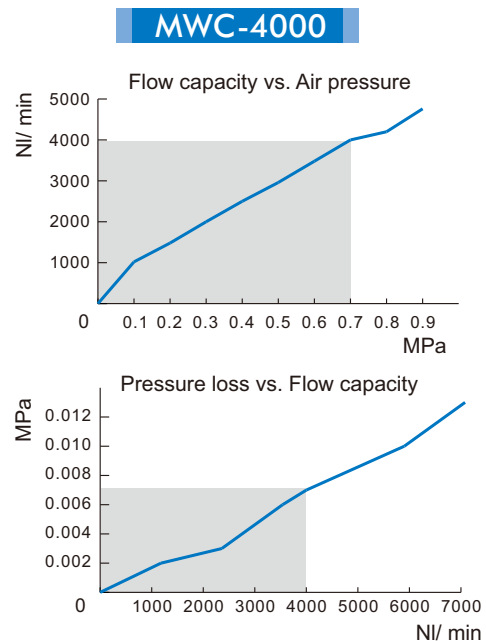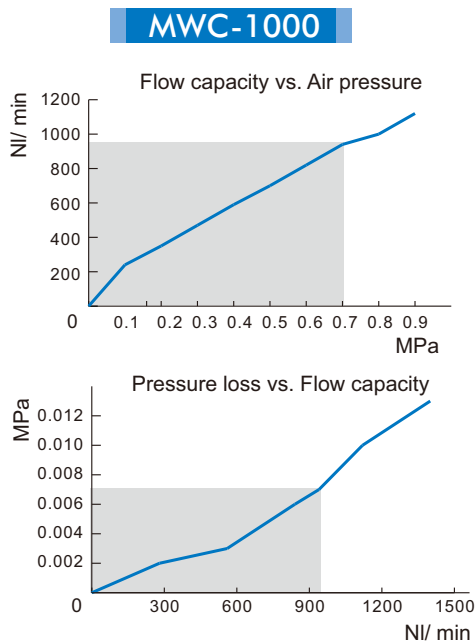
※ This product must be operated within the condition designated by blue areas in the graphs.

MWC Four- step separation
FILTER FOR TURBINE TYPE

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Compact and high efficiency

- 💧 Water drop
- ✳ Dust
- ● Oil mist

Air in

Air out

Helical air path

The compressed air is Induced into the helical air path.

Mesh coalescer

The mesh coalescer removes large particles and lets them fall. The majority of impurities are removed at this stage.

Next, centrifugal force removes small particles that have passed through the mesh coalescer. They are dropped into the bottom through the wall of the body and finally collected in the sump.
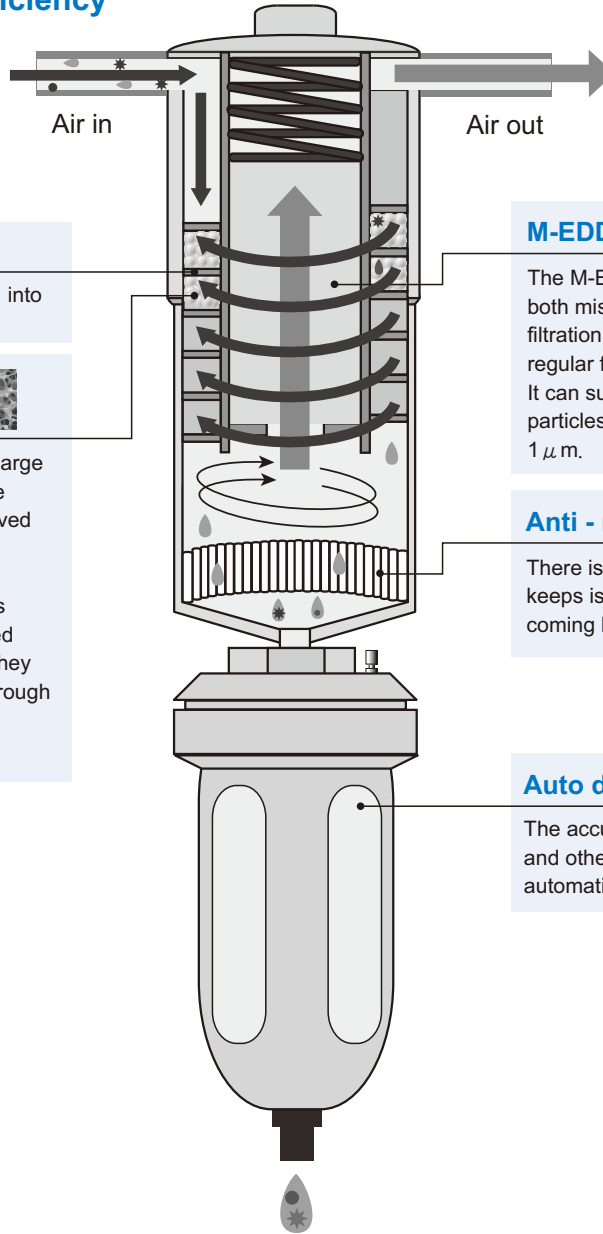
M-EDDY filter

The M-EDDY filter which absorbs both mist and oil, has four times filtration capacity compared to the regular filters.
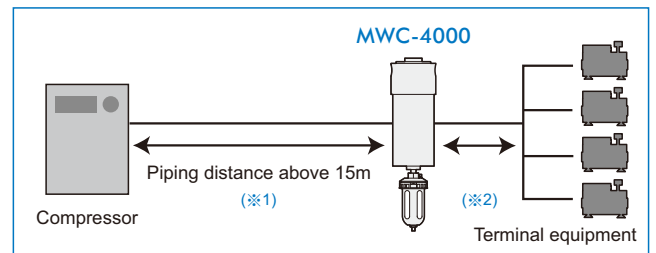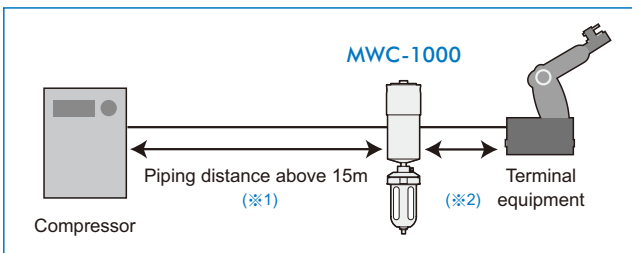It can supply clean air free of mist particles whose size is more than 1μm.

Anti - rolling up mechanism

There is a built-in mechanism that keeps isolated impurities from coming back to the air flow.
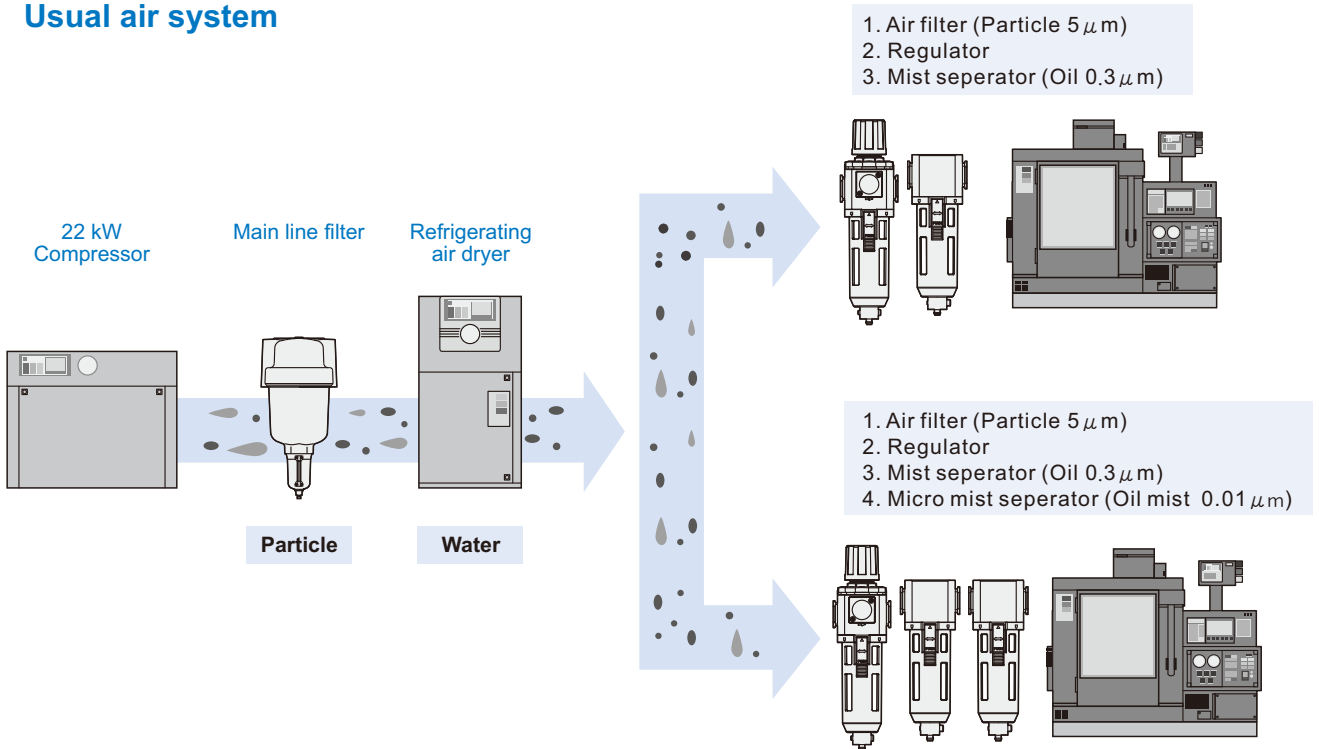
Auto drain

The accumulation of oil, sewage and other impurities in the bowl are automatically drain.

Application examples

MWC-1000

Compressor

Piping distance above 15m (※1)

(※2) Terminal equipment

MWC-4000

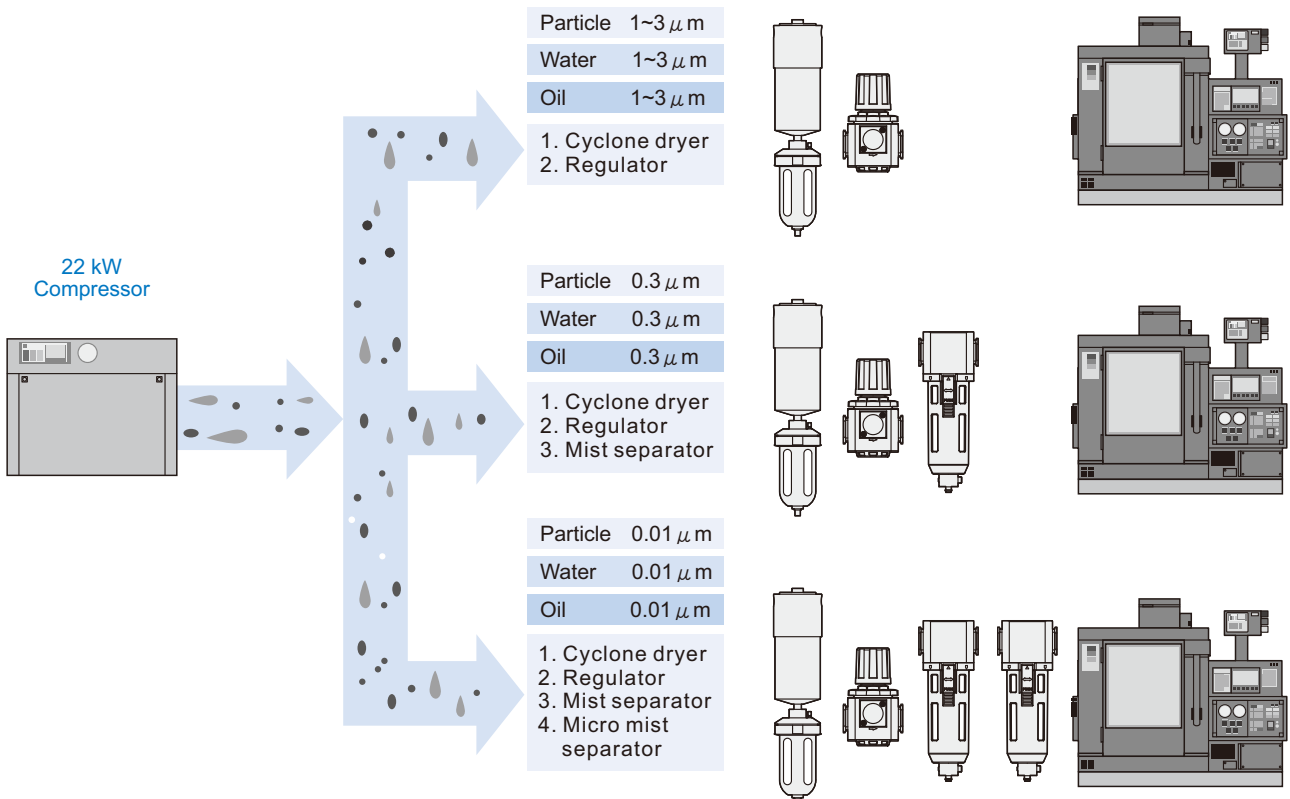Compressor

Piping distance above 15m (※1)

(※2)

Terminal equipment

※1. Should be installed as far as possible from the compressor.
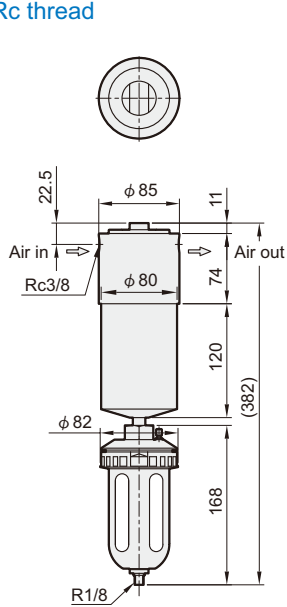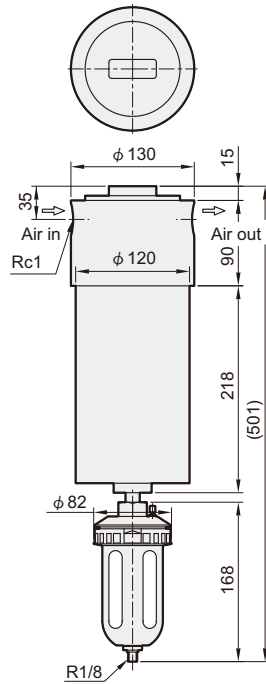※2. Should be installed as closer as possible to the terminal equipments.

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MWC Proposal
FILTER FOR TURBINE TYPE

Usual air system

1. Air filter (Particle 5μm)
2. Regulator
3. Mist seperator (Oil 0.3μm)

1. Air filter (Particle 5μm)
2. Regulator
3. Mist seperator (Oil 0.3μm)
4. Micro mist seperator (Oil mist 0.01μm)

22 kW Compressor

Main line filter

Refrigerating air dryer

Particle

Water

Cyclone dryer system

Particle	1~3μm
Water	1~3μm
Oil	1~3μm

1. Cyclone dryer
2. Regulator

Particle	0.3μm
Water	0.3μm
Oil	0.3μm

1. Cyclone dryer
2. Regulator
3. Mist separator

Particle	0.01μm
Water	0.01μm
Oil	0.01μm

1. Cyclone dryer
2. Regulator
3. Mist separator
4. Micro mist separator

22 kW Compressor

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Dimensions

MWC-1000

Rc thread

22.5 φ85 11

Air in ⇒ ⇒ Air out
Rc3/8 φ80 74

120 (382)

φ82

168

R1/8

MWC-4000

φ130 15

35
Air in ⇒ ⇒ Air out
Rc1 φ120 90

218 (501)

φ82

168

R1/8

G & NPT thread

G3/8 (123) φ25
NPT3/8
22

G1 (195) φ45
NPT1
41

Using converting sockets

Bracket

BT-MWC-1000

φ80 1.6 81
φ9
105 24
125 12

BT-MWC-4000

φ122 123.5
1.5 61
φ11
160 32
184

Installation diagram

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