# UFC series FR.L. Combinations

## Product features/ Code of order

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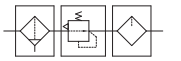
## Feature

- Filter regulator and lubricator combination.
- Filter the air also adjusting the output pressure and lubricate the air.
- Can supply oil-free air, air gun or other oil-free environment.

Symbol:



## Specification

| Item \ Model | | UFC 200 | UFC 300 | UFC 400 | UFC 500 |
|---|---|---|---|---|---|
| Fluid | | Air | | | |
| Port size | Rc | 1/8, 1/4 | 1/4, 3/8 | 1/4, 3/8, 1/2 | 3/4 |
| Filter grade | μm | 5 | | | |
| Pressure range | kgf/cm²(kPa) | 0.5 ~ 8.5 ( 50 ~ 850 ) | | | |
| Max. service pressure | kgf/cm²(kPa) | 10 ( 1000 ) | | | |
| Ambient and fluid temperature | °C | 5 ~ 60 | | | |
| Recommended lubrication | | ISO VG32 | | | |
| Minimum dripping flow rate | L/min | 30 | 85 | 92 | 92 |
| Bowl capacity | cc | 25 | 40 | 80 | 80 |
| Lubricator capacity | cc | 30 | 55 | 100 | 100 |
| Material | Body | Aluminum alloy die-casting | | | |
| | Bowl | High tensile plastic material | | | |
| Weight | kg | 0.32 | 0.58 | 1.05 | 1.26 |

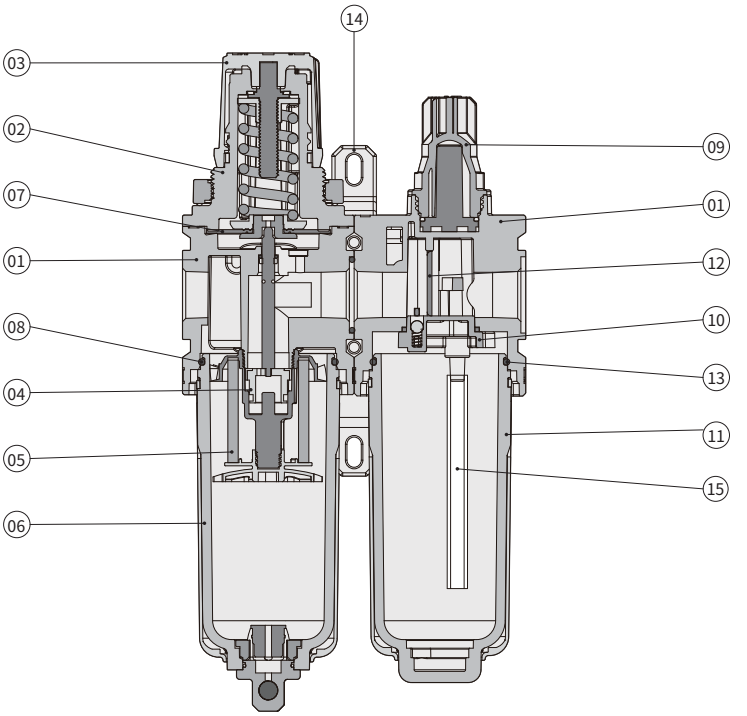
## Code of order

**UFC 400 – 03 – □ – □ – W – □**

1 2 3 4 5 6

| | Item | Mark | Specification | Model | | | |
|---|---|---|---|---|---|---|---|
| | | | | UFC 200 | UFC 300 | UFC 400 | UFC 500 |
| 2 | Connection port | 01 | 1/8 | ● | — | — | — |
| | | 02 | 1/4 | ● | ● | ● | — |
| | | 03 | 3/8 | — | ● | ● | — |
| | | 04 | 1/2 | — | — | ● | — |
| | | 06 | 3/4 | — | — | — | ● |
| 3 | Thread type | None | RC | ● | ● | ● | ● |
| | | G | PF | ● | ● | ● | ● |
| | | N | NPT | ● | ● | ● | ● |
| 4 | Bowl material | None | PC cup | ● | ● | ● | ● |
| | | MG | Metal cup | ● | ● | ● | ● |
| 5 | Drain cock type | W | Manual drain cock | ● | ● | ● | ● |
| | | A | Auto drain -N.O.(Limited to PC cup) | ● | ● | ● | ● |
| | | AC | Auto drain -N.C.(Limited to PC cup) | — | ● | ● | ● |
| 6 | Pressure gauge | None | PG 22N square pressure gauge | ● | ● | ● | ● |
| | | P | PG-10A Circle pressure gauge | ● | ● | ● | ● |
| | | EN | Pressure swtich (PSN-41 2NPN Output) | ● | ● | ● | ● |
| | | EP | Pressure swtich (PSN-41 2PNP Output) | ● | ● | ● | ● |

## Internal structure




## Components and material list

| No. | Item | Material | Quantity | Reference model |
|---|---|---|---|---|
| 01 | Body | Aluminum die-casting | 1 | UFC200 ~ UFC500 |
| 02 | Pressure adjusting holder | POM | 1 | |
| 03 | Pressure adjusting knob | ABS | 1 | |
| 04 | Valve assembly | Brass+NBR | 1 | |
| 05 | Filter | EA30 | 1 | |
| 06 | Bowl | PC | 1 | |
| 07 | Diaphragm | NBR | 1 | |
| 08 | Bowl O-ring | NBR | 1 | |
| 09 | Transparent cover | PC | 1 | |
| 10 | Regulator holder | POM | 1 | |
| 11 | Bowl | PC | 1 | |
| 12 | Spacer | PU | 1 | |
| 13 | Bowl O-ring | NBR | 1 | |
| 14 | Mounting bracket | Aluminum die-casting | 1 | |
| 15 | PU straw | PU | 1 | |

# UFC series FR.L. Combinations

## Characteristics graph

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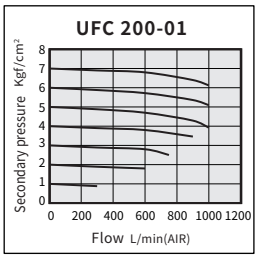
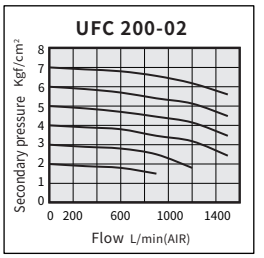
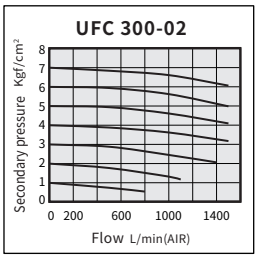
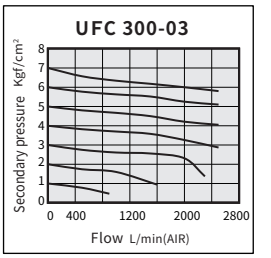
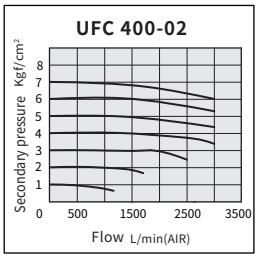
## Flow rate characteristic graph

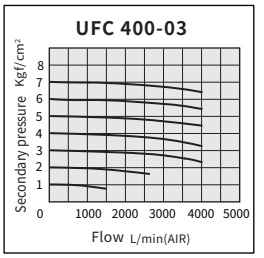


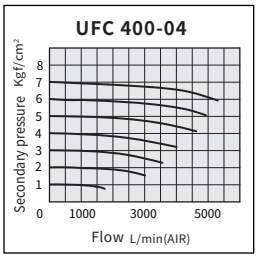



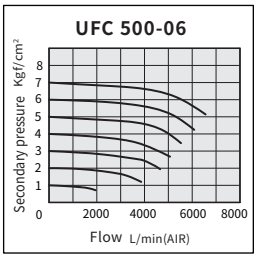



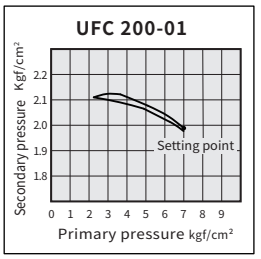



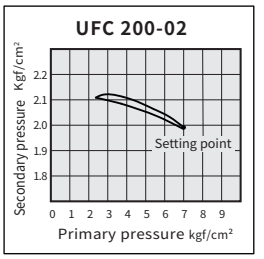



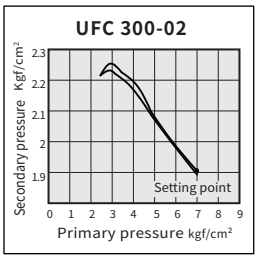



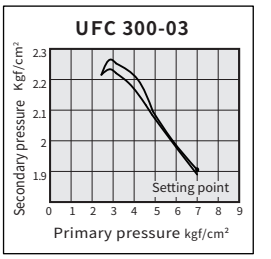



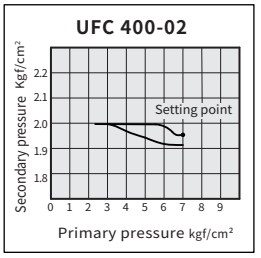

## Pressure characteristics graph

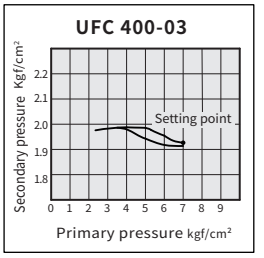


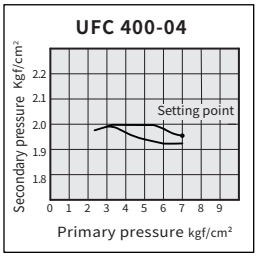



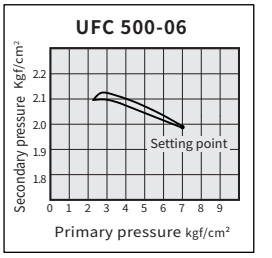



# UFC series FR.L. Combinations

## Dimensions

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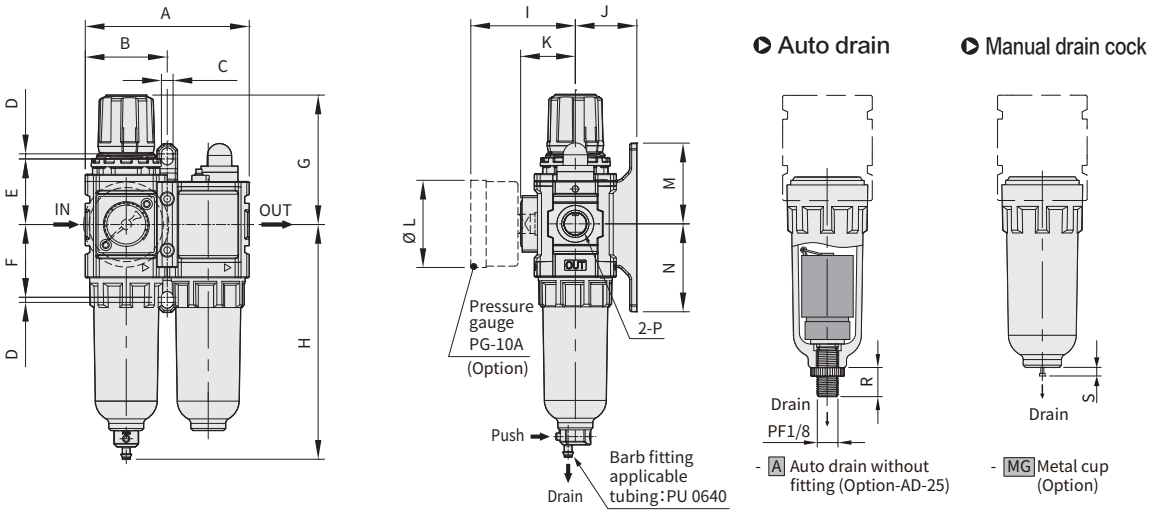
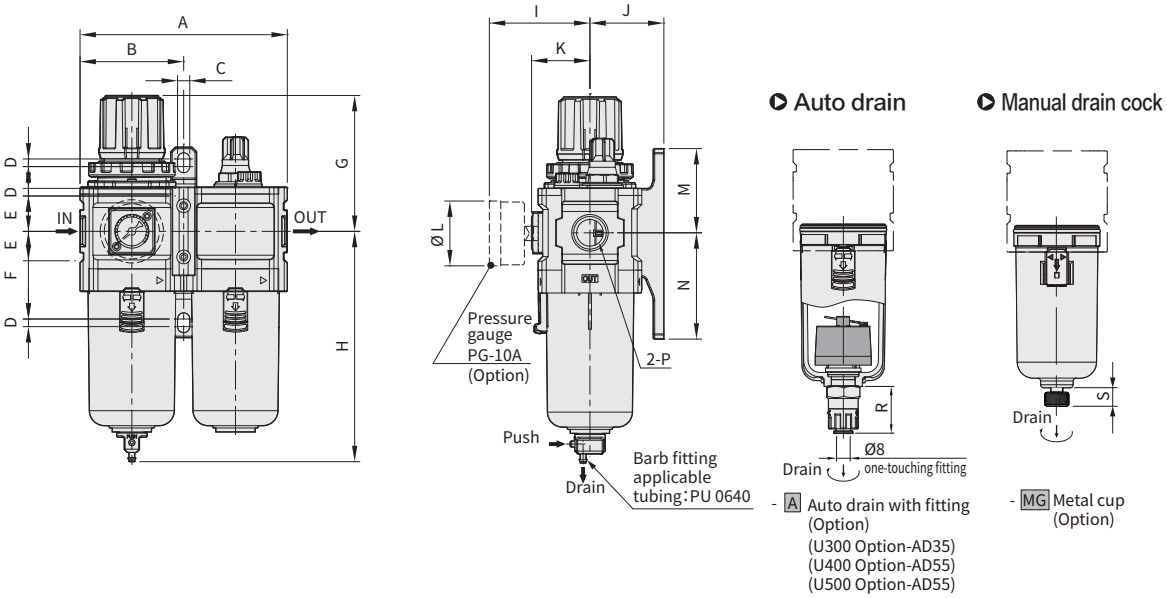
### UFC 200 - W Standard




### UFC 300 ~ 500 - W Standard




Unit:mm

| Mark / Model | A | B | C | D | E | F | G | H | I | J | ØL | M | N | PG 22N pressure gauge | Pressure swtich | Auto drain | Manual drain cock | Female thread |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | K | K | R | S | P |
| UFC 200 | 80 | 40 | 4.5 | 2.5 | 32 | 35.5 | 35.5 | 114.5 | 51 | 30 | 27 | 39.4 | 42.9 | 26.7 | 40.2 | 13 | 3 | 1/8, 1/4 |
| UFC 300 | 108 | 54 | 4.5 | 5 | 37 | 47 | 77.6 | 137.1 | 56 | 38.1 | 42.5 | 47 | 57 | 31 | 44.5 | 34.5 | 12.6 | 1/4, 3/8 |
| UFC 400 | 136 | 68 | 7 | 5 | 42.5 | 57.5 | 89.2 | 151.1 | 66 | 48.5 | 42.5 | 55.3 | 69.8 | 38.3 | 51.8 | 34.5 | 12.6 | 1/4, 3/8, 1/2 |
| UFC 500 | 144 | 72 | 7 | 5 | 45.6 | 54.6 | 92.2 | 151.8 | 66 | 48.5 | 42.5 | 58.3 | 67.3 | 38.3 | 51.8 | 34.5 | 12.6 | 3/4 |