



Oil Injected Screw Compressor General Catalog





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KOBE STEEL,LTD.

Machinery Business / Compressor Division

Information in this catalog such as values, photographs, evaluation is listed for the purpose of explaining the general features and performance of our products only, and it does not guarantee anything as a result. In addition, the information contained in this catalog is subject to change without notice, so please contact our sales offices above for the latest information.

Oil Injected Screw Compressor 200502S

"Monozukuri" What makes it KOBELCO

"Monozukuri" literally means Production or Manufacturing in Japanese word. But this "Monozukuri" especially has meaning of integration of prowess, know-how, and spirit of Japanese manufacturing, which include sincere mind, pride for the quality backed by skill, dedication and the pursuit of innovation and perfection.

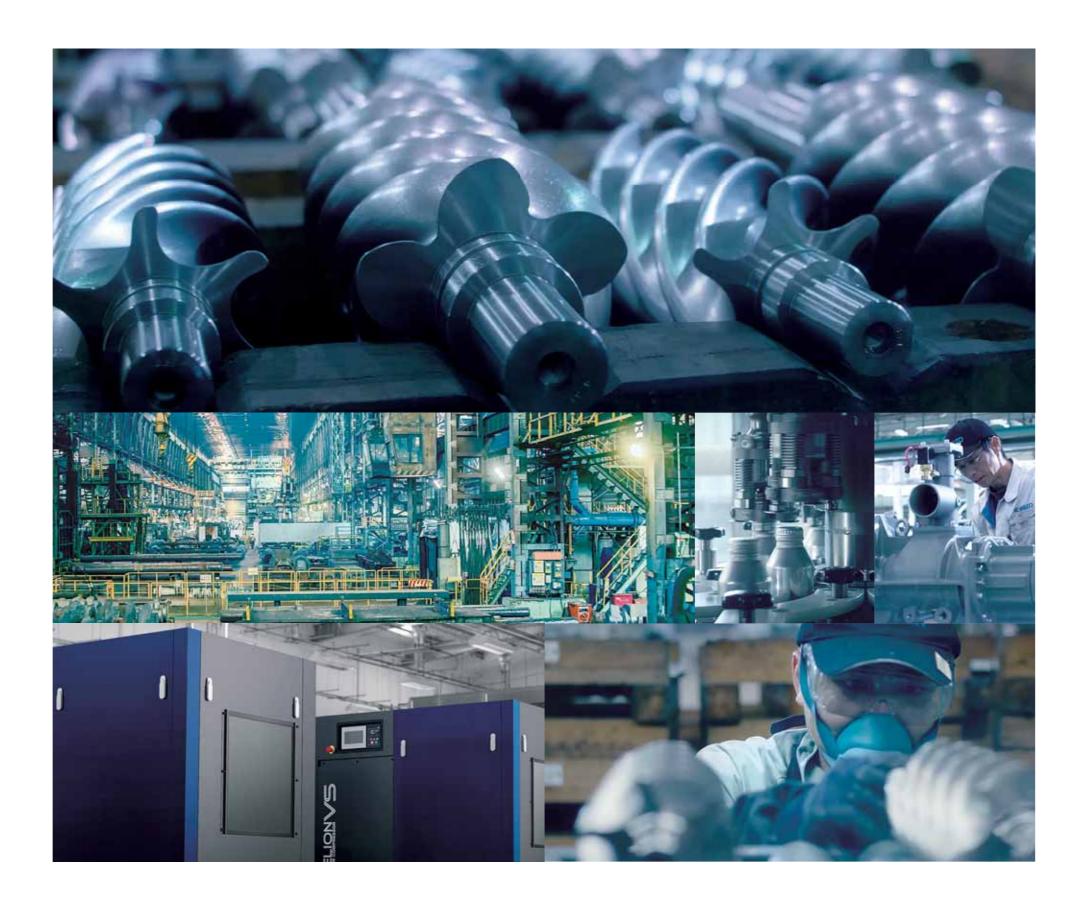
KOBELCO explores this "Monozukuri" for more than 100 years as a Japanese leading compressor manufacturer, and quality of our products are for the dedication to "Monozukuri" in the world.

Our endeavor for future technology, top quality, and for maximum customer satisfaction will not stop.

For the next 100 years...

Never ending challenge of KOBELCO just starts here.





Diverse choices for the best of your use.

NEW GENERATION



VS series SG series



Motor output 22-75 kW

Discharge air flow 3.82-15.2 m³/min













Discharge air flow 3.33-14.0 m³/min





P.13



Small type SG series



Discharge air flow 1.0 - 2.35 m³/min

March

Super small type



Discharge 720 L/min

P.19

P.20



03



motor



cloud service





touch monitor



										(KW)
Model		Туре	5.5	7.5	11	15	22	37	55	75
KOBELION	VS	INVERTER					•	•	•	•
	SG	Fixed speed		•	•	•	•	•	•	•
March		Fixed speed	•							
		I								

* Availability of group control with hard wire varies depending on controller type.



NEW GENERATION KOBELION Debut.

KOBELION-1st generation launched in 2002, presenting innovative concept in the industry. When we developed NEW GENERATION KOBELION, we redefined every key component, from screw element, inverter, cooler to controller and took the most forward-looking way to design each of them. All new are for the best, making KOBELION as masterpiece.

WHAT'S NEW



Ultimate Energy saving

With newly developed screw element from its profile, New KOBELION achieved class-leading air flow volume and specific power consumption.



Outstanding quietness

The insulation materials, flow of unit ventilation air, and frequency of noise were all reviewed and optimised for outstanding quietness.



Up to 50°C ambience

Designed with enough margin against temperature, continuous duty up to 45°C, can be operated up to 50°C.



IoT cloud service "Kobelink"

Anytime, anywhere, you can check compressor's running conditions with it. This can support sustainable operation.

*Conditions apply



Full color touch monitor

Newly developed "NGSC-430/700" is sophisticated LCD interface which enables you to figure out necessary information at a glance.

KOBELION VS

Motor power

22-75 kW

Discharge air flow

3.82 - 15.2 m³/min

Specification P.21



Ultimate Efficient Inverter Model.

Summit of high-tech for extreme efficiency. Premium energy saver with industrial top notch Air-End, super premium efficiency (IE4 equiv) IPM motor, built-in overhung design. Much wider range, much better usability.

Energy saving with Inverter

New Wide Range Control

Super premium efficiency IPM motor (IE4 equiv)

Kobelink compatible

Built-in overhung design

Up to 50 ℃ ambient condition

BUILT-IN OVER HUNG DESIGN, as identity of KOBELION.

Now, you can feel the GENUINE.

■ High efficiency

Motor rotor is directly mounted on the rotor shaft.

No coupling, no belt and no gear design realize zero transmission loss.

■ Easy maintenance

With built in overhung design, adjusting and replacing of v-belt is no longer necessary. It is not even required to change or re-grease motor bearings.



Super Premium Efficiency IPM Motor (IE4 equiv)

New KOBELION VS series equips super premium efficiency IPM (interior permanent magnet) motor, which efficiency is equivalent to IE4 of IEC standard. IPM has better efficiency from low load to high load compare to induction motor. This IPM is with oil cooled jacket cooling system with insulation class H, which has better resistance to high ambient conditions.

(*) Standard of motor efficiency is defined by IEC (International Electrotechnical Commission) standard and it defines IE1=Standard Efficiency, IE2=High Efficiency, IE3=Premium Efficiency, and IE4=Super Premium Efficiency for induction motor. As IPM is synchronous motor, IPM is not defined in this scheme. IPM equipped on VS series has the efficiency beyond IE4 of induction motor, and has good efficiency in wide range of the working load.

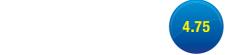


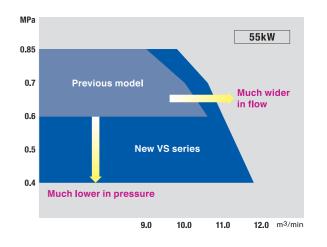
New Wide Range Control

In case that required pressure of compressor is 0.5MPa, you may be able to use one size smaller compressor. Wide Range Control of KOBELION VS can deliver much higher flow when it runs at lower pressure point. KOBELION VS senses line pressure and automatically change maximum rpm limit. New KOBELION VS achieves much higher flow and much wider pressure range. As a leading company of Inverter compressor, we can offer cutting-edge value.

■ Drastic increase in discharge air flow







					(m³/min
Model	0.85MPa	0.7MPa	0.6MPa	0.5MPa	0.4MPa
VS22AIV	3.82	4.25	4.51	4.75	4.75
Previous model	108%	105%	106%	_	_
VS37A IV	6.4	7.1	7.5	7.7	7.7
Previous model	106%	107%	108%	_	_
VS55AIV	9.8	10.6	11.0	11.4	11.8
Previous model	108%	105%	104%	_	_
VS75AIV	13.0	14.0	14.4	14.8	15.2
Previous model	109%	106%	103%	_	_

07

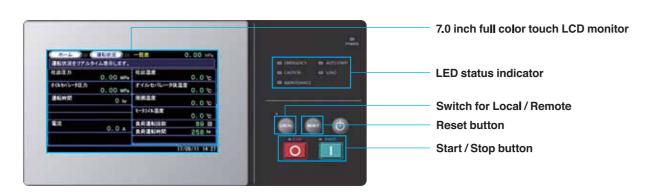
0.5MPa





New Generation Smart Controller NGSC-700 controller as standard

Kobelink - IoT cloud service



"NGSC-700 for VS series equips 7.0 inch full color touch operation monitor. Sophisticate LCD interface enables you to figure out following information at a glance."

- Operating condition Maintenance schedule
- Alarm / Interlock list Alarm / Trip history
- Compressor settings
- Flow diagram
- Daily, Weekly, Monthly record
 - etc.

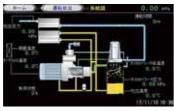
Various user interface



Operating condition

杜林莎力	0.00w	可用温度	0.0 %
######################################	0.00M	#4年から一月日三里	0.0
連札申替	D Hr	REAR	0.0
BRIDE	0 1	9-9248-E-E	0.00
構造の際	0.4	Service and	
		由非通股州 贸	0 +
CATH自電流	0.0 A		

Flow diagram



Maintenance schedule



Setting home screen



Compressor setting



Compressor Group Control



Up to 6 units of compressor can be control by inbuilt sequencing function without external control panel. (Hard wire connections are needed)

(Available only for NGSC-700/430 mounted model)

Other features

- 3 mode pressure setting
- Energy saving logic
- USB data logging
- Modbus I / O
- Kobelink Remote monitoring
- 7500V lightning surge killer
- Multi language (JPN/ENG/CHN)
- Overload protection
- Instant power failure ride-through: [SG]~0.3 sec [VS]~0.5 sec
- Automatic restart : 5~20 sec
- Reverse phase protection etc.

KOBELION SCREW COMPRESSOR KOBELIONS







Monitor can be upgrade as option

Kobelink- IoT cloud service

NGSC-700 Controller



- 7.0 inch full color touch LCD monitor
- Operation / Maintenance / Alarm / Interlock information
- Flow diagram
- Operation record / Chart display
- Weekly timer

- Compressor setting (3 pressure mode setting, output signal terminal settings)
- Group control (2 units / 6 units)
- USB data logging
- Modbus I / O

■ Controller can be upgrade as option



NGSC-430 Controller



- 4.3 inch full color touch LCD monitor
- Operation / Maintenance / Alarm / Interlock information
- Flow diagram
- Operation record / Chart display
- Weekly timer

- Compressor setting (3 pressure mode setting, output signal terminal settings)
- Group control (2 units / 6 units)
- USB data logging
- Modbus I/O
- etc.

NGSC-700 KOBELIONVS KOBELIONSG



NGSC-430 KOBELIONSG



Why INVERTER? Question actually should be "WHY NOT?"



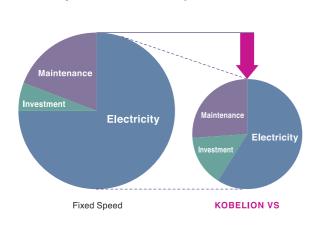
Since we firstly applied IPM motor on INVERTER compressor in 1998, we have been accumulated know-how of INVERTER compressor for nearly 20 years. Our advanced energy saving technology have been chosen by various fields of industry over the years.

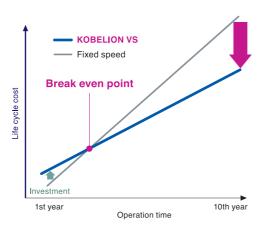


Down-to-earth investment for the future

What's important is not initial cost but life cycle cost (LCC). INVERTER compressors may look more expensive than fixed speed model, but many customers choose them because they know importance of life cycle cost (LCC) & return on investment (ROI) when it comes to choosing compressors.

■ Life cycle cost (LCC) comparison





Can Save

Approx. 300/0

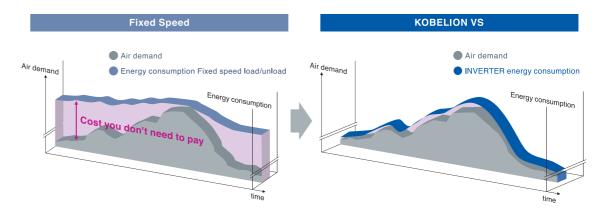
of life cycle cost (LCC)

- * Comparison model VS22AIV (Latest INVERTER model)
 - SG395AⅢ (Previous fixed speed model Load/Unload)
- * Conditions Yearly running hour:6,000hours, Total running year:10 years:Load ratio:30%, Investment and maintenance cost is as per KOBELCO conditions.
- * The energy saving outcome of introduction of inverter compressors can vary depending on actual running situations.

What you pay should be only for what you use

In every situation in our life, we pay only for what we eat, drink and use etc. Of course, compressors also should be that way. KOBELION VS can adjust compressor's rotating speed depends on the demand of factory load which changes from moment to moment by own developed algorithm. Thus, it can provide exact volume and pressure what customer needs and achieve maximum energy saving.

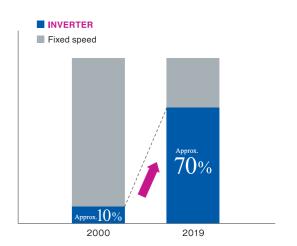




Already majority in Japan

Approx. 700₀

The percentage of INVERTER type KOBELCO*1 ships in Japanese market is approx. 70%*2. In 2000, INVERTER ratio was only approx.10%. This is a sign of fact that people are getting aware of importance of "Life Cycle Cost (LCC)" and "Return on Investment (ROI). Now INVERTER is not special but mainstream for every industry. *1:15~75kW/oil injected type *2:As of 2019 April



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22-75 kW

Discharge air flow

 $3.33-14.0 \text{ m}^3/\text{min}$

P.21



Premium Fixed Speed Model.

New Generation Air-end, Direct Gear Drive, IE3 premium efficiency motor standardly equips. Integration of cutting-edge technology as industrial compressor for highest reliability and simple controllability.

Best-in-class discharge air flow

Direct Gear Drive

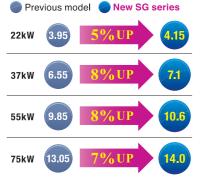
Kobelink compatible

Premium efficiency motor (IE3)*

Resistance to high ambient up to 50°C

Best in Class discharge air flow

New KOBELION SG achieves best-in-class discharge air flow, and max 13% increase from existing model, thanks to New Generation Air-end.



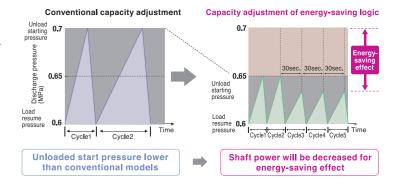
			(m ³ /min)
Model	0.7MPa	0.8MPa	1.0MPa
SG22AIV	4.15	3.9	3.33
Previous model	105%	113%	106%
SG37AIV	7.1	6.4	5.85
Previous model	108%	109%	111%
SG55AIV	10.6	10	9.1
Previous model	108%	113%	_
SG75AIV	14.0	13.1	12.0
Previous model	107%	111%	_

Direct Gear Drive

Designed to achieve best efficiency in rated load. Precise machined helical gears are directly mounted on motor shaft and eliminate coupling or v-belt. Single piece drive train minimize vibration of rotating part and mechanical losses. Also adjusting and replacing of v-belt is no longer necessary. All the model is with IE3 premium efficiency motor*.

Energy saving logic

KOBELCO's "Energy saving logic" can reduce pressure band of load/un-load control to eliminate excess pressure hike.



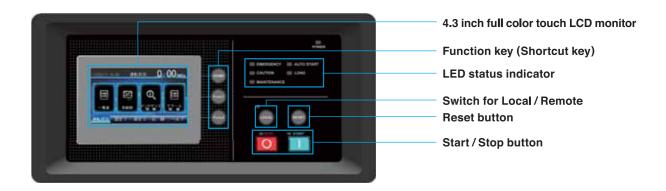






New Generation Smart Controller NGSC-430 controller as standard

Kobelink - IoT cloud service



"NGSC-430 for SG series equips 4.3 inch full color touch operation monitor. Sophisticate LCD interface enables you to figure out following information at a glance."

- Operating condition
- Alarm / Interlock list
- Compressor settings
- Daily, Weekly, Monthly record

- Maintenance schedule
- Alarm / Trip history
- Flow diagram

Compressor Group Control



Up to 6 units of compressor can be control by inbuilt sequencing function without external control panel, (Hard wire connections are needed)

(Available only for NGSC-700/430 mounted model)

Other features

- 3 mode pressure setting
- Energy saving logic
- USB data logging
- Modbus I/O
- Kobelink-Remote monitoring
- 7500V lightning surge killer
- Multi language (JPN/ENG/CHN)
- Overload protection • Instant power failure ride-through:
- \sim 0.3 sec
- Automatic restart : 5~20 sec
- Reverse phase protection

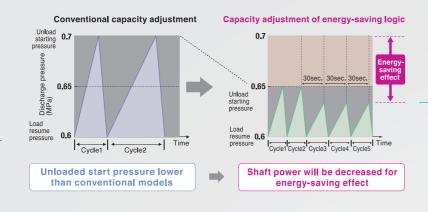
^{*}Except for 200V/60Hz, 400V/60Hz

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Other features

Energy saving logic

KOBELCO's "Energy saving logic" can reduce pressure band of load/unload control to eliminate excess pressure hike.





Reliable 3-step Oil separation

system Centrifugal, Gravity, Coalescing filtration 3-step oil separation system enables to remove oil mist from compressed air efficiently. Oil vapor in the compressed air is less than 1.6 ppm (*). (*) As per our reference condition Low noise package

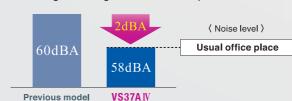
Dust filter as standard

Unit dust filter standardly equipped for all model. Prevent heavy dust enter into the compressor package.



New KOBELION achieves world best class low noise during operation.

Latest noise simulation analysis and our package design will change the image of industrial compressor.

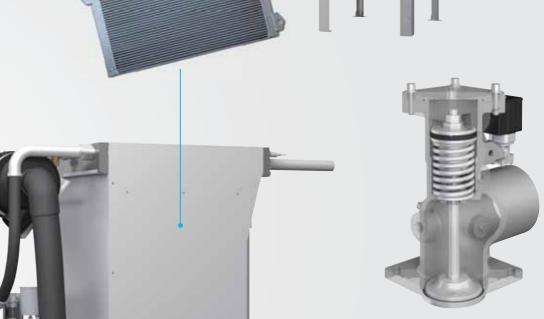


Up to 50 ℃ Ambient

KOBELION is designed for operation up to 50°C ambient condition.

All the component like split designed oil cooler and after cooler is designed for extreme condition. Against 45°C continuous duty, we still have safety margin.

*Maintenance interval may be changed under the surrounding condition of above 45°C.



Special design unloader valve

KOBELCO special design suction unloader valve equipped.

Minimum pressure loss, high reliability. Less chance of trouble, and longer maintenance life.

More reliable bearing

New KOBELION equips bearings with stabilizing

This is our endless challenge for more reliability.



Kobelion-SG

7.5-15kW

Discharge air flow

 $1.0 - 2.35 \, \text{m}^3/\text{min}$

P.22

Kabellan SG

Simple, small but strong.

Sophisticated basic functions of KOBELION are packaged into compact body. You can feel genuineness here as well.

Easy operation, Simple maintenance.

5.5 kW



Direct Gear Drive

The design, Direct Gear Drive Construction already used for bigger size of SG, is newly applied to compact type. More improved methods - Direct Gear Drive doesn't require adjustment of belt and Double Lip Seal enhances sealing capability to reduce maintenance time and effort.



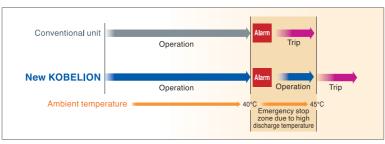
Easy operation, simple maintenance

■ Auto drain removal function

Compressors could generate drain, but removing drain by yourself is sometimes troublesome. With Auto drain removal function, compressor can automatically remove drain and avoid risk of related troubles.

Outstanding toughness

Thanks to sophisticated cooling system design and internal flow of thermal air, it can be operated up to 45°C of surrounding condition with enough safety margin.



*Maintenance interval could be changed under the surrounding condition of above 40°C.

Low noise package

As small compressors are commonly used closed to offices and residential areas, silence does matter.

Since screw type compressors generate less vibration, difference is obvious against piston type.

⟨ Typical piston type ⟩ 74dB 52dBA

Unpackaged

Easy operation, simple maintenance

■ Auto drain removal function

Compressors could generate drain, but removing drain by yourself is sometimes troublesome. With Auto drain removal function, compressor can automatically remove drain and avoid risk of related troubles.

March

720 L/min

■ Simple maintenance

Less maintenance leads to less ownership cost and less manpower.

With its robust design, recommended maintenance interval of Poly V belt is as long as

Poly V belt



Super Lub (Synthetic oil)

KOBELCO's original Super Lub is reliable and long life lubricants. maintenance interval is as long as 12,000hours.

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NEW GENERATION KOBELION

VS series [Inverter model / Air cooled]

	Discharge	Discharge	Nominal	Pipe	Fan motor	Lube Oil	Noise	Dimensions	Weight
Model	pressure	air flow	output	connection	output	Quantity	level	$W \times D \times H$	weight
	MPa	m³/min	kW	А	kW	L	dB (A)	mm	kg
VS22AIV		4.75 ~ 3.82 (4.25)	22	25	0.65	12 [13]	55	1,250 × 850 × 1,500	550
VS37AIV	0.4 ~ 0.85	7.7~ 6.4 (7.1)	37	40	1.1	19 [21]	58	1,550 × 950 × 1,600	710
VS55AIV	(0.7)	11.8 ~ 9.8 (10.6)	55	50	1.5	32 [40]	63	2,200 × 1,200 × 1,700	1,350
VS75AIV		15.2 ~ 13.0 (14.0)	75	50	3.0	32 [40]	65	2,200 × 1,200 × 1,700	1,430

VS series [Inverter model / Water cooled]

	Discharge	Discharge air flow	Nominal output	Pipe	Cooling	g Water	Lube Oil	Noise	Dimensions	Waisht
Model	pressure			connection	Water volume	Pipe connection	Quantity	level	W×D×H	Weight
	MPa	m³/min	kW	А	L/min	А	L	dB (A)	mm	kg
VS37WIV	0.4 ~ 0.85 (0.7)	7.7 ~ 6.4 (7.1)	37	40	65	25	13 [14]	58	1,550 × 950 × 1,600	690
VS55WIV		11.8 ~ 9.8 (10.6)	55	50	95	40	26 [28]	63	2,200 × 1,200 × 1,700	1,280
VS75WIV		15.2 ~ 13.0 (14.0)	75	50	125	40	30 [32]	65	2,200 × 1,200 × 1,700	1,330

Main motor : 6 pole, Synchronous IPM motor, Oil cooled, Class H, Inverter drive Electrical spec : Three-phases, 200 / 200 • 220V (380 • 400 • 415 / 400 • 440V) Constant pressure setting can be 0.85MPa at maximu

[] for initial charge

SG series [Fixed speed model / Air cooled]

	Discharge pressure	Discharge air flow	Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions	Weight
Model	procoure	u 11011	Carpar	0011110011011		additity	10101	W×D×H	
	MPa	m³/min	kW	A	kW	L	dB (A)	mm	kg
	0.75	4.15				12			
SG22AIV	0.85	3.9	22	25	0.65	[13]	55	1,250 × 850 × 1,500	720
	1.05	3.33				[13]			
	0.75	7.1				18			
SG37A IV	0.85	6.4	37	40	1.1	[19]	58	1,550 × 950 × 1,600	960
	1.05	5.85				[10]			
	0.75	10.6				30			
SG55AIV	0.85	10.0	55	50	1.5	[37]	64	2,200 × 1,200 × 1,700	1,690
	1.05	9.1				[57]			
	0.75	14.0				32			
SG75AIV	0.85	13.1	75	50	3.0	[40]	66	2,200 × 1,200 × 1,700	1,800
	1.05	12.0				[-0]			

SG series [Fixed speed model / Water cooled]

	Discharge	Discharge	Nominal	Pipe	Cooling	g Water	Lube Oil	Noise	Dimensions	Wai-b4	
Model	pressure	air flow	air flow output		Water volume	Pipe connection	Quantity	level	$W \times D \times H$	Weight	
	MPa	m³/min	kW	Α	L/min	А	L	dB (A)	mm	kg	
SG37WIV	0.75	7.1	37	40	65	25	12	58	1,550 × 950 × 1,600	950	
3G37 W IV	0.85	6.4	37	40		25	[13]	- 50	1,000 11000 11,000	330	
SG55WIV	0.75	10.6	55	50	95	40	26	64	2.200 × 1.200 × 1.700	1,640	
3G35W1V	0.85	10.0	33	30	95	40	[28]	04	2,200 ^ 1,200 ^ 1,700	1,040	
SC75WIV	0.75	14.0	75	50	125	40	30 [32]	66	2,200 × 1,200 × 1,700	1.720	
SG75WIV	0.85	13.1	/5	50	125	125 40		00	2,200 ^ 1,200 × 1,700	1,720	

Main Motor: 2-pole, TEFC induction motor, Class F, Star-delta drive Electrical spec: Three-phases, 200/200 • 220V (380 • 400 • 415/400 • 440V)

- *Suction conditions : Atmospheric pressure / 2 ~ 45°C *Discharge condition : below 45°C (ambient temperature : 30°C)
- *Discharge air volume is converted to suction conditions.
 *Discharge pressure are measured after coolers.
- *Air produced by compressors should not be used in respiratory equipment
- furnishing air for direct inhalation.
 *Nominal working pressure is as per below;
- 0.75MPa variant : 0.7MPa
- 0.85MPa variant: 0.8MPa 1.05MPa variant : 1.0MPa

- *Noise values are based on the height of 1.0m and at the distance of 1.5m in front from the compressor package in anechoic chamber and under full-load operation.
- *Since the cooling for the compressor air, lubricant, and the inside of the compressor unit depends on the surrounding air condition,
- the surrounding air must be properly ventilated to prevent the ambient temperature
- from rising above 45°C.
 *Specifications and descriptions are subject to change without notice.

[] for initial charge

- *Weight values are based on 220/220V model for air cooled type, 380/415V model for water cooled type.
 *For water cooled model : If the head of water supply and drain exceeds 10m, erosion
- may happen inside a heat exchanger. In that case, please adjust a hydraulic pressure with a water supply valve.









Small type

SG series

00 001100									
	Discharge	Discharge	Nominal	Pipe	Fan	Lube Oil	Noise	Dimensions	Weight
Model	pressure	air flow	output	connection	motor	Quantity	level	$W \times D \times H$	weight
	MPa	m³/min	kW	А	kW	L	dB (A)	mm	kg
SG100A∭-7.5	0.83	1.0	7.5	20		6	54		326
SG155AⅢ-11	0.83	1.55	11	20	-	7	55	1,100 × 675 × 1,290	354
SG235A[H]∭-15	0.7 [0.83]	2.35 [2.05]	15	25		9	56		369

Main motor : SG100A ${\rm I\hspace{-.1em}II}$ -7.5 : 4-pole, TEFC induction motor, Class-F, Soft start

 $SG155A \, \mathbb{II} \, \text{-} 11/SG235A \, \mathbb{II} \, \text{-} 15 : 2 \text{-} pole, TEFC induction motor Class-F, Soft start}$

Electrical spec : SG100A II -7.5/SG155AIII-11 : Three-phases, 200/220 •220V [400/400 •440V] [380 •415V] SG235A II -15 : Three-phases, 200/220 •220V [400/400 •440V] ★ 380/415V are only for SG100A/SG155A

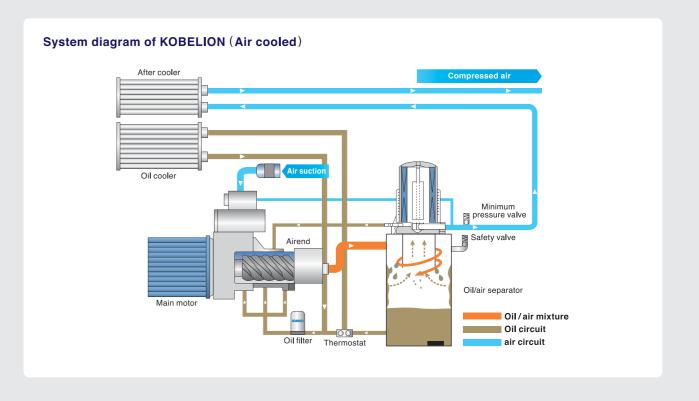
Weight values are based on 200/220V model.

March

	Discharge	Discharge	Nominal	Pipe	Lube Oil	Noise	Dimensions	Weinlet	
Model	pressure	air flow	output	connection	Quantity	level	W×D×H	Weight	
	MPa	L/min	kW	Α	L	dB (A)	mm	kg	
CM6UⅢ-5/6	0.83	720	5.5	20	3.6	56	750 × 650 × 850	232	

Main motor : 2-pole, TEFC induction motor, Class-F, Full-voltage starting Electrical spec : Three-phases, 200 • 220V/380 • 415V

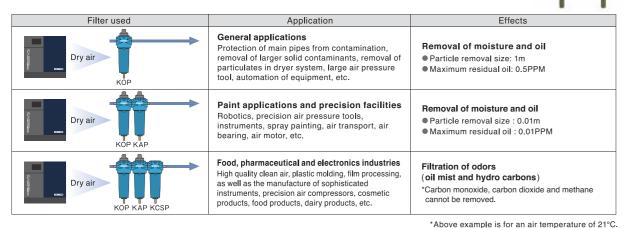
- *Suction conditions : Atmospheric pressure / $2 \sim 40 \, ^{\circ}\text{C}$
- *Discharge air volume is converted to suction conditions
- *Discharge pressure are measured after coolers.
- *Air produced by compressors should not be used in respiratory equipment furnishing air for direct inhalation.
- *Noise values are based on the height of 1.0m and at the distance of 1.5m in front from
- the compressor package in anechoic chamber and under full-load operation.
 *Since the cooling for the compressor air, lubricant, and the inside of the compressor
- unit depends on the surrounding air condition, the surrounding air must be properly ventilated to prevent the ambient temperature
- from rising above 40°C. *Specifications and descriptions are subject to change without notice.



KOBELCO Filters

Different types of products requires different grades of compressed air.

KOBELCO offers a diverse selection of filteration solution to meet your every demand.



■ Filter specification table

Model	Air capacity (m³/min)	Connections (Inch)	Applicable compressor
KOP/KAP/KCSP 120	1.2	3/4"	CM6II SG100II
KOP/KAP/KCSP 180	1.8	3/4"	SG155Ⅲ
KOP/KAP/KCSP 360	3.6	1"	SG235Ⅲ
KOP/KAP/KCSP 660	6.6	1 · 1/2"	VS22N SG22N
KOP/KAP/KCSP 960	9.6	2"	SG37Ⅳ
KOP/KAP/KCSP 1320	13.2	2"	VS37IV SG55IV
KOP/KAP/KCSP 1980	19.8	2 · 1/2"	VS55IV SG75IV
KOP/KAP/KCSP 2590	25.9	2 · 1/2"	VS75Ⅳ

*Air capacity is based on inlet pressure of 0.7MPa. Other than this condition, please contact us for proper sizing.

Group Controller Model EM

Efficient utilization of multiple compressors and accessories with energy saving.

Your merits are;

- ▶ Saving electricity consumption by optimizing the number of running compressor.
- Minimizing pressure band compare with conventional cascade pressure setting.
- Maximizing energy saving merit of variable speed compressor.
- ► Equalizing compressor running hours.
- ▶ Integrating auxiliary equipment control for further energy saving.





Enhanced operability with LCD touch operation monitor

- Operating conditions can be captured at a glance with 4.3 inch (for EM 42) and 7 inch (for EM 44 / EM 48) full color LCD monitor.
- Easy-to-set via touch operation monitor for all the range.
- Chart base display can be selected.



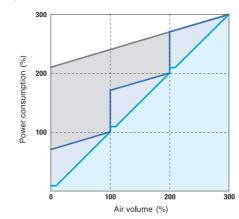
Heavy electrical protection and control

- Voltage dip protection (up to 0.5 sec), Black out auto restart (up to 15 min).
- Easy-to-set via touch operation monitor for all the range.
- Weekly timer (7 days preset operation).
- Timer base advance switch over for running hour equalization standardly equipped.
- Remote command for START and STOP standardly equipped.
- Machine under trouble will be automatically skipped to maintain system operation.

■ Control model

- Fixed speed × 3 units without group control
- Fixed speed × 3 units with group control
- Inverter × 1 unit Fixed speed × 2 units with group control

*Fixed speed : Inlet modulation



■ Specification

Model		EM 42	EM 44	EM 48			
Max No. of compres	sor	2	4	8			
Display		4.3 inch	7 inch	7 inch			
	Width	500	600	700			
Dimensions (mm)	Depth	200	200	200			
	Height	600	900	1,200			
Control pre	essure	0~1.5MPa					
Installation	style	Wall mount					
Weight (kg)		30 50 70					
Power sup	ply	AC 100V to 240V 50/60Hz 1Φ					

KOBELCO Energy Audit

How much can you cut your energy cost by optimizing air system? We will let you know.

3 simple steps of Energy Audit

Collecting the running data

KOBELCO visits customer site to collect existing compressors' running data with a small equipment.

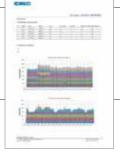


KOBELCO analyzes the collected data with KOBELCO's original software and considers the best suited air system.

3 Learning with KOBELCO

KOBELCO submits a read friendly report on analyzed existing compressors' data and energy saving potential by air system optimization.





- Why KOBELCO Energy Audit?
- No production interruptions
- Can be conducted at any time
- Rich experience all over the world
- Simulation & recommendation based on actual data measured
- Can be applicable to any brands of air compressor



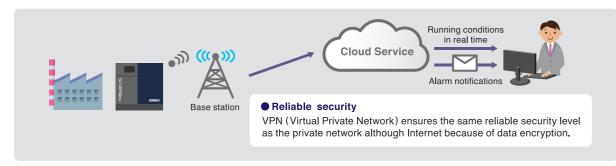


New air solution program with advanced IoT technology by KOBELCO

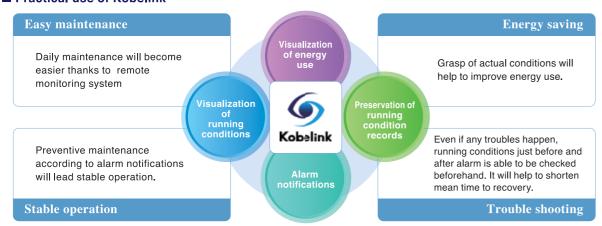
KOBELCO's Cloud service Kobelink

■ Anytime, Anywhere

Customers can monitor running conditions of compressors anytime, anywhere because they are updated and can be accessed through Cloud service in real time. Moreover, alarm notifications will help stable operation.



■ Practical use of Kobelink



Things to be noted when using Kobelink

A special kit ("Kobelink Kit") is required for using Kobelink. There are two types of Kobelink Kits depending on the type of compressor you are using, namely, [Built-In Type], which can be mounted inside the compressor unit, and [External Type], which requires additional installation.

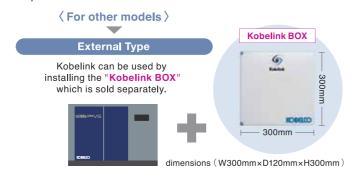
 \langle For the latest models KOBELION IV \rangle

Built-In Type

They are compressor built-in types which allow the use of Kobelink with a simple installation work.



*Kobelink Kit will be shipped only to customers who have agreed to avail Kobelink services upon ordering KOBELIONIV.



*Installation, power supply wiring, and wire connection with the compressor shall be done by the customer in accordance with the operation manual.

You may not be able to mount the Kobelink Kit to a compressor of another manufacturer and some of our small-size models. Please contact our sales representative for models that are compatible with Kobelink and the type of installation.

The strong partnership with our customers is producing fruitful results throughout the world.

KOBELCO COMPRESSOR sales and production locations are based in the regions of Asia and North America, in response to expanding demand overseas. Domestically KOBELCO responds to customer requirements in a meticulous manner through sales offices and service centers nationwide, which provide support for customers in a coordinated manner, covering all their needs ranging from daily support work to proposals for the implementation of new technologies.



Japan

KOBE STEEL, LTD.
KOBELCO COMPRESSORS CORPORATION [KCC]

China

KOBELCO COMPRESSORS MANUFACTURING (SHANGHAI) CORPORATION [KCMS]

⟨ Beijing⟩ KOBELCO COMPRESSORS (SHANGHAI)

CORPORATION BEIJING BRANCH 【KCSB】

⟨Shanghai⟩ KOBELCO COMPRESSORS (SHANGHAI)
CORPORATION 【KCS】

(Guangzhou) KOBELCO COMPRESSORS (SHANGHAI)
CORPORATION Guangdong Office [KCSG]

Singapore

KOBELCO MACHINERY ASIA PTE. LTD. [KMA]

Vietnam

KOBELCO COMPRESSORS VIETNAM CO., LTD. [KCV]

Thailand

KOBELCO COMPRESSORS (THAILAND) LTD. [KCTH]

Philippines

KOBELCO COMPRESSORS AND MACHINERY
PHILIPPINES CORPORATION [KCMP]

Malaysia

KOBELCO COMPRESSORS MALAYSIA SDN. BHD. [KCM]

Indonesia

PT KOBELINDO COMPRESSORS

Cambodia

KOBELCO COMPRESSORS (CAMBODIA) CO., LTD. [KCCP]

India

KOBELCO COMPRESSORS INDIA PVT. LTD. [KCIN]

America

KOBELCO COMPRESSORS MANUFACTURING INDIANA, INC. [KCMI]



Safety Precautions

- 1. Before operating, be sure to read the entire instruction manual and follow all safety directions.
- 2. Never attempt to perform unauthorized equipment modifications. Doing so could cause accidents resulting in injury.
- 3. The compressors are designed to compress air. Never use them with other gases. Doing so could result in accidents or breakdowns.
- 4. Never directly inhale the compressed air or use it for respiration systems of any kind. Doing so could cause pulmonary injury.