

Equipment performance greatly improved!

Nitrogen gas generator
with a built-in compressor (20—56NL/min)

MNTL Series



Features

The MNTL series offers greatly improved equipment performance for generating volume and outlet pressure, enhanced functions with the addition of a new LCD panel and is optimal as a subsidiary/laboratory nitrogen supply source as MNT series large capacity models.



Nitrogen gas generating volume increased by up to 54.5%, achieving industry No.1 performance!!

Compared to the previous series, nitrogen gas generating increased by 54.5%. Nitrogen outlet pressure also greatly increased, expanding the range of application.



Built-in oil-free compressor

Nitrogen gas can be easily supplied with power supply only. Users can switch to external air supply mode with simple operation. Nitrogen supply continues even when problems occur in the built-in compressor.



**Designed for quiet operation
Sound level of 58.8 dB achieved in front of the device**

*The features of this series are compared with the previous series (MNT-SI).

*Feature details are current as of January 2014.

*For noise reference values, see *5 below.



Can be placed anywhere due to its space-saving design.

With a compact design of 600mm×680mm, space can be effectively utilized. Caster wheels are standardly equipped so there is no problem securing service clearance.



New LCD panel used

This LCD panel, which we developed, can display many types of information including generated nitrogen state, operating state, details of problems and maintenance guidance. A flowmeter and an oxygen meter are standardly equipped, allowing for accurate understanding of the state of nitrogen supply.



MNTL series specifications (99~99.99%)

TYPE	1.3K			1.8K			
	Model	M2NTL-1.3-5(6)	M3NTL-1.3-5(6)	M4NTL-1.3-5(6)	M2NTL-1.8-5(6)	M3NTL-1.8-5(6)	M4NTL-1.8-5(6)
Purity (%) *1		99	99.9	99.99	99	99.9	99.99
50Hz	Generating volume(NL/min)*2	37	26	20	46	36	28
	Pressure(MPa)	0.37	0.45	0.5	0.37	0.42	0.5
60Hz	Generating volume(NL/min)*2	45	32	24	56	44	34
	Pressure(MPa)	0.4	0.48	0.53	0.4	0.48	0.53
Option	Pressure operation, timer operation, poor gas emission operation						
Dew point(°C)	Below -55°C						
Surrounding temperature/humidity	5~35°C ⁴ / 10~80%RH						
Device dimensions WxDxH(mm)	600×680×1,210 (caster wheels +81mm(H))						
Device weight(kg)	Approx. 255			Approx. 275			
Electricity consumption(kW) *3	1.3			1.8			
Sound level *5	Operating noise: 56.5 dB Exhaust noise: 58.8 dB						
Power supply voltage	AC190~210V 1φ 50/60Hz						

*1 N₂+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 N₂ gas that can be produced may decrease due to surrounding temperature and humidity. *3 Electricity consumption is maximum consumption per hour while the device is being operated. *4 When intake temperature is high, equipment performance decreases. There is also a danger that this could lead to compressor temperature upper limit alarm and accelerated maintenance cycle. Ventilate the room when surrounding temperature is high.

*5 Actual measurement values at 1 m in front of the device and 1 m above the ground in a semi-anechoic chamber (background noise: 22 dB). Differs from actual on-site measurement.

*Product improvements may lead to specifications changing without notice.