

Air-cooled Dry Vacuum Pump



NeoDry Series



NeoDry 15G

■ Features

- **Wide voltage range**
Switchable between 1 phase 100V to 200V automatically
- **Quieter operation**
Typically 45dB (51dB for 36G) at ultimate pressure
- **Temperature optimization**
Optimized temperature with fan control
- **Upgraded water vapor evacuation performance**
Gas ballast enables vacuum of condensable gases and brings a 10% water vapor evacuation performance boost
- **IEC power connector**
IEC connector adopted for convenience
- **Maintenance Cycle**
Approximately once in 6 years when Air / N₂ is used, based on track record of sales

Vacuum pumps come with gas ballast



The gas ballast mechanism prevents condensable gases (such as water vapor and solvent-laden gases) from condensing inside the pump, thereby extending the pump's lifespan.

■ Specifications

Model	NeoDry 15G for ADP, SDP and DP43C/63C
Maximum pumping speed	250 L/min
	8.83 CFM
Ultimate pressure (without gas ballast)	1.0 Pa
	0.00750062 Torr
Supply voltage (50/60 Hz)	Single Phase, AC100-240V
Gas ballast mechanism	Yes
Max allowable moisture (with gas ballast)	275 g/h
Noise value (inlet closed)	45 dBa
Vibration (inlet closed)	≤ 8 μmp-p
Weight	22 kg
	48.5 lbs
Inlet size	NW25
Outlet size	NW25
Power consumption at ultimate pressure	0.34 kW
Overall dimensions L x W x H	385 × 210 × 219 mm

Gas ballast mechanism



The gas ballast mechanism is not installed in the pump upon delivery. Installation instructions can be found in the operational manual provided with the unit.

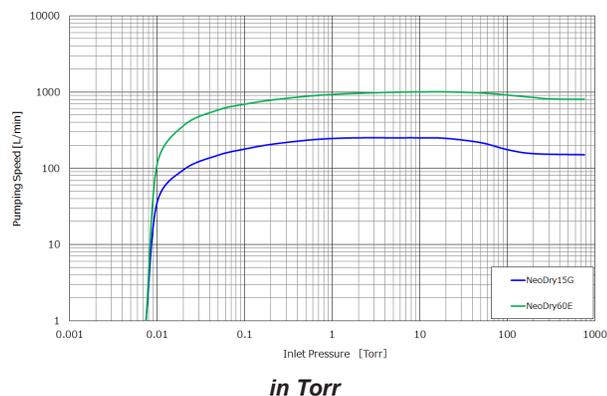
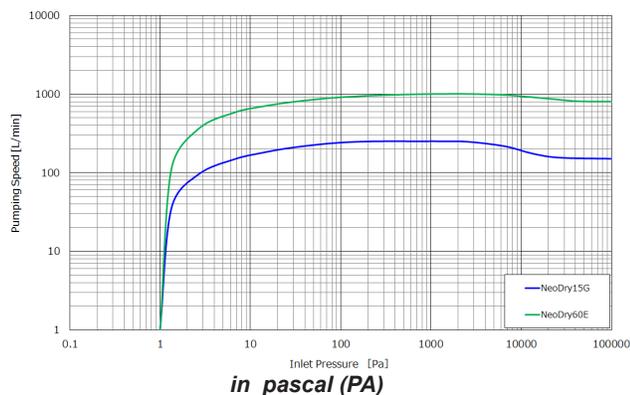


NeoDry 60E2

■ Features

- No tip-seal replacement. No performance deterioration. No particle.
- No oil smoke. No chamber contamination.
- Hassle free to replace rotary / scroll pumps
- Frequency of use does not affect performance by virtue of the inverter.
- Low noise, low vibration
- Maintenance Cycle
Approximately once in 6 years when Air / N₂ is used, based on track record of sales

Pumping Speed Curves



■ Specifications

Model	NeoDry 60E2 for DP83C/104C
Maximum pumping speed	1000 L/min 35.3 CFM
Ultimate pressure (without gas ballast)	≤ 1.0 Pa 7.5 Torr
Supply voltage	Single phase, AC200-240V
Gas ballast mechanism	Yes
Max allowable moisture (with gas ballast)	600 g/h
Noise (inlet closed)	≤ 60 dBA
Vibration (inlet closed)	≤ 8 μmp-p
Weight	56 kg 124 lbs
Inlet size	NW40
Outlet size	NW25
Overall dimensions L x W x H	530 × 315 × 275 mm

■ Recommended pump kits for all Yamato vacuum oven models

Assembly No.	Components	Applicable products
NEOADPCKITA	Vacuum pump, silencer, connecting kit (1500 SUS hose, KF25 joint plug, KF25 center ring, KF25 clamp)	ADP200C/210C/300C/310C
NEODP4363CKITB	Vacuum pump, silencer, connecting kit (1500 SUS hose, KF25 center ring, KF25 clamp)	DP43C/63C
NEOSDPKITC	Vacuum pump, silencer, connecting kit (1500 SUS hose, KF25 center ring, KF25 clamp, KF25 open and close handle)	SDP300/310/400/410/610
NEODP83104KITD	Vacuum pump, silencer, connecting kit (KF40 1500 SUS hose, KF40 center ring, KF40 clamp)	DP83C/104C