

SF250/1500 Turbo Molecular Pump

Product descriptions

SF250/1500 TMP consists of a series of fast moving rotor blades and stationary stator blades lined up across each other. Gas molecules, which collide with fast moving rotor blades, are given the momentum to move along the surface. Through the combination of a series of rotor blades and stator blades, the gas molecules are impacted to move continuously towards a certain direction, and as a result generate an effect of air extraction and evacuation

SF250/1500 TMP can be simply operated and vertically or horizontally assembled. It is featured with fast start-up, low vibration, low noise and low power consumption. As there exists no oil contamination in the clean vacuum area, the pump can produce a clean and hydrocarbon-free vacuum.

Application

The pumps can be used for corrosive atmosphere working environment such as ion instance, plasma and semiconductor device production.

Specification

Model SF250/1500
 Inlet Port Flange Diameter DN160
 LFDN160CF
 Pumping Speed L/s(to air) 600
 Maximum Compression Ratio $N_2 > 10^8$
 $H_2 5 \times 10^2$
 Ultimate Pressure 6×10^{-6} (Pa) 6×10^{-7} (Pa) 6×10^{-8} (mbar) 6×10^{-9} (mbar) 4.5×10^{-8} (Torr) 4.5×10^{-9} (Torr)
 Exhaust Port Flange Diameter KF50
 Bearing Start up time (min) < 8
 Rotation Speed (rpm) 21,000
 Cooling Method Water Cooled
 Installation Method Perpendicularity $\pm 5^\circ$
 Weight (kg) 60
 Power type FD1500K
 Input voltage (V) 220 ± 20
 Input frequency (Hz) $50/60 \pm 3$
 Maximum output power consumption (W) 1000
 Output frequency (Hz) 350 ± 10
 Working voltage (V) ?50
 Working current (A) ?50
 Maximum current (A) ?16
 Allowable surrounding temperature (?) 5-40
 Allowable surrounding humidity ?80%
 Weight (kg) 13
 Length*Weight*Height 300*440*173