



## Diaphragm Pumps for Air, Gases and Vapours



### LABOPOINT® Chemically-resistant Diaphragm Vacuum Pumps

#### Technical features:

- 100% oil-free transfer
- Pure transferring and evacuation of gases
- Highly compatible with vapours and condensation
- Chemically-resistant
- Therefore suitable for highly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

#### Series LABOPOINT® N 810 FT.18, N 810.3 FT.18 Pumps

The chemically-resistant series N 810 and N 810.3 diaphragm pumps are single- and double-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump down without contamination.

The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 810 FT.18	PTFE	PTFE-coated	FFPM
N 810.3 FT.18	PTFE	PTFE-coated	FFPM

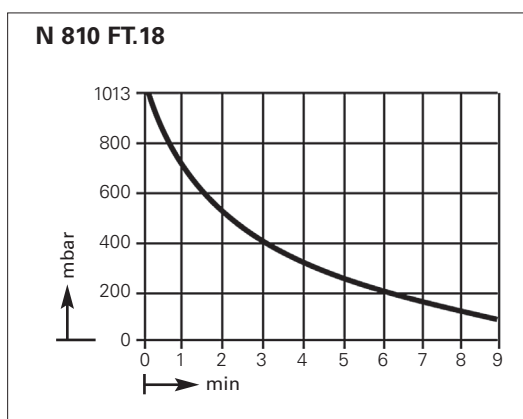
Technical data:	N 810 FT.18	N 810.3 FT.18
Delivery (l/min) <sup>1)</sup>	10	10
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	230V/50Hz	230V/50Hz
Mains	IP 44	IP 44
Power P <sub>1</sub>	100 W	90 W
Operating current	0.6 A	0.6 A
Weight	5.9 kg	6.9 kg
Dimensions		
LxHxW (mm)	256/187/146	281/187/140
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

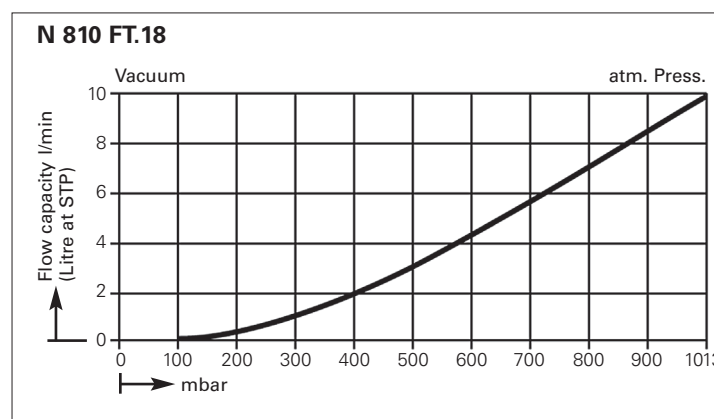
<sup>1)</sup> at atm. pressure

## Dimensions and performance characteristics

#### Pump down time for 10 l receiver

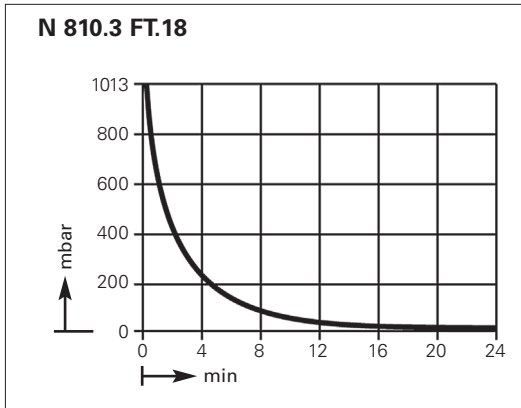


#### Performance characteristics

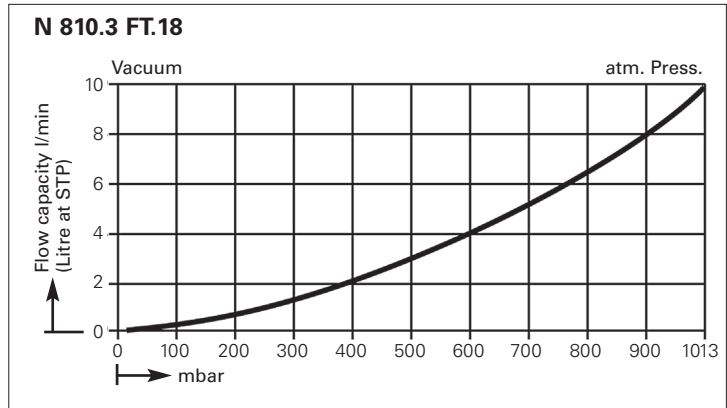




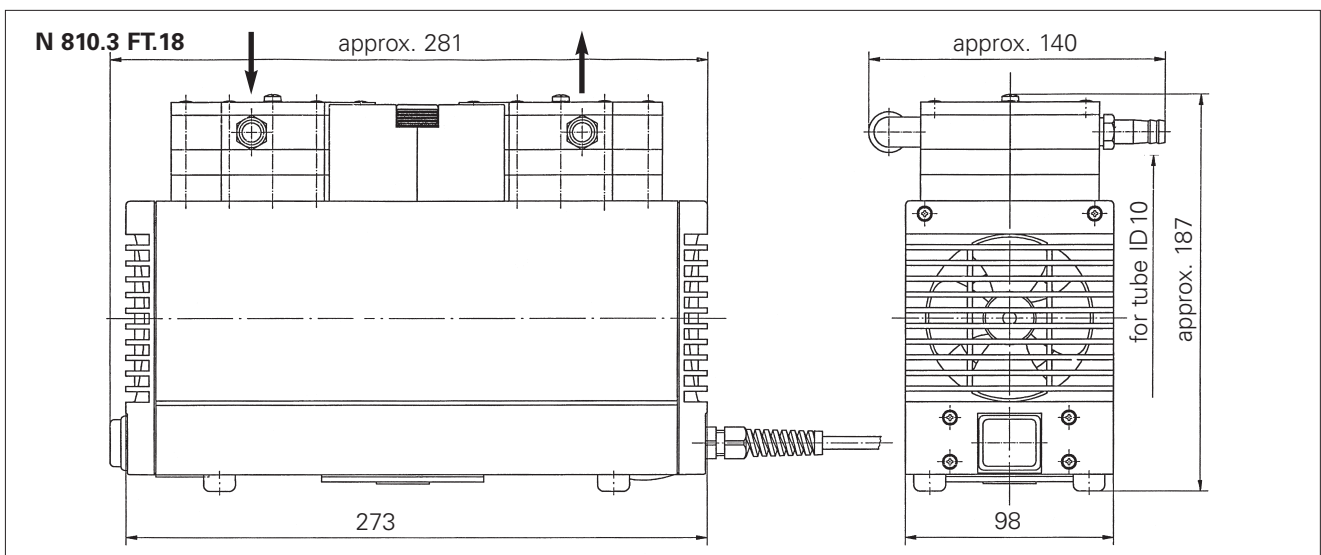
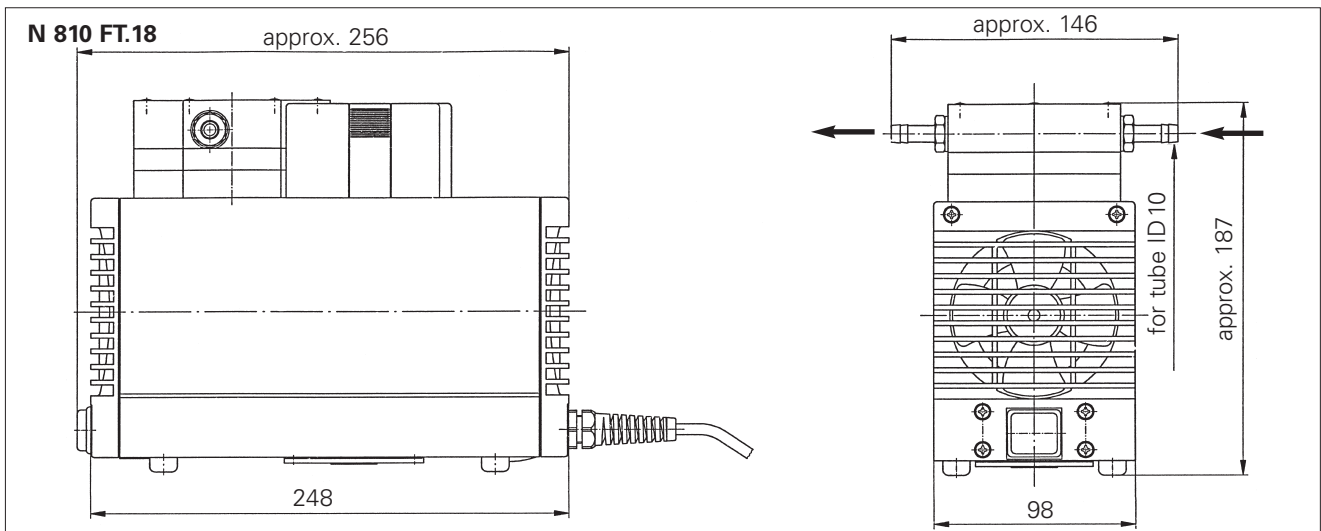
**Pump down time for 10 l receiver**



**Performance characteristics**



**Dimensions (mm)**



**Spare parts**

Description	Details	Order No.
Spares kit	for N 810 FT.18	058077
Spares kit	for N 810.3 FT.18	057357



## Diaphragm Pumps for Air, Gases and Vapours



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- Chemically-resistant
- Therefore suitable for highly aggressive or corrosive gases and vapours
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- Environmentally friendly
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#### Series LABOPOINT® N 820 FT.18, N 820.3 FT.18 Pumps

The chemically-resistant series N 820 and N 820.3 diaphragm pumps are single- and double-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump down without contamination.

The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 820 FT.18	PTFE	PTFE-coated	FFPM
N 820.3 FT.18	PTFE	PTFE-coated	FFPM

Technical data:	N 820 FT.18	N 820.3 FT.18
Delivery (l/min) <sup>1)</sup>	20	20
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 44	IP 44
Power P <sub>1</sub>	130 W	120 W
Operating current	0.9 A	0.7 A
Weight	7.1 kg	9.3 kg
Dimensions LxHxW (mm)	268/207/159	312/207/154

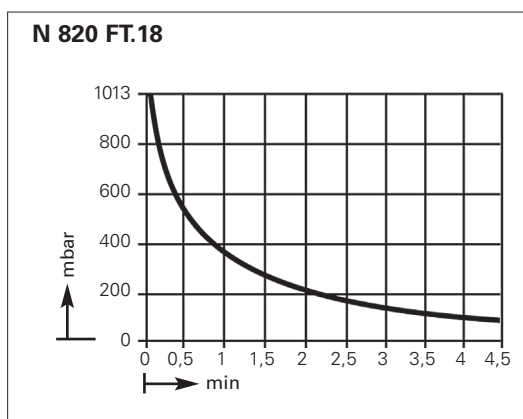
With thermal switch and power fuse

Motors with other voltages and frequencies on request.

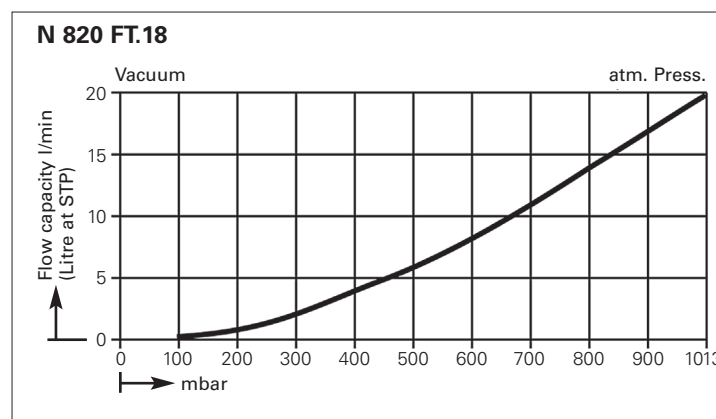
<sup>1)</sup> at atm. pressure

## Dimensions and performance characteristics

#### Pump down time for 10 l receiver

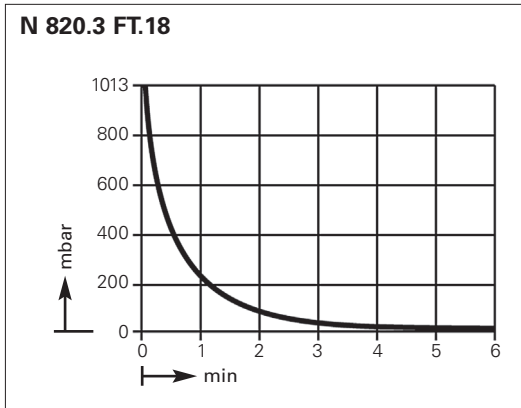


#### Performance characteristics

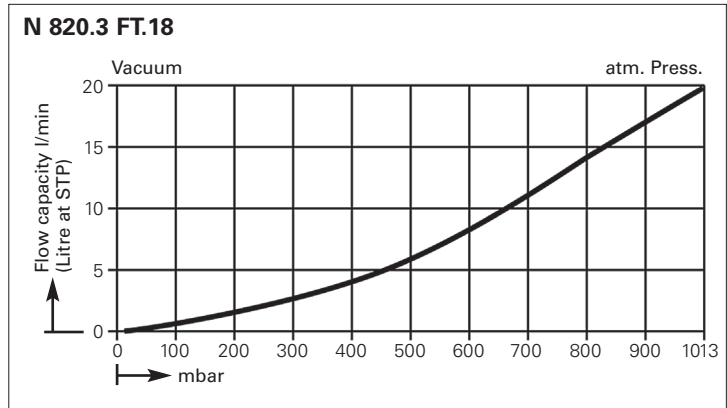




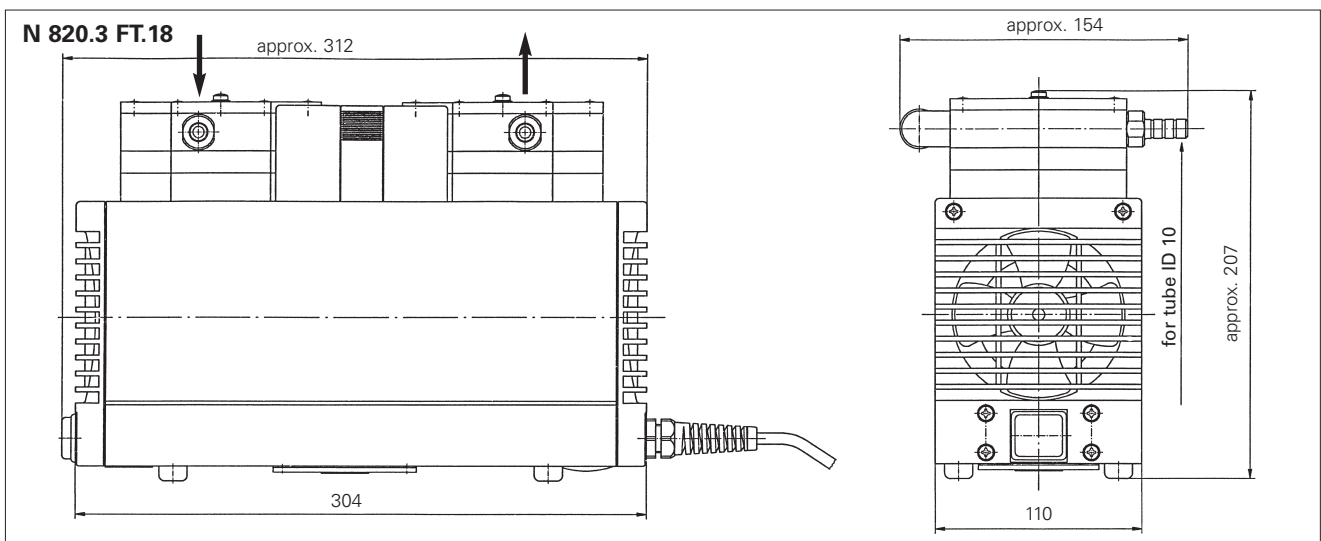
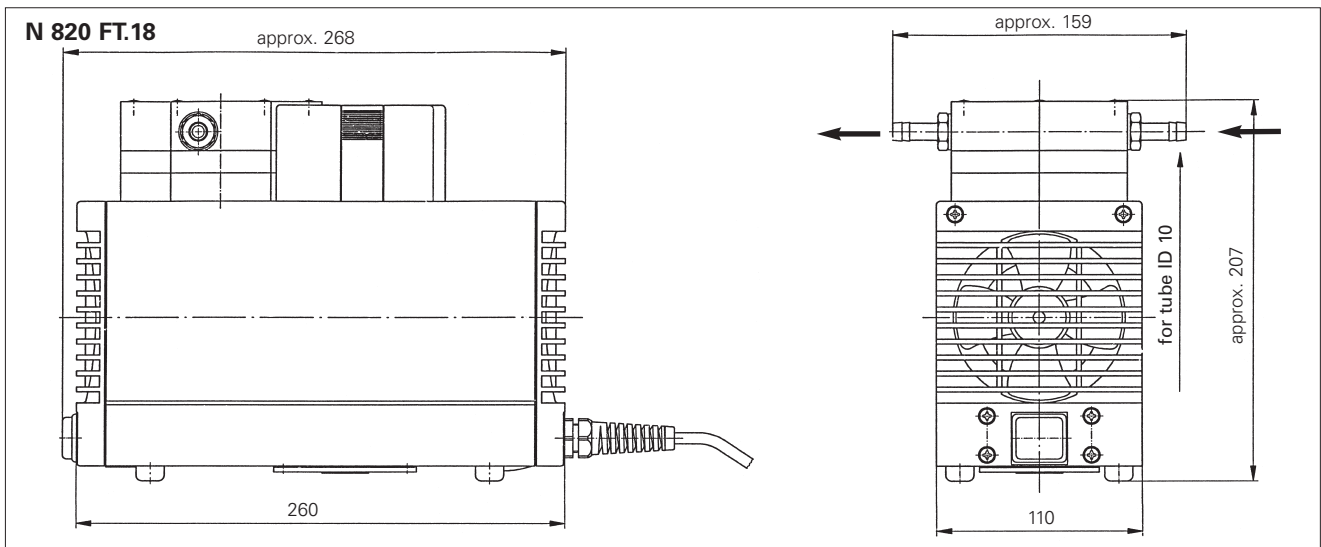
**Pump down time for 10 l receiver**



**Performance characteristics**



**Dimensions (mm)**



**Spare parts**

Description	Details	Order No.
Spares kit	for N 820 FT.18	058078
Spares kit	for N 820.3 FT.18	057358



## Diaphragm Pumps for Air, Gases and Vapours



### LABOPORT® Chemically-resistant Diaphragm Vacuum Pumps

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- Chemically-resistant
- Therefore suitable for highly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

#### Series LABOPORT® N 840 FT.18, N 840.3 FT.18 Pumps

The chemically-resistant series N 840 and N 840.3 diaphragm pumps are single- and double-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump down without contamination.

The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 840 FT.18	PTFE	PTFE-coated	FFPM
N 840.3 FT.18	PTFE	PTFE-coated	FFPM

Technical data:	N 840 FT.18	N 840.3 FT.18
Delivery (l/min) <sup>1)</sup>	34	34
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 44	IP 44
Power P <sub>1</sub>	180 W	245 W
Operating current	1.5 A	1.5 A
Weight	10.3 kg	12.6 kg
Dimensions LxHxW (mm)	297/226/171	341/226/166

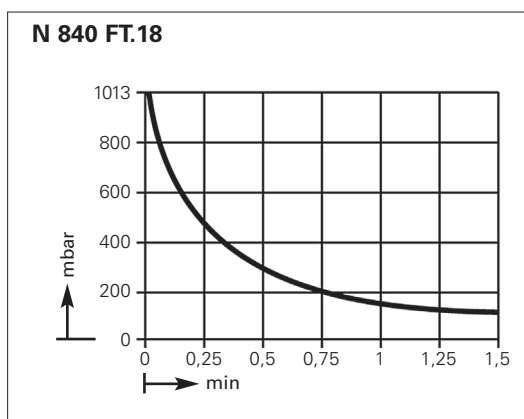
With thermal switch and power fuse

Motors with other voltages and frequencies on request.

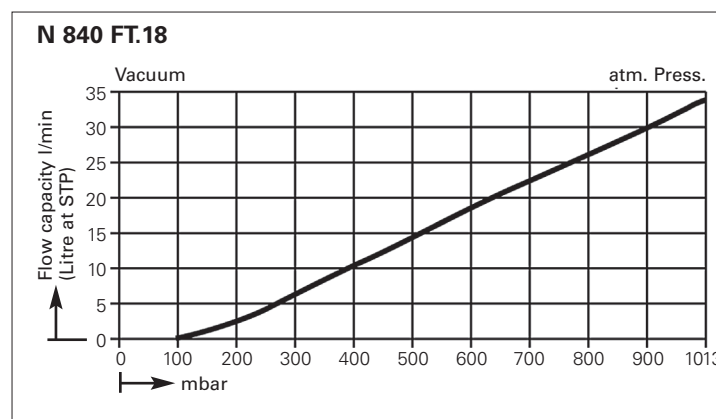
<sup>1)</sup> at atm. pressure

## Dimensions and performance characteristics

#### Pump down time for 10 l receiver

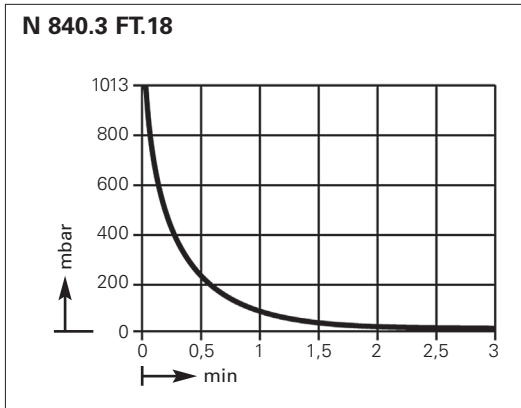


#### Performance characteristics

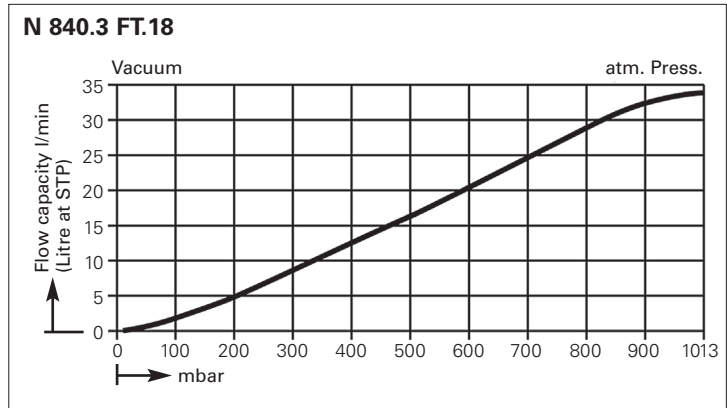




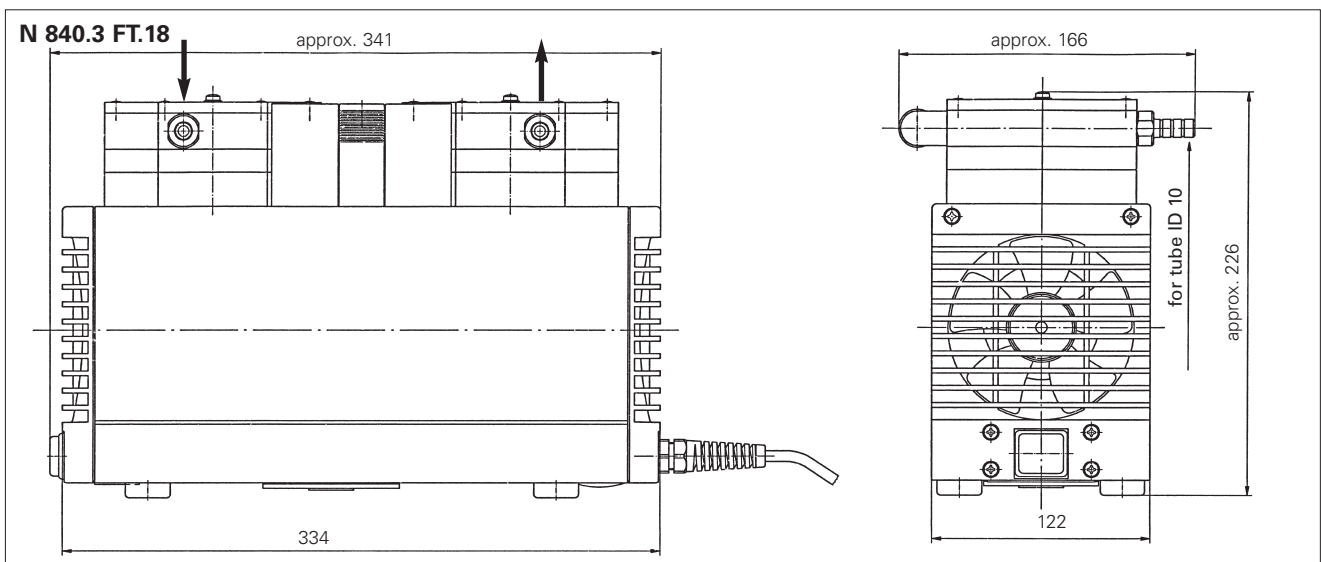
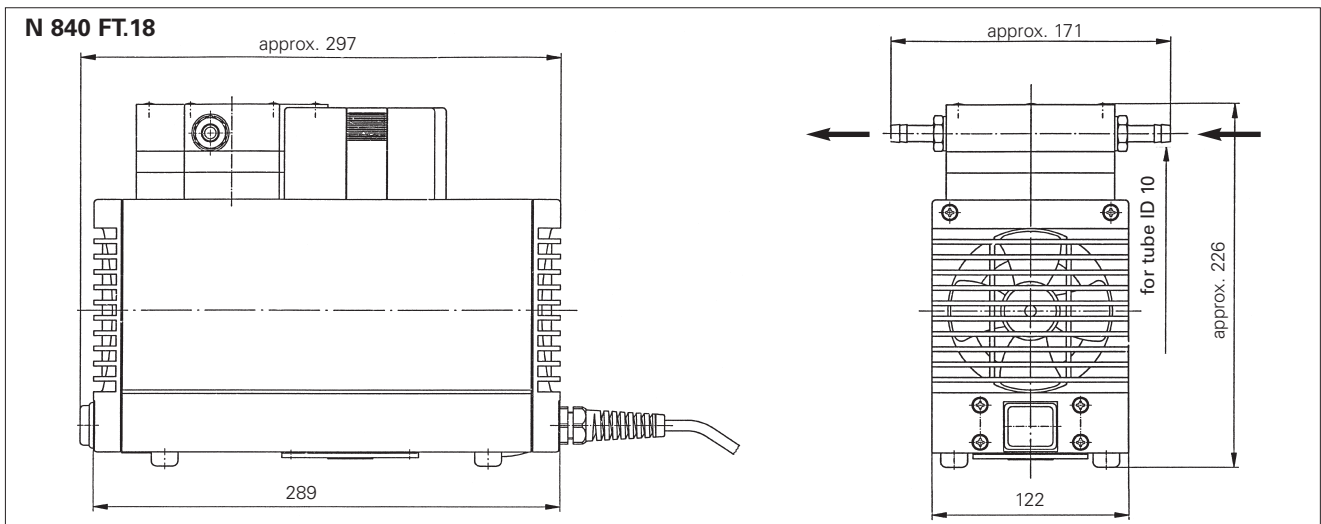
**Pump down time for 10 l receiver**



**Performance characteristics**



**Dimensions (mm)**

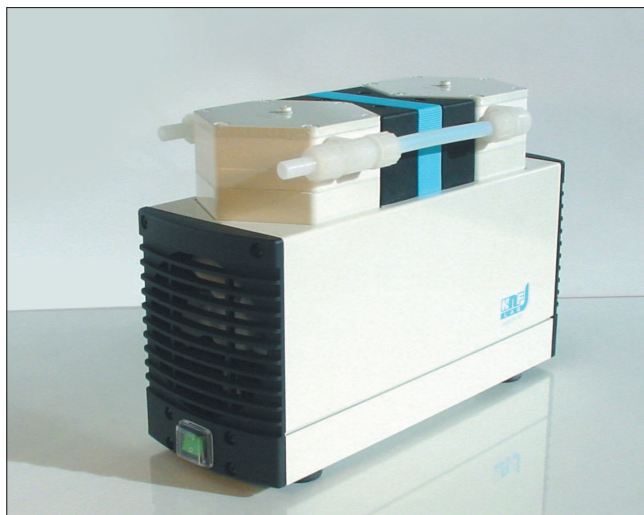


**Spare parts**

Description	Details	Order No.
Spares kit	for N 840 FT.18	058079
Spares kit	for N 840.3 FT.18	057359



## Diaphragm Pumps for Air, Gases and Vapours



### LABOPORT® Chemically-resistant Diaphragm Vacuum Pump

#### Technical features:

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- Therefore suitable for highly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

#### Serie LABOPORT® N 840.1.2 FT.18 Pump

The chemically-resistant serie N 840.1.2 diaphragm pump is a double-head, dry-running device used in a wide range of laboratory applications. These pump transfer and pump down without contamination.

The heart of this very compact pump is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pump smaller while increasing the service life of the diaphragm.

#### Technical data: **N 840.1.2 FT.18**

Delivery (l/min) <sup>1)</sup>	60
Ultimate vacuum (mbar abs.)	90
operating pressure (bar g)	1
Connectors for tube (mm)	ID 10
Permissible gas and ambient temperature	+5...+40 °C
Mains	230V/50Hz
Motor protection	IP 44
Power P <sub>1</sub>	270 W
Operating current	1.9 A
Weight	12.6 kg
Dimensions	
LxHxW (mm)	341/226/160
With thermal switch and power fuse	

Motors with other voltages and frequencies on request.

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 840.1.2 FT.18	PTFE	PTFE-coated	FFPM

<sup>1)</sup> at atm. pressure

#### Spare parts

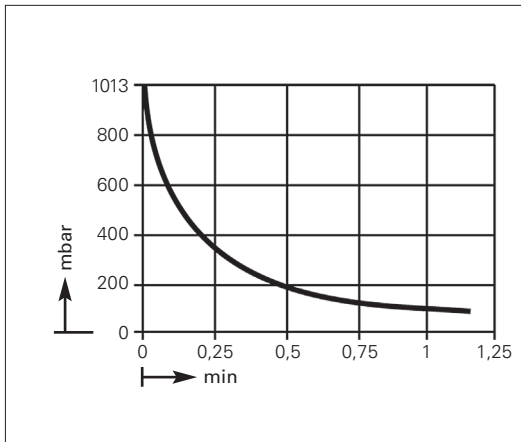
Description	Order No.
Spares kit	057359



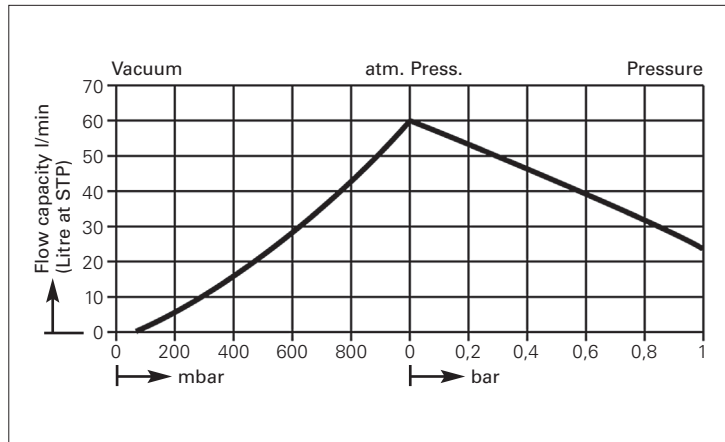
# Diaphragm Pumps for Air, Gases and Vapours

## Dimensions and performance characteristics

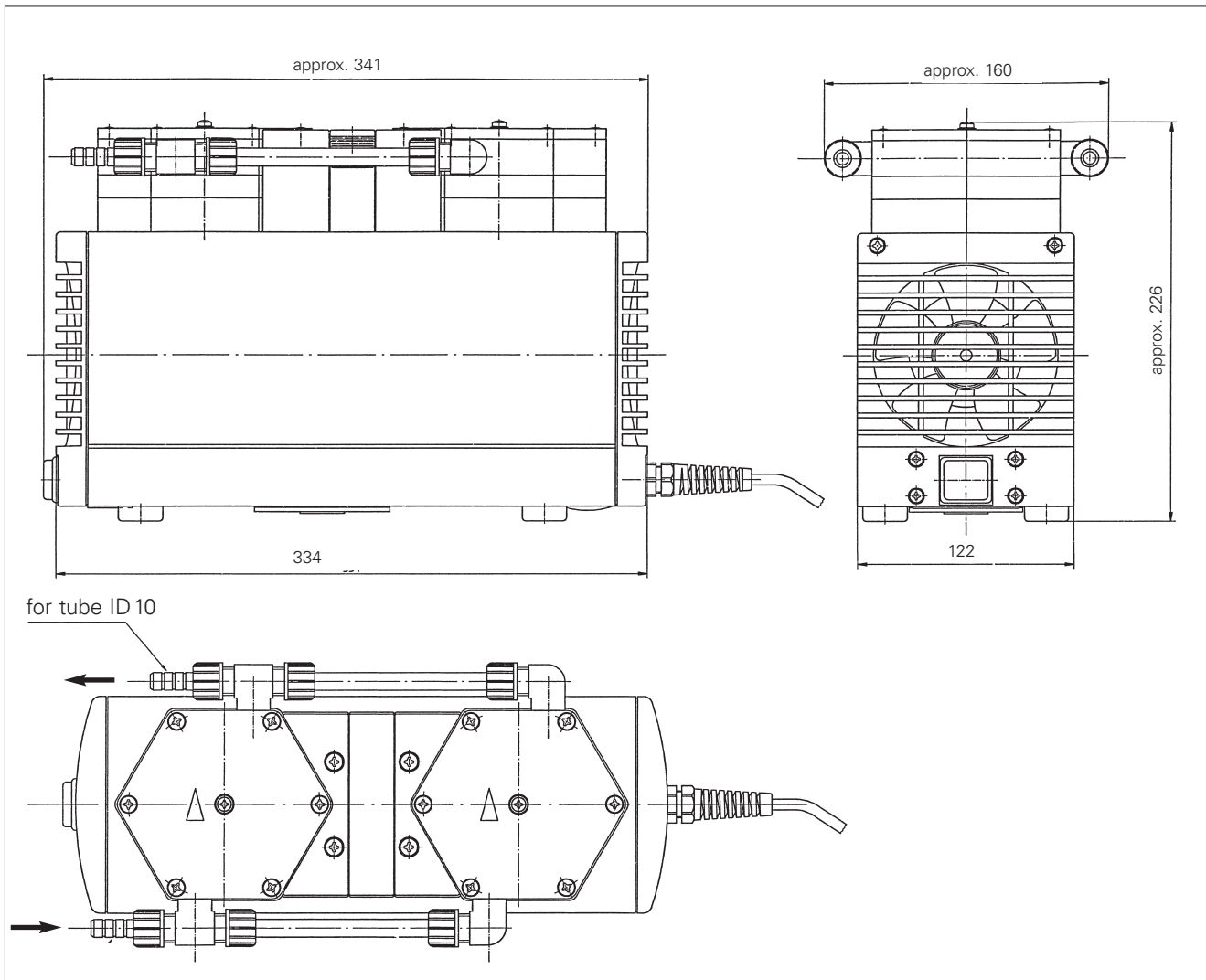
Pump down time for 10 l receiver



Performance characteristics



## Dimensions (mm)







## Diaphragm Pumps for Air, Gases and Vapours



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- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

#### Serie LABOPORT® N 842.3 FT.18 Pump

The chemically-resistant serie N 842.3 diaphragm pump is a double-head, dry-running device used in a wide range of laboratory applications. These pump transfer and pump down without contamination.

The heart of this very compact pump is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pump smaller while increasing the service life of the diaphragm.

#### Technical data: **N 842.3 FT.18**

Delivery (l/min) <sup>1)</sup>	34
Ultimate vacuum (mbar abs.)	2
operating pressure (bar g)	1
Connectors for tube (mm)	ID 10
Permissible gas and ambient temperature	+5...+40 °C
Mains	230V/50Hz
Motor protection	IP 44
Power P <sub>1</sub>	245 W
Operating current	1.5 A
Weight	13.4 kg
Dimensions	
LxHxW (mm)	341/223/167
With thermal switch and power fuse	

Motors with other voltages and frequencies on request.

<sup>1)</sup> at atm. pressure

#### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 842.3 FT.18	PTFE	PTFE-coated	FFPM

#### Spare parts

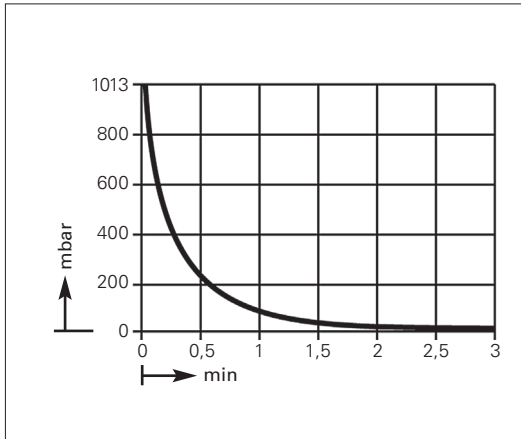
Description	Order No.
Spares kit	057359



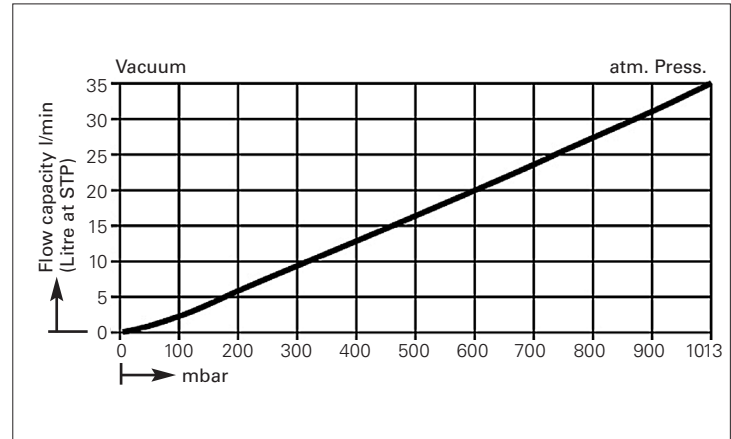
# Diaphragm Pumps for Air, Gases and Vapours

## Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

