

Single-switch selection of Intermittent or Continuous operation, Equipped with Ace Controller

GK Series

Efficient, Economical and Dependable... One compressor, double the function. A single switch allows selection of either continuous or intermittent compressor operation, so there's no need to choose a compressor for just one particular application.

When used in the intermittent operation mode, starting and stopping are smoother because the compressor stops and restarts after idle running in an unloaded state.

The unloaded state of GK Series compressors during intermittent operation reduces oil consumption and significantly improves the durability of most parts, resulting in lower operating costs. Stopping in an unloaded state means there's no sudden sound of air discharge typical of conventional intermittent-operation compressors.



G-15CK



G-22CK

2-stage compressor



GK-37

2-stage compressor



GK-55C

2-stage compressor



GK-75C

2-stage compressor



GK-110C

2-stage compressor



GK-150C

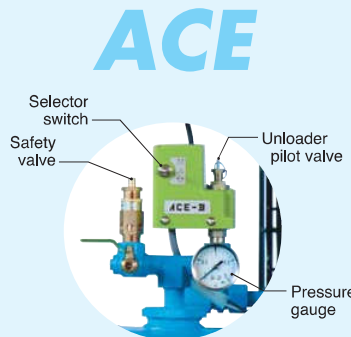
Model No.	Motor output kW [ps]	Operating pressure MPa [kgf/cm ²]	Free air delivery L/min	Basic compressor		Air tank capacity L	Air outlet dia. × qty. B	Approx. dimensions L × W × H mm mm mm	Noise level dB(A)	Weight (including motor) kg
				Rotating speed rpm	Model No.					
G-15CK	1.5 [2]	0.78 } 0.98 [8~10]	160	975	GNO-2C	71	G ¹ / ₄ ×1	1,130×394×758	73	98
G-22CK	2.2 [3]		240	985	GNO-3C	80	G ¹ / ₄ ×2	1,227×394×770	74	115
GK-37	3.7 [5]		430	950	BT-37	120	G ¹ / ₄ ×1, Rc ¹ / ₂ ×1	1,378×425×890		183
GK-55C	5.5 [7.5]		660	910	BT-55C	150	G ¹ / ₄ ×1, Rc ³ / ₄ ×1	1,395×500×1,065	76	268
GK-75C	7.5 [10]		840	870	BT-75C	240		1,560×600×1,150		318
GK-110C	11 [15]		1,360	945	BT-110C	260	G ¹ / ₄ ×1, Rc1×1	1,660×620×1,234	78	426
GK-150C	15 [20]	1,660	1,050	BT-150CP	260	1,660×620×1,242		80	466	

- The specifications of G-15CK, G-22CK, and GK-150C is based on IE1 motor.
- The specifications of GK-37, GK-55C, GK-75C, and GK-110C is based on IE3 motor.

What's an ACE Controller? Advanced Controller for Economical Operation

An ACE controller combines the functions of an unloader pilot valve and a pressure switch to allow one-touch switching between continuous and intermittent operation. It also functions as a start/stop switch.

When the pressure setting was reached in previous models during intermittent operation, activation of a pressure switch immediately stopped the compressor, exerting a strain on the moving parts and causing partial overheating, leading to excessive wear. In the GK Series with the ACE controller the compressor idles (in a no-load state) for 40 to 50 cycles before stopping, giving the cylinders and other parts a chance to cool down and allowing the moving parts to come to a smooth stop. Starting is also smoother, further reducing piston ring and bearing wear. The result is longer component life and enhanced durability.



What's the difference between a Single-stage and 2-stage Compressor? (GK-37~150)

Single-stage compressor draws in air and compresses it all at once to the pressure setting. 2-stage compressor first compresses the air to an intermediate pressure and cools it in a low-pressure cylinder, then compresses it to the pressure setting in a high-pressure cylinder. When air is compressed it becomes very hot, wasting energy and causing deterioration and carbonization of the compressor oil. Air does not get as hot in a 2-stage compressor, so the temperature of the discharged air is lower and less oil is consumed. Operating noise is also reduced.

Pressure Switch type GH Series

In this type of control system, an automatic pressure switch repeatedly switches the motor on at 0.78MPa [8kgf/cm²] and off at 0.98MPa [10kgf/cm²]. Suitable for intermittent use of compressed air or for work at relatively high pressures.



GH-08D

Automatic Unloader type GN Series

In this type of control system, an automatic unloader valve repeatedly switches the compressor between loaded operation at 0.78MPa [8kgf/cm²] and un-load operation at 0.98MPa [10kgf/cm²] without stopping the motor. Suitable for continuous operation at a fixed air delivery rate, and when large amounts of compressed air are needed at relatively low pressures.



GN-08D

Model No.	Motor output kW [ps]	Operating pressure MPa [kgf/cm ²]	Free air delivery L/min	Basic compressor		Air tank capacity L	Air outlet dia.×qty. B	Approx. dimensions L × W × H mm mm mm	Noise level dB(A)	Weight (including motor) kg
				Rotating speed rpm	Model No.					
GH-08D	0.75 [1]	0.78~0.98 (8~10)	80	1,040	GHO-1C	38	G ¹ / ₄ ×1	907×370×653	71	63
GN-08D	0.75 [1]	0.78~0.98 (8~10)	80	1,040	GNO-1C	38	G ¹ / ₄ ×1	907×370×673	71	62

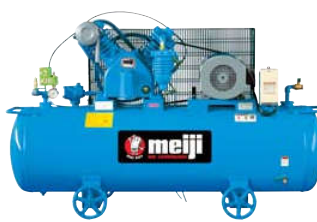
• Specifications is based on IE3 motor.

Medium-pressure 2-stage type GKH Series

These 2-stage air compressors are designed to deliver a medium level pressure of 1.37MPa [14kgf/cm²]. Suitable for use at garages and gasoline stations for inflating tires, operating pneumatic wrenches, etc.



GKH-22



GKH-37



GKH-55D



GKH-75C



GKH-110C

Motor-driven, ACE controller type

Model No.	Motor output kW [ps]	Operating pressure MPa [kgf/cm ²]	Free air delivery L/min	Basic compressor		Air tank capacity L	Air outlet dia.×qty. B	Approx. dimensions L × W × H mm mm mm	Noise level dB(A)	Weight (including motor) kg
				Rotating speed rpm	Model No.					
GKH-22	2.2 [3]	1.18 ∩ 1.37 [12~14]	225	785	BTH-22	155	G ¹ / ₄ ×1, Rc ¹ / ₂ ×1	1,350×510×935	74	188
GKH-37	3.7 [5]		390	850	BTH-37	220		1,608×560×1,008	75	237
GKH-55D	5.5 [7.5]		560	900	BTH-55D	260	G ¹ / ₄ ×1, Rc ³ / ₄ ×1	1,660×600×1,165	77	299
GKH-75C	7.5 [10]	790	870	BTH-75C	1,660×600×1,180			78	332	
GKH-110C	11 [15]	1,140	860	BTH-110C	1,660×620×1,234			78	429	

• Specifications is based on IE3 motor.

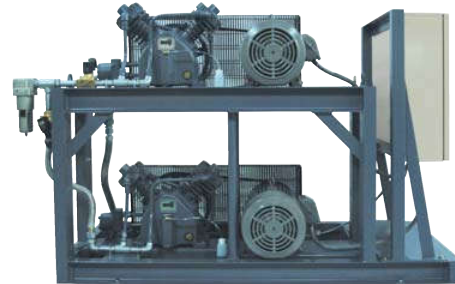
Booster type BOOSTER Compressor

Especially designed for Blow Molding and Laser Machine.

- Superior durability.
- Maximum operating pressure :
3.5MPa (Basic compressor : BB-483)
- Maximum free air delivery :
2,800L/min (Basic compressor : BB-483)



GBH-5548A



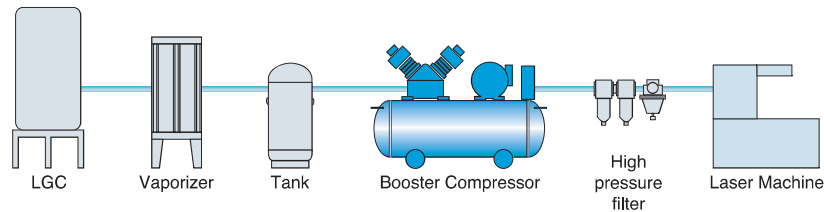
GBH7548-152

Model No.	Motor output kW	Operating pressure MPa	Max. suction pressure MPa	Max. free air delivery L/min	Basic compressor Model No.	Approx. dimensions L × W × H mm mm mm	Weight (including motor) kg
GBH-5548A	5.5	1.67~1.96	0.88	1,690	BB-482A	1,410×555×910	335
GBH7548-152	7.5×2	2.64~2.94	0.88	1,550×2	BB-482S	1,845×740×1,174	538
GBH1148-*	11	3.2~3.5	0.98	2,800	BB-483	—	—

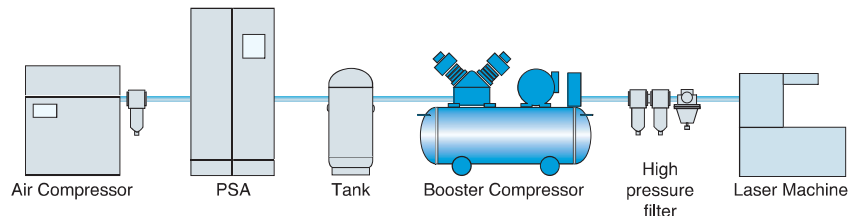
• Specifications is based on IE3 motor.

Application example

For LGC



For PSA



How to obtain maximum performance from an Air Compressor

The life and performance of an air compressor are greatly affected by the conditions in the location where it is installed. For this reason, it is important to follow the guidelines listed below to ensure long and efficient operation.

- (1) In locations where there is a large amount of dust, clogging of the filter will lead to a reduction in air delivery, wear of the cylinder, and a shorter bearing life. Select a location where there is little dust, low humidity, and good ventilation. Also select a location not exposed to direct sunlight or rain, and where the ambient temperature does not exceed 40°C. As the ambient temperature rises the discharge temperature will also rise, leading to an increase in oil consumption and shortening the life of the various compressor components.
- (2) Install the compressor on a flat, stable surface. If the installation location is uneven, it will cause vibration. If necessary, use a wedge to adjust the compressor so that it is level.
- (3) Allow sufficient space around the compressor to perform inspections and maintenance. There should be a clearance of at least 30 cm between the compressor and any walls around it.

Notice

- (1) The Air delivery value indicated is the amount of air delivered at maximum pressure, expressed as an equivalent at intake air pressure (atmospheric pressure).
- (2) The noise values indicated are measured at a distance of 1.5 m from the front of the compressor running under full load in an anechoic chamber.
- (3) The allowed ambient temperature range for operation is 2°C to 40 °C.
- (4) Do not use compressed air for devices with direct air intake for respiratory organs.