



 A 100 L ES

**Integrated light duty dry pump for fast pump down.  
The perfect solution for load-lock and transfer chambers.**

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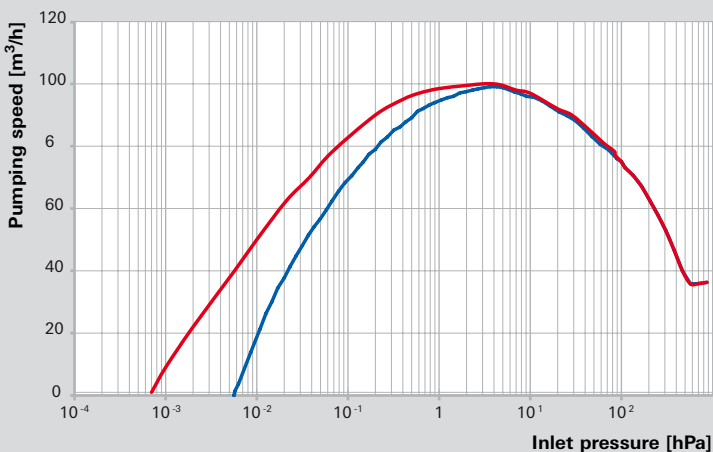
**Integrated light duty dry pump for fast pump down.  
The perfect solution for load-lock and transfer chambers.**

Because sustainability is a concern of everyone, adixen has developed an innovative Energy Saving (ES) solution to further decrease the power consumption of the proven A 100 L. Fully integrated and automatically controlled, the Energy Saving option reduces power consumption by 50%, providing significant cost of ownership reduction with no impact to throughput and footprint. In addition, the Energy Saving option features lower base pressure and lower noise level.

## Customer benefits

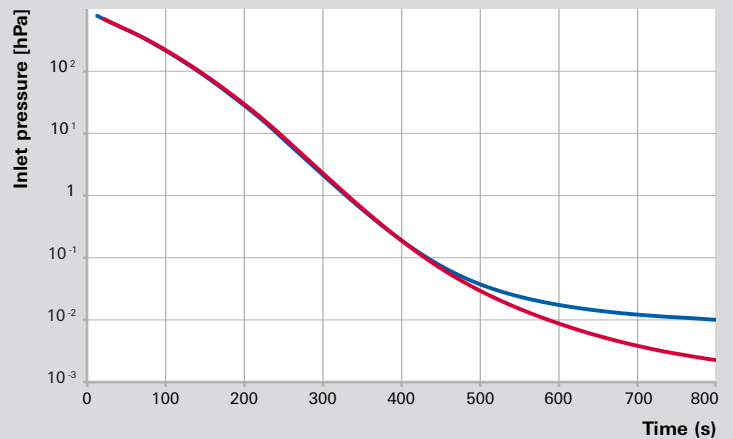
- High performance
- Reliable and energy efficient
- Compact and stackable
- Low vibration and noise levels
- Plug and Play system: integrated monitoring
- Optional RS-232/RS-485 interface

## Pumping speed



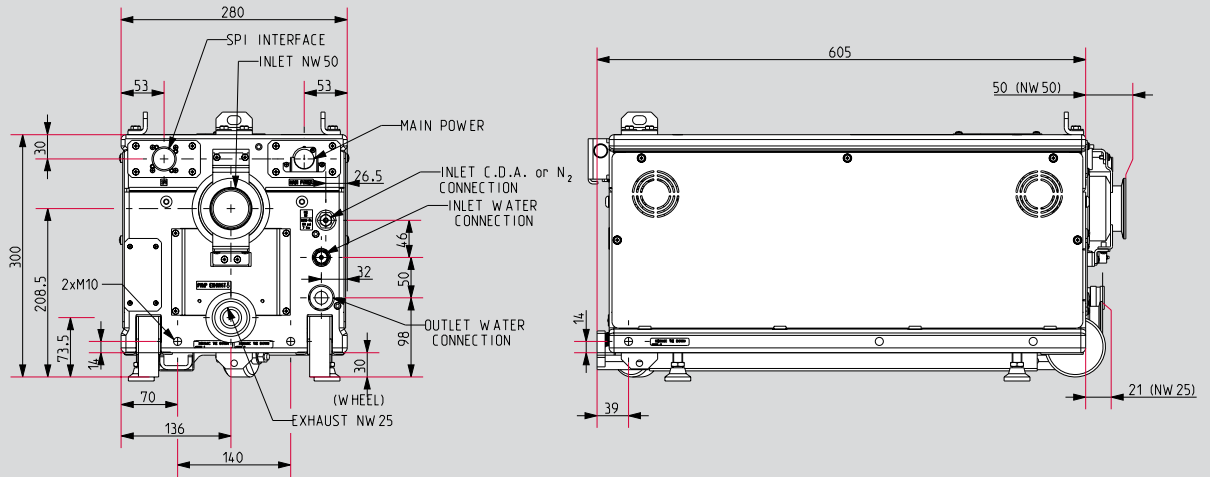
## Pressure drop

A 100 L pump down curve (volume = 1 m³)



A 100 L ES ———  
A 100 L ———

## Dimensions (mm)



## Technical data

Pump model	A 100 L	A 100 L ES
Pumping speed	100 m <sup>3</sup> /h 59 cfm 1,667 l/mn	100 m <sup>3</sup> /h 59 cfm 1,667 l/mn
Typical ultimate pressure	6.6 · 10 <sup>-3</sup> hPa 5 · 10 <sup>-3</sup> Torr 6.6 · 10 <sup>-1</sup> Pa	7 · 10 <sup>-4</sup> hPa 5 · 10 <sup>-4</sup> Torr 7 · 10 <sup>-2</sup> Pa
Power supply voltage, 3 phases, 50-60 Hz	200 – 208 V 380 – 400 V	200 – 208 V
Power consumption – at ultimate pressure – idle mode (*)	1.6 kW 0.5 to 1.2 kW	< 0.8 kW 0.2 to 0.5 kW
Max. noise level at full speed	58 dB (A)	55 dB (A)
Max. volume size	1 m <sup>3</sup>	1 m <sup>3</sup>
Cycling period, max. on 25 liters volume	40 s	40 s
Continuous inlet flow, max.	20 Slm	20 Slm
Typical vibration acceleration (at inlet flange 10–1,000 Hz)	0.1 m s <sup>-2</sup>	0.1 m s <sup>-2</sup>
Typical vibration displacement (at inlet flange 10–1,000 Hz)	1.5 µm	1.5 µm
Typical vibration speed (at inlet flange 10–1,000 Hz)	1 mm s <sup>-1</sup>	1 mm s <sup>-1</sup>
Cooling water connection	¼ NPT Quick Connect	¼ NPT Quick Connect
Cooling water flow, min.	1.6 l/min 0.44 gpm	1.6 l/min 0.44 gpm
CDA connection	/	1/8" Swagelock
CDA pressure supply, min.	/	45 psig
CDA flow (**)	/	30 Slm
Weight	100 kg	100 kg
Flange (in)	NW 50 ISO-KF	NW 50 ISO-KF
Flange (out)	NW 25 ISO-KF	NW 25 ISO-KF
Tool interface	SPI 16 or 19 pins I/O	SPI 16 or 19 pins I/O
RS-232/RS-485 interface	Option	Option

(\*) Depending on base pressure requirements

(\*\*) Only when ES module activated

## Order numbers

A 100 L ES	without RS-232/RS-485 interface		with RS-232/RS-485 interface	
Tool interface	16 pins I/O	19 pins I/O	16 pins I/O	19 pins I/O
Order number	A100L51324	A100L51334	A100L51424	A100L51434

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