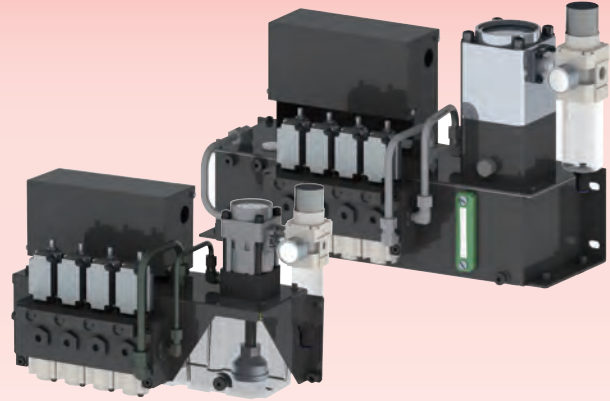


Hydraulic Unit

5 ℓ / 10 ℓ Tank

Model CP□ M-GH / CP□ N-GRH

Model CQ□ M-GH / CQ□ N-GRH



Converts Factory Compressed Air into Hydraulic Pressure.

Compact Hydraulic Unit Composed of Pump, Non-Leak Valve, Pressure Relief Valve, Pressure Switch and Oil Tank

● Applicable Clamp Models

GA

GD

GBB

GBE

GBC

GBF

GBP

GBQ

RA

● Energy Saving

The pump drives (consumes the air pressure) only during pressurization. After the pressurization, air pressure and hydraulic pressure reach equilibrium and the pump stops. Air consumption is zero after the pressurization is completed.

● Maintains Hydraulic Pressure with Non-Leak Valve

Non-leak valve (BA valve) maintains hydraulic pressure even when air supply is stopped preventing the die from falling.

● Maintains Set Pressure with Pressure Relief Valve ※ Only when selecting the pressure relief valve.

The set pressure: 25MPa is maintained by the pressure relief valve (BR valve) even when hydraulic pressure rises during the press machine operation.

● Pressure Supply when Hydraulic Pressure Decreases

The pump drives and supplies pressure when the hydraulic pressure in the circuit decreases because of the temperature reduction etc. This ensures a constant clamping force.

● A Wide Range of Variations

Select a tank from 5 ℓ and 10 ℓ and a pump from four variations for the most suitable hydraulic unit according to the clamp system.

※ 2 ℓ Tank is available only for CP2□ / CR2□. (Please refer to CATALOG No. QDCS2013-01-GB.)

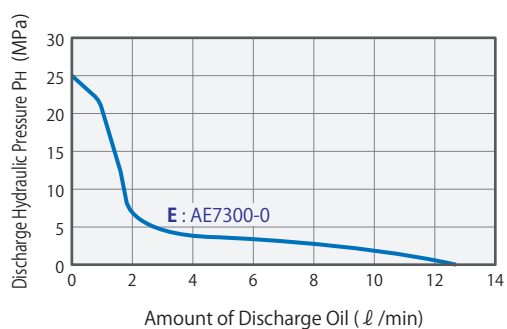
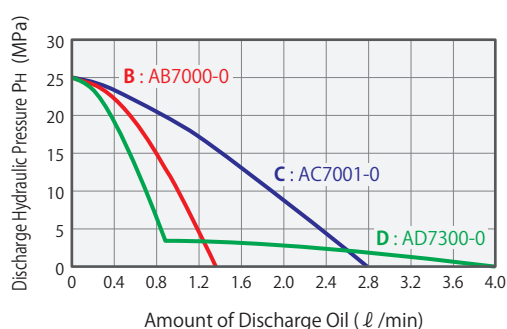
Specifications

Model No.	CPBM000	CPBN000	CPDM000	CPDN000	CPCM000	CPCN000	CPEM000	CPEN000	CQCM000	CQCN000	CQEM000	CQEN000		
Working Hydraulic Pressure	MPa 25													
Withstanding Pressure	MPa 37													
Tank Capacity	ℓ 5 ℓ (Actual Amount for Use 3.7 ℓ : H.L.5 ℓ -L.L.1.3 ℓ)									10 ℓ (Actual Amount for Use 7 ℓ : H.L.10 ℓ -L.L.3 ℓ)				
Operating Temperature	°C 0 ~ 70													
Use Frequency	Less than 20 Cycles / Day Pressure Rising Time : Less than 2.5 min. / Cycle													
Main Components	Pump	Model No.	AB7000-0		AD7300-0		AC7001-0		AE7300-0		AC7001-0		AE7300-0	
		Set Discharge Pressure MPa	25	22.5	25	22.5	25	22.5	25	22.5	25	22.5	25	22.5
		Discharge Oil under No Load ℓ /min	1.36	1.32	4.00	3.74	2.79	2.70	12.7	12.5	2.79	2.70	12.7	12.5
		Set Air Pressure MPa	0.45	0.41	0.45	0.41	0.47	0.43	0.47	0.43	0.47	0.43	0.47	0.43
	Air Consumption m ³ (normal)/min	max. 0.4		max. 0.4		max. 1.0		max. 1.0		max. 1.0		max. 1.0		
	Suction	Model No.	JF1030		JF1030		JF1030		JF1040		JF1030		JF1040	
		Filtration Degree	174 μm (100 Mesh)											
	Non-Leak Valve	Model No.	BA5011-0	BA5011-0	BA5011-0	BA5011-0	BA5011-0	BA5011-0	BA5011-0	BA5011-0	BA5001-0	BA5001-0	BA5001-0	
			BA5R11-0	BA5R11-0	BA5R11-0	BA5R11-0	BA5R11-0	BA5R11-0	BA5R11-0	BA5R11-0	BA5R01-0	BA5R01-0	BA5R01-0	
	Pressure Switch (For Clamp)	Model No.	JBA2700-0G											
		Operation Mode/Set Pressure MPa	INC. 17.6											
	Pressure Switch (For Die Lifter)	Model No.	JBA0700-0G											
Operation Mode/Set Pressure MPa		DEC. 2.94												
Pressure Relief Valve	Model No.	-	BR5N11-0	-	BR5N11-0	-	BR5N11-0	-	BR5N11-0	-	BR5N11-0	-	BR5N11-0	
	Set Pressure MPa	-	25 ⁺² ₀	-	25 ⁺² ₀	-	25 ⁺² ₀	-	25 ⁺² ₀	-	25 ⁺² ₀	-	25 ⁺² ₀	

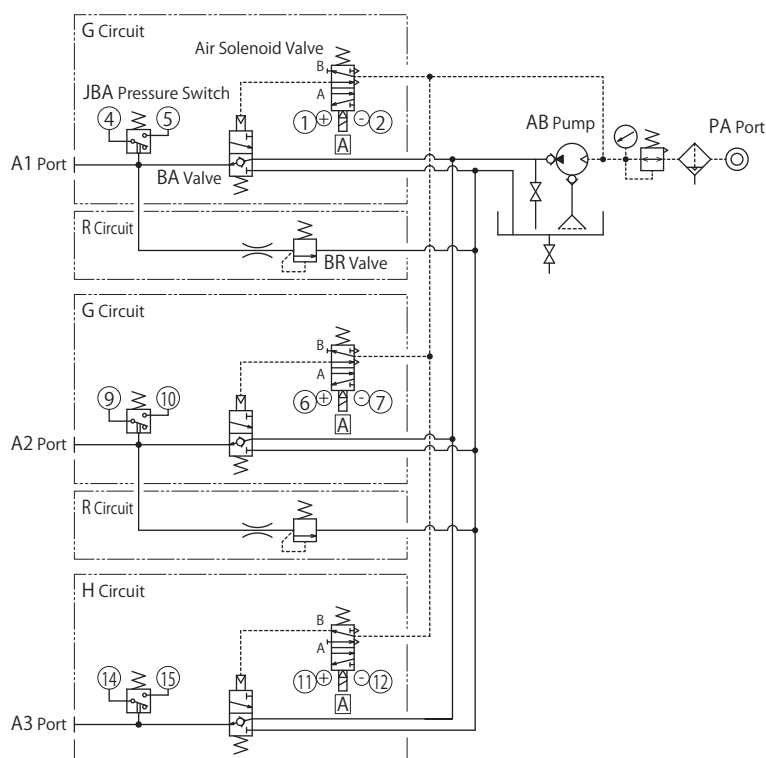
Notes:

1. If hydraulic viscosity is higher than specified, action time will be longer. Please use equivalent hydraulic oil to ISO-VG-32.
2. If using it at low temperature, action time will be longer because the viscosity of hydraulic oil becomes higher.
3. When setting a pressure gauge to a hydraulic circuit, install a damper or use an oil-filled (glycerin) pressure gauge in order to prevent damage caused by pressure surging.
4. Provide enough space at the top of the unit taking into consideration the maintenance of the pump.

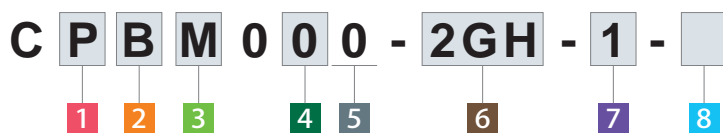
Pump Performance Curve



Circuit Symbol This shows the circuit symbol of CPBN0□0-2GRH-5.



● Model No. Indication



1 Unit

- P : For Small/Medium Clamp (5 ℓ Tank)
- Q : For Large Clamp (10 ℓ Tank)

Note:

1. For Large Clamp Unit (10 ℓ Tank), only 2 Pump Model C: AC pump and E: AE pump can be installed.

2 Pump Model

- B : AB Pump
- D : AD Pump
- C : AC Pump
- E : AE Pump

Note:

1. B: AB Pump and D: AD Pump can be selected only when selecting 1 Unit P: For Small/Medium Clamp (5 ℓ Tank).

3 Pressure Code

- M : Working Pressure 25MPa, Pressure Switch Set Pressure INC. 17.6MPa, DEC. 2.94MPa
- N : Working Pressure 25MPa, Pressure Switch Set Pressure INC. 17.6MPa, DEC. 2.94MPa with Pressure Relief Valve

4 Fluid Code

- 0 : General Hydraulic Oil
- G : Water•Glycol (Iron Tank)
- S : Silicon Oil
- F : Fatty Acid Ester

8 Option

- Blank : Standard
- C : +Common
- D : Digital Pressure Sensor
- E : Without Filter Regulator
- F : Manual-Drain Filter Regulator
- G : With Primary Pressure Gauge
- H : With Piping Block on the Left
- J : With Air Regulator
- KO : With Pressure Gauge for Each Circuit (Without Primary Pressure Gauge)
- K1 : With Color Displayed Pressure Gauge for Each Circuit (Without Primary Pressure Gauge)
- KG0 : With Pressure Gauge for Each Circuit (With Primary Pressure Gauge)
- KG1 : With Color Displayed Pressure Gauge for Each Circuit (With Primary Pressure Gauge)
- L : With Pressure Switch Light
- N : Piping Port NPT Thread, Pressure Gauge in both PSI/MPa ^{※1}
- P : Pressure Gauge in both PSI/MPa
- Q0 : With Oil Level Switch (ON when Oil Level Drops)
- Q1 : With Oil Level Switch (OFF when Oil Level Drops)
- T : Iron Tank (CP□□: only 5 ℓ tank can be selected.) ^{※2}

5 Design No.

- 0 : Revision Number

6 Circuit Symbol (Indicate with the number of circuits and circuit symbol.)

- G : For Clamp Single Solenoid Valve
- H : For Die Lifter Single Solenoid Valve
- R : With Pressure Relief Valve

Note:

1. For R: Pressure Relief Valve 3 Pressure Code is "N".

7 Voltage Code

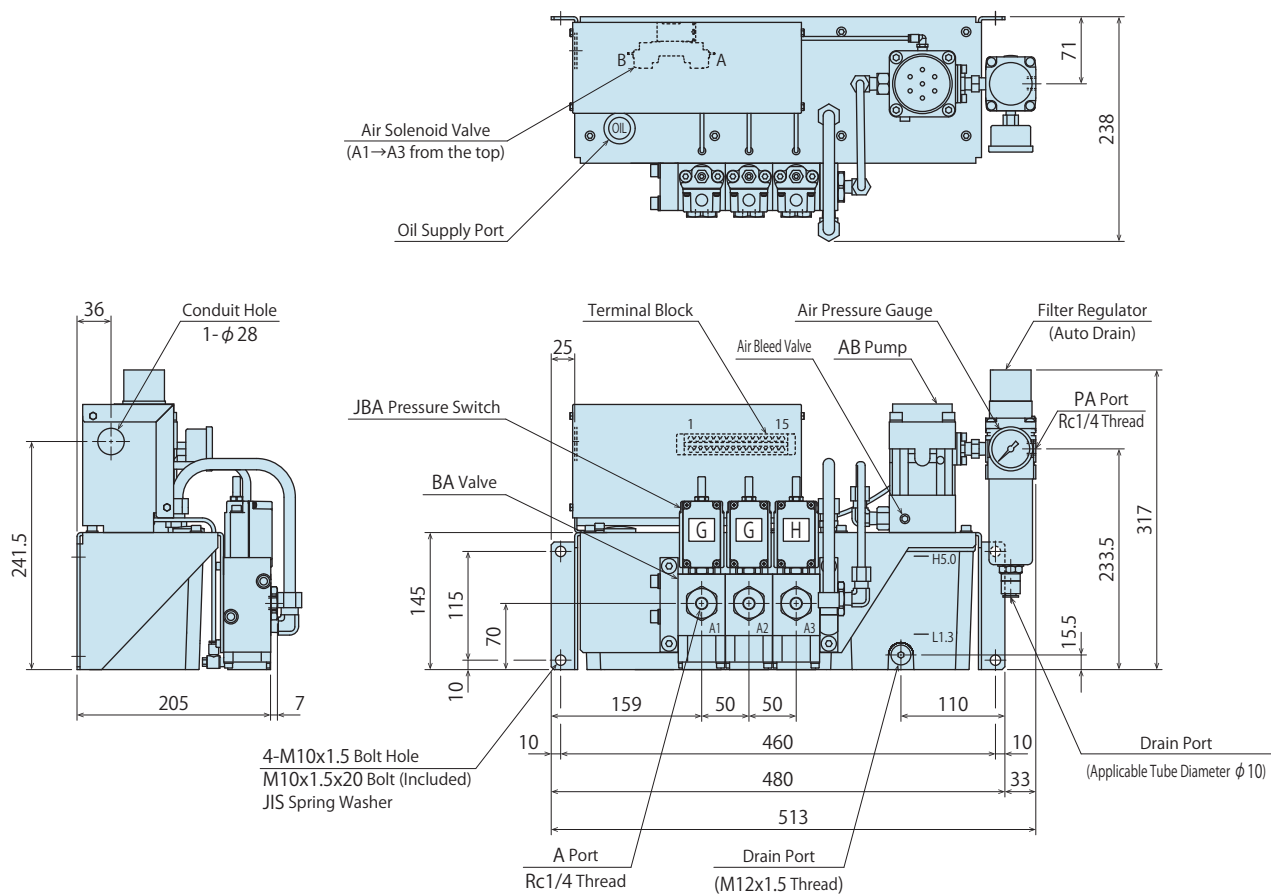
- 1 : AC100V (50/60Hz)
- 2 : AC200V (50/60Hz)
- 3 : AC110V (50/60Hz)
- 4 : AC220V (50/60Hz)
- 5 : DC24V

Notes:

- ※1. When selecting 8 Option N: Piping Port NPT Thread, dimensions in the specification sheet and other documents are in inches.
- ※2. Iron Tank is the standard option for CQ□□:10 ℓ Tank.
 1. Please contact us for specifications and external dimensions for these options.
 2. The external dimensions for five circuits and six circuits are different. Please contact us for detail.

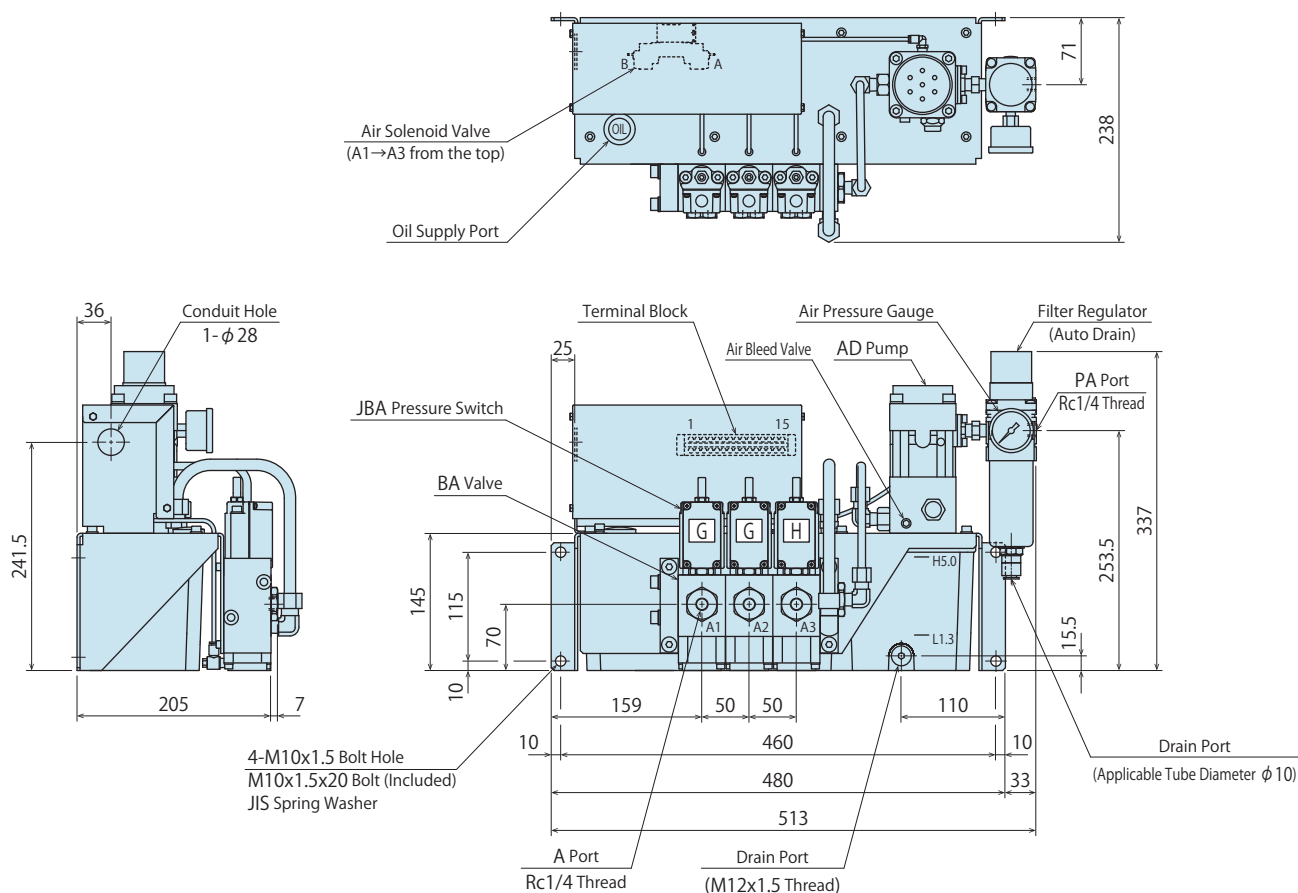
● **External Dimensions : CPB**

※ This drawing shows CPBM000-2GH standard model.
Please contact us for external dimensions for options.



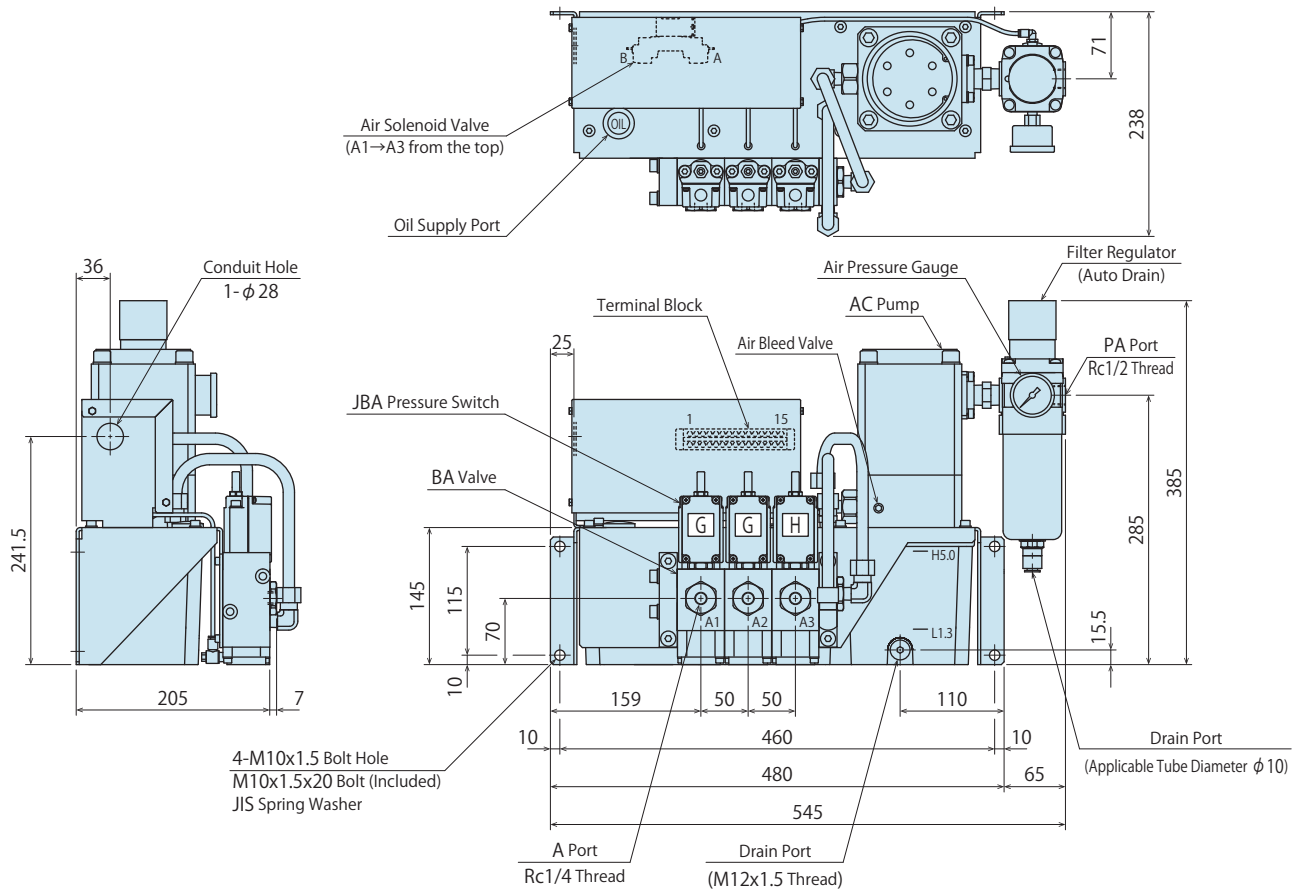
● **External Dimensions : CPD**

※ This drawing shows CPDM000-2GH standard model.
Please contact us for external dimensions for options.



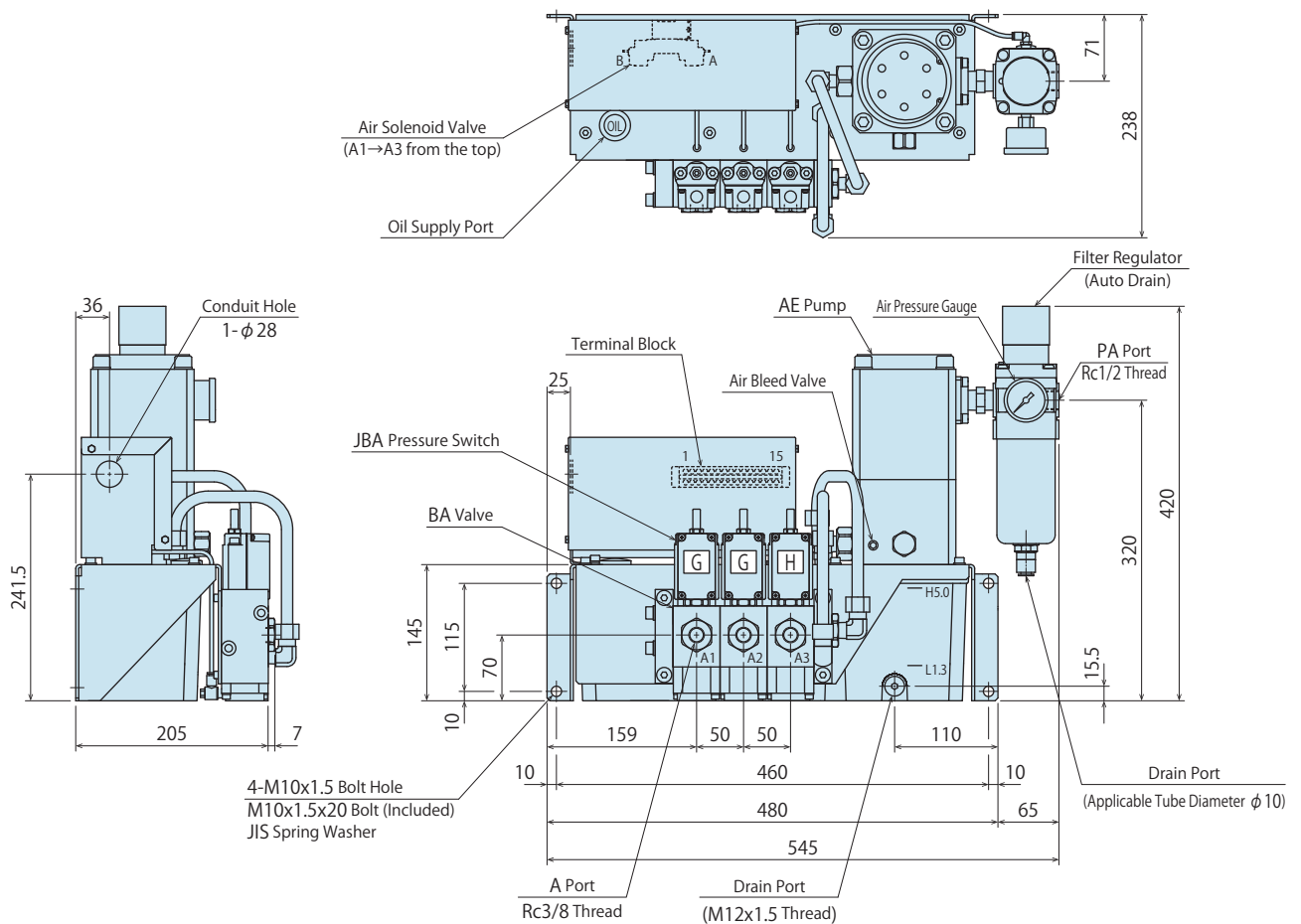
External Dimensions : CPC

※ This drawing shows CPCM000-2GH standard model.
Please contact us for external dimensions for options.



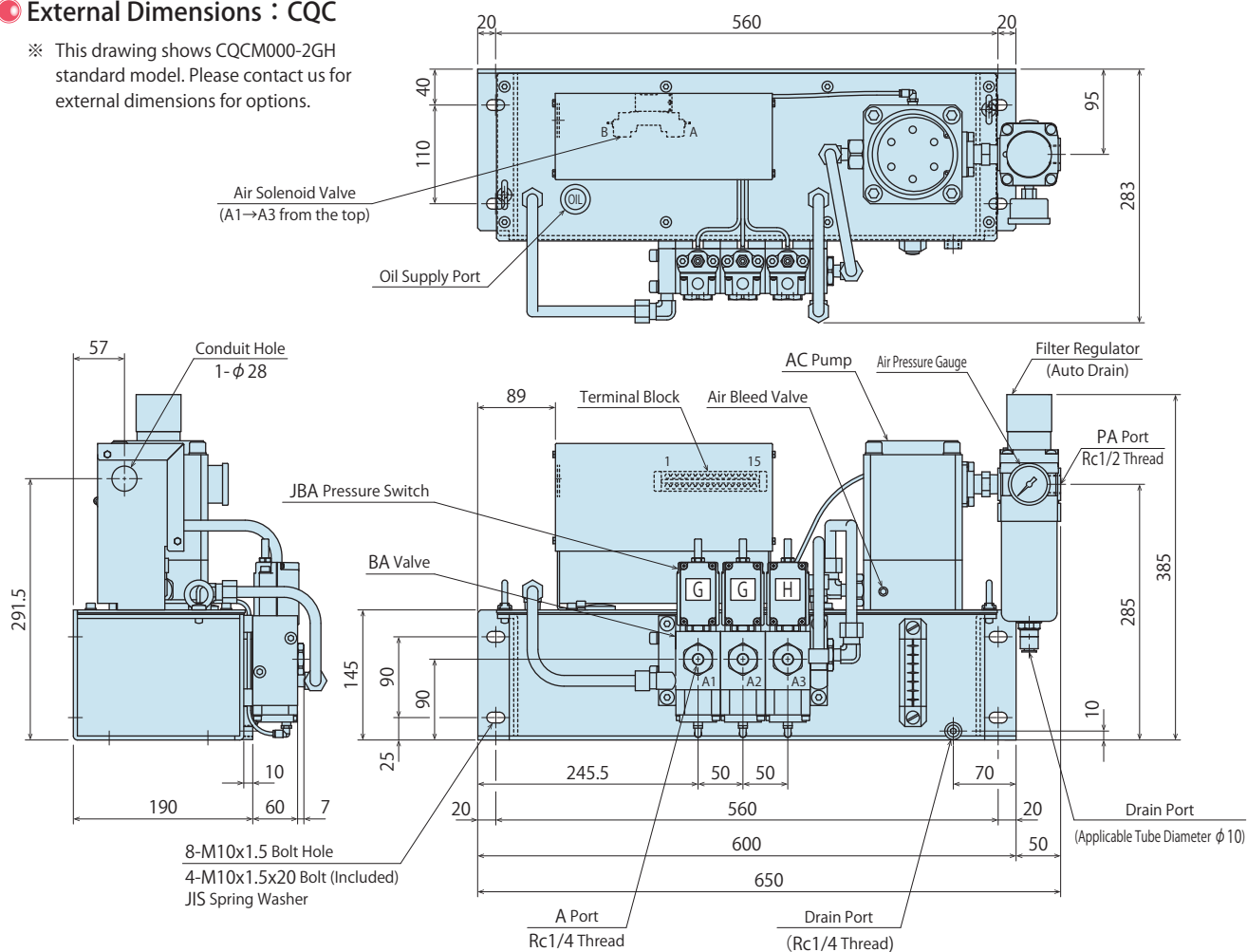
External Dimensions : CPE

※ This drawing shows CPEM000-2GH standard model.
Please contact us for external dimensions for options.



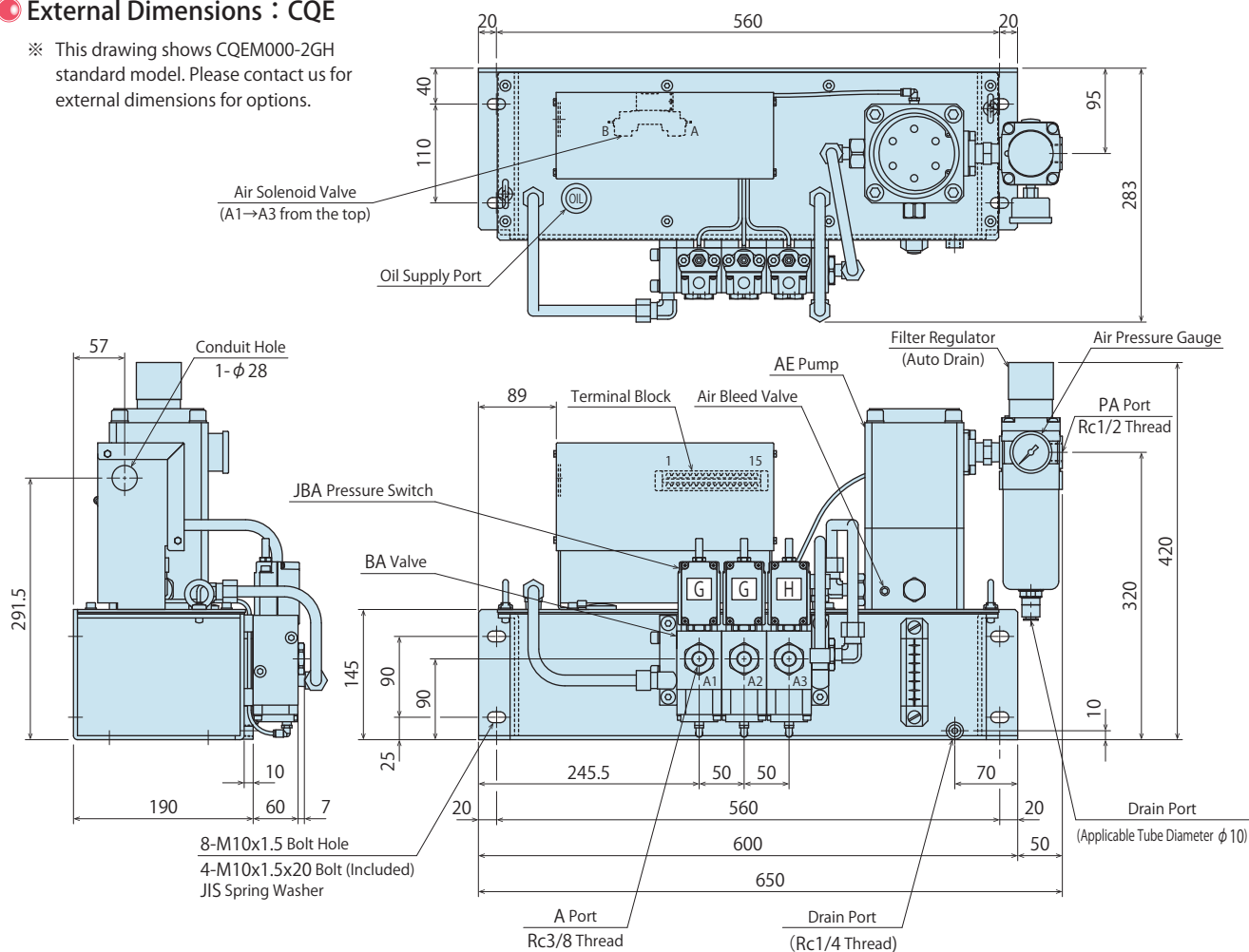
External Dimensions : CQC

※ This drawing shows CQCM000-2GH standard model. Please contact us for external dimensions for options.

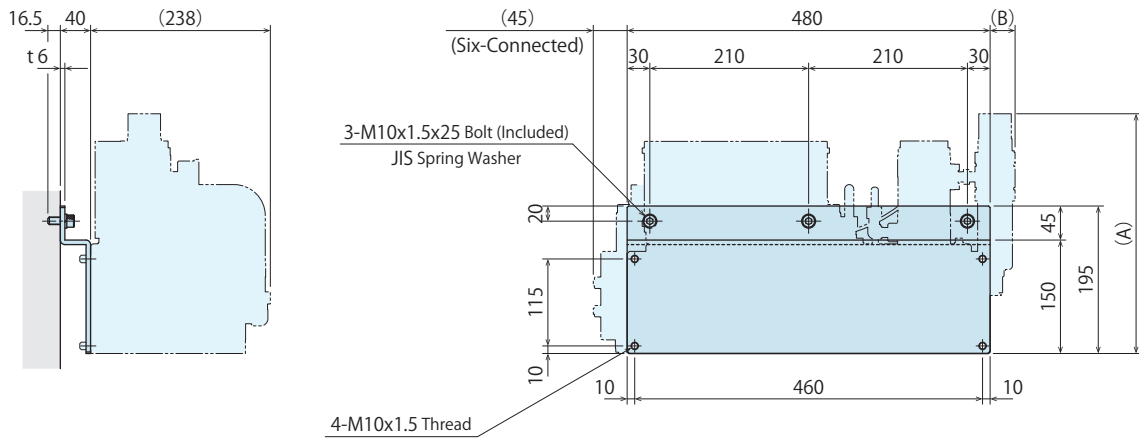


External Dimensions : CQE

※ This drawing shows CQEM000-2GH standard model. Please contact us for external dimensions for options.



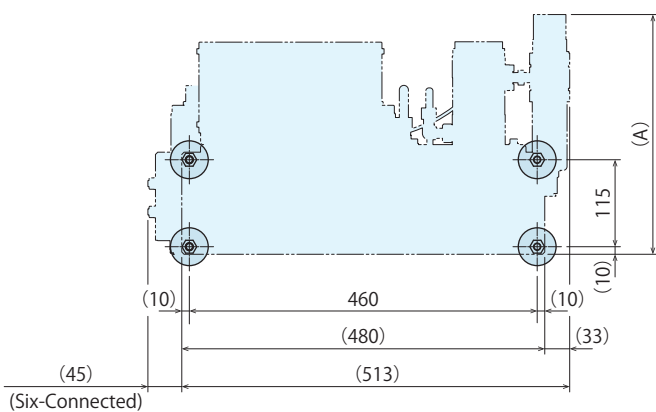
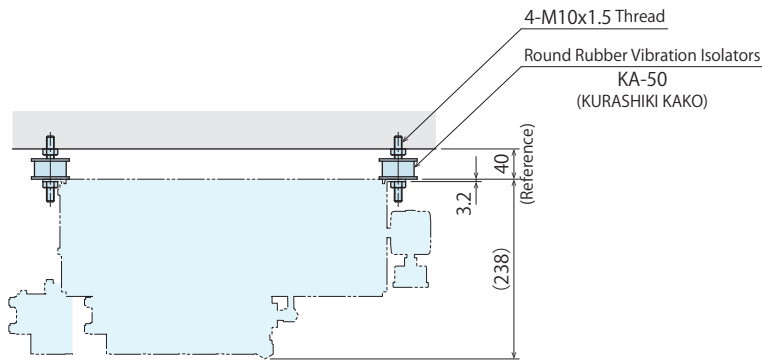
External Dimensions : CPSH000 (Wall Mounted)



(mm)

Hydraulic Unit Model No.	Dimension A	Dimension B
CPB	317	33
CPD	337	33
CPC	385	65
CPE	420	65

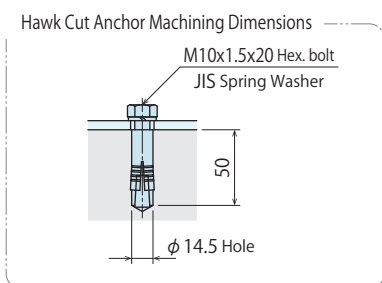
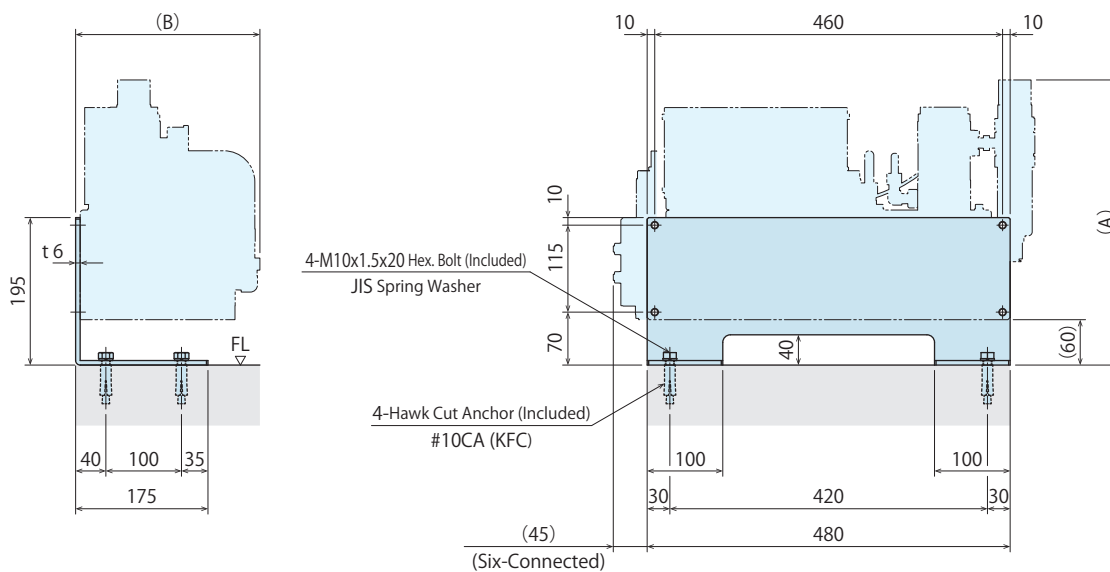
External Dimensions : CPSR000 (Anti-Vibration Rubber)



(mm)

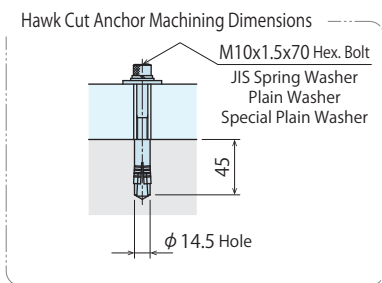
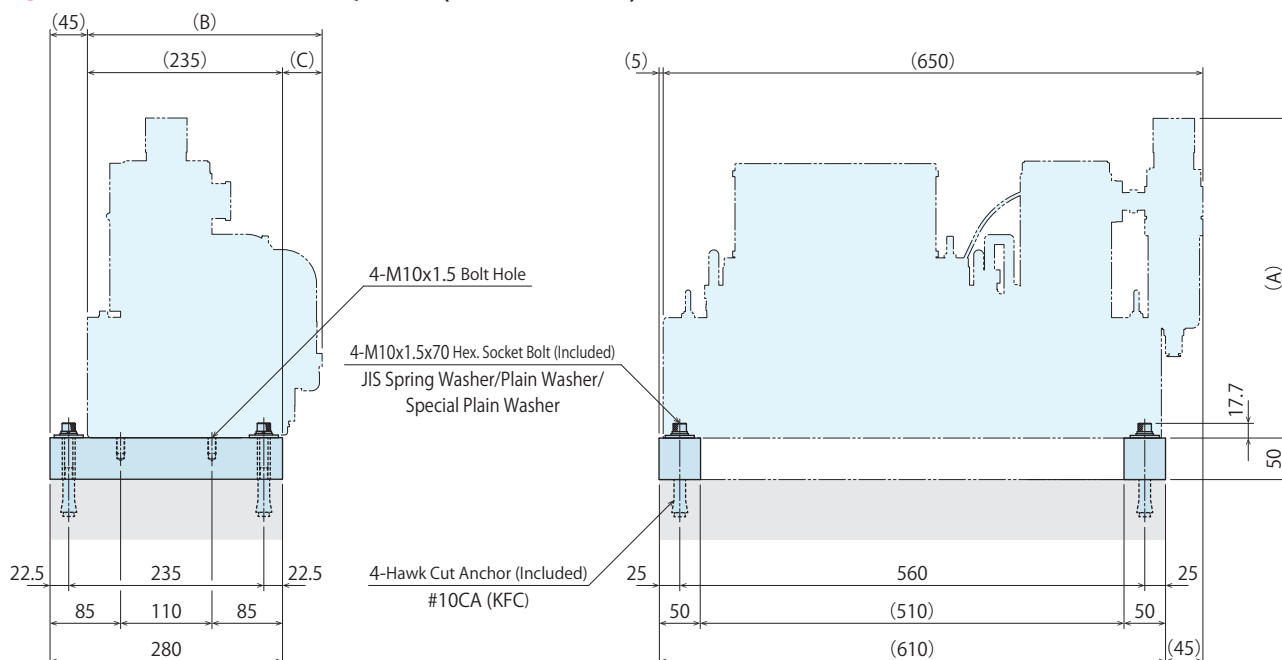
Hydraulic Unit Model No.	Dimension A
CPB	317
CPD	337
CPC	385
CPE	420

● External Dimensions : CPSV000 (Floor Mounted)



Hydraulic Unit Model No.	Dimension A	Dimension B
CPB	317	238
CPD	337	238
CPC	385	238
CPE	420	238

● External Dimensions : CQSV000 (Floor Mounted)



Hydraulic Unit Model No.	Dimension A	Dimension B	Dimension C
CQC	385	283	48
CQE	420	283	48

Sales Offices

Sales Offices across the World

Japan	TEL. +81-78-991-5162	FAX. +81-78-991-8787
Overseas Sales	KOSMEK LTD. 1-5, 2-chome, Murotani, Nishi-ku, Kobe-city, Hyogo, Japan 651-2241 〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
USA	TEL. +1-630-241-3465	FAX. +1-630-241-3834
KOSMEK (USA) LTD.	1441 Branding Avenue, Suite 110, Downers Grove, IL 60515 USA	
China	TEL.+86-21-54253000	FAX.+86-21-54253709
KOSMEK (CHINA) LTD. 考世美(上海)貿易有限公司	21/F, Orient International Technology Building, No.58, Xiangchen Rd, Pudong Shanghai 200122., P.R.China 中国上海市浦东新区向城路58号东方国际科技大厦21F室 200122	
Thailand	TEL. +66-2-715-3450	FAX. +66-2-715-3453
Thailand Representative Office	67 Soi 58, RAMA 9 Rd., Suanluang, Suanluang, Bangkok 10250, Thailand	
Taiwan (Taiwan Exclusive Distributor)	TEL. +886-2-82261860	FAX. +886-2-82261890
Full Life Trading Co., Ltd. 盈生貿易有限公司	16F-4, No.2, Jian Ba Rd., Zhonghe District, New Taipei City Taiwan 23511 台湾新北市中和區建八路2號 16F-4 (遠東世紀廣場)	
Philippines (Philippines Exclusive Distributor)	TEL.+63-2-310-7286	FAX. +63-2-310-7286
G.E.T. Inc, Phil.	Victoria Wave Special Economic Zone Mt. Apo Building, Brgy. 186, North Caloocan City, Metro Manila, Philippines 1427	
Europe (Europe Exclusive Distributor)	TEL. +43-463-287587-10	FAX. +43-463-287587-20
KOS-MECH GmbH	Schleppeplatz 2 9020 Klagenfurt Austria	
Indonesia (Indonesia Exclusive Distributor)	TEL. +62-21-5818632	FAX. +62-21-5814857
P.T PANDU HYDRO PNEUMATICS	Ruko Green Garden Blok Z- II No.51 Rt.005 Rw.008 Kedoya Utara-Kebon Jeruk Jakarta Barat 11520 Indonesia	

Sales Offices in Japan

Head Office	TEL.078-991-5115	FAX.078-991-8787
Osaka Sales Office	〒651-2241 兵庫県神戸市西区室谷2丁目1番5号	
Overseas Sales		
Tokyo Sales Office	TEL.048-652-8839	FAX.048-652-8828
	〒331-0815 埼玉県さいたま市北区大成町4丁目81番地	
Nagoya Sales Office	TEL.0566-74-8778	FAX.0566-74-8808
	〒446-0076 愛知県安城市美園町2丁目10番地1	
Fukuoka Sales Office	TEL.092-433-0424	FAX.092-433-0426
	〒812-0006 福岡県福岡市博多区上牟田1丁目8-10-101	