



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

F.R. combination

C1020/C2020/C2520 C3020/C4020/C6020/C8020-W-FP1 Series

Integrated filter and regulator

● Port size: Rc1/8 to Rc1

JIS symbol



Specifications

Item	C1020-W	C2020-W	C2520-W	C3020-W	C4020-W	C6020-W	C8020-W	
Appearance								
System components	Filter Regulator	F1000-W R1000-W	F2000-W R2000-W	F3000-W R2000-W	F3000-W R3000-W	F4000-W R4000-W	F6000-W R6000-W	F8000-W R8000-W
Working fluid	Compressed air							
Max. working pressure MPa	1.0 *2							
Proof pressure MPa	1.5							
Ambient/fluid temperatures °C	5 to 60 *1							
Degree of filtration µm	5							
Set pressure MPa	0.05 to 0.85 *2		0.05 to 0.85					
Pressure relief	With relief mechanism							
Drain capacity cm ³	12	25	45	45	80	80	80 (*3)	
Port size Rc *7	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	
Weight kg	0.28	0.64	0.65	0.79	1.25	2.07	2.93	
Standard accessories	Pressure gauge, bracket, bowl guard							

- *1: The ambient/fluid temperature of the digital pressure sensor with PPX attached "R2" is 5 to 50°C.
- *2: When using C1020 Series "F1" with auto-drain, the min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for F1000-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.
- *3: The max. capacity of the manual drain cock is 170cm³.
- *4: In the case of "F" with auto-drain, the min. working pressure of auto-drain is 0.1MPa. Air is purged with initial drainage until pressure reaches 0.1 MPa.
- *5: In the case of "F1" with auto-drain, the min. working pressure of auto-drain is 0.15MPa.
- *6: C2020-W Series with "F1" (with auto-drain) must be used at equal to or less than the max. working flow rate. (Refer to the F2000-W section (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for max. flow rate.)
- *7: NPT and G threads can be manufactured with CKD Sales.

Option weight

* Add to the weight of the standard accessories.

Unit:kg

Code	Drain discharge		Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	M	M1	T*	RN/RP	A6W	A8W	A10W	A15W	A20W	A25W	A32W
C1020		0.007			0	0.04	0.09	0.09	0.09				
C2020		0.02		0.1	0	0.04		0.16	0.16	0.16			
C2520		0.02	0.1	0.1	0	0.04		0.16	0.16	0.16			
C3020	0.02	0.02	0.1	0.1	0	0.04		0.16	0.16	0.16			
C4020	0.02	0.02	0.1	0.1	0	0.04		0.16	0.16	0.16	0.16		
C6020	0.02	0.02	0.1	0.1	0	0.04					0.53	0.53	0.53
C8020	0.02	0.02	0.1	0.1	0	0.04					0.53	0.53	0.53

Code	Pressure gauge					
	G45P	G49P	G59P	G40P	G52P	R2
C1020	0.074	0.086	0.115	0.085	0.15	0.04
C2020	0.074	0.086		0.085	0.15	0.04
C2520	0.074	0.086	0.115	0.085	0.15	0.04
C3020	0.074	0.086	0.115	0.085	0.15	0.04
C4020	0.074	0.086	0.115	0.085	0.15	0.04
C6020	0.074	0.086	0.115	0.085	0.15	0.04
C8020	0.074	0.086	0.115	0.085	0.15	0.04

F.R Combination

How to order

How to order

C1020 - **6** - **W** - **L** - **FP1** - **A6W** 

A Model No.

B Port size

C Option

E Pressure gauge option (included)

* Refer to Pneumatic, Vacuum and Auxiliary Components (CB-024SA) for options.

A Model No.						
C1020	C2020	C2520	C3020	C4020	C6020	C8020
●	●	●	●	●	●	●
●	●	●	●	●	●	●
				●	●	●
					●	●
					●	●

Code	Description	C1020	C2020	C2520	C3020	C4020	C6020	C8020
B Port size								
6	Rc1/8	●						
8	Rc1/4	●	●	●	●	●		
10	Rc3/8		●	●	●	●		
15	Rc1/2					●		
20	Rc3/4						●	●
25	Rc1						●	●

C Option			*2						
Drain discharge *3	Blank	Filter with manual drain cock	●	●	●	●	●	●	●
	F	Filter/auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●	●	●
	F1	Filter/auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●	●
Element	Blank	5 μm	●	●	●	●	●	●	●
	Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●	●	
Pressure Range	Blank	0.05 to 0.85 MPa	●	●	●	●	●	●	●
	L	0.05 to 0.35 MPa *4	●	●	●	●	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●	●	●	●	●
	N	Non-relief	●	●	●	●	●	●	●
Pressure gauge	Blank	With standard pressure gage (G401-W)	●	●	●	●	●	●	●
	T	No pressure gauge (gage port (1/4) is assembled sealed)	●	●	●	●	●	●	●
	T8	Pressure gauge ready (gage port (1/4) is left open)	●	●	●	●	●	●	●
	T6	Digital pressure sensor PPX attachment option*5	●	●	●	●	●	●	●
Flow direction	Blank	Standard flow (left → right)	●	●	●	●	●	●	●
	X1	IN/OUT reverse flow (right to left)	●	●	●	●	●	●	●

D Pipe adaptor set (attachments)

D Pipe adaptor set (attachments)		*6 Refer to CB-024SA						
Blank	Not included	●	●	●	●	●	●	●
A6W	Rc1/8 pipe adaptor set	●						
A8W	Rc1/4 pipe adaptor set	●	●	●	●	●		
A10W	Rc3/8 pipe adaptor set	●	●	●	●	●		
A15W	Rc1/2 pipe adaptor set		●	●	●	●		
A20W	Rc3/4 pipe adaptor set					●	●	●
A25W	Rc1 pipe adapter set						●	●
A32W	Rc1 1/4 pipe adapter set						●	●

E Pressure gauge option (attachment)		Refer to CB-024SA						
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●	●	●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *5	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

- *1: Pipe adapters (A400-20-W) are assembled on both ends of the C4020-20-W model. "A20W" does not need to be selected for the pipe adaptor set.
- *2: Select options for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: The pressure gauge's indication range is 0 to 0.4MPa for option "L".
- *5: When option "T6" is selected, only "Blank" or "R2" can be selected for  pressure gage (included). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.
- *6: The joiner set is attached with the pipe adapter set.

For dimensions, refer to the F.R. combination in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

Electric actuator
Pneumatic cylinders
Assistive device
Pneumatic valves
F.R./Auxiliary Components Electronic Component
Vacuum components
Main line components
Fluid control valves
Main line components
Anti-bacterial/bacteria-removing filter
Vacuum components
Fluid control valves



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

F.M.R. combination

C1030/C2030/C2530 C3030/C4030/C6030/C8030-W-FP1 Series

Integrated filter, oil mist filter and regulator

● Port size: Rc1/8 to Rc1



Specifications

Item	C1030-W	C2030-W	C2530-W	C3030-W	C4030-W	C6030-W	C8030-W
Appearance							
System components	Filter	F1000-W	F2000-W	F3000-W	F3000-W	F4000-W	F8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M8000-W
	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R8000-W
Working fluid	Compressed air						
Max. working pressure MPa	1.0 *3						
Proof pressure MPa	1.5						
Ambient/fluid temperatures °C	5 to 60						*2
Set pressure MPa	0.05 to 0.85 *3		0.05 to 0.85				
Pressure relief	With relief mechanism						
Port size Rc *7	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Weight kg	0.40	0.98	1.02	1.10	1.86	3.19	4.45
Secondary oil concentration (Oil mist filter outlet side)	0.01mg/m ³ Less than or equal to (0.1mg/m after oil saturation ³ or less)						
Max. flow rate (*1) m ³ /min	0.15	0.25	0.36	0.36	0.825	1.27	2.6

*1: The max. flow is for a primary pressure of 0.7MPa.

*2: The ambient/fluid temperature of the digital pressure sensor with PPX attached "R2" is 5 to 50°C.

*3: When using C1030-W Series "F1" with auto-drain, the NC auto-drain is provided with both the filter and oil mist filter. Min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for M1000-W-F1 auto-drain for the max. working flow rate.

*4: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters.

*5: In the case of "F" with auto-drain, the supply air pressure is 0.15 MPa or more. For the air filter auto-drain, air is purged with the initial drainage until pressure reaches 0.1 MPa.

*6: When "F1" with an auto-drain is selected, the filter, oil mist filter, and NC auto-drain are assembled, but the supply air pressure must be 0.15 MPa and over.

*7: NPT and G threads can be manufactured with CKD Sales.

Option weight

* Add to the weight of the standard accessories.

Unit:kg

Code	Drain discharge		Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	M	M1	T*	RN/RP	A6W	A8W	A10W	A15W	A20W	A25W	A32W
C1030		0.014			0	0.04	0.09	0.09	0.09				
C2030		0.04		0.2	0	0.04		0.16	0.16	0.16			
C2530		0.04	0.2	0.2	0	0.04		0.16	0.16	0.16			
C3030	0.04	0.04	0.2	0.2	0	0.04		0.16	0.16	0.16			
C4030	0.04	0.04	0.2	0.2	0	0.04		0.16	0.16	0.16	0.16		
C6030	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53
C8030	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53

Code	Pressure gauge					
	G45P	G49P	G59P	G40P	G52P	R2
C1030	0.074	0.086	0.115	0.085	0.15	0.04
C2030	0.074	0.086		0.085	0.15	0.04
C2530	0.074	0.086	0.115	0.085	0.15	0.04
C3030	0.074	0.086	0.115	0.085	0.15	0.04
C4030	0.074	0.086	0.115	0.085	0.15	0.04
C6030	0.074	0.086	0.115	0.085	0.15	0.04
C8030	0.074	0.086	0.115	0.085	0.15	0.04

F.M.R Combination

How to order

How to order

C1030 - **6** - **W** - **L** - **FP1** - **A6W** 

A Model No.

E Pressure gauge option (included)

B Port size

C Option

D Pipe adaptor set (attachments)

* Refer to Pneumatic, Vacuum and Auxiliary Components (CB-024SA) for options.

A Model No.						
C1030	C2030	C2530	C3030	C4030	C6030	C8030

Code	Description	C1030	C2030	C2530	C3030	C4030	C6030	C8030	
B Port size									
6	Rc1/8	●							
8	Rc1/4	●	●	●	●	●			
10	Rc3/8		●	●	●	●			
15	Rc1/2					●			
20	Rc3/4					●	●		
25	Rc1						●	●	

C Option			*2						
Drain discharge *3, *4	Blank	With manual drain cock	●	●	●	●	●	●	●
	F	Auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●	●	●
	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●	●
Element	Blank	5 μm	●	●	●	●	●	●	●
	Differential pressure detection	Blank Without differential pressure detection port	●	●	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●	●	
Pressure Range	Blank	0.05 to 0.85 MPa	●	●	●	●	●	●	●
	L	0.05 to 0.35 MPa *5	●	●	●	●	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●	●	●	●	●
	N	Non-relief	●	●	●	●	●	●	●
Pressure gauge	Blank	With standard pressure gage (G401-W)	●	●	●	●	●	●	●
	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●	●	●
	T6	Digital pressure sensor PPX attachment option *6	●	●	●	●	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●	●	●

D Pipe adaptor set (attachments)		*6 Refer to CB-024SA						
Blank	Not included	●	●	●	●	●	●	●
A6W	Rc1/8 pipe adaptor set	●						
A8W	Rc1/4 pipe adaptor set	●	●	●	●	●		
A10W	Rc3/8 pipe adaptor set	●	●	●	●	●		
A15W	Rc1/2 pipe adaptor set		●	●	●	●		
A20W	Rc3/4 pipe adaptor set					●	●	●
A25W	Rc1 pipe adaptor set						●	●
A32W	Rc1 1/4 pipe adaptor set						●	●

E Pressure gauge option (attachment)		Refer to CB-024SA						
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●	●	●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *6	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

- *1: Pipe adapters (A400-20-W) are assembled on both ends of the C4030-20-W model. "A20W" does not need to be selected for the pipe adaptor set.
- *2: Select options for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: When option code "F" is selected, the NO auto-drain is attached for the air filter and the NC auto-drain is attached for the oil mist filter. For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.
- *5: The pressure gauge's indication range is 0 to 0.4MPa for option "L".
- *6: When option "T6" is selected, only ", Blank" or "R2" can be selected for **E** Pressure gauge (attachment). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.
- *7: The joiner set is attached with the pipe adapter set.

For dimensions, refer to the F.M.R combination in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

Electric actuator
 Pneumatic cylinders
 Assistive device
 Pneumatic valves
 F.R./Auxiliary Components Electronic Component
 Vacuum components
 Main line components
 Fluid control valves
 Main line components
 Anti-bacterial/bacteria-removing filter
 Vacuum components
 Fluid control valves

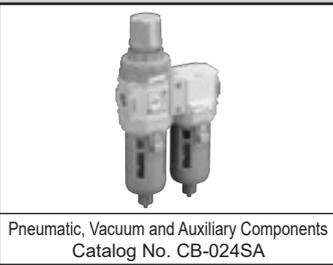
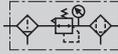
W.M. combination Standard White Series

C1040/C2040/C3040/C4040/C8040-W-FP1 Series

Filter/regulator and oil mist filter integrated.

● Port size: Rc1/8 to Rc1

JISCode



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Specifications

Item	C1040-W	C2040-W	C3040-W	C4040-W	C8040-W	
Appearance						
System components	Filter regulator Oil mist filter	W1000-W M1000-W	W2000-W M2000-W	W3000-W M3000-W	W4000-W M4000-W	W8000-W M8000-W
Working fluid	Compressed air					
Max. working pressure MPa	1.0 *3					
Proof pressure MPa	1.5					
Ambient/fluid temperatures °C	5 to 60				*2	
Set pressure MPa	0.1 to 0.85 *3	0.1 to 0.85 *5, *6				
Pressure relief	With relief mechanism					
Port size Rc	1/8, 1/4(3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	
Weight kg	0.31	0.74	0.97	1.52	3.52	
Secondary oil concentration	0.01mg/m ³ Less than or equal to (0.1mg/m after oil saturation ³ or less)					
Max. flow rate (*1) m ³ /min	0.15	0.25	0.36	0.825	2.6	

*1: Max. flow rate is for the regulator set pressure 0.7MPa.

*2: The ambient/fluid temperatures for "RN""RP" (pressure switch with display PPR is mounted) and "R2" (digital pressure sensor PPX is attached) are 5 to 50°C.

*3: When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for F1000-W-F1 auto-drain for the max.

*4: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters.

*5: In the case of "F" with auto-drain, the supply air pressure is 0.2 MPa or more. The minimum set pressure is 0.15 MPa. The supply air pressure of the auto-drain of the filter regulator is 0.1 MPa. Air is purged with initial drain until pressure reaches 0.1 MPa.

*6: In the case of "F1" with auto-drain, the supply air pressure is 0.2 MPa or more. The minimum set pressure is 0.15 MPa.

Option weight

* Add to the weight of the standard accessories.

Unit:kg

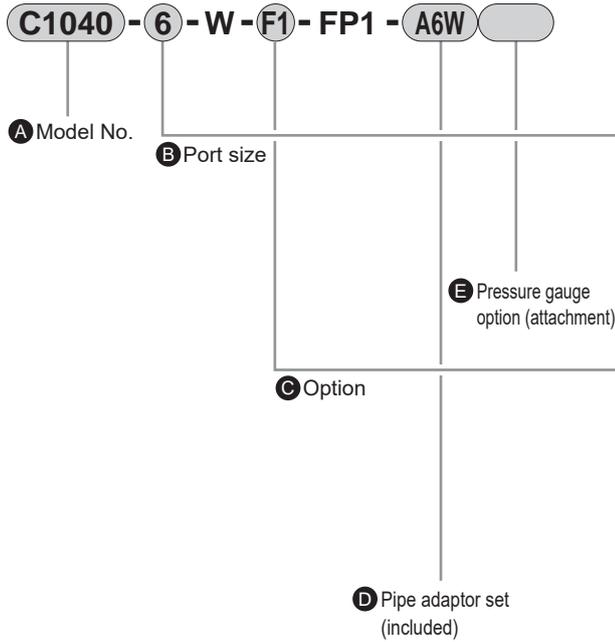
Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set						
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W
C1040		0.014					0	0.04	0.09	0.09	0.09				
C2040		0.04				0.2	0	0.04		0.16	0.16	0.16			
C3040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16			
C4040	0.04	0.04			0.2	0.2	0	0.04		0.16	0.16	0.16	0.16		
C8040	0.04	0.04	0.04	0.04	0.2	0.2	0	0.04					0.53	0.53	0.53

Code	Assembled components				Pressure gauge					
	S	P	V	K	G45P	G49P	G59P	G40P	G52P	R2
C1040	0.15		0.18		0.074	0.086	0.115	0.085	0.15	0.04
C2040	0.23	0.54	0.29	0.34	0.074	0.086		0.085	0.15	0.04
C3040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C4040	0.23	0.54	0.29	0.34	0.074	0.086	0.115	0.085	0.15	0.04
C8040	0.51			0.34	0.074	0.086	0.115	0.085	0.15	0.04

W.M Combination

How to order

How to order



* Refer to Pneumatic, Vacuum and Auxiliary Components (CB-024SA) for options.

Code		Description		A Model No.				
				C1040	C2040	C3040	C4040	C8040
B Port size								
6	Rc1/8	●						
8	Rc1/4	●		●				
10	Rc3/8			●	●			
15	Rc1/2						●	
20	Rc3/4						●	●
25	Rc1							●

C Option		*2					
Drain discharge *3, *4	Blank	With manual drain cock	●	●	●	●	●
	F	Auto-drain with manual override (NC: Exhaust when not pressurized)			●	●	●
	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●
	FF	Large auto-drain with manual override (NC: Exhaust when not pressurized)					●
	FF1	Large auto-drain with manual override (NC: No exhaust when not pressurized)					●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●
	M	Metal bowl			●	●	●
	M1	Metal bowl with manual drain cock			●	●	●
Element	Blank	5 μm	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●
Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●
Pressure Range	Blank	0.1 to 0.85 MPa	●	●	●	●	●
	L	0.1 to 0.35 MPa *5	●	●	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●	●	●
	N	Non-relief	●	●	●	●	●
Pressure gauge	Blank	With standard pressure gauge (G401-W)	●	●	●	●	●
	T	No pressure gauge (gauge port (1/4) is assembled sealed)	●	●	●	●	●
	T8	Pressure gauge ready (gauge port (1/4) is left open)	●	●	●	●	●
	T6	Digital pressure sensor PPX attachment option *6	●	●	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●

D Pipe adaptor set (attachments)		Refer to CB-024SA *7				
Blank	Not included	●	●	●	●	●
A6W	Rc1/8 pipe adaptor set	●				
A8W	Rc1/4 pipe adaptor set	●	●	●	●	
A10W	Rc3/8 pipe adaptor set	●	●	●	●	
A15W	Rc1/2 pipe adaptor set			●	●	
A20W	Rc3/4 pipe adaptor set					●
A25W	Rc1 pipe adapter set					●
A32W	Rc1 1/4 pipe adapter set					●

E Pressure gauge option (attachment)		Refer to CB-024SA				
Blank	Not included	●	●	●	●	●
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●
R2 *6	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●

⚠ Precautions for model No. selection

- *1: C4040-20-W has pipe adapters (A400-20*-W) assembled on both ends. "A20W" does not need to be selected for the pipe adapter set.
- *2: Select Items for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary components (CB-024SA)) for the auto-drain use conditions.
- *4: When option code "F" is selected, the NO auto-drain is included with the filter/regulator and the NC auto-drain is included with the oil mist filter. When option code "F1" is selected, the NC auto-drain is included with the filter/regulator oil mist filter. For "FF" and "FF1", only the filter/regulator has a large discharge rate. The oil mist filter is normal NC auto-drain.
- *5: The pressure gauge's indication range is 0 to 0.4MPa for option "L".
- *6: When option "T6" is selected, only ", Blank" or "R2" can be selected for **E** Pressure gauge (attachment). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.
- *7: The joiner set is attached with the pipe adapter set.

For dimensions, refer to the W.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".

Electric actuator
Pneumatic cylinders
Assistive device
Pneumatic valves
FRL/Auxiliary Components Electronic Component
Vacuum components
Main line components
Fluid control valves
Main line components
Anti-bacterial/bacteria-removing filter
Vacuum components
Fluid control valves



R.M. combination Standard White Series

**C1050/C2050/C2550
C3050/C4050/C6050/C8050-W-FP1 Series**

Integrated regulator and oil mist filter

● Port size: Rc1/8 to Rc1

JISCode



Specifications

Item	C1050-W	C2050-W	C2550-W	C3050-W	C4050-W	C6050-W	C8050-W	
Appearance								
System components	Regulator	R1000-W	R2000-W	R2000-W	R3000-W	R4000-W	R6000-W	R8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid	Compressed air							
Max. working pressure MPa	1.0 *3							
Proof pressure MPa	1.5							
Ambient/fluid temperatures °C	5 to 60					*2		
Set pressure MPa	0.1 to 0.85 *3		0.1 to 0.85 *4					
Pressure relief	With relief mechanism							
Port size Rc	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	
Weight kg	0.29	0.65	0.66	0.82	1.32	2.12	3.12	
Secondary oil concentration	0.01mg/m ³ Less than or equal to (0.1mg/m after oil saturation ³ or less)							
Max. flow rate (*1) m ³ /min	0.15	0.25	0.36	0.36	0.825	1.27	2.6	

*1: Max. flow rate is for the regulator set pressure 0.7 MPa.

*2: Pressure switch with display PPR assembly "RN" The ambient/fluid temperature of "RP" and "R2" with digital pressure sensor PPX attached is 5 to 50°C.

*3: When using C1040-W Series "F1" with auto-drain, the min. working pressure is 0.2MPa and max. working pressure is 0.7MPa. Refer to the max. working flow rate table (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for F1000-W-F1 auto-drain for the max. working flow rate. Set the working flow rate to less than or equal to the max. working flow rate.

*4: The supply air pressure is 0.2 MPa and over with a min. set pressure of 0.15 MPa.

*5: In the case of "F1" with auto-drain, the supply air pressure is 0.2MPa or more. The minimum set pressure is 0.15 MPa.

Option weight

* Add to the weight of the standard accessories.

Unit:kg

Code	Drain discharge				Bowl material		Pressure gauge		Pipe adaptor set			
	F	F1	FF	FF1	M	M1	T*	RN/RP	A6*W	A8*W	A10*W	A15*W
C1050		0.007					0	0.04	0.09	0.09	0.09	
C2050		0.02				0.1	0	0.04		0.16	0.16	0.16
C2550		0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C3050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C4050	0.02	0.02			0.1	0.1	0	0.04		0.16	0.16	0.16
C6050	0.02	0.02			0.1	0.1	0	0.04				
C8050	0.02	0.02	0.02	0.02	0.1	0.1	0	0.04				

Code	Pipe adaptor set			Pressure gauge					
	A20*W	A25*W	A32*W	G45P	G49P	G59P	G40P	G52P	R2
C1020				0.074	0.086	0.115	0.085	0.15	0.04
C2020				0.074	0.086		0.085	0.15	0.04
C2520				0.074	0.086	0.115	0.085	0.15	0.04
C3020				0.074	0.086	0.115	0.085	0.15	0.04
C4020	0.16			0.074	0.086	0.115	0.085	0.15	0.04
C6020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04
C8020	0.53	0.53	0.53	0.074	0.086	0.115	0.085	0.15	0.04

R.M Combination

How to order

How to order

C1050 - **6** - **W** - **L** - **FP1** - **A6W** - 

A Model No.

B Port size

C Option

D Pipe adaptor set (attachments)

E Pressure gauge option (attachment)

* Refer to Pneumatic, Vacuum and Auxiliary Components (CB-024SA) for options.

		A Model No.						
		C1050	C2050	C2550	C3050	C4050	C6050	C8050
Code	Description							
B Port size								
6	Rc1/8	●						
8	Rc1/4	●	●	●	●	●		
10	Rc3/8		●	●	●			
15	Rc1/2					●		
20	Rc3/4					●	●	●
25	Rc1						●	●
C Option *2								
Drain discharge *3	Blank	Filter with manual drain cock	●	●	●	●	●	●
	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●
Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)					●	●
Pressure Range	Blank	0.1 to 0.85 MPa	●	●	●	●	●	●
	L	0.1 to 0.35 MPa *4	●	●	●	●	●	●
Pressure relief	Blank	With relief mechanism	●	●	●	●	●	●
	N	Non-relief	●	●	●	●	●	●
Pressure gauge	Blank	With standard pressure gage (G401-W)	●	●	●	●	●	●
	T	No pressure gauge (gage port (1/4) is assembled sealed)	●	●	●	●	●	●
	T8	Pressure gauge ready (gage port (1/4) is left open)	●	●	●	●	●	●
	T6	Digital pressure sensor PPX attachment option*5	●	●	●	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●	●
D Pipe adaptor set (attachments) Refer to CB-024SA *6								
Blank	Not included	●	●	●	●	●	●	●
A6W	Rc1/8 pipe adaptor set	●						
A8W	Rc1/4 pipe adaptor set	●	●	●	●	●		
A10W	Rc3/8 pipe adaptor set	●	●	●	●	●		
A15W	Rc1/2 pipe adaptor set		●	●	●	●		
A20W	Rc3/4 pipe adaptor set					●	●	●
A25W	Rc1 pipe adapter set						●	●
A32W	Rc1 1/4 pipe adapter set						●	●
E Pressure gauge option (attachment) Refer to CB-024SA								
Blank	Not included	●	●	●	●	●	●	●
G45P	G45D-8-P10 (L: G45D-8-P04)	●	●	●	●	●	●	●
G49P	G49D-8-P10(L:G49D-8-P04)	●	●	●	●	●	●	●
G59P	G59D-8-P10(L:G59D-8-P04)	●		●	●	●	●	●
G40P	G40D-8-P10(L:G40D-8-P04)	●	●	●	●	●	●	●
G52P	G52D-8-P10(L:G52D-8-P10)	●	●	●	●	●	●	●
R2 *5	Digital pressure sensor: PPX-R10N-6M	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

- *1: C4050-20-W has pipe adapters (A400-20*-W) assembled on both ends. "A20W" does not need to be selected for the pipe adapter set.
- *2: Select items for the drainage, bowl material, element, differential pressure detection and regulator. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: The pressure gauge's indication range is 0 to 0.4MPa for option "L".
- *5: When option "T6" is selected, only "Blank" or "R2" can be selected for **E** Pressure gage (attachment). The digital pressure sensor PPX mounting port (Rc1/8) is assembled open.
- *6: The joiner set is included with the pipe adapter set.

For dimensions, refer to the R.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

F.M. combination

C1060/C2060/C3060/ C4060/C6060/C8060-W-FP1 Series

Filter and oil mist filter integrated.

● Port size: Rc1/8 to Rc1

JISCode



Specifications

Item	C1060-W	C2060-W	C3060-W	C4060-W	C6060-W	C8060-W	
Appearance							
System components	Filter	F1000-W	F2000-W	F3000-W	F4000-W	F6000-W	F8000-W
	Oil mist filter	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
Working fluid	Compressed air						
Max. working pressure MPa	1.0 *2, 3, 4						
Proof pressure MPa	1.5 *2						
Ambient/fluid temperatures °C	5 to 60						
Port size Rc *6	1/8, 1/4 (3/8 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	
Weight kg	0.22	0.58	0.62	1.06	2.02	2.68	
Secondary oil concentration	0.01mg/m ³ Less than or equal to (0.1mg/m after oil saturation ³ or less)						
Max. flow rate (*1) m ³ /min	0.15 *2	0.25	0.36	0.825	1.27	2.6	

*1: The max. flow is for a primary pressure of 0.7 MPa.

*2: When "F1" with auto-drain is selected, the NC auto-drain is provided with both the filter and oil mist filter. The min. working pressure is 0.2MPa, the max. working pressure is 0.7MPa and the proof pressure is 1.05MPa. For the max. working flow rate, refer to the max. working flow rate table of M1000-W-F1 with auto-drain (Pneumatic, Vacuum, and Auxiliary components (CB-024SA)). The working flow must be less than the max. working flow.

*3: In the case of "F" with auto-drain, the supply air pressure is 0.15MPa or more. For the air filter auto-drain, air is purged with the initial drainage until pressure reaches 0.1 MPa.

*4: In the case of "F1" with auto-drain, the required supply air pressure is 0.15MPa or more.

*5: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for details on other oil mist filters.

*6: Contact CKD for the NPT and G threads.

Option weight

* Add to the weight of the standard accessories.

Unit:kg

Code	Drain discharge		Bowl material		Pipe adaptor set						
	F	F1	M	M1	A6W	A8W	A10W	A15W	A20W	A25W	A32W
C1060		0.014			0.09	0.09	0.09				
C2060		0.04		0.2		0.16	0.16	0.16			
C3060	0.04	0.04	0.2	0.2		0.16	0.16	0.16			
C4060	0.04	0.04	0.2	0.2		0.16	0.16	0.16			
C6060	0.04	0.04	0.2	0.2					0.53	0.53	0.53
C8060	0.04	0.04	0.2	0.2					0.53	0.53	0.53

F.M Combination

How to order

How to order

C1060 - **6** - **W** - **Z** - **FP1** - **A6W**

A Model No.

B Port size

D Pipe adaptor set (attachments)

C Option

* Refer to Pneumatic, Vacuum and Auxiliary Components (CB-024SA) for options.

Code	Content	Volume	A Model No.					
B Port size			C1060	C2060	C3060	C4060	C6060	C8060
6	Rc1/8		●					
8	Rc1/4		●	●	●	●		
10	Rc3/8			●	●	●		
15	Rc1/2					●		
20	Rc3/4					●	●	
25	Rc1					●	●	

C Option			*2					
Drain discharge *3, *4	Blank	With manual drain cock	●	●	●	●	●	●
	F	Auto-drain with manual override (NO: Exhaust when not pressurized)			●	●	●	●
	F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●	●
	M	Metal bowl			●	●	●	●
	M1	Metal bowl with manual drain cock		●	●	●	●	●
Element	Blank	5 μm	●	●	●	●	●	●
	Differential pressure detection	Blank	Without differential pressure detection port	●	●	●	●	●
		Q	With differential pressure detection port (Rc1/4)				●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●	●	●	●
	X1	Reverse flow (right → left)	●	●	●	●	●	●

D Pipe adaptor set (attachments)		*5 Refer to CB-024SA					
Blank	Not included	●	●	●	●	●	●
A6W	Rc1/8 pipe adaptor set	●					
A8W	Rc1/4 pipe adaptor set	●	●	●	●		
A10W	Rc3/8 pipe adaptor set	●	●	●	●		
A15W	Rc1/2 pipe adaptor set		●	●	●		
A20W	Rc3/4 pipe adaptor set					●	●
A25W	Rc1 pipe adaptor set					●	●
A32W	Rc1 1/4 pipe adaptor set					●	●

⚠ Precautions for model No. selection

- *1: C4060-20-W has pipe adapters (A400-20-W) assembled on both ends. "A20W" does not need to be selected for the pipe adapter set.
- *2: Select Items for the drainage, bowl material, element and differential pressure detection. When selecting options for several items, list options in order from the top.
- *3: Refer to (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)) for the auto-drain use conditions.
- *4: When option code "F" is selected, the NO auto-drain is supplied with the air filter and the NC auto-drain is supplied with the oil mist filter. When option code "F1" is selected, the NC auto-drain is included with the air filter and oil mist filter. For "FF" and "FF1", only the filter has a large discharge rate. The oil mist filter is normal NC auto-drain.
- *5: The joiner set is attached with the pipe adapter set.

FP1
Electric actuator
Pneumatic cylinders
Assistive device
Pneumatic valves
FRL/Auxiliary Components Electronic Component
Vacuum components
Main line components
Fluid control valves
Main line components
Anti-bacterial/bacteria-removing filter
Vacuum components
Fluid control valves
FP2

For dimensions, refer to the F.M. combination in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".