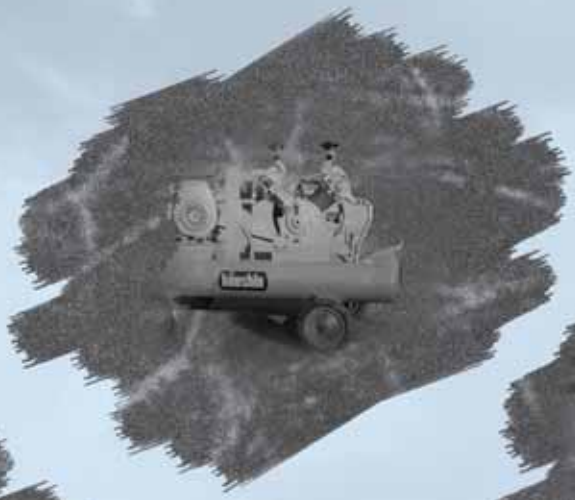
GRH 3 SERIES

SCREW COMPRESSORS

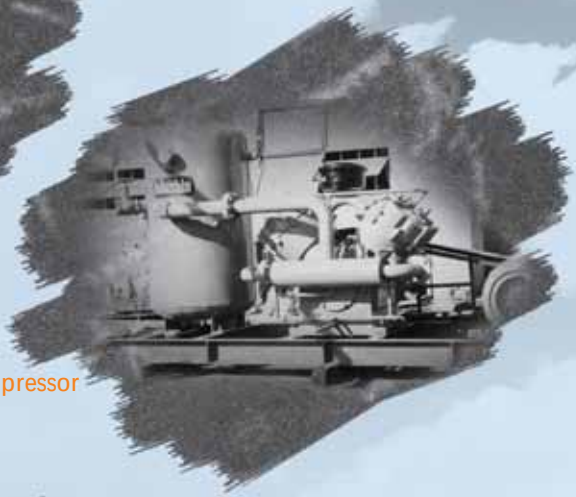
with

C-DRIVER / COSMOS SYSTEM

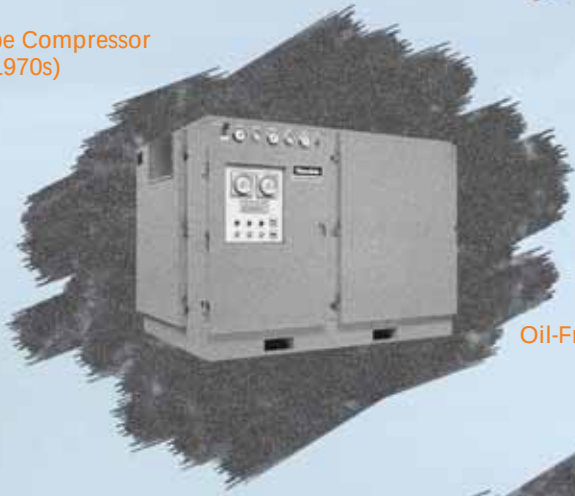
HANSHIN



Water-Cooled Piston Compressor
(1970s)

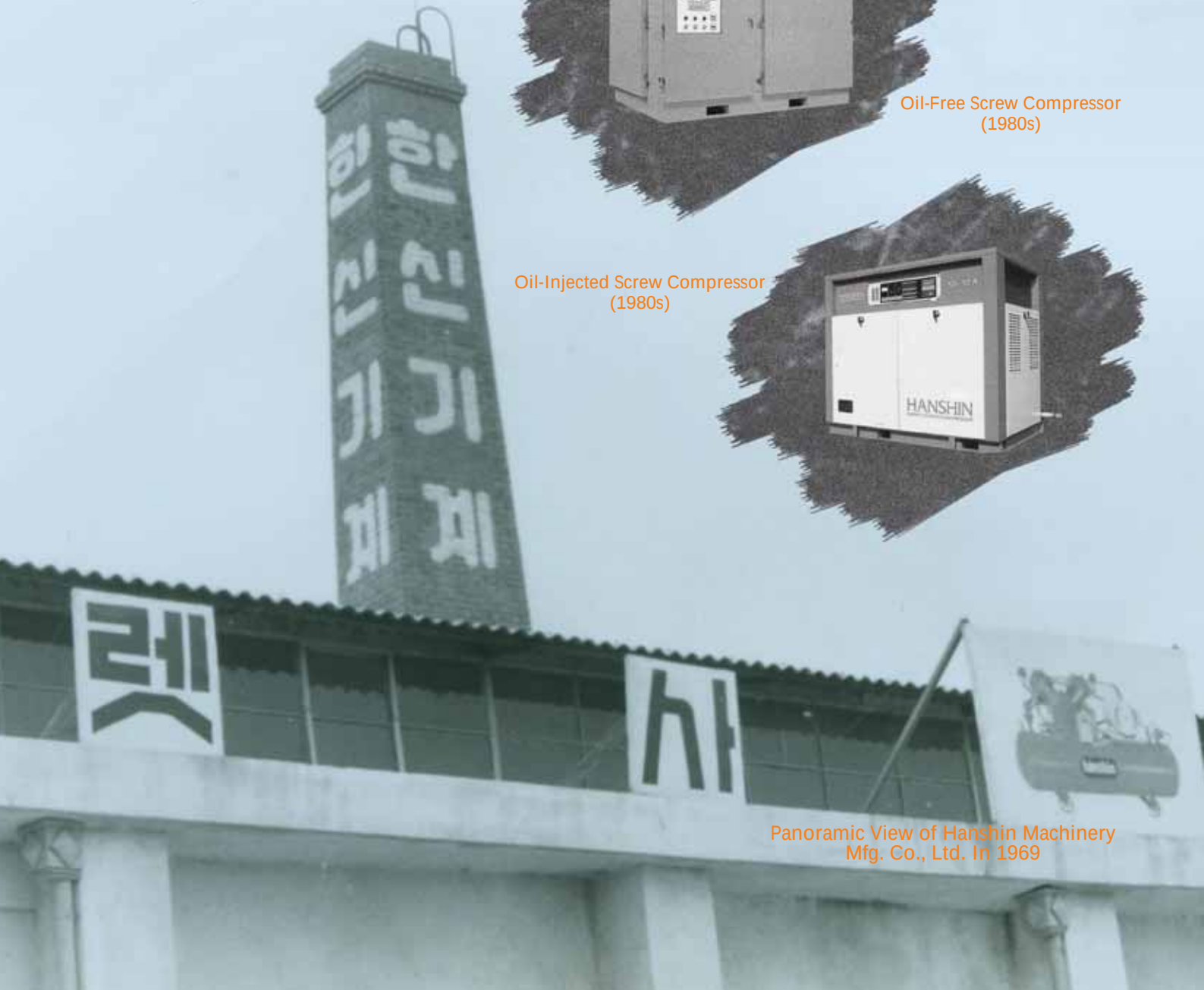


Piston Type Compressor
(1970s)



Oil-Free Screw Compressor
(1980s)

Oil-Injected Screw Compressor
(1980s)



Panoramic View of Hanshin Machinery
Mfg. Co., Ltd. In 1969

■ Ansan Factory, Korea

■ Jiaozhou Factory, China

THE HISTORY

The History of Hanshin is the History of the Air Compressors in Korea

Since its founding in 1969 under the name of Hanshin Machinery Mfg. Co., Ltd., Hanshin has led the Korean air compressor industry by marking many "first domestically made products in Korea," beginning with piston-type compressor in the 1970s, to the vane and screw compressors in the 1980s, and the oil-free screw compressor in 1983. Hanshin went public in 1987, and in 1999, the company became the first to domestically produce compressors for nuclear power plants. In 2001, Hanshin once again made its mark with the first Korean-run factory in China that specializes in manufacturing air compressors.

There have been many air compressor manufacturers in Korea that opened their doors and then closed, but Hanshin has grown steadily until the company is considered as the representative of compressors in the Korean market. You can be assured that Hanshin will remain 'a leader in the air compressor field,' striving to satisfy customer demands, and meeting their high expectations.

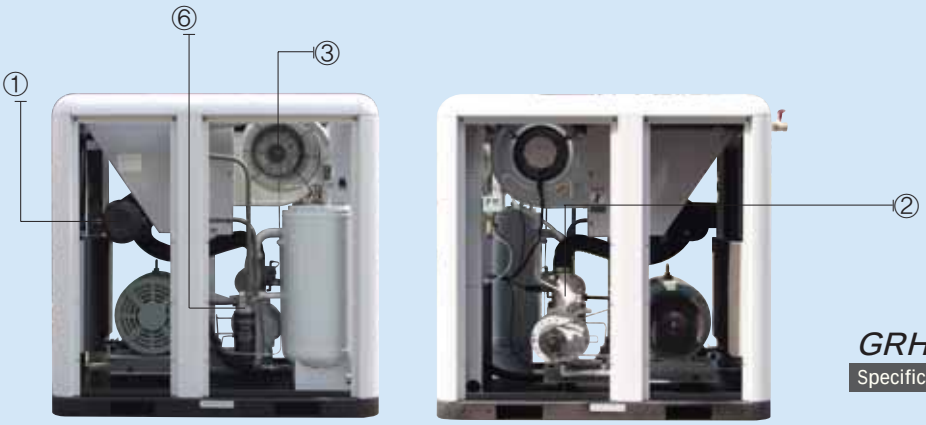
Sept.	1969	Hanshin Machinery Mfg. Co., Ltd. was established.
Nov.	1976	Converted to a corporation, and renamed Hanshin Machinery Co., Ltd.
Feb.	1977	Hanshin products were presented at the world fair held in Toronto, Canada
Jun.	1979	Started to produce water cooled type air compressors in technological partnership with Meiji Air Compressor Mfg. Co., Ltd. of Japan
Feb.	1980	Started to produce vane type air compressors in technological partnership with Hydrovane Co., Ltd. of U.K.
Oct.	1983	Started to produce screw compressors in technological partnership with Kobe Steel Ltd. of Japan
Oct.	1985	Started to produce Korea's first oil-free screw compressors
Dec.	1985	Started to export products to the U.S. after passing import inspections by the U.S. government
Mar.	1986	Started to export air compressors to China by way of Hong Kong
Nov.	1986	Selected as an outstanding domestic machinery development company and received an award from the Minister of Trade and Industry
Jul.	1987	Company went public and offered IPO
Jan.	1990	Started to produce oil-free piston air compressors in technological partnership with Meiji Air Compressor Mfg. Co., Ltd. of Japan
Oct.	1991	Expanded the 2nd manufacturing complex
Nov.	1992	Designated as a Quality control factory and acquired the "㊂"mark
Dec.	1992	Passed the product design and performance requirements under the Industrial Safety and Health Act.
Jan.	1993	Localized refrigerant type air dryer
Oct.	1994	Selected as the "Worldwide Sales Leader" by ELLIOTT
Nov.	1997	Acquired the ISO 9001 certificate
Feb.	1999	Supplied the first localized compressors for the nuclear power plants (Youngkwang 5th and 6th neclear power plants) (Model: AL- 320H)
Sept.	2001	Hanshin Machinery made inroads in the Chinese market
Jul.	2003	Acquired the certificate of Outstanding After-Sales Service Corporation from the Ministry of Commerce, Industry and Energy
Dec.	2005	Factory in China completed construction (Jiaozhou, Shandong province)
Jun.	2006	Acquired the certificate of Excellent Service Quality from the Ministry of Commerce, Industry and Energy, the first in the compressor industry

❶ Air Cleaner

❷ Suction Valve

❸ Cooling Fan

❹ Minimum Pressure Valve



GRH3- 30A

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❺ Oil / After Cooler

❻ Oil Filter And Thermostatic Valve

❼ V Belt / Direct Drive

❽ Oil (NXL- 3000)

THE BRAND

"The Power behind the World Industires !"

- The leader in sales, in the history of Korean air compressors!

Hanshin's GRH series is the model that sold more than 2,000 units a year. Since its launch in 1997, the model has sold over 10,000 units. It broke the record of biggest selling single model in the Korean industry, and is unquestionably "Korea's top air compressor" in terms of quantity sold.

Hanshin compressors, with the pride of "The power behind the world industries", are currently being operated in all sizes of industrial fields from large production lines to small neighborhood factories where products with 'made in Korea' labels are manufactured.

GRH3- 30A

GRH3- 50A

GRH3- 100AC
(Standard : Built-in INSPECTROL® type)

■ STS Semiconductor & Telecommunication

■ Lotte Samkang Co., Ltd.

■ Certificate of Excellent Service Quality

■ ISO 9001 certificate

■ Mark of a listed enterprise

■ Hanshin's unique TM of nationwide after-sales service

THE CULTURE

Count On Our Corporate Culture

There has been, and still are, many companies that claim their products excel ours in terms of performance and cost, and that compressors are simply hardware. But Hanshin believes that when our customers make a purchase, they are paying not just for a piece of steel called an air compressor, but also for our corporate culture. We realize that there are many consumers who encounter problems when trying to find replacement parts because the product came from one of many air compressor manufacturers that are no longer in business.

But Hanshin is Korea's first listed and only one air compressor manufacturer, a well-established corporation with a business record of 40 years. Hanshin takes the social responsibility of a corporation seriously, and is clearly distinguishable from the many companies that entered the market only to perish in short time while chasing short-term profits.

When you purchase our products, you may count on our corporate culture, which has made it possible for Hanshin to grow into the leader in Korea's air compressor industry.
You can rest assured that Hanshin will always be there for you, ready to meet your highest expectations.

■ *Certified Excellent Service Quality (ESQ)*

ESQ is a government-sponsored certification system, awarded to only a few companies that have been selected by the Ministry of Commerce, Industry and Energy after a strict evaluation process. Hanshin is the solely ESQ certified company in this field, and one of only 400 corporations in the entire industrial fields to have received the ESQ. It is a government certification that embodies a dedication to quality management, comparable to the Malcolm Baldridge Award in the U.S.A.

■ *System*

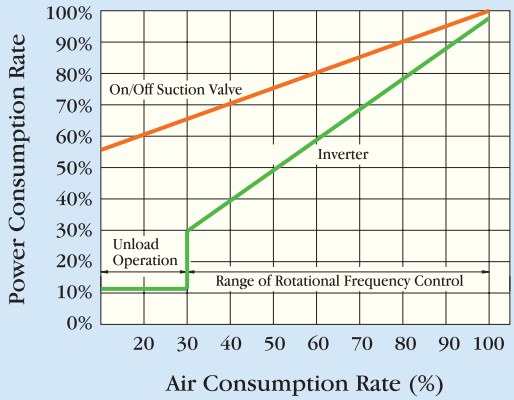
This is Hanshin's unique service network system, born out of our commitment to "the delivery of equipment service within eight hours, and parts within four hours, to customers anywhere inside Korea." For this system, we have networked 53 Air Care Centers (ACC, the name of the Hanshin's own service center) that cover every corner of the country like capillary vessels, and 13 distribution centers. This network system will put an end to customer service that "never answers the customer's call."

C-DRIVER - Maximum Efficiency, Realized Through Superior Control Solution

This is Hanshin's own inverter model that has the adaptability of a Chameleon. Built with artificial intelligent MICOM, this artificial intelligence model offers outstanding savings in power consumption with the most efficient rpm control.

■ Minimal Power Consumption

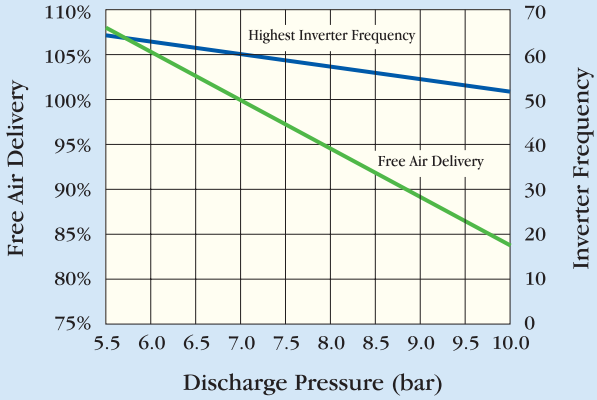
- Reduces power consumption through its motor rpm control function that corresponds to air consumption
- Added savings in power consumption by turning to no-load operation mode when air consumption drops to less than 30%.



Air Consumption vs. Power Consumption

■ Optimum Air Flow Control

- Maximum amount of discharge is realized by automatically switching to the most efficient operation rpm of the motor within the range of operation pressure



The most efficient operation frequency and the discharge amount for different ranges of pressure

INSPECTROL® inspect & control - Graphic LCD

INSPECTROL® inspect & control is the name of Hanshin's graphic LCD MICOM control model, which displays operation status on the graphic monitor in an easy-to-read format. Since the brightness of the LCD screen automatically adjusts to the temperature of the surrounding environment, you can see the status on the screen clearly, even in a dark area.

■ Easy and simple to use

All you need to do is set the operation pressure.
Other data will automatically change to allow for optimum operation.

■ Automatic calculation of the optimum operation rpm of the motor

The motor operation rpm is automatically adjusted when you change the pressure, so that it can offer the best energy savings and maximum benefits.

■ Highly Reliable

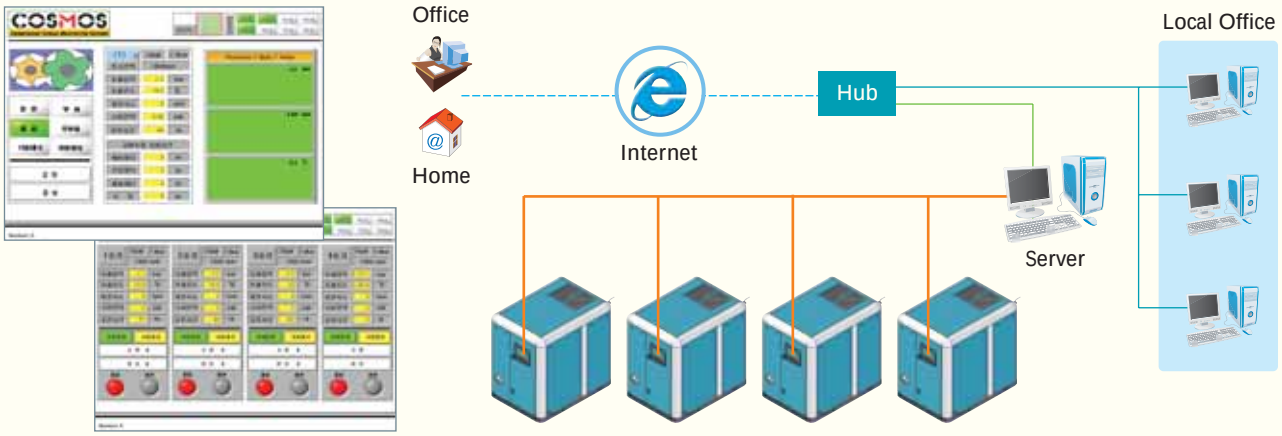
The MICOM, which Hanshin developed using only verified control parts and sufficiently reliable tests, can guarantee perfect quality

24 Categories to Check Operation Status

①Main Screen ②Secondary Screen ③Fan Motor Trip Indication Screen ④Main Motor Trip Indication Screen ⑤Operation Confirm Signal Error, Trip Indication Screen ⑥Discharge Temperature High, Trip Indication Screen ⑦Temperature Sensor Error, Trip Indication Screen ⑧Pressure Sensor Error, Trip Indication Screen ⑨Air Filter Replacement Indication Screen ⑩Oil Filter Replacement Indication Screen ⑪Oil Separator Replacement Indication Screen ⑫Internal Pressure Rise Automatic Start System Idle Screen ⑬Line Pressure Rise Automatic Start System Idle Screen ⑭Unload Operation Screen ⑮Automatic Blue(Stop) Screen ⑯Schedule Operation Selection Screen ⑰Stop Delay Operation Screen ⑱Discharge High Temperature, Alarm Indication Screen ⑲Schedule Operation Screen ⑳Manual Non-Load Operation Screen ㉑Low Cool Water Volume, Trip Indication Screen ㉒Internal Pressure Drop, Alarm Indication Screen ㉓Oil Temperature High, Trip Indication Screen ㉔Data Setting Error, Trip Indication Screen

COSMOS - Compressor Status Monitoring System

COSMOS SYSTEM allows for the stop control and the remote operation and remote monitoring of the operation status of a compressor through a dedicated communication line or LAN. Using the Internet, you can conveniently manage the compressor anytime, anywhere in the world, by using its stop control and the remote operation and remote monitoring of operation status in compressor functions.



THE TRADITION

The History Continues

The INSPECTROL® inspect & control Controller and COSMOS system that are installed in our new GRH3 series (standard for 75/100HP, optional for 20~50HP) are two of Hanshin's recent products that marked a new chapter in our History. There are only a couple of corporations in the entire world that have succeeded in developing these two systems, and Hanshin is the first in Korea.

With this globally accessible system, you can check dozens of operation status categories anytime, anywhere in the world, by logging onto the operation status of compressors that run 24 hours a day in your customers' factories, at the same time you can check the basic inverter operation by using the internet. This is a system that allows you to remotely operate and stop equipment over the web.

Since this revolutionary new system is compatible with Hanshin's main COSMOS system, you can make inquiries about operating your compressor, request a diagnosis of problems, and carry out all trouble shooting through this system.

GRH2- 200A (150A)

GRH2- 200AC (150AC)

GRH2- 300A (250A)

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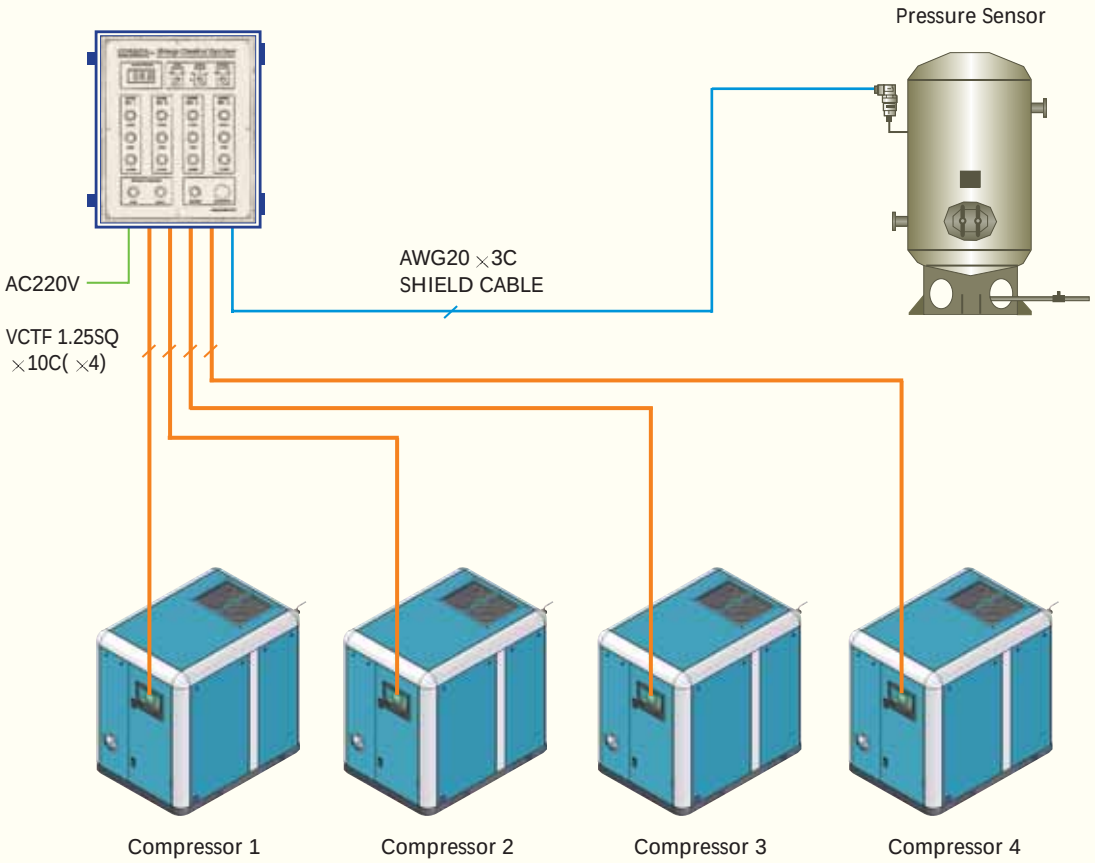
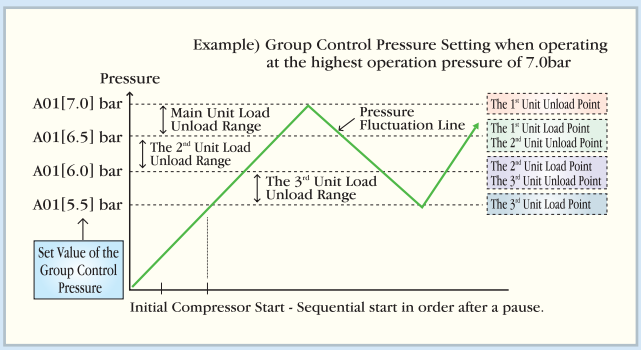
Group Control System

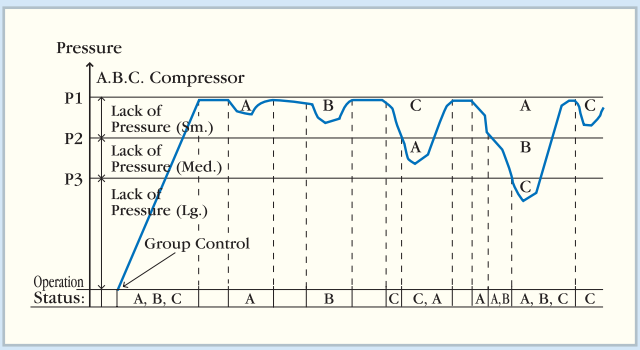


Control Flow Chart

■ Operation Graph

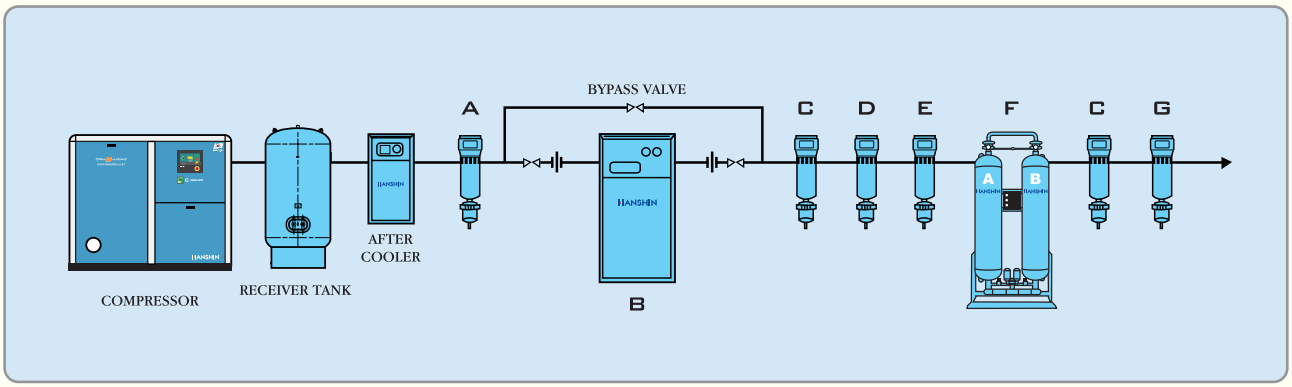


■ Operation Method



Green Compressed Air Systems

When the air from the atmosphere is drawn in and pressurized by the compressor, various impurities and pollutant particles that are generated by the compressor can diminish the performance and durability of various pneumatic components of the compressor and the production line, resulting in negative effects on productivity and quality. Therefore, special consideration of the pollution issue in pneumatic systems is required, and a proper Air Filtering System that supports performance and special features of the pneumatic components has to be selected, before comprehensively reviewing the economic efficiency, reliability, stability and maintenance of the product



Description	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ
Item	Main Filter	Refrigerant Air Dryer	Pre Filter	Line Filter	Coalescer Filter	Desiccant Air Dryer	Adsorbent Filter

Air Filtering System for Different Purposes

SYSTEM 1	Extra Dry, Odorless Air Non Freezing Line	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓒ Ⓖ	Extra dry systems (electronic parts) Chemical analysis systems (gas, gas recharging tank) Equipment used in cold climates (powder, storage, transport), coating
SYSTEM 2	Oil-Free, Dry Odorless, Clean Air	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓖ	Medical and Food industry (transport, mix, dry, pack) Breathing Aids
SYSTEM 3	Oil-Free, Dry Clean Air	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	Measuring Instruments, electrostatic painting Precision machinery, Precision parts drying
SYSTEM 4	Dry, Clean Air	Ⓐ Ⓑ Ⓒ	Pneumatic machinery and tools, general drying

■ Features of Compressed Air Dryer

	Momentum Transfer			Heat Transfer			Mass Transfer	
Description	Coalescing Filter	Seperator	Receiver Tank	Heat Exchanger	Refrigerant Type	Chiller Type	Desiccant Type	Deliquecent Type
Application	Eliminate water aerosol Incapable of eliminating water vapor.			Eliminate water vapor Poor ability for eliminating water aerosol			Eliminate water vapor Poor ability for eliminating water aerosol	
Merits	Best efficiency (over 99%)	Little Pressure Loss Collision Type<25mmAq Centrifugal type<76mmAq Low risk of pollution	Eliminates rather large water drops	Cools the air Decreased moisture volume Dew point of 16~ 38℃	High Energy Efficiency Dew Point of 2~13℃	Decreases the water vapor elements Dew Point of 10~15℃	The highest moisture elimination capacity Dew point less than -40℃	Simple structure Dew Point of 4~ 27℃
Demerits	Big pressure loss, over 762mmAq	Low efficiency, Collision type>90% centrifugal type 98%	Low efficiency, bulky	High dew point	Dew point of less than 0℃ not possible	Separate heat transfer additional route	High initial cost	High Output Dew Point Generates corrosive drain

Specifications & Dimensions

GRH 3 SERIES | Star- Delta Type

MODEL		GRH3- 20A	GRH3- 25A	GRH3- 30A	GRH3- 35A	GRH3- 50A	GRH3- 75A	GRH3- 100A
Type		Single Stage Oil-Injected Screw Air Compressor						
Control System		Analog Controller (Inspectrol Option)					Inspectrol (Inpectrol)	
Main Motor Output (kW)		15	18	22	27	37	55	75
Cooling Fan Motor Output (kW)		1.1				1.6	3.2 (1.6×2)	
Voltage (V)		AC 220 / AC 380 / AC 440 3 Phase						
Frequency (Hz)		50 / 60						
Drive System		Poly Belt Drive					Direct Drive	
Starting Method		Direct	Star- Delta Starter					
Air Discharge Volume (m^3/min)	7.0 bar	2.4	3.0	3.6	4.3	6.7	10.3	13.6
	8.5 bar	2.2	2.7	3.3	4.0	5.8	9.1	12.0
	9.9 bar	2.0	2.4	3.0	3.7	5.3	8.3	10.7
Intake Air Pressure Temperature (℃)		Atmospheric Pressure 0~ 40						
Discharge Air Temperature (℃)		Atmospheric Temperature + 15 or Less						
Discharge Pipe Diameter (inch)		1 (25A)				1½ (40A)	2 (50A)	
Lubricating Oil Capacity (ℓ)		15				25	50	
Noise Level dB (A) 1.5m From Front Side		66	67	68	69	70	72	73
Dimensions & Weight	Length (mm)	1000				1100	2000	
	Width (mm)	1400				1600	1350	
	Height (mm)	1350				1500	1700	
	Weight (kg)	673	700	726	753	940	1596	1713

GRH 3 SERIES | Inverter Type / C-DRIVER

MODEL		GRH3- 20AC	GRH3- 25AC	GRH3- 30AC	GRH3- 35AC	GRH3- 50AC	GRH3- 75AC	GRH3- 100AC
Type		Single Stage Oil-Injected Screw Air Compressor						
Control System		Inspectrol (Micom)						
Main Motor Output (kW)		15	18	22	27	37	55	75
Cooling Fan Motor Output (kW)		1.1				1.6	3.2 (1.6×2)	
Voltage (V)		AC 220 / AC 380 / AC 440 3 Phase						
Frequency (Hz)		50 / 60						
Drive System		Poly Belt Drive					Direct Drive	
Variable Frequency (Hz)		20~ 63						
Variable Capacity (m^3/min)		30~ 100						
Pressure Band Within (bar)		± 0.1 bar						
Starting Method		Inverter						
Air Discharge Volume (m^3/min)	7.0 bar	2.4	3.0	3.6	4.3	6.7	10.3	13.6
	8.5 bar	2.2	2.7	3.3	4.0	5.8	9.1	12.0
	9.9 bar	2.0	2.4	3.0	3.7	5.3	8.3	10.7
Intake Air Pressure Temperature (℃)		Atmospheric Pressure 0~ 40						
Discharge Air Temperature (℃)		Atmospheric Temperature + 15 or Less						
Discharge Pipe Diameter (inch)		1 (25A)				1½ (40A)	2 (50A)	
Lubricating Oil Capacity (ℓ)		15				25	50	
Noise Level dB (A) 1.5m From Front Side		66	67	68	68	70	72	73
Dimensions & Weight	Length (mm)	1000				1100	2000	
	Width (mm)	1400				1600	1350	
	Height (mm)	1350				1500	1700	
	Weight (kg)	698	731	758	826	1060	1798	1900

Specifications & Dimensions

GRH 2 SERIES | Air Cooled

AIR COOLED MODEL		GRH2- 125A	GRH2- 150A	GRH2- 200A	GRH2- 250A	GRH2- 300A
Type		Single Stage Oil-Injected Screw Air Compressor				
Output (kW)		90	110	150	190	220
Voltage (V)		AC 220 / AC 380 / AC 440 / AC 3300 / AC 6600				
Frequency (Hz)		50 / 60				
Drive System		Direct Drive				
Starting Method		Star - Delta, Reactor				
Air Discharge Volume (m^3/min)	7.0 bar	17.8	20.8	28.0	35.2	42.0
	8.5 bar	16.3	19.1	25.8	32.5	35.2
	9.9 bar	15.6	16.1	23.8	30.1	33.8
Intake Air Pressure Temperature (℃)		Atmospheric Pressure 0~ 40				
Discharge Air Temperature (℃)		Atmospheric Temperature + 15 or Less				
Discharge Pipe Diameter (inch)		2 ½			3	
Lubricating Oil Capacity (ℓ)		120			200	
Dimensions & Weight	Length (mm)	2700			3100	
	Width (mm)	1700			2200	
	Height (mm)	2000			2000	
	Weight (kg)	3000	3200	4200	4500	4700

GRH 2 SERIES | Water Cooled

AIR COOLED MODEL		GRH2- 125W	GRH2- 150W	GRH2- 200W	GRH2- 250W	GRH2- 300W	GRH- 350W	GRH- 400W	GRH- 500W
Type		Single Stage Oil-Injected Screw Air Compressor							
Output (kW)		90	110	150	190	220	260	300	375
Voltage (V)		AC 220 / AC 380 / AC 440 / AC 3300 / AC 6600				AC 3300 / AC 6600			
Frequency (Hz)		50 / 60							
Drive System		Direct Drive							
Starting Method		Star-Delta, Reactor				Reactor			
Air Discharge Volume (m^3/min)	7.0 bar	17.8	20.8	28.0	35.2	42.0	50.8	55.0	70.0
	8.5 bar	16.3	19.1	25.8	32.5	35.2	47.1	50.5	65.2
	9.9 bar	15.6	16.1	23.8	30.1	33.8	43.5	46.9	59.6
Intake Air Pressure Temperature (℃)		Atmospheric Pressure 0~ 40							
Discharge Air Temperature (℃)		Atmospheric Temperature + 15 or less							
Discharge Pipe Diameter (inch)		2 ½			3		4	5	
Lubricating Oil Capacity (ℓ)		140			185		360		
Dimensions & Weight	Length (mm)	2700			3100		4500		
	Width (mm)	1700			2200		2200		
	Height (mm)	2000			2100		2000		
	Weight (kg)	2800	3000	4000	4300	4500	5500	6500	7500
Cooling Water	Volume (m^3/Hr)	10.5	12.5	17.0	20.8	23.8	30.0	33.6	42.7
	Supplying Pressure	2~ 5 kfg/cm^2							
	Inlet & Outlet Size (inch)	2			2 ½		3		

Specifications & Dimensions

Air Dryer

Designed to be ideal for use in any environment, with its built-in, high-performance refrigerant compressor "Tecumseh"

Categories / Model	Inlet & Outlet Size	Range of applied air compressor	Processing capacity	Compressor	Voltage	Power source	Wattage	Dimension			mm, kg
	mm	HP	Nm³/min	HP	A	V- PH- Hz	kW	Length	Width	Height	Weight
XD- 5	15A	1~ 5	0.51	1/4	1.7	220/ 380/ 440V 1PH 50/ 60Hz	0.46	270	630	540	33
XD- 7	15A	5~ 7	0.79	1/4	1.7		0.46	270	630	540	33
XD- 10	25A	7~ 10	1.00	1/3	2.6		0.62	270	630	540	35
XD- 15	25A	10~ 15	1.53	3/8	3.2		0.68	300	630	600	47
XD- 20	25A	15~ 20	2.60	3/8	3.6		0.72	300	630	600	47
XD- 30	25A	20~ 30	3.90	3/4	6.2		1.30	350	700	680	72
XD- 35	25A	30~ 35	4.70	3/4	6.2		1.30	350	700	680	72
XD- 50	40A	35~ 50	6.70	1	8.1		1.60	400	800	800	103
XD- 75	50A	50~ 75	10.50	1 ½	11.3		2.10	400	880	800	137
XD- 100	50A	75~ 100	14.20	2	8.5	220/ 380/ 440V 3PH 50/ 60Hz	2.30	400	950	900	140
XD- 130 (W)	65A	100~ 130	18.00 (19.50)	3	17.8 (16.8)		3.00	1150	620	1200	180 (170)
XD- 150 (W)	65A	130~ 150	21.00 (22.50)	3	17.8 (16.8)		3.00 (3.40)	1150	620	1200	200
XD- 170 (W)	65A	150~ 170	24.00 (25.70)	4	19.6 (19.6)		4.60	1200	700	1270	350 (320)
XD- 200 (W)	80A	170~ 200	30.00 (32.10)	4	19.6 (19.6)		5.10	1200	700	1270	490 (350)
XD- 250 (W)	80A	200~ 250	39.00 (41.70)	5	21.4 (21.4)		8.50	1350	770	1360	500 (450)
XD- 300 (W)	100A	250~ 300	47.00 (50.30)	5	21.4 (21.4)		8.50	1350	770	1360	860 (550)
XD- 400 (W)	100A	300~ 400	56.00 (59.90)	10	31.2 (28.4)		10.00 (9.60)	1150 (1600)	1900 (1150)	1700	910 (650)
XD- 500 (W)	150A	400~ 500	66.00 (70.60)	16	46.2 (43.7)		16.00	1150 (1600)	1900 (1150)	1700	940 (780)
XD- 600 (W)	150A	500~ 600	85.00 (91.00)	16	46.2 (43.7)		16.00	1150 (1600)	1900 (1150)	1700	1100 (780)
XD- 750W	200A	600~ 750	120.00	20	71.4		16.30	1800	1400	1750	950
XD- 900W	200A	750~ 900	140.00	30	102.0		24.60	1800	1400	1750	1010
XD- 1200W	200A	900~ 1200	180.00	30	102.0		24.60	2000	1400	1800	1300

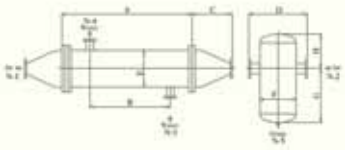
1. R- 404A, an alternative refrigerant for R- 22, can be customized to order
2. When a different electrical spec is required, we can customize the product to order
3. Processing capacity is based on 60Hz.
4. When the pressure needs to be over 9.9 kgf/cm² , we can customize the product to order.
5. The temperature of cooling water is basically 32℃ Please contact us if you need to work with a higher temperature.
6. We can custom make compressors larger than those listed above on request.
7. W is a water cooled type

After Cooler

Decreases the load that affects the dryer, and help the dryer to work at its optimal level.

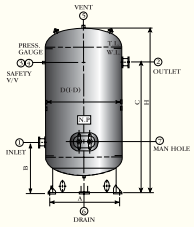
Categories / Model	Inlet & Outlet Size	Range of applied air compressor	Processing capacity	Fan Size	Voltage	Wattage	Dimension			mm, kg
	mm	HP	Nm³/min	mm	A	kW	Length	Width	Height	Weight
HAC- 20A	20A	1~ 20	1.0	250 × 1	0.25	0.06	275	460	470	16
HAC- 25A	25A	20~ 25	3.2	350 × 1	0.42	0.09	275	590	600	24
HAC- 40A	40A	25~ 50	5.1	450 × 1	0.70	0.16	360	780	665	48
HAC- 50A	50A	40~ 50	7.8	500 × 1	1.20	0.30	360	880	740	58
HAC- 80A	50A	50~ 80	12.7	450 × 1	0.70	0.30	1020	345	787	65
HAC- 100A	65A	80~ 100	17.5	400 × 2	1.00	0.32	1470	345	825	95
HAC- 150A	80A	100~ 150	28.0	450 × 2	1.40	0.32	1650	395	1092	180
HAC- 200A	100A	150~ 200	41.0	500 × 2	2.40	0.60	1740	395	1245	210
HAC- 300A	100A	200~ 300	52.0	550 × 2	2.40	1.10	1840	355	1360	230
HAC- 400A	125A	300~ 400	65.0	450 × 4	2.80	0.64	1790	350	1613	300
HAC- 500A	150A	400~ 500	75.0	500 × 4	4.80	1.20	1935	350	1690	350
HAC- 600A	150A	500~ 600	95.0	550 × 4	4.80	1.12	2035	350	1840	370

Categories / Model	Processing capacity	Amount of cooling water	Heating Surface	Dimension											mm, kg
	Nm³/min	ℓ/min	m³	A	B	C	D	E	F	G	H	N1·N2	N3·N4	N5	Weight
HAC- 100W	18	55	2.1	1280	1080	155	400	5B	8B	400	220	2B	1B	1/2B	112
HAC- 200W	30	105	3.2	1450	1230	155	400	5B	8B	400	220	3B	1 ¼B	1/2B	121
HAC- 300W	36	155	5.1	1780	1580	168	400	6B	8B	400	220	4B	1 ½B	1/2B	163
HAC- 400W	42	210	5.9	1900	1700	180	460	8B	10B	470	250	4B	2B	3/4B	233
HAC- 500W	60	270	6.3	2000	1750	180	460	8B	10B	470	250	6B	2 ½B	3/4B	253
HAC- 600W	89	320	11.7	2100	1850	210	520	10B	12B	500	300	8B	3B	3/4B	410



1. When a different electrical spec is required, we can customize the product on request.
2. Processing capacity is based on 60Hz.

Specifications & Dimensions



Air Receiver Tank

Increases instantaneous action of the compressed air

Model	Volume (M^3)	A (B.C.D)	B	C	D(LD)	H	Weight (Kg)	Remarks	Nozzle size						
									N1	N2	N3	N4	N5	N6	7
HART- 05	0.5	730	583	1127	760	1524	271	Hand Hole 100A KS 10K SOFF	40A	40A	25A	10A	25A	25A	(Manhole)
HART- 10	1.0	800	600	1500	920	1886	520		40A	40A					
HART- 15	1.5	900	700	1970	960	2466	600		50A	50A					100A
HART- 20	2.0	1000	740	2020	1100	2544	900	Man Hole (Internal Type)	50A	50A					330×470
HART- 30	3.0	1150	823	1867	1340	2550	1200		65A	65A					
HART- 40	4.0	1240	1100	2770	1340	3517	1678		65A	65A	40A				
HART- 50	5.0	1360	1100	2730	1500	3518	1975		80A	80A					
HART- 60	6.0	1360	1100	3290	1500	4078	2452		100A	100A					
HART- 80	8.0	1610	1450	3470	1750	4373	3218		100A	100A					
HART- 100	10.0	1610	1450	4295	1750	5198	3752		125A	125A					

Air Filter

Provides clear and dry pressurized air in order to prevent breakdown and errors in the pneumatic components

Categories / Model	Processing Capacity								Number of Elements	Inlet & Outlet Size	Dimension		
	40 ㎛		5 ㎛		1 ppm		0.01ppm/ 0.01ppm/ 99% +				Length	Height	Weight
	Nm^3/min	SCFM	Nm^3/min	SCFM	Nm^3/min	SCFM	Nm^3/min	SCFM	ea	mm	mm	mm	kg
XC- 15A	2.2	76	1.8	62	1.2	42	1.0	35	1	15A	105	270	1.5
XC- 20A	5.7	194	3.5	121	2.8	97	1.9	66	1	20A	105	310	1.5
XC- 25A	8.0	277	5.7	197	5.0	173	3.4	118	1	25A	105	435	1.9
XC- 40A	17.0	588	14.0	484	11.0	381	10.0	346	1	40A	144	700	12.0
XC- 50A	29.0	1003	25.0	865	22.0	761	14.0	484	1	50A	185	925	21.0
XC- 65A	58.0	2007	49.0	1696	48.0	1161	28.0	969	2	65A	550	1105	88.0
XC- 80A	88.0	3045	73.0	2526	72.0	2491	42.0	1453	3	80A	550	1105	103.0
XC- 100A	139.0	4810	120.0	4651	110.0	3806	70.0	2422	5	100A	600	1125	120.0
XC- 125A	162.0	5605	145.0	5017	132.0	4567	84.0	2907	6	125A	700	1195	120.0
XC- 150A	282.0	9758	221.0	7647	176.0	6090	112.0	3875	8	150A	700	1195	120.0
XC- 200A	447.0	15467	331.0	11453	308.0	10657	196.0	6782	11	200A	1000	2367	120.0
XC- 250A	733.0	25363	555.0	19204	528.0	18270	330.0	11419	19	250A	1200	2745	120.0
XC- 300A	1103.0	38166	850.0	29412	792.0	27405	504.0	17439	30	300A	1400	2745	500.0
XC- 15H	2.2	76	1.8	62	1.2	42	1.0	35	1	15A	106	340	17.0
XC- 20H	5.7	194	3.5	121	2.8	97	1.9	66	1	20A	106	390	19.0
XC- 25H	8.0	277	5.7	197	5.0	173	3.4	118	1	25A	106	510	21.0
XC- 40H	17.0	588	14.0	484	11.0	381	10.0	346	1	40A	144	700	25.0
XC- 50H	29.0	1003	25.0	865	22.0	761	14.0	484	1	50A	185	925	28.0

Note) Maximum Flow Rate is the filtered air flow rate written in Nm^3/min unit, based on pressure of 0.3kgf/cm^2 and the lines of 0.1 ㎛ and 0.01 ㎛ for main and pre filters, and for the coalescent and carbon filters, the pressure of 0.2 ~ 0.4kgf/cm^2, and primary peak pressure of 7kgf/cm^2.

* We can customize a unit for equipment using a higher number than Filter 200A on request.

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