

# nXLi AIR COOLED SINGLE PHASE DRY PUMP

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Edwards is delighted to introduce the new air cooled nXLi dry pump range, designed to deliver a consistent performance worldwide with complete user flexibility in mind. This new single phase pump is available in two options: nXL110i and nXL200i. Both are optimised for LCMS and ICPMS duties and are capable of handling gas loads of up to 25 slm. nXLi can also be used on chambers up to 100 litres, at continuous inlet pressures up to 15 mbar with occasional pump down.

Two pumping speeds  
 $110 \text{ m}^3\text{h}^{-1}$  and  $200 \text{ m}^3\text{h}^{-1}$

Intelligent drive transient  
overload protection

Flexibility of control

Air cooled single phase  
power input  
200 to 230V 50/60 Hz



## Worldwide consistent performance, you've got it!

Performance is at the core of nXLi. The intelligent drive enables the system to achieve an enhanced performance plateau from single phase power supply, and a consistent worldwide operation from a 200 - 230 V (+/-10%) 50/60 Hz single phase supply. The choice of control options are either manual, simple remote or serial communications (RS485 with modbus command set). These may be utilised to provide real control for the system builder.

## Innovate your world with nXLi

nXLi provides a small footprint with quiet operation making it a convenient and flexible high performing, yet compact, vacuum pump. The oil-free non-contacting pump mechanism will provide extended operation with maximum up time, up to five years service life, with zero maintenance and no oil to dispose of.

During the initial chamber pump down the nXLi is able to work harder than normal. The intelligent transient overload protection will allow a higher power draw for a short period of time for initial evacuation of the chamber from atmospheric pressure to operating pressure. This higher initial power boost enables the pump to overcome initial gas loads and once operating pressure is achieved less power is required.

nXLi is the latest addition to the Edwards intelligent pumping range and is the ideal dry pump for Scientific OEMs, LCMS end users, ICPMS end users and in applications where a consistent performance, control and reliability are essential.



## Order information

| Product description            | Order number |
|--------------------------------|--------------|
| nXL110i NW40 200-230V 50/60 Hz | A77012320    |
| nXL110i NW50 200-230V 50/60 Hz | A77012420    |
| nXL200i NW40 200-230V 50/60 Hz | A77022320    |
| nXL200i NW50 200-230V 50/60 Hz | A77022420    |

## Accessories and spares

| Product description  | Order number    |
|--|-----------------|
| 2m electrical supply cable, UK, three pin plug                               | A50505003       |
| 2m electrical supply cable, North European Plug                              | A50506003       |
| 2m electrical supply cable, North America/Japan plug                         | contact Edwards |
| 2m electrical supply cable, right angled connector, UK, three pin plug       | A50505006       |
| 2m electrical supply cable, right angled connector, North European plug      | A50506006       |
| 2m electrical supply cable, right angled connector, North America/Japan plug | contact Edwards |
| Digital operator   | D37520056       |

## Time to make the intelligent choice

### Air cooled single phase dry pump

Offering two pumping speed options of either 110 m<sup>3</sup>h<sup>-1</sup> or 200 m<sup>3</sup>h<sup>-1</sup> in the pressure range of 1 to 10 mbar

### Enhanced EMC variant

High volt variant to meet the EU harmonic emissions requirement of EN61000-3-2

### Intelligent drive transient overload protection

Enables the system to achieve the enhanced performance plateau from single phase power supply, whilst looking after the pump during initial pump down

### Flexibility of control

Manual control, simple remote control and serial communications (RS485 with Modbus command set) with a proven track record of performance control as standard allow more control options for the system builder

### Compact and quiet

Small footprint and quiet operation for an improved work environment and better use of lab space

### Oil free non contacting pump mechanism

No oil to dispose of and maintenance free ensures extended operation and maximum up time

Built-in exhaust valve for anti-suck-back protection

### Proven reliability

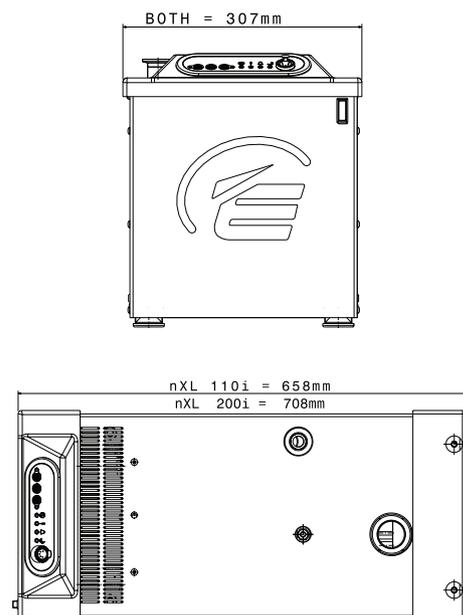
Based on Edwards iXL range of semiconductor dry pump technology for peace of mind with a proven track record of performance

**Technical data**

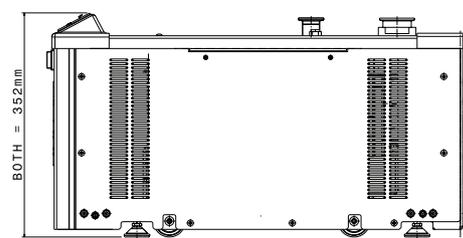
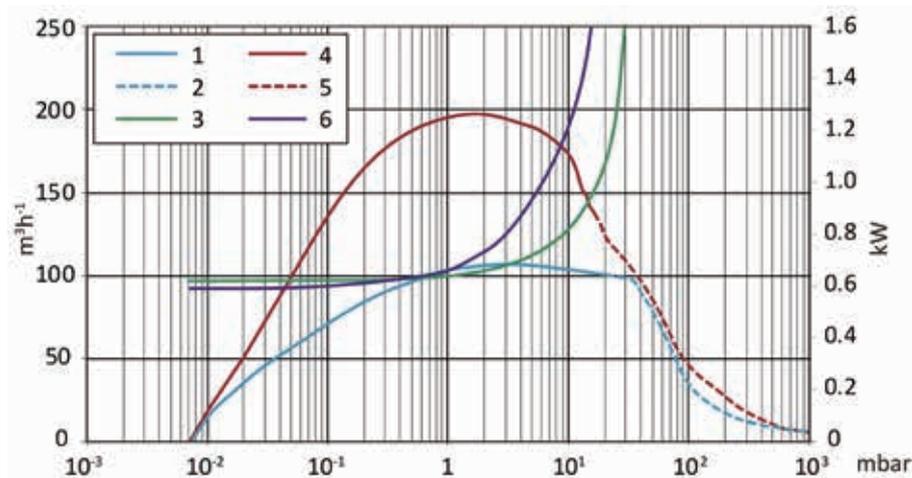
|  | Units                          | nXL110i                | nXL200i |
|--|--------------------------------|------------------------|---------|
| Pumping speed (pneurop 6602)                       | m <sup>3</sup> h <sup>-1</sup> | 110                    | 200     |
| Ultimate vacuum (total pressure)                   | mbar                           | <2 x 10 <sup>-2</sup>  |         |
| Displacement (50/60hz)                             | m <sup>3</sup> h <sup>-1</sup> | 131                    | 283     |
| Inlet flange*                                      |                                | NW40                   |         |
| Outlet flange*                                     |                                | NW25                   |         |
| Maximum permitted outlet pressure                  | bar gauge/psig                 | 0.5 / 7.0              |         |
| Operating temperature range                        | °C                             | 10 - 40                |         |
| Nominal rotational speed                           | rpm                            | 9000                   |         |
| Power connector 1-ph                               |                                | IEC EN60320 C19        |         |
| Power at ultimate                                  | kW                             | 0.65                   |         |
| Power at typical application condition (2-10 mbar) | kW                             | 0.7 - 0.9              |         |
| Flow at typical application condition              | slm                            | 3-15                   | 6-22    |
| Max power during ramp up                           | kW                             | 1.1                    |         |
| Leak tightness                                     | mbar ls <sup>-1</sup>          | 1.0 x 10 <sup>-5</sup> |         |
| Weight   | kg                             | 75                     | 81      |
| Noise (pressure)                                   | dB(A)                          | 56.7                   |         |
| Vibration at inlet flange                          | mms <sup>-1</sup> (rms)        | <2.5                   |         |

\*Alternative connections available upon request

**Dimensions – mm**



**Performance graph**



- 1. nXL110i
- 2. nXL110i in transient overload protection
- 3. nXL110i supply power (kW)
- 4. nXL200i
- 5. nXL200i in transient overload protection
- 6. nXL200i supply power (kW)

**GLOBAL CONTACTS**

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Edwards Ltd, registered in England and Wales No. 6124750, registered office: Innovation Drive, Burgess Hill, West Sussex, RH15 9TW, UK.

**EMEA**

- UK** +44 1444 253 000  
(local rate) 08459 212223
- Belgium** +32 2 300 0730
- France** +33 1 4121 1256
- Germany** 0800 000 1456
- Italy** + 39 02 48 4471
- Israel** + 972 8 681 0633

**ASIA PACIFIC**

- China** +86 400 111 9618
- India** +91 20 4075 2222
- Japan** +81 47 458 8836
- Korea** +82 31 716 7070
- Singapore** +65 6546 8408
- Taiwan** +886 3758 1000

**AMERICAS**

- USA** +1 800 848 9800
- Brazil** +55 11 3952 5000

