

Effective utilization of limited electricity and space

# Energy and space-saving Nitrogen gas generator

(60Nm<sup>3</sup>/h-180Nm<sup>3</sup>/h)

# NEMH Series

The NEMH series boasts the smallest class installation area in the industry with a range of 60-180Nm<sup>3</sup>/h and it has increased the nitrogen gas generating volume by approximately 10% compared to the previous model (NE series). It is also fitted with our original energy-saving function, the "cylinder deactivation system" so energy-saving effects in line with usage volume can be anticipated and it can be used outside, increasing choices for installation site.



NEMH-55K-OD

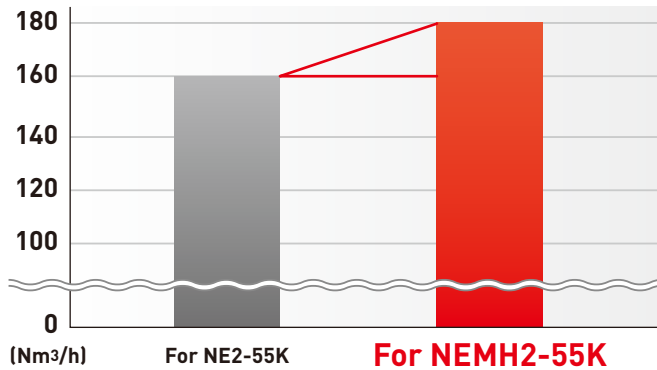
## Features



### N<sub>2</sub> generating volume increased by up to 12.5%

Improved adsorption mechanism has led to increased N<sub>2</sub> generating volume of up to 12.5% (when compared with NE series at 99% specification).

e.g.) Generating volume when using a 55 kW compressor



### Can be installed outside

All models in the NEMH series can be installed outside. These models can be used in instances such as when installation space cannot be secured inside or for installation as subsidiary equipment to an outside plant. Overall investment costs are also reduced by minimizing auxiliary work such as ventilation and plumbing.



### Noise-reducing design

68 dB(A) achieved in front of the device at 1 M point 1.5 M above ground. Furthermore, when noise levels must be reduced such as due to noise restrictions, noise can be lowered with a high silencer BOX.

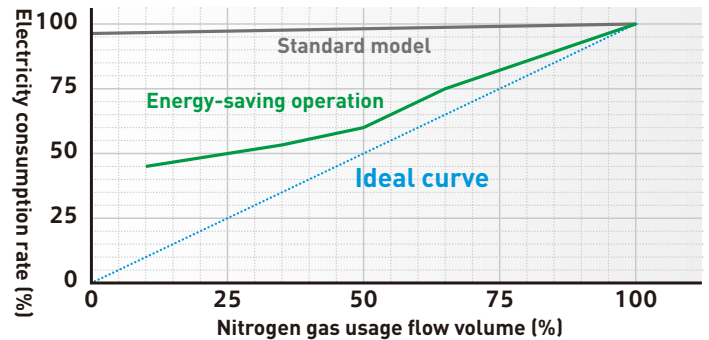


### Fitted with energy-saving function in line with nitrogen gas usage volume

-Up to 55% energy-saving operation possible with a cylinder deactivation system-

Further energy-saving operation is possible when used in combination with an inverter compressor. Because the adsorption tank capacity can be automatically converted in line with nitrogen usage volume, the usage rate of the specialized compressor is reduced, making energy-saving operation of up to 55% possible.

### Electricity consumption during energy-saving operation (NEMH4-55K-OD reference values)



\*This function may not be appropriate in certain secondary side N<sub>2</sub> usage conditions.



### Space-saving design

The installation area has been reduced by approximately 15% compared to the previous model.



### Custom-made models available

- Models with nitrogen gas outlet pressure of up to 0.75 MPa can be supplied.
- Can use existing factory air (low pressure) as feed air.
- Special order low noise equipment also available.

\*Specifications such as generating volume and pressure can be altered from standard specifications.

## Specifications

TYPE	NEMH-37K			NEMH-45K		
Model	NEMH2-37K(-OD)	NEMH3-37K(-OD)	NEMH4-37K(-OD)	NEMH2-45K(-OD)	NEMH3-45K(-OD)	NEMH4-45K(-OD)
Purity (%) <sup>*1</sup>	99	99.9	99.99	99	99.9	99.99
Pressure (MPa)	0.4	0.5		0.4	0.5	
Generating volume (Nm <sup>3</sup> /h) <sup>*2</sup>	110	83	63	140	100	75
Generating volume (m <sup>3</sup> /h) <sup>*3</sup>	(126)	(95)	(72)	(160)	(115)	(86)
Dew point (°C)	Below -50°C					
Surrounding temperature/humidity	2 ~ 40°C / 10 ~ 80% RH					
Device dimensions W×D×H (mm)	Indoor model: 1,520×1,400×2,620			Indoor model: 1,850×1,400×2,620		
	Outdoor model: 1,520×1,400×2,680			Outdoor model: 1,850×1,400×2,680		
Device weight (Kg)	Indoor model: Approx. 2,300			Indoor model: Approx. 3,000		
	Outdoor model: Approx. 2,400			Outdoor model: Approx. 3,100		
Electricity consumption (kW)	0.25					
Power supply voltage (V)	AC100					
Compressor output (kW) <sup>*4</sup>	37			45		

TYPE	NEMH55K		
Model	NEMH2-55K(-OD)	NEMH3-55K(-OD)	NEMH4-55K(-OD)
Purity (%) <sup>*1</sup>	99	99.9	99.99
Pressure (MPa)	0.4	0.5	
Generating volume (Nm <sup>3</sup> /h) <sup>*2</sup>	180	135	100
Generating volume (m <sup>3</sup> /h) <sup>*3</sup>	(206)	(155)	(115)
Dew point (°C)	Below -50°C		
Surrounding temperature/humidity	2 ~ 40°C / 10 ~ 80% RH		
Device dimensions W×D×H (mm)	Indoor model: 2,180×1,400×2,620		
	Outdoor model: 2,180×1,400×2,680		
Device weight (Kg)	Indoor model: Approx. 3,600		
	Outdoor model: Approx. 3,700		
Electricity consumption (kW)	0.25		
Power supply voltage (V)	AC100		
Compressor output (kW) <sup>*4</sup>	55		

Filter unit		
Model	Device dimensions W×D×H(mm)	Device weight (Kg)
AF-37/55K	1,290×450×1,435 <small>*Please contact us separately regarding the outdoor model filter dimensions.</small>	Approx. 210
		
<b>AF-37/55K</b>		

\*1 N<sub>2</sub>+Ar levels.

\*2 Values converted to atmospheric pressure of 0°C under environment conditions of 20°C surrounding temperature and 60% relative humidity (RH). The amount of N<sub>2</sub> gas that can be produced may decrease due to surrounding temperature and humidity.

\*3 Figures in brackets are gas state under conditions of surrounding temperature: 30°C, humidity: 75% RH. This method of inscription is widely used throughout the air compressor industry.

\*4 The above compressor output is a representative value from our recommended compressors. For details, please contact relevant staff at our company.

\*Outdoor specification is signified by the suffix -OD after the model name.

\*For overseas specifications or special specifications not in our catalogue, please contact relevant staff at our company.

\*Product improvements may lead to specifications changing without notice.