



COMPACT MULTI-PROCESS DRY PUMPS
A300 SERIES



A300 series - The best pumping speed in a compact package

With a pumping speed well above 300 m³/h the A300 series offers you more flexibility. For many applications, 300 mm included, the use of an additional roots blower is not required. This pump is designed with well proven solutions for medium and harsh applications.

The A300 P model is dedicated for medium applications while the A300 Series model features advanced pump temperature regulation and N₂ purge dilution to achieve the highest reliability on harsh applications.

The A300 series offers very high pumping performance for all semiconductor processes yet it is significantly more compact than conventional dry pump.

3 times smaller, it consumes less energy and less water than traditional pumps. It uses the well-proven Alcatel 5 stages multi-roots technology to achieve more than 300 m³/h pumping speed.

Particular attention was made to noise and vibration levels.

Its compact design allows the pump to be located in Basement, Sub Floor or Point Of Use on the process tool further reducing installation costs

Applications

A300 P

- Etch (metal, poly, dielectric...)
- Implant (source)
- HDPCVD
- Stripping / Ashing

A300 H

- PECVD
- LPCVD



Features

- Compact design
- Low noise level
- Low vibration
- Robust design
- Based on proven components
- High pumping speed in a compact package
- Equivalent to pump and blower package
- CE
- Semi S2-0703 compliant (option)

Benefits

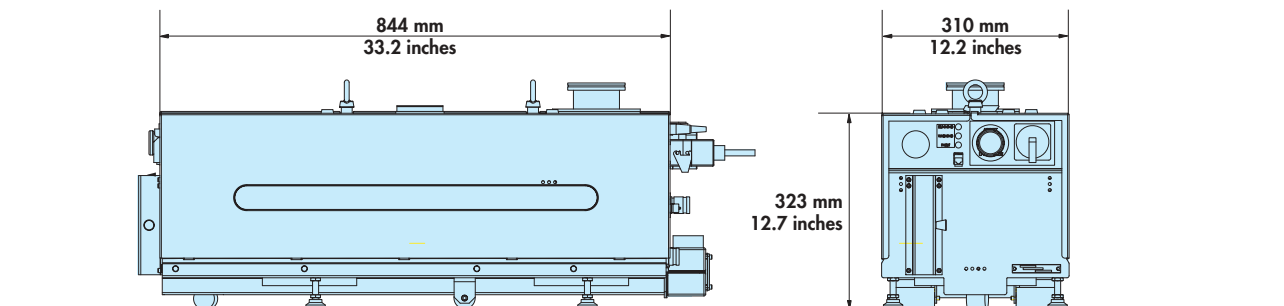
- Small footprint
- Clean room compatible
- Reduced installation costs
- Highest reliability for medium and harsh processes
- Lower cost of ownership
- Lower investment
- Highest safety level

A300 series

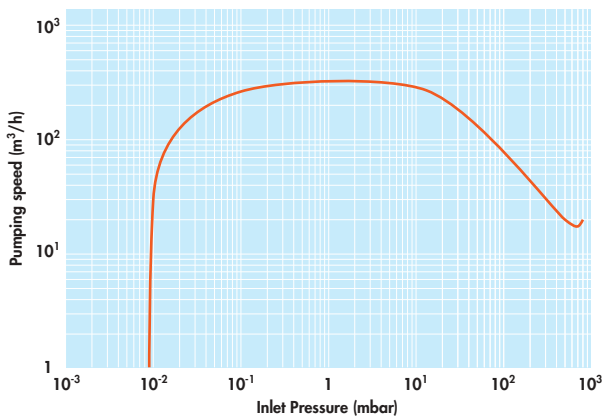
Technical specifications

Description	Units	A300 P	A300 H
Peak pumping speed at 50 Hz and 60 Hz	m ³ / h / cfm / l / mn	320 / 190 / 5340	
Ultimate pressure (without N2 Purge)	mbar / mtorr	1.2 10 ² / 9	
Ultimate pressure (with 35 SLM N2 Purge)	mbar / mtorr	6 10 ² / 45	
Power consumption	at ultimate pressure	1.5	
	motor rating	2.2	
Power supply voltage		200-208 V / 380-460 V 3 phases 50/60 Hz	
Cooling water connection		1/4" NPT quick connectors	
Cooling water (min.)	l / h / gpm	100 / 0.44	
Average noise level	dBA	58	
Typical vibration level	G / mm.s ⁻¹ / μm	0.6 / 4 / 5	
Dimension l x w x h	mm	844 x 310 x 323	
	inches	33.2 x 12.2 x 12.7	
Weight	kg / lbs	158 / 348	
Inlet/exhaust size	ISO-K / KF	NW63 / NW25	
N2 purge	SLM	0 - 60	0 - 120

Dimensions



Pumping speed



Ordering information

A300 P

Description	PART NUMBER
Low voltage	A3W2121120000
High voltage	A3W2221120000

A300 H

Description	PART NUMBER
Low voltage	A3W1121220000
High voltage	A3W1221220000

