meiji



AIR COMPRESSOR

Related & Auxiliary Equipment

MEIJI AIR COMPRESSOR MFG. CO., LTD.

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

GK Series

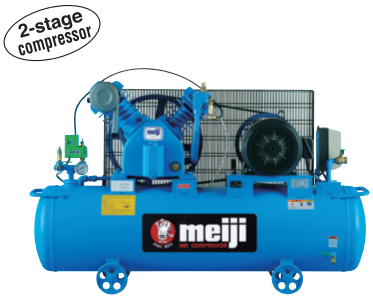
Efficient, Economical and Dependable... One compressor, double the function. A single switch allows selection of either continuous or intermittent compressor operation, so there's no need to choose a compressor for just one particular application.

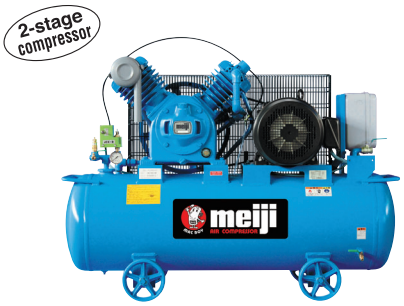
When used in the intermittent operation mode, starting and stopping are smoother because the compressor stops and restarts after idle running in an unloaded state.

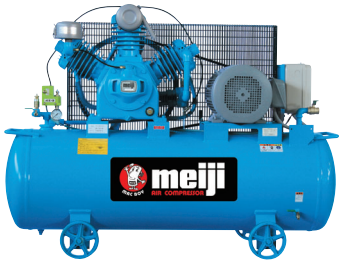
The unloaded state of GK Series compressors during intermittent operation reduces oil consumption and significantly improves the durability of most parts, resulting in lower operating costs.
Stopping in an unloaded state means there's no sudden sound of air discharge typical of conventional intermittent-operation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

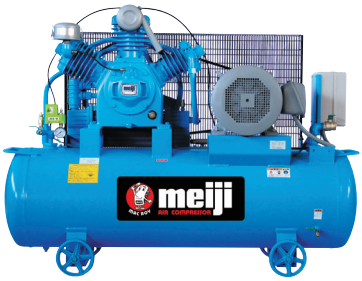

GH-15BK

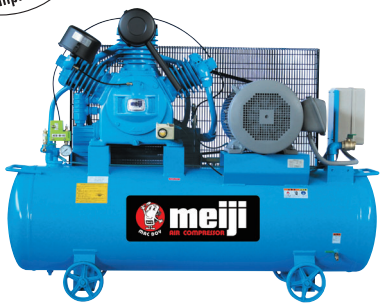

GH-22CK


GK-37A


GK-55D


GK-75D


GK-110D


GK-150D

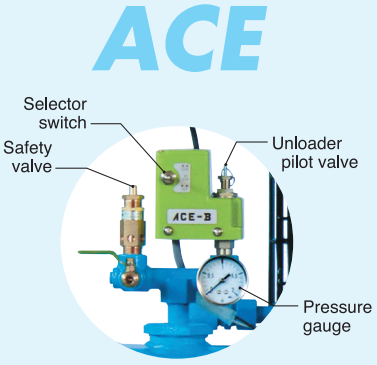
Model No.	Motor output kW〔ps〕	Operating pressure MPa〔kgf/cm²〕	Free air delivery L/min	Basic compressor: Rotating speed rpm	Basic compressor: Model No.	Air tank capacity L	Air outlet dia.×qty. B	Approx. dimensions L × W × H mm mm mm	Noise level dB(A)	Weight (including motor) kg
GH-15BK	1.5〔2〕	0.78 ∫ 0.98 〔8～10〕	160	975	GNO-2C	71	G¼×1	1,130×394×758	73	98
GH-22CK	2.2〔3〕		240	985	GNO-3C	80	G¼×2	1,227×394×770	74	115
GK-37A	3.7〔5〕		430	950	BT-37	120	G¼×1, Rc½×1	1,378×425×890		183
GK-55D	5.5〔7.5〕		660	910	BT-55C	150		1,395×500×1,065	76	268
GK-75D	7.5〔10〕		840	870	BT-75C	240	G¼×1, Rc¾×1	1,560×600×1,150		318
GK-110D	11〔15〕		1,360	945	BT-110C	260	G¼×1, Rc1×1	1,660×620×1,234	78	426
GK-150D	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-150D is based on IE1 motor.
- The specifications of GK-37A, GK-55D, GK-75D, and GK-150D 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-37A～150D)

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-08F

Automatic Unloader type
GN Series

In this type of control system, an automatic unloader valve repeatedly switches the compressor between loaded oreration 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-08E

Model No.	Motor output kW〔ps〕	Operating pressure MPa〔kgf/cm²〕	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-08F	0.75〔1〕	0.78～0.98〔8～10〕	80	1,040	GHO-1C	38	G¼×1	907×370×653	71	63
GN-08E	0.75〔1〕	0.78～0.98〔8～10〕	80	1,040	GNO-1C	38	G¼×1	907×370×673	71	62

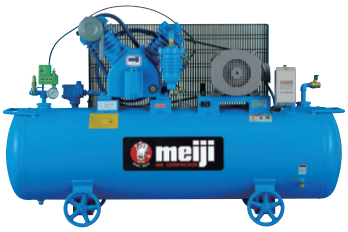
● Specifications is based on IE3 motor.

Medium-pressure 2-stage type
GKH Series

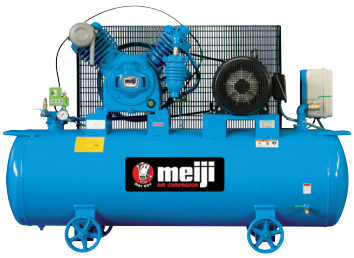
These 2-stage air compressors are designed to deliver a medium level pressure of 1.37MPa〔14kgf/cm²〕. Suitable for use at garages and gasoline stations for inflating tires, operating pneumatic wrenches, etc.



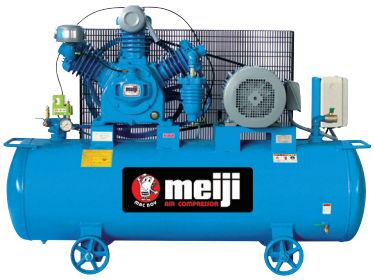
GKH-22A



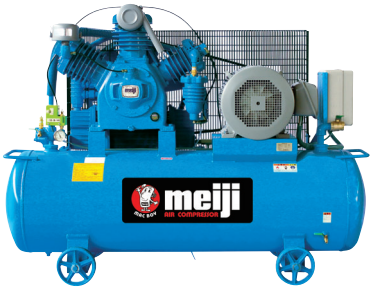
GKH-37A



GKH-55E



GKH-75D



GKH-110D

Motor-driven, ACE controller type

Model No.	Motor output kW〔ps〕	Operating pressure MPa〔kgf/cm²〕	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-22A	2.2〔3〕	1.18 ～ 1.37〔12～14〕	225	785	BTH-22	155	G¼×1, Rc½×1	1,350×510×935	74	188
GKH-37A	3.7〔5〕		390	850	BTH-37	220		1,608×560×1,008	75	237
GKH-55E	5.5〔7.5〕		560	900	BTH-55D	260	G¼×1, Rc¾×1	1,660×600×1,165	77	299
GKH-75D	7.5〔10〕		790	870	BTH-75C			1,660×600×1,180	78	332
GKH-110D	11〔15〕		1,140	860	BTH-110C		G¼×1, Rc1×1	1,660×620×1,234	78	429

● Specifications is based on IE3 motor.

Package Compressor AIR PAX

APK, APKH Series

- Silent package compressor which are sound/vibration proof.
- Control method is pressure switch type which cuts unnecessary electric power(0.75~3.7kW).
- Automatic operation control system which automatically switches continuous and intermittent operation depending on usage (5.5~15kW).
- High efficiency 2 stage compressor installed (Excluding APK-D44A and models with power consumptions from 3.7~15kW)
- Low vibration with silent design.



APK-22D



APK-37D



APK-110D



APK-D220



APKH-D44A

Model No.	Motor output kW〔ps〕	Operating pressure MPa〔kgf/cm²〕	Free air delivery L/min	Basic compressor: Rotating speed rpm	Basic compressor: Model No.	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
APK-08DS	0.75〔1〕	0.69~0.88〔7~9〕	85	1,040	GHO-1CP	31	Rc½×1	755×651×811 (830) (853)	52	109
APK-08D					GNO-1C-08CK				53	107
APK-15D	1.5〔2〕		160	975	GNO-2C-15D				58	122
APK-22D	2.2〔3〕		260	985	GNO-3C-22D				61	137
APK-37D	3.7〔5〕		410	1,020	BT-37P	35		855×651×871 (940) (922)	55	179
APK-55A	5.5〔7.5〕	0.74~0.98〔7.5~10〕	650	910	BT-55EP	90	Rc¾×1	1,126×770×1,137 (1,200) (1,197)	56	298
APK-75A	7.5〔10〕		840	945	BT-75FP				57	331
APK-110D	11〔15〕	0.78~0.98〔8~10〕	1,340	945	BT-110DP		Rc1×1	1,266×949×1,271 (1,350) (1,333)	59	426
APK-150C	15〔20〕	0.69~0.88〔7~9〕	1,700	1,050	BT-150CP				66	467
DUAL **APK-D44A**	4.4〔6〕 (2.2+2.2)	Main 0.78~0.98 Sub 0.68~0.88	465	985	GNO-3D-D44	9	Rc1×1	1,101×742×1,391 (1,201) (1,442)	58	331
DUAL **APK-D74A**	7.4〔10〕 (3.7+3.7)		830	1,020	BT-37-D74					386
DUAL **APK-D110**	11〔15〕 (5.5+5.5)		1,320	910	BT-55CP	14		1,431×846×1,636 (1,559)	63	577
DUAL **APK-D150**	15〔20〕 (7.5+7.5)		1,760	945	BT-75CP				62	623
DUAL **APK-D220**	22〔30〕 (11+11)	Main 0.7~0.9 Sub 0.65~0.85	2,655	945	BT-110CP-220	—		1,506×950×1,686 (1,630)	65	725
APKH-37C	3.7〔5〕	1.18~1.37〔12~14〕	370	900	BT-37P	39	Rc½×1	855×651×871 (940) (922)	55	187
APKH-55F	5.5〔7.5〕		540		BT-55GP	91	Rc¾×1	1,126×801×1,137 (1,200) (1,197)	56	303
APKH-75E	7.5〔10〕		760	870	BT-75GP				57	336
APKH-110D	11〔15〕		1,155	860	BT-110DP		Rc1×1	1,266×949×1,271 (1,305) (1,333)	59	440
DUAL **APKH-D44A**	4.4〔6〕 (2.2+2.2)	Main 1.2~1.4 Sub 1.1~1.3	440	785	BTH-22-D44	9	Rc1×1	1,101×742×1,391 (1,201) (1,442)	58	350
DUAL **APKH-D74A**	7.4〔10〕 (3.7+3.7)		755	900	BT-37-D74				59	379
DUAL **APKH-D110**	11〔15〕 (5.5+5.5)		1,135	900	BT-55FP-D110	14		1,431×846×1,636 (1,559)	64	577
DUAL **APKH-D150**	15〔20〕 (7.5+7.5)		1,600	870	BT-75CP				62	623

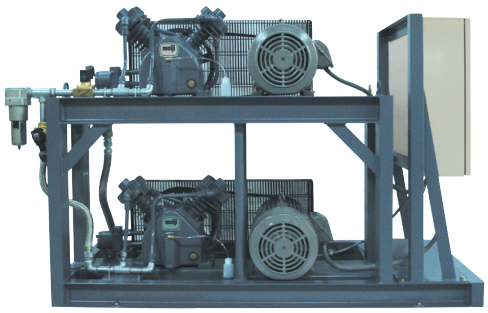
Booster type
BOOSTER Compressor

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)



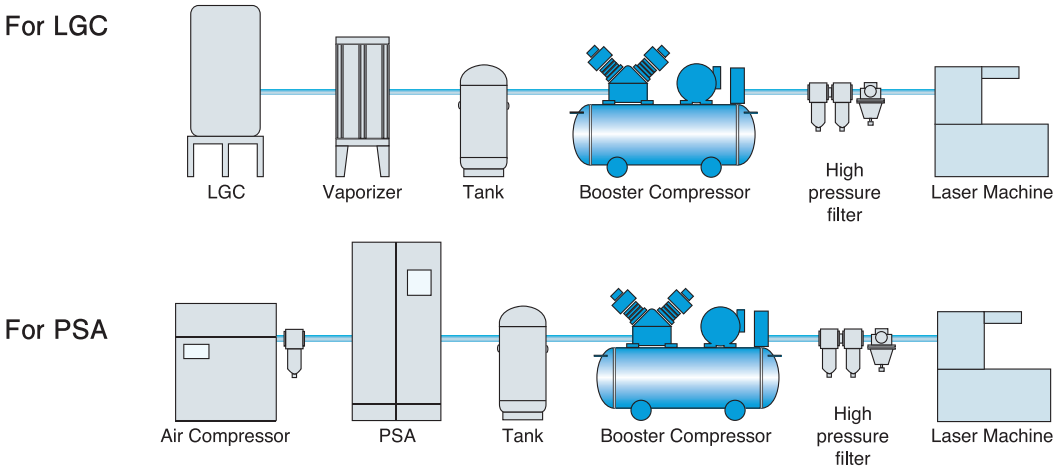
GBH-5548A


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	1,780	BB-482A	1,410×555×910	335
GBH-7548-152	7.5×2	2.64～2.94	0.88	1,650×2	BB-482S	1,845×740×1,174	538
GBH-1148-＊	11	3.2～3.5	0.98	2,550	BB-483	—	—

- Specifications is based on IE3 motor.

Application example



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℃. 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℃ to 40 ℃.

(4) Do not use compressed air for devices with direct air intake for respiratory organs.

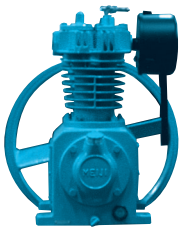
Single-stage Basic Compressors

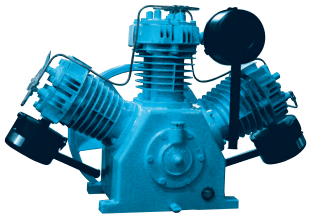
Meiji offers a wide selection of basic compressor for all types of applications, either mounted type or free-standing.


GHO-1C


GNO-2C


GNO-3C


BN-37

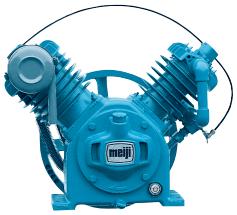

BN-150

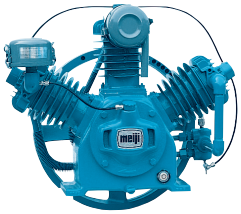
Model No.	Motor output kW〔ps〕	Max. pressure MPa〔kgf/cm²〕	Free air delivery L/min	Compressor		Operation type	Air outlet dia. B	Pulley		Weight kg
				Cylinder dia.×stroke×qty. mm	Rotating speed rpm			Outer dia. mm	Belt qty.	
GNO-1C	0.75〔1〕	0.98〔10〕	80	65×40×1	1,040	Continuous	Rp½	240	1	17
GHO-1C						Intermittent				
GNO-2C	1.5〔2〕		160	65×70×1	975	Continuous, Intermittent		325	2	24
GNO-3C	2.2〔3〕		240	65×56×2	985					31
BN-37	3.7〔5〕	0.69〔7〕	500	90×108×2	500	Continuous, Intermittent	Rp1	500	2	89
BN-75	7.5〔10〕		1,050	90×100×4	600					126
BN-150	15〔20〕		1,850	90×100×6	740				3	181

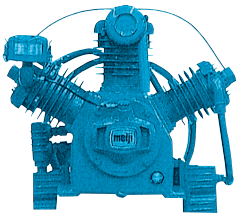
2-stage Basic Compressors

Two-stage basic compressor provides superior efficiency for cooling applications and also features excellent volume efficiency for compressed air.


BT-37


BT-55C

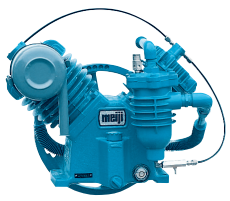

BT-75C


BT-110C

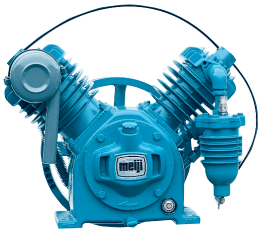
Model No.	Motor output kW〔ps〕	Max. pressure MPa〔kgf/cm²〕	Free air delivery L/min	Compressor		Operation type	Air outlet dia. B	Pulley		Weight kg
				Cylinder dia.×stroke×qty. mm	Rotating speed rpm			Outer dia. mm	Belt qty.	
BT-37	3.7〔5〕	0.98〔10〕	430	90/48×90×1/1	950	Continuous, Intermittent	Rp½	400	2	50
BT-55C	5.5〔7.5〕		660	110/75×90×1/1	910		Rp¾			62
BT-75C	7.5〔10〕		840	90/75×90×2/1	870			500		82
BT-110C	11〔15〕		1,360	110/90×90×2/1	945		Rp1			108
BT-150CP	15〔20〕		1,660	110/90×106×2/1	1,050					126

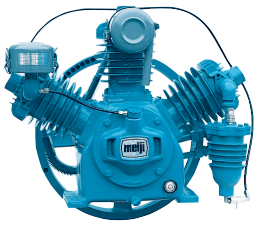
Medium-pressure 2-stage Basic Compressors

Mediurm-pressure two-stage basic compressor provides superior efficiency for cooling applications and also features excellent volume efficiency for compressed air.


BTH-22


BTH-37


BTH-55D


BTH-75C

Model No.	Motor output kW〔ps〕	Max. pressure MPa〔kgf/cm²〕	Free air delivery L/min	Compressor		Operation type	Air outlet dia. B	Pulley		Weight kg
				Cylinder dia.×stroke×qty. mm	Rotating speed rpm			Outer dia. mm	Belt qty.	
BTH-22	2.2〔3〕	1.37〔14〕	225	90/65×56×1/1	785	Continuous, Intermittent	Rp½	325	1	42
BTH-37	3.7〔5〕		390	90/48×90×1/1	850			400	2	54
BTH-55D	5.5〔7.5〕		560	110/75×90×1/1	900		Rp¾			64
BTH-75C	7.5〔10〕		790	90/75×90×2/1	870			500		84
BTH-110C	11〔15〕		1,140	110/90×90×2/1	860		Rp1			110

Related & Auxiliary Equipment

MSL Series Line Filters

For removal of solid matter with a diameter of 1 μm or more.



MSL150B-04D



MSL400-10D

Model No.	Qty of process-ing air L/min	Filtering level μm
MSL75B-03D	350	1
MSL150B-04D	1,200	
MSL200B-06D	1,800	
MSL250B-10D	2,700	
MSL400-10D	3,900	
MSL700-14D	6,600	
MSL1000-14D	10,600	
MSL1300-20D	13,800	

MSM Series Micro-mist Filters

For removal of solid matter with a diameter of 0.01 μm or more; also feature an oil collection efficiency of 0.01mg /m³.



MSM150B-04D



MSM400-10D

Model No.	Qty of process-ing air L/min	Filtering level μm
MSM75B-03D	350	0.01
MSM150B-04D	1,200	
MSM200B-06D	1,800	
MSM250B-10D	2,700	
MSM400-10D	3,900	
MSM700-14D	6,600	
MSM1000-14D	10,600	
MSM1300-20D	13,800	

MSK Series Activated Carbon Filters

Absorb and remove vaporous (malodorous) oil particles.



MSK150B-04



MSK400-10

Model No.	Qty of process-ing air L/min	Density level of outlet oil mg /m³
MSK150B-04	1,200	0.003
MSK200B-06	1.800	
MSK250B-10	2,700	
MSK400-10	3,900	
MSK700-14	6,600	
MSK1000-14	10,600	
MSK1300-20	13,800	

AF Series Air Filters

For removal of relatively small particles of water and dust.



AF40-04

Model No.	Max. flow rate L/min	Filtering level μm
AF10	180	5
AF20	1,400	
AF30	3,300	
AF40	5,300	
AF50	11,000	
AF60	12,000	

AFM Series Mist Separators

For removal of small particles of water and dust.



AFM40-04

Model No.	Max. flow rate L/min	Filtering level μm
AFM20	200	0.3
AFM30	450	
AFM40	1,100	

AR Series Air Regulators

For reliable and accurate pressure regulation.



AR30-03G

Model No.	Max. flow rate L/min	Max. operating pressure MPa
AR10	125	1.0
AR20	800	
AR25	1,100	
AR30	1,500	
AR40	3,000	
AR50	10,000	
AR60	10,000	

Air Combination Set

An air filter, regulator and lubricator combined in a single set simplifies piping work.



AC40-04G

HB Series Air Transformers

For removal of relatively small particles of water and dust, and for convenient adjustment of air pressure.



HB-602

Model No.	Max. flow rate L/min	Max. operating pressure MPa	Filtering level μm
HB-602	800	1.0	15
HBH-602	950	1.4	

AD and FD Series Automatic Drain Valves for Piping Equipment

Automatically discharge drainage midway along a pipe line, or from an air cleaner or dryer.



AD-5

Model No.	Port size B
AD-5	Rc1/2
FD-1D-04	
FD-5-04	
AD-402-04	

ADT Series Automatic Drain Traps

For trapping water and other drainage inside an air tank or air dryer and completely discharging it after a specified time.



ADT-3C

Model No.	Control system
ADT-2C (for use with an air tank)	Fixed one-hour timer + IC control using a water sensor
ADT-3C (for use with an air dryer)	Variable timer (2/5/10/20/30 minutes) + IC control using a water sensor

MDT-2E Drain Tanks

Collects heavy drainage and helps to keep the workplace clean. Use with ADT series automatic drain traps.



MDT-2E

Model No.	MDT-2E
Tank capacity L	10
Inlet	G1/4×1
Weight kg	1

GOS Series Oil Sensors

Prevent compressor burn-out due to a depleted lubricating oil supply.



GOS-3BR



GOS-20B



Model No.	Applicable compressor
GOS-3B	0.75～7.5kW
GOS-3BR	
GOS-20B	11～15kW
GOS-20BR	

- R models automatically stop compressor operation.
- Models not marked with an R are warming buzzer types.

Model DD800 Dust Filters

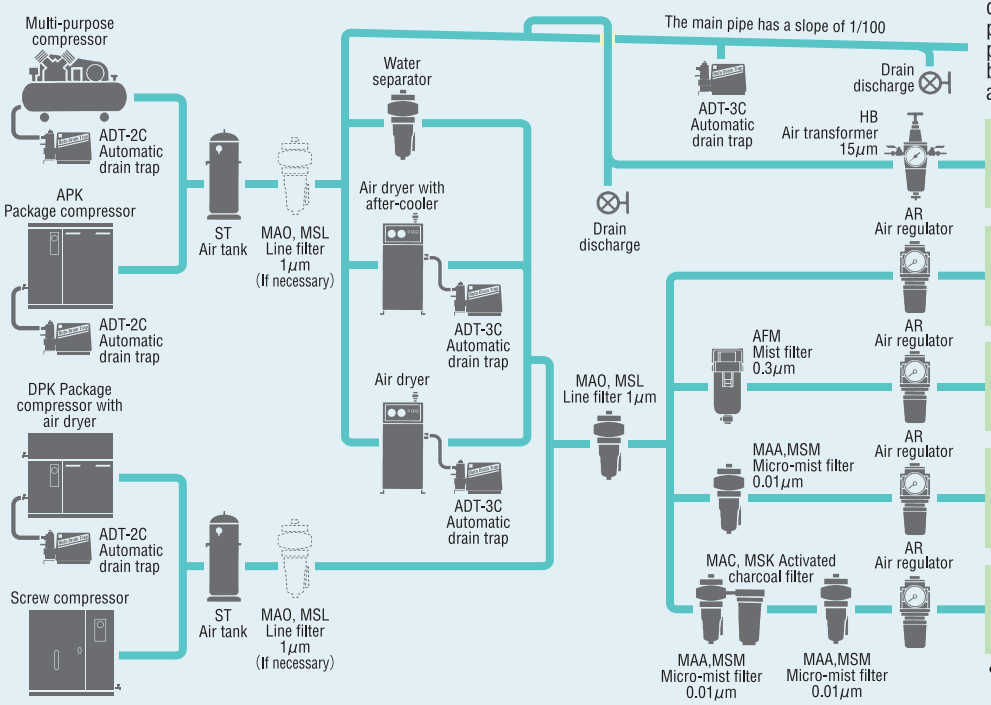
Completely shuts out dust, ensuring that only clean air is supplied to the compressor.



DD-800



CLEAN AIR SYSTEM



Even if spray gun offers superoir performance, if the compressed air used contails dust, oil or drainage, the result will be swelling, warping, pinholes, uneven color and other defects in the painted surface. This problem can be overiome by using the appropriate combinatlon of Meiji air cleaning equipment to suit the application.

For miscellaneous air work where the air may contain small amounts of water, oil or dust.

For general pneumatic tools and other equipment for which water must be removed but small amounts of dust or oil mist do not present a problem.

For magnetic valves and cylinders for general Industrial work, pneumatic equipment, and general painting work.

For precision industrial work, air jet rooms, high-grade painting, instruments, measure-ments, electronic components, conveying of bulk granule material, etc.

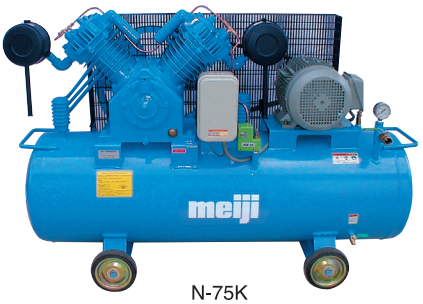
For use in the chemical, food product and pharmaceutical industries etc.

● Contact us for details.

Low-pressure, Continuous/Intermittent operation type

N-K Series

- It is an energy-saving type which reduces Life Cycle Cost(LCC).
- Realizing the maximum discharge amount of air in the general-use series by adopting a low-pressure specification in single-stage basic compressor.
- Enabling frequent starting/stopping without generating load according to frequency in use of compressed air, reducing burden to the compressor main unit.
- Achieving low-noise by adopting a low-noise filter and an air cushion valve.



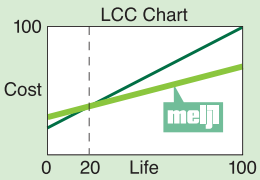
N-75K

Pursuit of LCC (Life Cycle Cost)

Meiji is aiming at product making giving priority to reduction of running cost while taking LCC into consideration

LCC(LIfe Cycle Cost)

- Initial cost(purchases cost)
- Running cost(Operation cost, use cost)
- Maintenance cost(Maintenance and control cost)



Model No.	Motor output kW〔ps〕	Operating pressure MPa〔kgf/cm²〕	Free air delivery L/min	Basic compressor Rotating speed rpm	Basic compressor Model No.	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
N-37K	3.7〔5〕	0.59～0.69〔6～7〕	500	500	BN-37	138	G¼×1, Rc½×1	1,360×545×1,060	67	240
N-75K	7.5〔10〕		1,050	600	BN-75	254	G¼×1, Rc¾×1	1,620×616×1,100	75	370
N-150(K)	15〔20〕		1,850	740	BN-150	285	G¼×1, Rc1×1	1,810×616×1,205	76	490

● Specifications is based on IE1 motor.

● The mechanisms, specifications and other information described in this catalog are subject to change without notice.

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