

# N 920 SERIES VACUUM PUMPS



N 920 APE-W



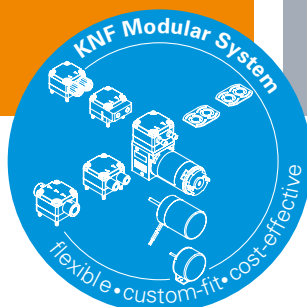
N 920 APDC-B

## ADVANTAGES

- Multi-voltage power supply input
- High-speed evacuation of the measurement chamber thanks to exceptional suction speed
- Stable vacuum in the transfer area to the turbomolecular pump

## POSSIBLE AREAS OF USE

- Can be used as roughing pump for turbomolecular pumps – i.a. for surface finishing
- Instrumental analysis – especially in the field of spectroscopy
- Used in helium leak detectors



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## PERFORMANCE DATA

| Series model                            | N 920       |          |
|---|-------------|----------|
| Material design                         | APE-W       | APDC-B   |
| Pump head                               | Aluminum    |          |
| Diaphragm                               | EPDM        |          |
| Valve plate                             | EPDM        |          |
| Flow rate at atm. pressure (l/min)      | 21.0        |          |
| Ultimate vacuum (mbar abs.)             | < 1.5       |          |
| Max. operating pressure (bar rel./psig) | 0.5/7.3     |          |
| Permissible ambient temperature (°C)    | +10 ... +40 |          |
| Permissible media temperature (°C)      | +5 ... +40  |          |
| Weight (kg/lbs)                         | 10.0/22.0   | 8.5/18.7 |

## ELECTRICAL DATA

|                          |   |  |
|--------------------------|---|--|
| Voltage (V)              | 100–240                                 | 24   |
| Motor                    | Brushless DC motor with AC power supply | Brushless DC motor                           |
| Protection class motor   | IP 20                                   | IP 00  |
| Frequency (Hz)           | 50–60                                   | -  |
| Power P <sub>1</sub> (W) | 120                                     | 100  |
| I <sub>max</sub> (A)     | 1.30                                    | 4.2 (starting current temporary 200 ms: 7 A) |

## ACCESSORIES

| Description                   | Part No. | Details              |
|-------------------------------|----------|----------------------|
| Silencer/Inlet filter         | 007006   | G 1/8                |
| Small flange, stainless steel | 046625   | KF 16                |
| Hose connector                | 029113   | G 1/8, for tube ID 9 |
| Sealing for hose connector    | 026906   |                      |

## SPARE PARTS

| Description             | Part No. | Details |
|-------------------------|----------|---------|
| Spare parts kit         | 057456   |         |
| Stabilization diaphragm | 056523   |         |

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply.

Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained in these instructions should be noted.

KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.



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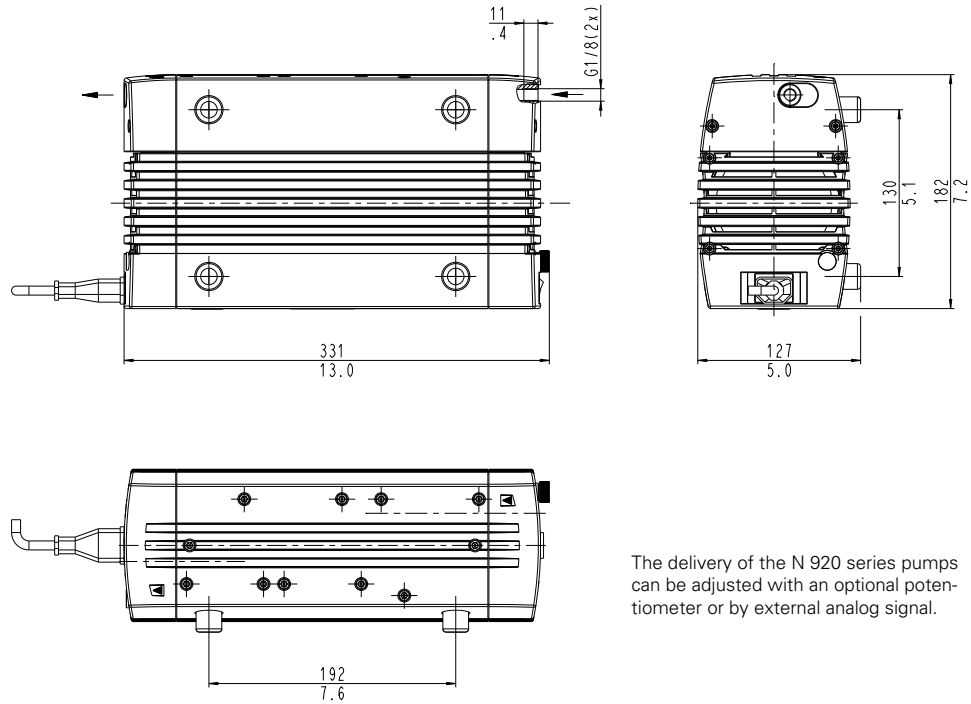
# N 920 APE-W

## PERFORMANCE DATA

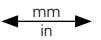
| Series model | Flow rate at atm. pressure (l/min) <sup>1)</sup> | Max. operating pressure (bar rel./psig) | Ultimate vacuum (mbar abs.) |
|--------------|--|---|-----------------------------|
| N 920 APE-W  | 21.0   | 0.5/7.3                                 | < 1.5                       |

<sup>1)</sup> Liter at STP

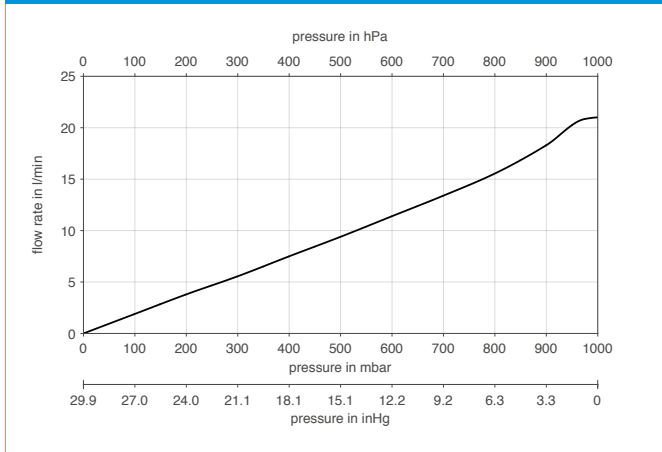
## N 920 APE-W



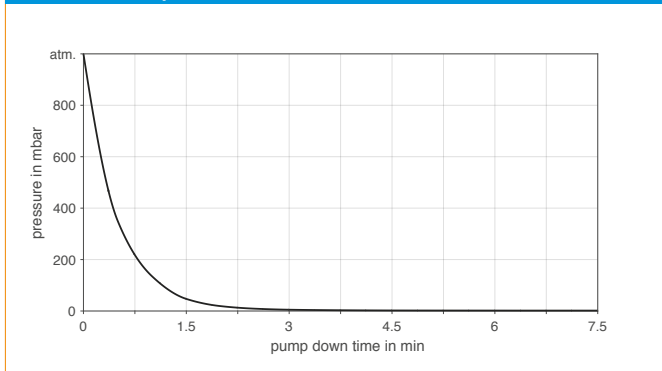
The delivery of the N 920 series pumps can be adjusted with an optional potentiometer or by external analog signal.



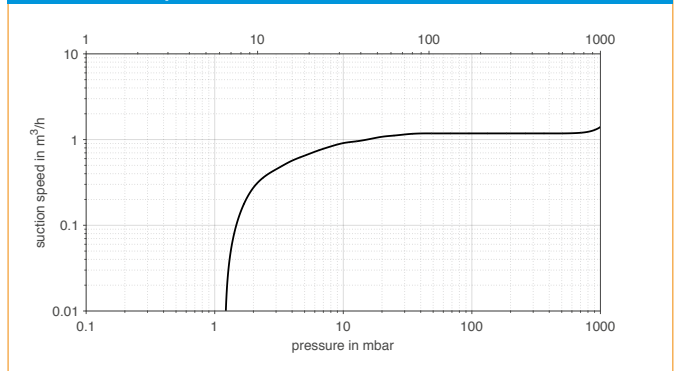
## N 920 APE-W



## N 920 APE-W | PUMP DOWN TIME FOR 10 LITER VESSEL



## N 920 APE-W | SUCTION PUMPING SPEED



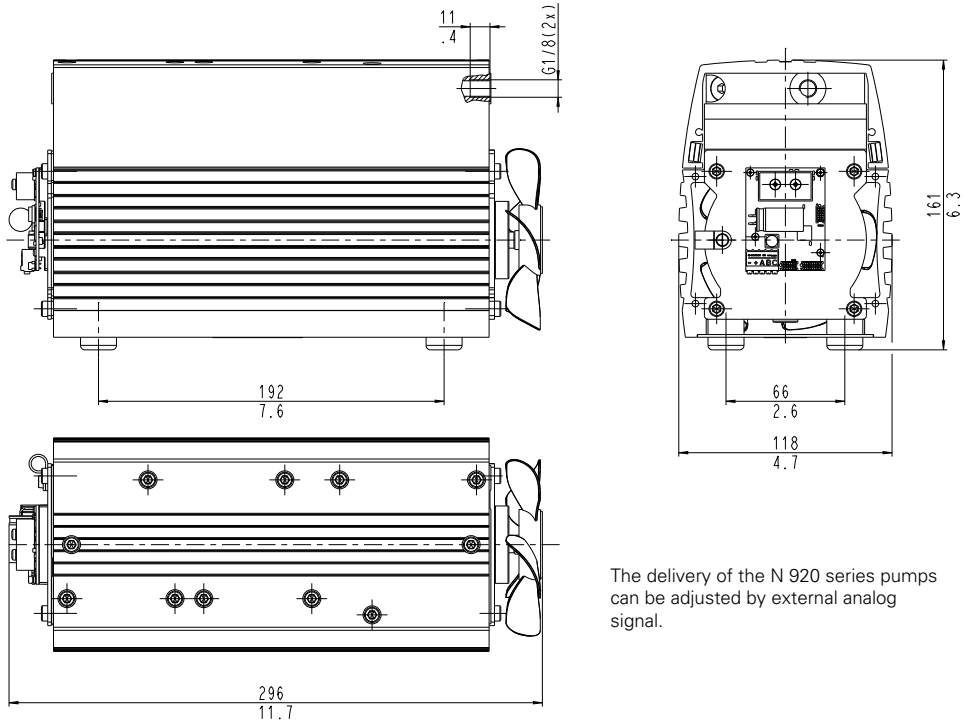
# N 920 APDC-B

## PERFORMANCE DATA

| Series model | Flow rate at atm. pressure (l/min) <sup>1)</sup> | Max. operating pressure (bar rel./psig) | Ultimate vacuum (mbar abs.) |
|--------------|--|---|-----------------------------|
| N 920 APDC-B | 21.0   | 0.5/7.3                                 | < 1.5                       |

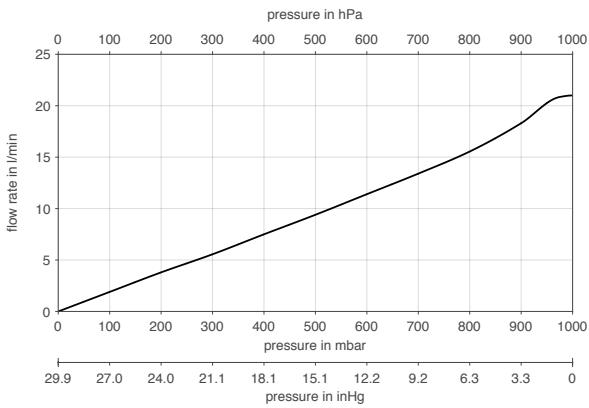
<sup>1)</sup> Liter at STP

## N 920 APDC-B

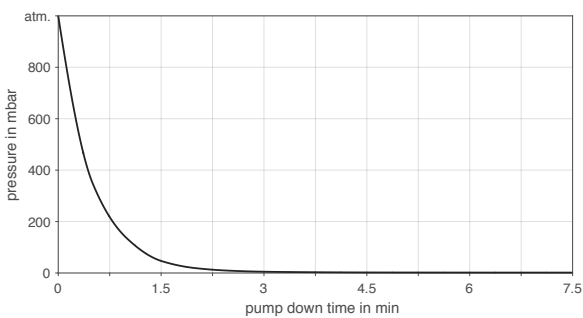


The delivery of the N 920 series pumps can be adjusted by external analog signal.

## N 920 APDC-B



## N 920 APDC-B | PUMP DOWN TIME FOR 10 LITER VESSEL



## N 920 APDC-B | SUCTION PUMPING SPEED

