

KOBELION

SCREW COMPRESSOR

Oil Injected Screw Compressor General Catalog



KOBELION

SCREW COMPRESSOR

KOBELCO COMPRESSORS CORPORATION
KOBELCO COMPRESSORS
MANUFACTURING (SHANGHAI)
CORPORATION



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.



Change the Future by Air and Heat technology

We want to contribute to a low-carbon society by pursuing environmental performance.

Amid growing global concerns about climate change, carbon neutrality, and other environmental issues, the world is actively working towards a low-carbon society.

The compressor field is also accelerating its energy-saving efforts. Compressors, which support manufacturing, consume a large amount of electricity, so energy-saving will have a tremendous impact on CO₂ reduction.

“KOBELION VS Series” and other products that KOBELCO offers to the world combine advanced energy-saving performance and high reliability.

It is the ideal model demanded by this day and age.

To accelerate the realization of a low-carbon society, KOBELCO remains committed to developing environmentally friendly compressors and energy-saving technologies.

KOBELCO



Diverse choices for the best of your use.

NEW GENERATION
KOBELION
SCREW COMPRESSOR



INVERTER
control



IPM
motor



Full color
touch monitor



Group control
with hard wire*1

VS
series



Motor
output **22-75 kW**

Discharge
air flow **3.8-15.1 m³/min**



P.7

AG
series



Motor
output **15-90 kW**

Discharge
air flow **2.18-18.1 m³/min**



P.13



NEW GENERATION

KOBELION
SCREW COMPRESSOR

Large type VS+ / AG+ series

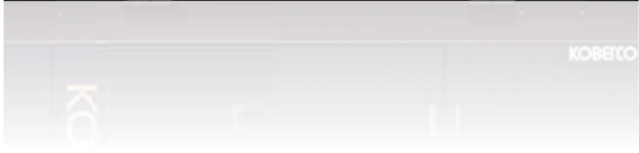
Motor
output **110-160 kW**

Discharge
air flow **19.0-35.0 m³/min**



* Only VS+

P.19



KOBELION
SCREW COMPRESSOR

Large type VS / AG series

Motor
output **110-250 kW**

Discharge
air flow **18.6-43.4 m³/min**



* Only VS

P.21



SG
series



Motor
output **15-90 kW**

Discharge
air flow **2.18-18.1 m³/min**

P.14

VS
series



Motor
output **75-90 kW**

Discharge
air flow **12.8-20.2 m³/min**



P.17

		(kW)												
Model	Type	15	22	30	37	45	55	75	90	110	132	160	200	250
VS+	INVERTER							●		●	●	●		
VS			●		●		●	●	●	●	●	●	●	●
AG+	Fixed speed									●	●	●		
AG		●	●		●		●	●	●	●	●	●	●	●
SG		●	●	●	●	●	●	●	●					

KOBELION

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 elements, achieved up to 15% lower specific power consumption and up to 17% more air volume compared to previous model.



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 46°C, can be operated up to 50°C.



Full color touch monitor*

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

* Available for NGSC-430/700 controller

KOBELION VS

SCREW COMPRESSOR

Motor power	Discharge air flow	Specification
22-75 kW	3.8-15.1 m ³ /min	P.23



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.)
- 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

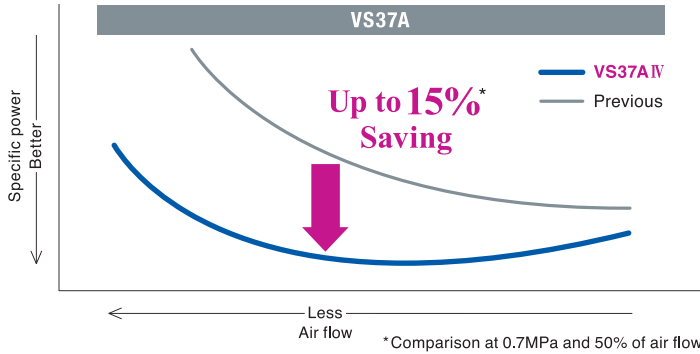
With built in overhung design, adjusting and replacing of v-belt is no longer necessary.
It is not even required to change or re-grease motor bearings.



Ultimate specific power consumption

Thanks to newly developed Air-End from its rotor profile, super premium efficiency IPM motor and optimised package design, KOBELION VS achieved best in class specific power consumption.

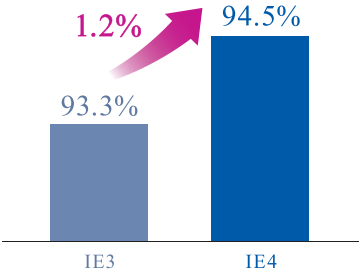
Specific power consumption comparison



Super Premium Efficiency IPM Motor (IE4 equiv.)

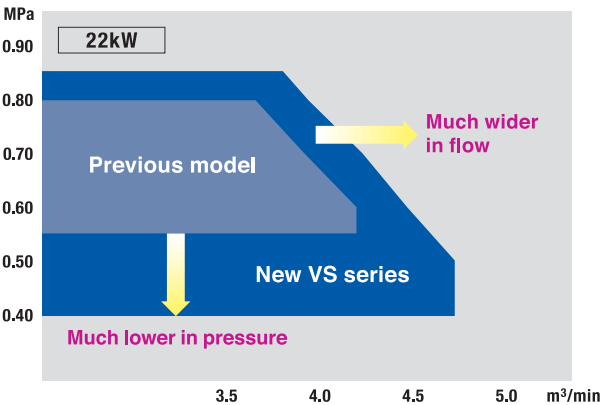
New KOBELION VS series equips super premium efficiency IPM (interior permanent magnet) motor, which efficiency is equivalent to IE4 of IEC standard. IPM has better efficiency from low load to high load compare to induction motor. This IPM is with oil cooled jacket cooling system with insulation class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

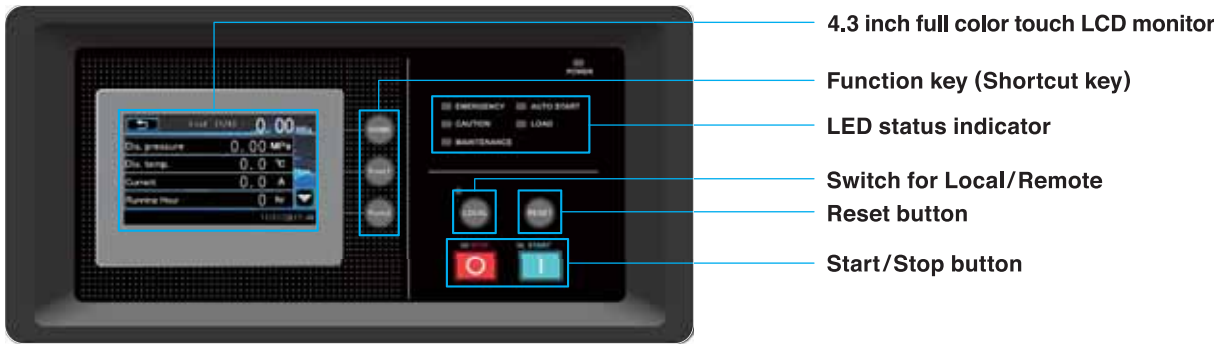


■ Increased discharge air flow by Wide Range Control

	0.85MPa	0.8MPa	0.7MPa	0.5MPa	0.4MPa
22kW	3.8	3.94	4.22	4.72	4.72
Increased rate	Base	104%	111%	124%	124%
37kW	6.3	6.5	7.0	7.6	7.6
Increased rate	Base	103%	111%	121%	121%
55kW	9.65	10	10.6	11.4	11.8
Increased rate	Base	104%	110%	118%	122%
75kW	12.9	13.1	13.9	14.8	15.1
Increased rate	Base	102%	108%	115%	117%



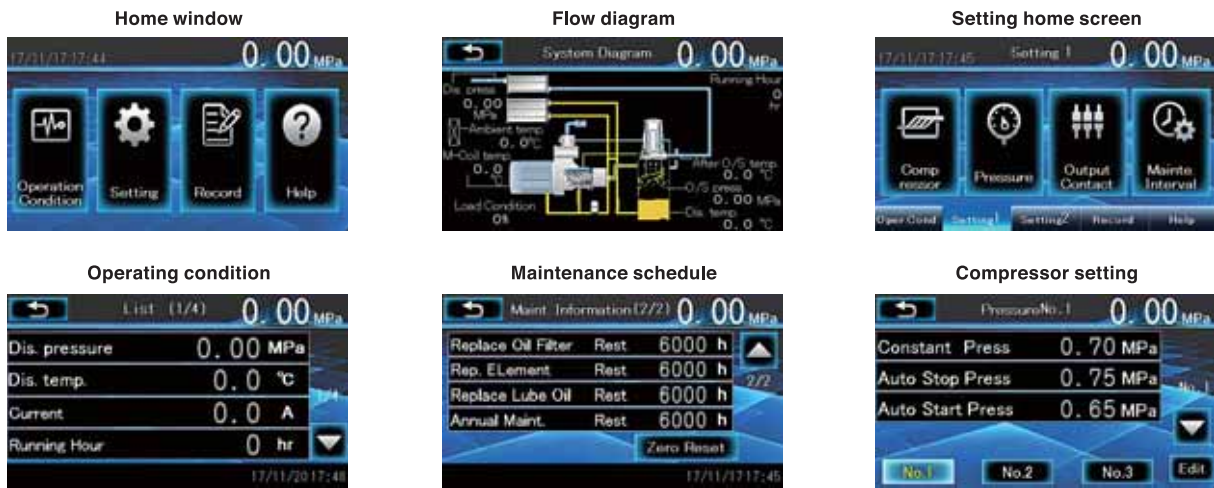
New Generation Smart Controller
NGSC-430 controller as standard



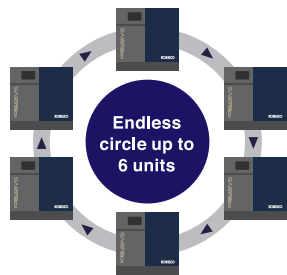
NGSC-430 for VS series equips 4.3 inch full color touch operation monitor.
Sophisticated LCD interface enables you to figure out following information at a glance.

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

Various user interface



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)

Other features

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



Monitor can be upgrade as option

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 etc

Controller can be upgrade as option



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

INVERTER

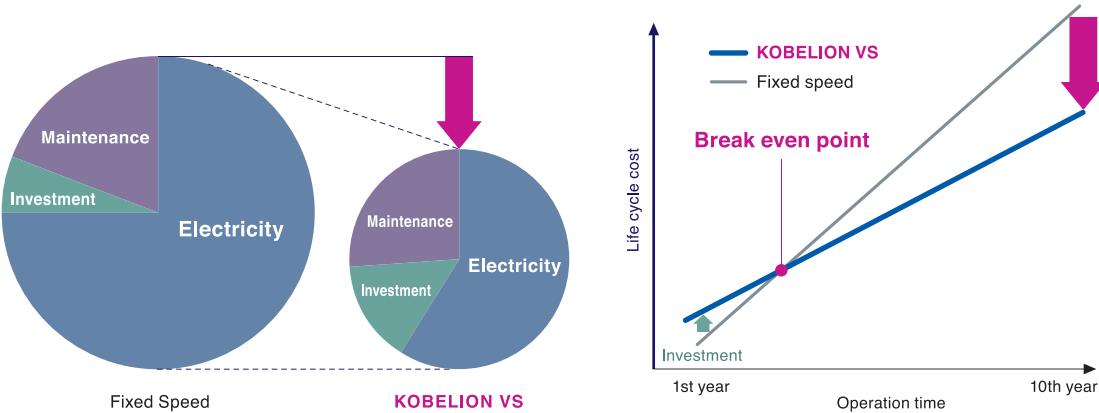
Since we firstly applied IPM motor on INVERTER compressor in 1998, we have been accumulated know-how of INVERTER compressor for nearly 20 years. Our advanced energy saving technology have been chosen by various fields of industry over the years.



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

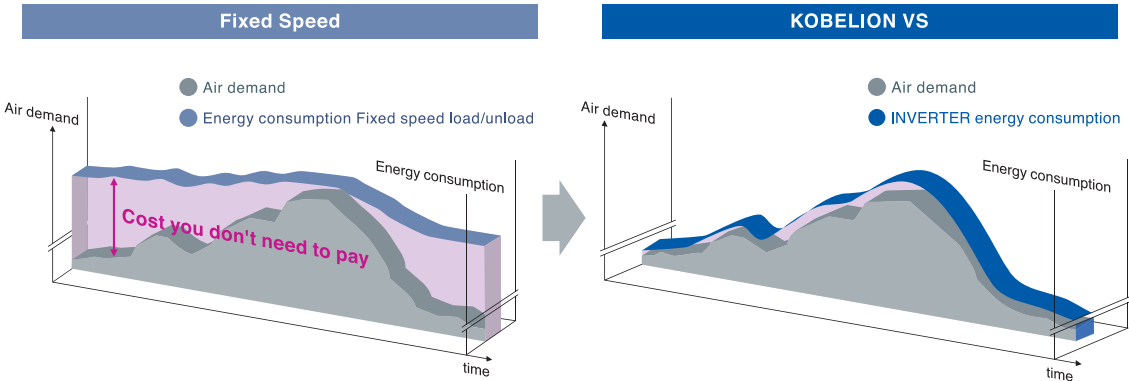
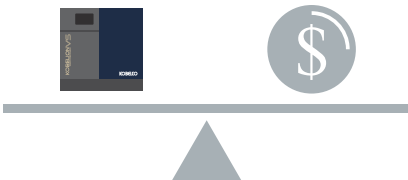


Can Save
Approx. 30%
of life cycle cost (LCC)

* **Comparison model** VS22IV (Latest INVERTER model)
SG22A (Previous fixed speed model Load/Unload)
* **Conditions** Yearly running hour:6,000hours, Total running year:10 years:Load ratio:40%,
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

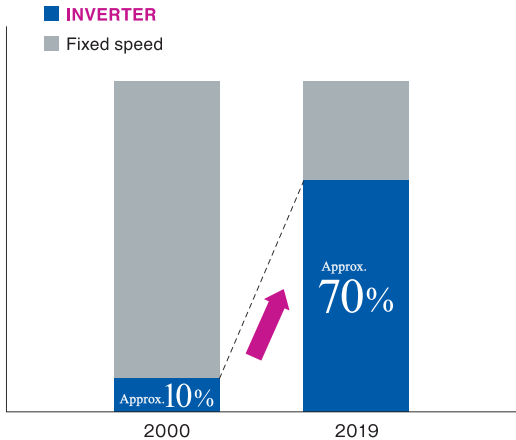
In every situation in our life, we pay only for what we eat, drink and use etc. Of course, compressors also should be that way. KOBELION VS can adjust compressor's rotating speed depends on the demand of factory load which changes from moment to moment by own developed algorithm. Thus, it can provide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



Already majority in Japan

Approx. **70%**

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



KOBELION AG

SCREW COMPRESSOR

Motor power	Discharge air flow	specification
15-90kW	2.18-18.1 m ³ /min	P.23



New Generation Air-end, Direct Gear Drive, IE3 premium efficiency motor standardly equips to minimize all types of losses and achieves best rated performance as base load machine. Industry leading quality with IoT compatible control. Best in class air flow in all the range.

PREMIUM LINE - Fixed speed model

- Extreme efficiency
- Direct Gear Drive
- Premium efficiency motor (IE3)
- Resistance to high ambient up to 50°C

KOBELION SG

SCREW COMPRESSOR

Motor power	Discharge air flow	specification
15-90kW	2.18-18.1 m ³ /min	P.24



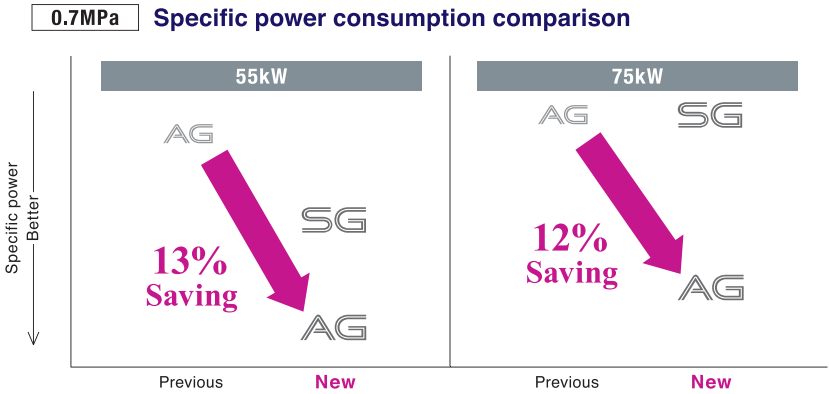
New Generation Air-end, Direct Gear Drive, IE3 premium efficiency motor standardly equips. Integration of cutting-edge technology as industrial compressor for highest reliability and simple controllability.

STANDARD LINE - Fixed speed model

- Best-in-class discharge air flow
- Direct Gear Drive
- Premium efficiency motor (IE3)
- Resistance to high ambient up to 50°C

Ultimate specific power consumption

KOBELION AG equips state-of-the-art extra large size air end. Newly developed profile rotors and flow-optimized bearing lube control boost energy efficiency to the highest standard. Up to 15% energy, 8.5% on average more efficient compare to its previous model.



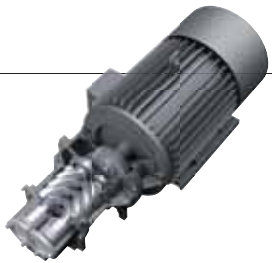
NGSC-430 controller as standard* *AG90 is equipped with a 7.0 inch monitor.



- 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

Direct Gear Drive (AG/SG)

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.



Best in Class discharge air flow

New KOBELION SG achieves best-in-class discharge air flow, and max 17% increase from existing model, thanks to New Generation Air-end.

Previous model	30kW	5.4	9% UP	5.9
New SG series	45kW	8.1	12% UP	9.1

Model	0.75MPa	0.85MPa	1.05MPa
SG30AN	5.9	5.4	4.75
Previous model	109%	110%	111%
SG37AN	7.0	6.4	5.7
Previous model	105%	102%	104%
SG45AN	9.1	8.5	7.7
Previous model	112%	112%	117%

NGSC-200 controller as standard

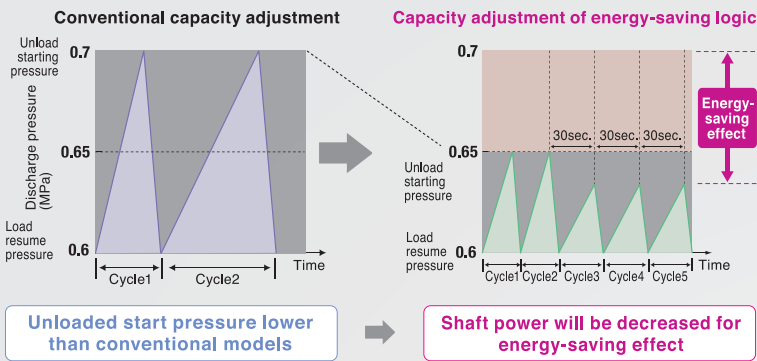


- 5 digits segment LED monitor
- Operation / Maintenance / Alarm / Interlock information
- Compressor setting
- LED status indication
- Remote I / O (Start / Stop / Load / Alarm / Trip)
- Modbus I / O etc

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

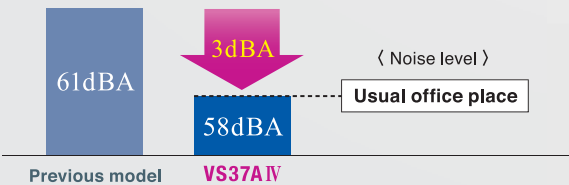
Dust filter as standard

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



Low noise 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℃ ambient condition. All the component like split designed oil cooler and after cooler is designed for extreme condition. Against 46℃ continuous duty, we still have safety margin.

*Maintenance interval may be changed under the surrounding condition of above 46℃.



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 treatment. This is our endless challenge for more reliability.

KOBELION VS

SCREW COMPRESSOR

Motor power	Discharge air flow	specification
75-90 kW	12.8-20.2 m ³ /min	P.23

The direct-coupled gear-driven inverter models are equipped with a super premium efficiency IE4 induction motor, which has high energy-saving performance and a wide pressure range to meet the needs of customers.



DIRECT GEAR DRIVE MODEL

Energy saving with Inverter

Direct Gear Drive

Super premium efficiency
IE4 motor as standard

New Wide Range Control

Up to 50°C ambient condition

7.0 inch full color touch LCD monitor

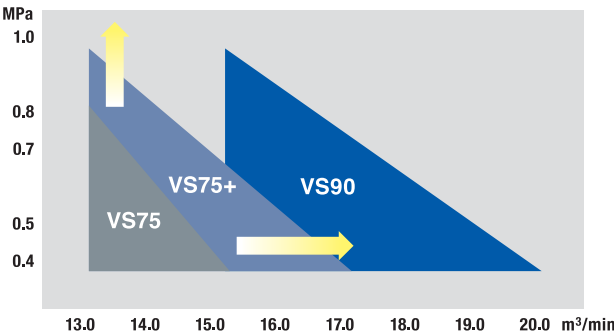
Super premium efficiency motor (IE4)

Equipped with a super-premium efficiency IE4 induction motor, the energy-saving performance reaches the highest level in the series.



“Wider and more” New Wide Range Control

The selection of the optimum air-end and the direct gear structure with the motor realize high air volume, and at low pressure setting, the wide range control function covers the air volume range of machines one size larger. The optimal model can be selected for your low-pressure needs.



NGSC-700 controller as standard



- 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
- etc

Our prides

- Quality, always our first priority
- Complete in-house technologies, including screw element material
- Insatiable challenges for technology upgrade
- No compromise for every detail
- Proven experience of over 100 years

KOBELION^{VS} • AG

SCREW COMPRESSOR

Motor power	Discharge air flow	Specification
110-160kW	19.0-35.0 m ³ /min	P.25



Large high-efficiency model with further evolution.

The ultimate high-efficiency model equipped with a newly developed air-end and optimized pressure loss in each part. KOBELCO's overwhelming technological strength delivers to you the simple design of single-stage compression and high efficiency, together with conventional reliability.

- New generation Air-end
- Super premium IE4 motor as standard
- Up to 50°C ambient condition
- Direct Gear Drive
- New Wide Range Control

Powered by Cutting-Edge High-Efficiency Air-End

New generation air-end, delivering significant efficiency improvement compared to previous model. Direct-Gear-Drive design eliminates maintenance of coupling and v-belt ensuring seamless integration of the powertrain. Experience enhanced reliability and extended maintenance intervals.



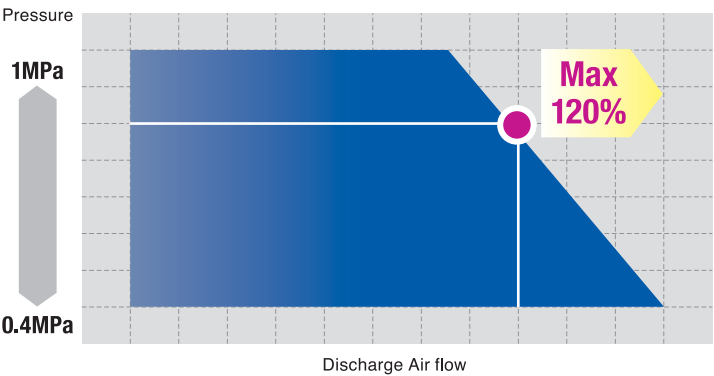
Super premium IE4 motor as standard

Equipped with industry-leading IE4 motors across all models, achieving top-class efficiency. The utilization of dimensionally stabilized bearings enhances reliability under high-load conditions.



Wide range control (VS+)

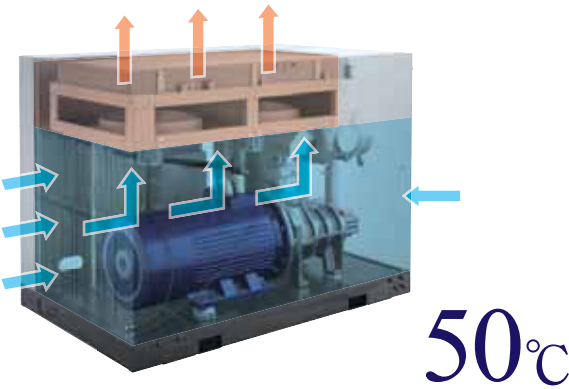
KOBELCO's wide range control, a pioneer in low-pressure increased airflow control for inverter machines, is also applied to large oil-injected models. A single model provides optimal variable speed control at all pressure points to optimize the user's energy-saving benefits.



Improved air quality and environmental durability



The adoption of spacious air piping and Victaulic joints reduce vibration and contributes to low pressure losses in the discharge air lines. The oil separation performance maintains its industry-leading standards of 1.6ppm and less.



Standard equipped filter elevates the environmental performance against dust and firth. Optimized cooling system enables to run even up to 50°C ambient temperature.

KOBELION VS·AG

SCREW COMPRESSOR

Motor power

110-250kW

Discharge air flow

18.6-43.4 m³/min

Specification

P.25



Extreme durability & reliability, extra peace of mind.

High durability & reliability

- Optimized internal air flow and thermal pattern by separation of HOT and COOL zone and professional air duct design.
- Continuous operation under 46°C ambient condition with more margin against tripping point.



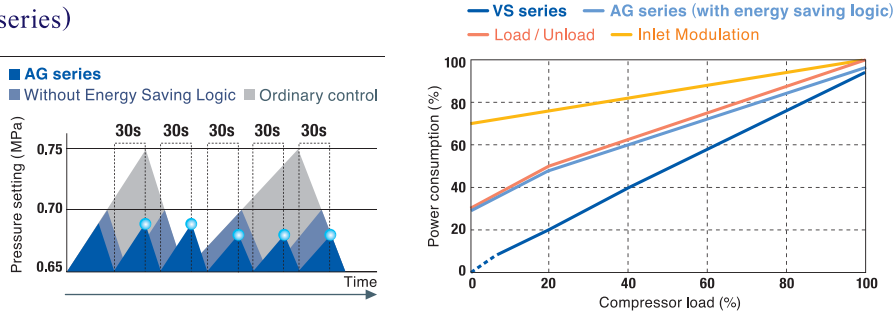
Big touch color monitor

- Sophisticated LCD interface enables you to see operation conditions at a glance.



Energy saving logic (AG series)

- Automatically unloading if unload/load cycle is longer than setting time (30 seconds) and eliminates unnecessary pressure rise.



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 EM4-2) and 7 inch (for EM4-4 / EM4-8) full color LCD monitor.
- Easy-to-set via touch operation monitor for all the range.
- Chart base display can be selected.



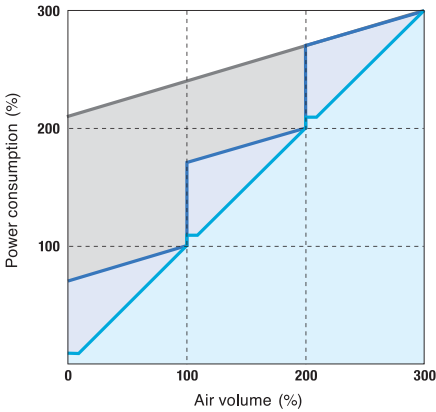
Heavy electrical protection and control

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

*Fixed speed : Inlet modulation



Specification

Model		EM4-2	EM4-4	EM4-8
Max No. of compressor		2	4	8
Display		4.3 inch	7 inch	7 inch
Dimensions (mm)	Width	500	600	700
	Depth	200	200	200
	Height	600	900	1,200
Control pressure		0~1.5MPa		
Installation style		Wall mount		
Weight (kg)		30	50	70
Power supply		AC 100V to 240V 50/60Hz 1Φ		



NEW GENERATION KOBELION
VS / AG / SG series

VS series 【IPM motor Inverter model / Air cooled】

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions	Weight
		m³/min	cfm						W×D×H	
	MPa			kW	A	kW	L	dB (A)	mm	kg
VS22AⅣ	0.4-0.85 [0.7]	4.72-3.8 [4.22]	167-134 [149]	22	25	0.55	12 (13)	55	1,250×850×1,500	560
VS37AⅣ		7.6-6.3 [7.0]	268-222 [247]	37	40	1.1	19 (21)	58	1,550×950×1,600	720
VS55AⅣ		11.8-9.65 [10.9]	417-341 [385]	55	50	1.5	32 (40)	63	2,200×1,200×1,700	1,330
VS75AⅣ		15.1-12.9 [13.9]	533-456 [491]	75	50	3.0	32 (40)	65	2,200×1,200×1,700	1,400

Main motor : 6pole, Synchronous IPM motor, Oil cooled, Class H, Inverter drive, Electrical spec : 380/415V, 50Hz
Constant pressure setting can be 0.85MPa at maximum.
() for initial charge

VS series 【Induction motor Inverter model / Air cooled】

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions	Weight
		m³/min	cfm						W×D×H	
	MPa			kW	A	kW	L	dB (A)	mm	kg
VS75+ AⅣ	0.4-0.85 [0.7]	16.8-14.1 [15.0]	593-498 [530]	75	50	3.0	32 (40)	67	2,200×1,200×1,700	1,970
VS75+ AⅣ-H	0.4-1.05 [0.8]	15.5-12.8 [14.7]	547-452 [519]	75		3.0	32 (40)	67		1,970
VS90AⅣ	0.4-0.85 [0.7]	20.2-16.5 [18.1]	713-583 [639]	90		4.0	35 (43)	69		2,110
VS90AⅣ-H	0.4-1.05 [0.8]	18.0-14.6 [16.8]	636-516 [593]	90		4.0	35 (43)	69		2,110

Main motor : 2pole, TEFC induction motor, IE4, Class F, Inverter drive, Electrical spec : 380/415V, 50Hz
The Maximum pressure for constant pressure control is up to 1.05MPa.
() for initial charge

AG series 【Fixed speed model / Air cooled】

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions	Weight
		m³/min	cfm						W×D×H	
	MPa			kW	A	kW	L	dB (A)	mm	kg
AG15AⅣ	0.75	2.75	97.1	15	25	0.55	10 (11)	55	1,250×850×1,500	650
	0.85	2.53	89.3							
	1.05	2.18	77							
AG22AⅣ	0.75	4.15	147	22	25	0.55	11 (12)	55	1,250×850×1,500	750
	0.85	3.9	138							
	1.05	3.2	113							
AG37AⅣ	0.75	7.3	258	37	40	1.1	18 (20)	58	1,550×950×1,600	1,020
	0.85	6.9	244							
	1.05	6.2	219							
AG55AⅣ	0.75	11.3	399	55	50	1.5	32 (40)	64	2,200×1,200×1,700	1,790
	0.85	10.5	371							
	1.05	9.6	339							
AG75AⅣ	0.75	15.0	530	75	50	3.0	32 (40)	67	2,200×1,200×1,700	2,000
	0.85	14.7	505							
	1.05	12.9	456							
AG90AⅣ	0.75	18.1	639	90	50	4.0	35 (43)	69	2,200×1,200×1,700	2,230
	0.85	16.8	593							
	1.05	15.2	537							

Main motor : 2pole (4pole for AG15AⅣ), TEFC induction motor, IE3, Class F, Star-delta drive, Electrical spec : 380/415V, 50Hz
() for initial charge

SG series 【Fixed speed model / Air cooled】

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions	Weight
		m³/min	cfm						W×D×H	
	MPa			kW	A	kW	L	dB (A)	mm	kg
SG15AⅣ	0.75	2.53	89.3	15	25	0.55	10 (11)	55	1,250×850×1,500	650
	0.85	2.53	89.3							
	1.05	2.18	77							
SG22AⅣ	0.75	3.9	138	22	25	0.55	11 (12)	58	1,250×850×1,500	730
	0.85	3.9	138							
	1.05	3.2	113							
SG30AⅣ	0.75	5.9	208	30	40	1.1	18 (20)	58	1,550×950×1,600	940
	0.85	5.4	191							
	1.05	4.75	168							
SG37AⅣ	0.75	7.0	247	37	40	1.1	18 (20)	58	1,550×950×1,600	970
	0.85	6.4	226							
	1.05	5.7	201							
SG45AⅣ	0.75	9.1	321	45	50	1.1	30 (37)	63	2,200×1,200×1,700	1,640
	0.85	8.5	300							
	1.05	7.7	272							
SG55AⅣ	0.75	10.7	378	55	50	1.5	30 (37)	64	2,200×1,200×1,700	1,690
	0.85	10.1	357							
	1.05	9.1	321							
SG75AⅣ	0.75	13.9	491	75	50	3.0	32 (40)	66	2,200×1,200×1,700	1,800
	0.85	13.4	473							
	1.05	12.0	424							
SG90AⅣ	0.75	18.1	629	90	50	4.0	35 (43)	69	2,200×1,200×1,700	2,230
	0.85	16.8	583							
	1.05	15.2	537							

Main motor : 2pole, TEFC induction motor, IE3, Class F, Star-delta drive, Electrical spec : 380/415V, 50Hz
() for initial charge

*Suction conditions Absolute suction pressure : 1bar, Suction temperature : 20°C, Humidity : 0%RH
*Discharge air volumes is converted to suction conditions.
*Discharge pressures are measured after gas 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 1.0 m and at the distance of 1.5 m in front from the compressor package in anechoic chamber and under full-load operation.
*Tolerance of noise value : ±3dB
*Since the cooling for the compressed 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 46°C.
*Specifications and descriptions are subject to change without notice.
*Weight values are based on 380V model.
*Please be sure to use KOBELCO genuine lubricants.



NEW GENERATION KOBELION Large type
VS+ /AG+ series

VS+series (Performance line) [Inverter model / [A]:Air cooled [W]:Water cooled]

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube oil quantity	Noise level	Dimension W×D×H	Weight
	MPa	m³/min	cfm	kW	A	kW × qty	L	dB (A)	mm	
VS110+ A / W	0.40-1.05 [0.7]	24.9-19.0 [22.0]	879-671 [777]	110	80	1.8×2 (0.37×1)	80	69	2,600 × 1,600 × 1,910	3,370 (3,220)
VS132+ A / W		29.5-22.0 [26.0]	1,042-777 [918]	132		3.0×2 (0.37×1)	85	70		3,590 (3,450)
VS160+ A / W		35.0-26.2 [31.1]	1,236-925 [1,098]	160		3.0×2 (0.37×1)	95	71		3,730 (3,620)

Main motor : 4-pole, TEFC Induction motor, IE4, Class F, Inverter drive Electrical spec : 380/415V-50Hz () for water cooled model
The maximum pressure for constant pressure control is up to 1.05MPa.

AG+series (Performance line) [Fixed speed model/ [A]:Air cooled [W]:Water cooled]

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube oil quantity	Noise level	Dimension W×D×H	Weight
	MPa	m³/min	cfm	kW	A	kW × qty	L	dB (A)	mm	
AG110+ A / W	0.75	22.0	777	110	80	1.8×2 (0.37×1)	80	69	2,600 × 1,600 × 1,910	3,260 (3,190)
	0.85	20.7	731							
	1.05	19.0	671							
AG132+ A / W	0.75	26.0	918	132	80	3.0×2 (0.37×1)	85	70	2,600 × 1,600 × 1,910	3,430 (3,340)
	0.85	24.5	865							
	1.05	22.2	784							
AG160+ A / W	0.75	31.1	1,098	160	80	3.0×2 (0.37×1)	95	71	2,600 × 1,600 × 1,910	3,490 (3,450)
	0.85	29.2	1,031							
	1.05	26.5	936							

Main motor : 4-pole, TEFC Induction motor, IE4, Class F, Star-delta drive Electrical spec : 380/415V-50Hz () for water cooled model



KOBELION Large type VS /AG series

VS series [Inverter model / [A] : Air cooled [W] : Water cooled]

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions W×D×H	Weight
	MPa	m³/min	cfm	kW	A	kW	L	dB (A)	mm	
VS110A / W	0.75	21.4	756	110	80	1.8×2 (0.37)	81	69	2,600 × 1,600 × 1,850	3,000 (2,900)
VS110A / W- H	0.85	20.2	713							
VS110A / W- GH	1.0	18.6	657							
VS132A / W	0.75	25.4	897	132	80	3.0×2 (0.37)	81	70	2,600 × 1,600 × 1,850	3,250 (3,050)
VS132A / W- H	0.85	24.1	851							
VS132A / W- GH	1.0	21.4	756							
VS160A / W	0.75	30.3	1,070	160	80	3.0×2 (0.55)	98	71	2,600 × 1,600 × 1,850	3,600 (3,250) 3,500(3,150)
VS160A / W- H	0.85	28.8	1,017							
VS160A / W- GH	1.0	23.8	840							
VS200A / W	0.75	37.3	1,317	200	100	4.0×2 (0.37)	170	73 (72)	3,060 × 2,120 × 2,150	4,900 (5,000)
VS200A / W- H	0.85	34.2	1,208							
VS200A / W- GH	1.0	31.1	1,098							
VS250A / W	0.75	43.4	1,533	250	100	4.0×2 (0.37)	195	75 (72)	3,060 × 2,120 × 2,150	5,300 (5,400)
VS250A / W- H	0.85	41.4	1,462							
VS250A / W- GH	1.0	38.6	1,363							

Main motor : 4pole, TEFC induction motor, Class F, Inverter drive, Electrical spec : 380/415V, 50Hz () for water cooled model

AG series [Fixed speed model / [A] : Air cooled [W] : Water cooled]

Model	Discharge pressure	Discharge air flow		Nominal output	Pipe connection	Fan motor	Lube Oil Quantity	Noise level	Dimensions W×D×H	Weight
	MPa	m³/min	cfm	kW	A	kW	L	dB (A)	mm	
AG110A / W	0.75	21.4	756	110	80	1.8×2 (0.37)	81	69	2,600 × 1,600 × 1,850	2,950 (2,850)
AG110A / W- H	0.85	20.2	713							
AG110A / W- GH	1.0	18.6	657							
AG132A / W	0.75	25.4	897	132	80	3.0×2 (0.37)	81	70	2,600 × 1,600 × 1,850	3,150 (2,950)
AG132A / W- H	0.85	24.1	851							
AG132A / W- GH	1.0	21.4	756							
AG160A / W	0.75	30.3	1,070	160	80	3.0×2 (0.55)	98	71	2,600 × 1,600 × 1,850	3,500 (3,150)
AG160A / W- H	0.85	28.8	1,017							
AG160A / W- GH	1.0	25.8	911							
AG200A / W	0.75	37.3	1,317	200	100	4.0×2 (0.37)	170	73 (72)	3,060 × 2,120 × 2,150	4,900 (5,000)
AG200A / W- H	0.85	34.2	1,208							
AG200A / W- GH	1.0	31.1	1,098							
AG250A / W	0.75	43.4	1,533	250	100	4.0×2 (0.37)	195	75 (72)	3,060 × 2,120 × 2,150	5,300 (5,400)
AG250A / W- H	0.85	41.4	1,462							
AG250A / W- GH	1.0	38.6	1,363							

Main motor : 4pole, TEFC induction motor, Class F, Inverter drive, Electrical spec : 380/415V, 50Hz () for water cooled model

*Suction conditions Absolute suction pressure : 1bar, Suction temperature : 20°C,
Humidity : 0%RH
*Discharge air volumes is converted to suction conditions.
*Discharge pressures are measured after gas 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 1.0 m and at the distance of 1.5 m in front
from the compressor package in anechoic chamber and under full-load operation.

*Since the cooling for the compressed 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.
*Weight values are based on 380V model.
*Please be sure to use KOBELCO genuine lubricants.

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.



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● Production base

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KOBELCO COMPRESSORS CORPORATION

China

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KOBELCO COMPRESSORS INDIA PVT. LTD.

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KOBELCO COMPRESSORS MANUFACTURING INDIANA, INC.



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.