



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. 6×10^{-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

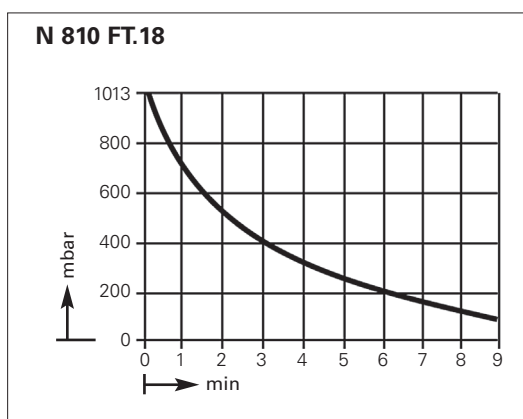
Technical data:	N 810 FT.18	N 810.3 FT.18
Delivery (l/min) ¹⁾	10	10
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	230V/50Hz	230V/50Hz
Mains	IP 44	IP 44
Power P ₁	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.

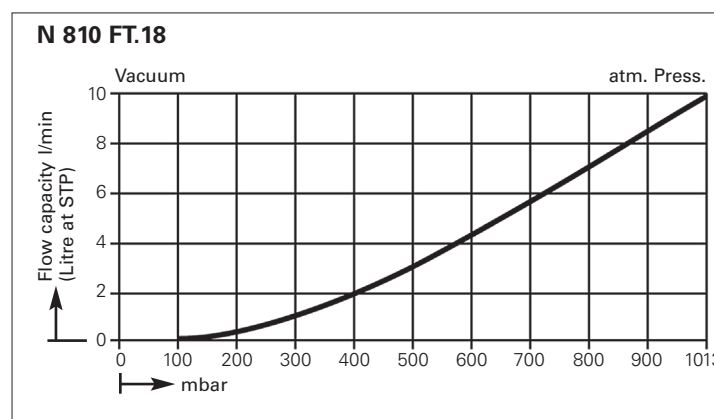
¹⁾ at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver

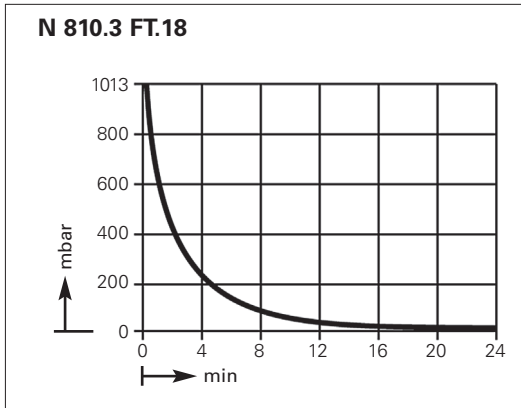


Performance characteristics

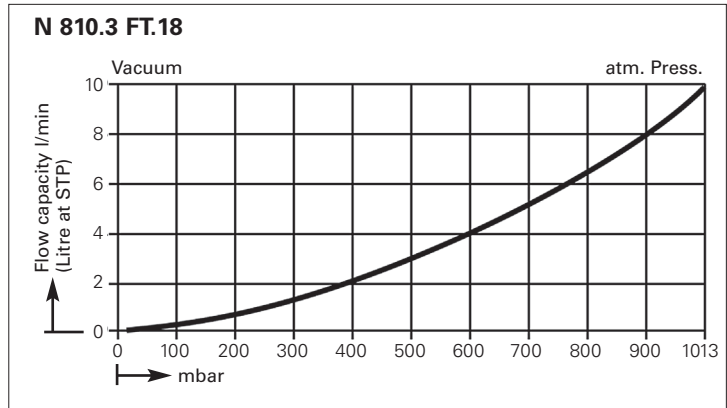




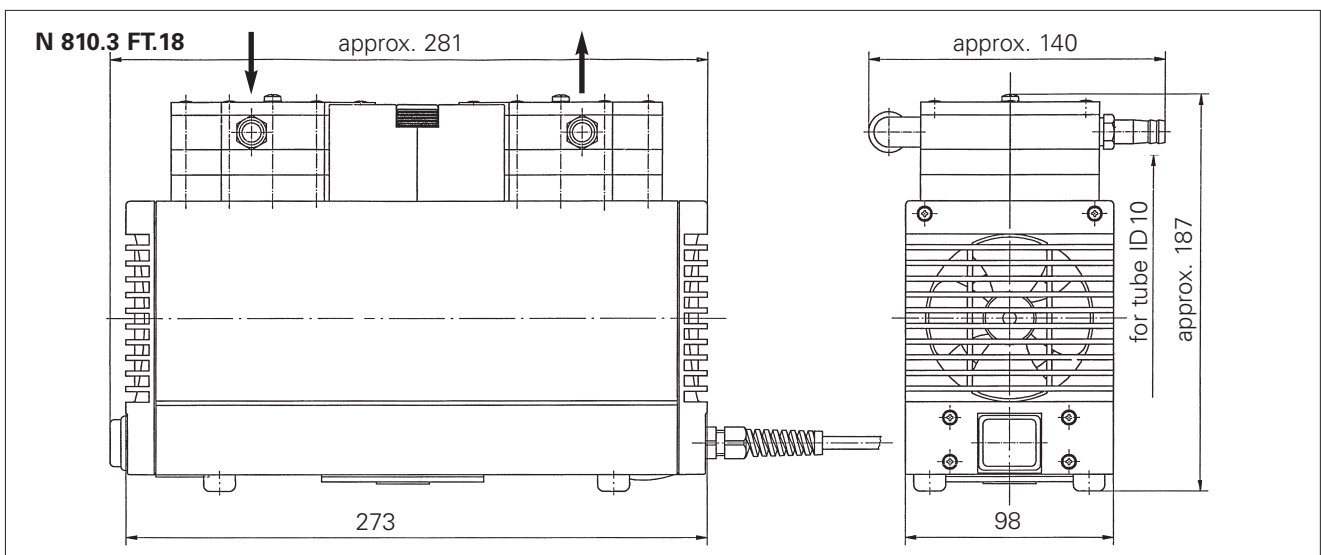
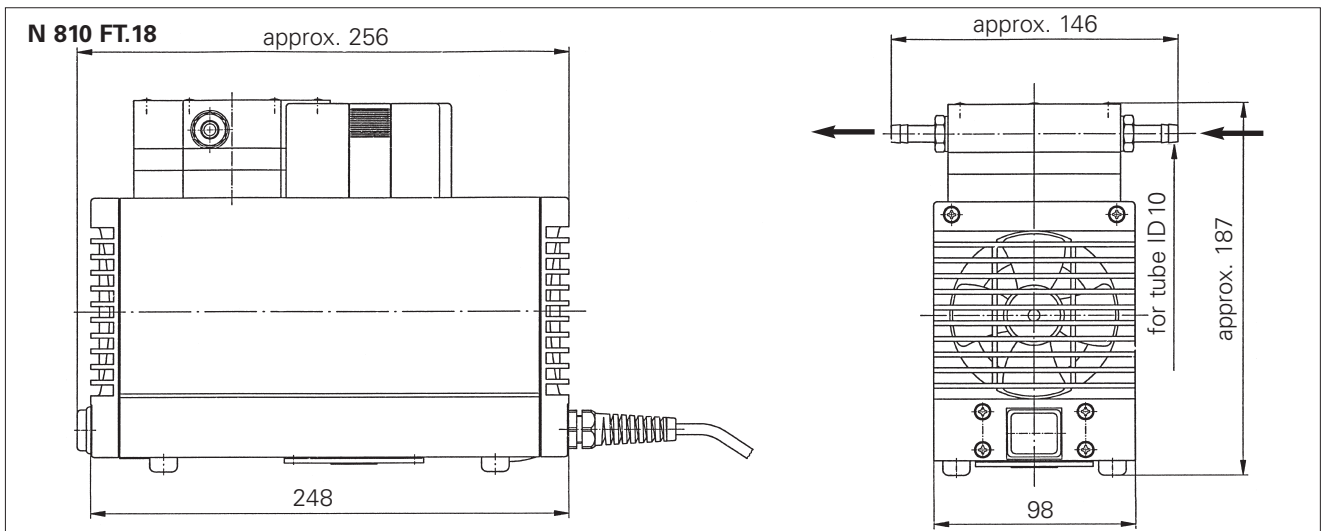
Pump down time for 10 l receiver



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



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Diaphragm Pumps + Systems



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KNF Micro AG



KNF Neuberger S.A.



KNF FLODOS AG

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Switzerland

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- 100% oil-free transfer
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- 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. 6×10^{-3} mbar x l/s, not tested in serial production.

Series LABOPORT® 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

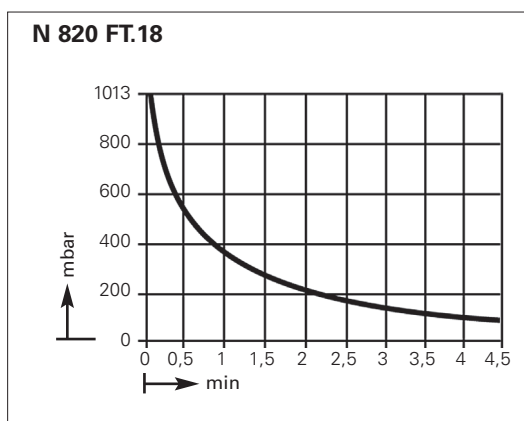
Technical data:	N 820 FT.18	N 820.3 FT.18
Delivery (l/min) ¹⁾	20	20
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 44	IP 44
Power P ₁	130 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.

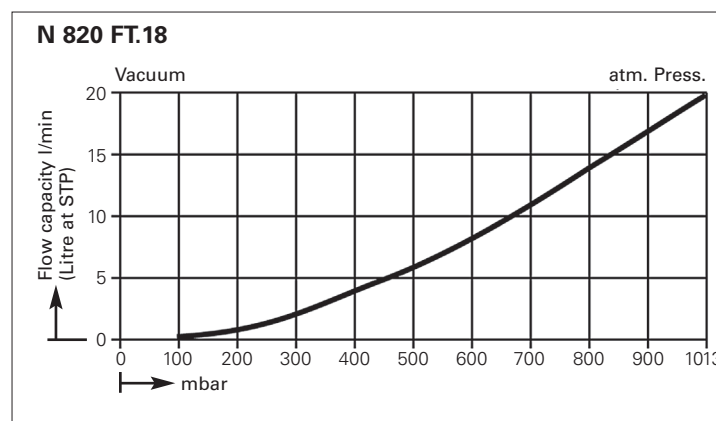
¹⁾ at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver

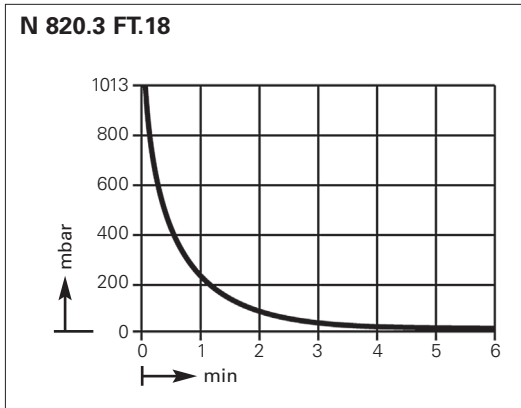


Performance characteristics

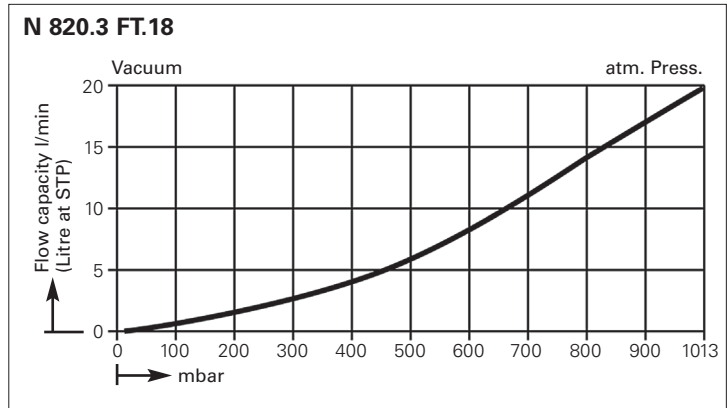




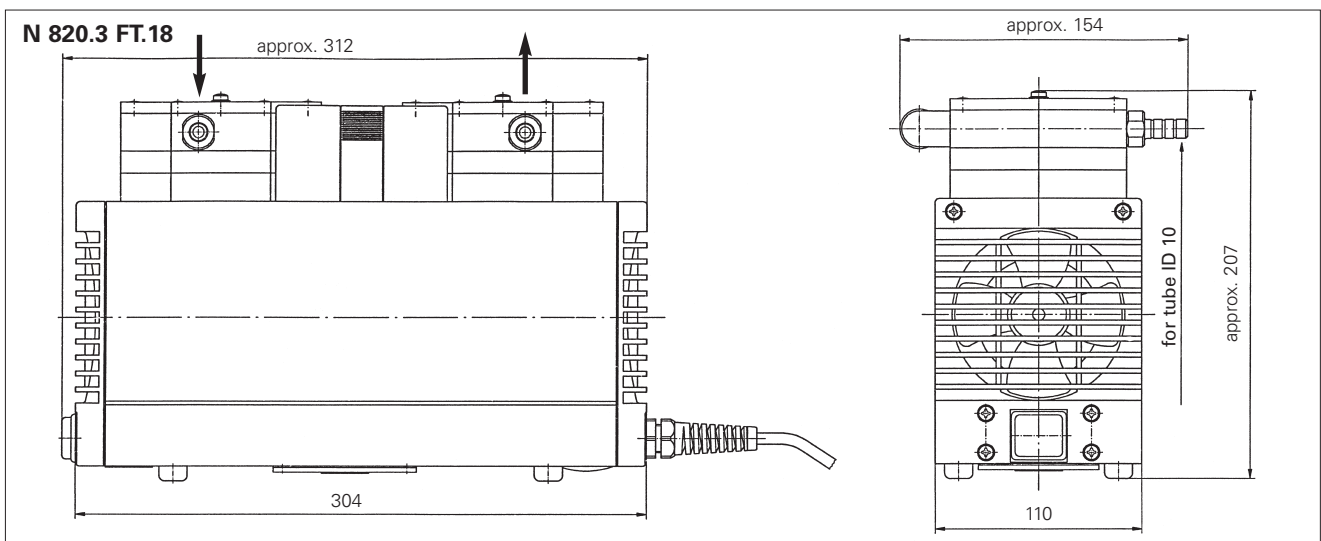
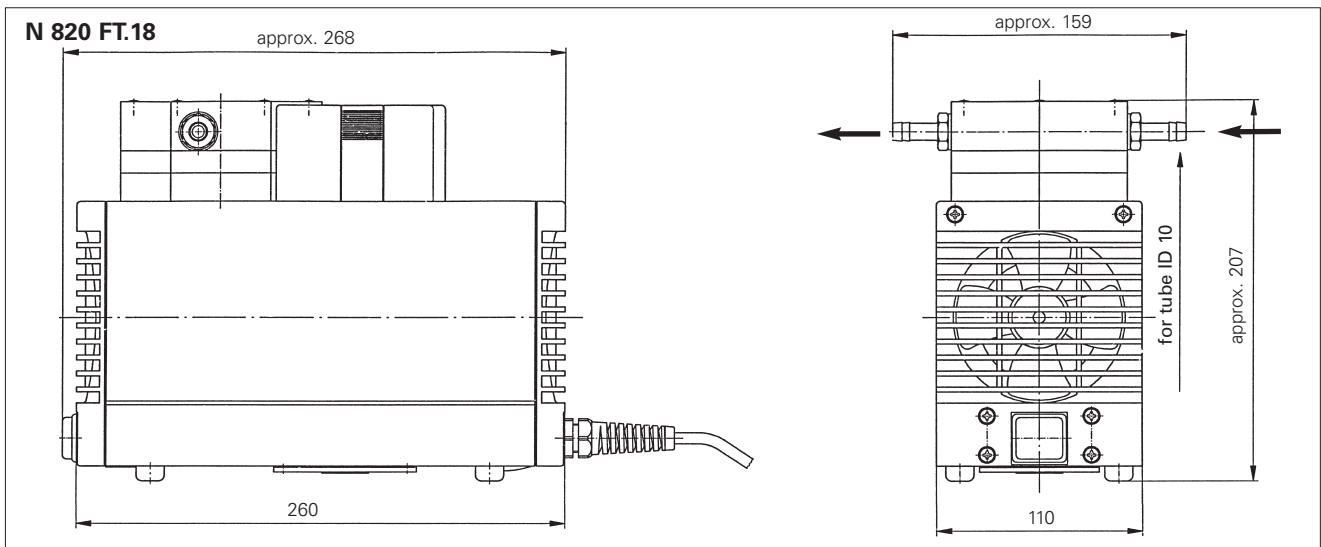
Pump down time for 10 l receiver



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



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Diaphragm Pumps + Systems



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KNF Neuberger, INC.



KNF Micro AG



KNF Neuberger S.A.



KNF FLODOS AG

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France

KNF Neuberger S.A.
Village-Neuf

Switzerland

KNF FLODOS AG
Sursee

Switzerland

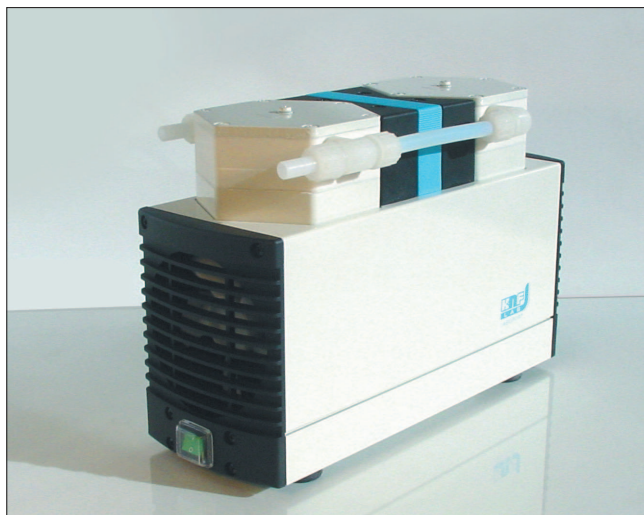
KNF Micro AG
Reiden

USA

KNF Neuberger, INC.
Trenton - New Jersey



Diaphragm Pumps for Air, Gases and Vapours



LABOPORT® Chemically-resistant Diaphragm Vacuum Pump

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. 6×10^{-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) ¹⁾	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 ₁	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

¹⁾ at atm. pressure

Spare parts

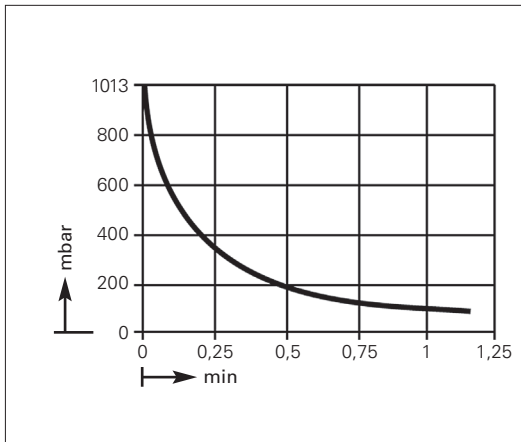
Description	Order No.
Spares kit	057359



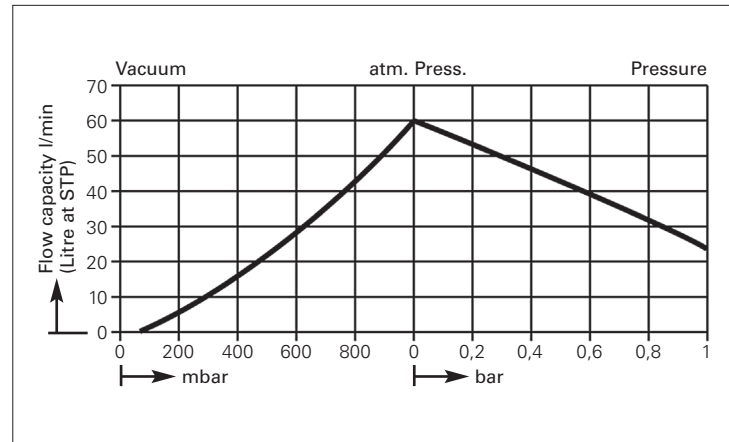
Diaphragm Pumps for Air, Gases and Vapours

Dimensions and performance characteristics

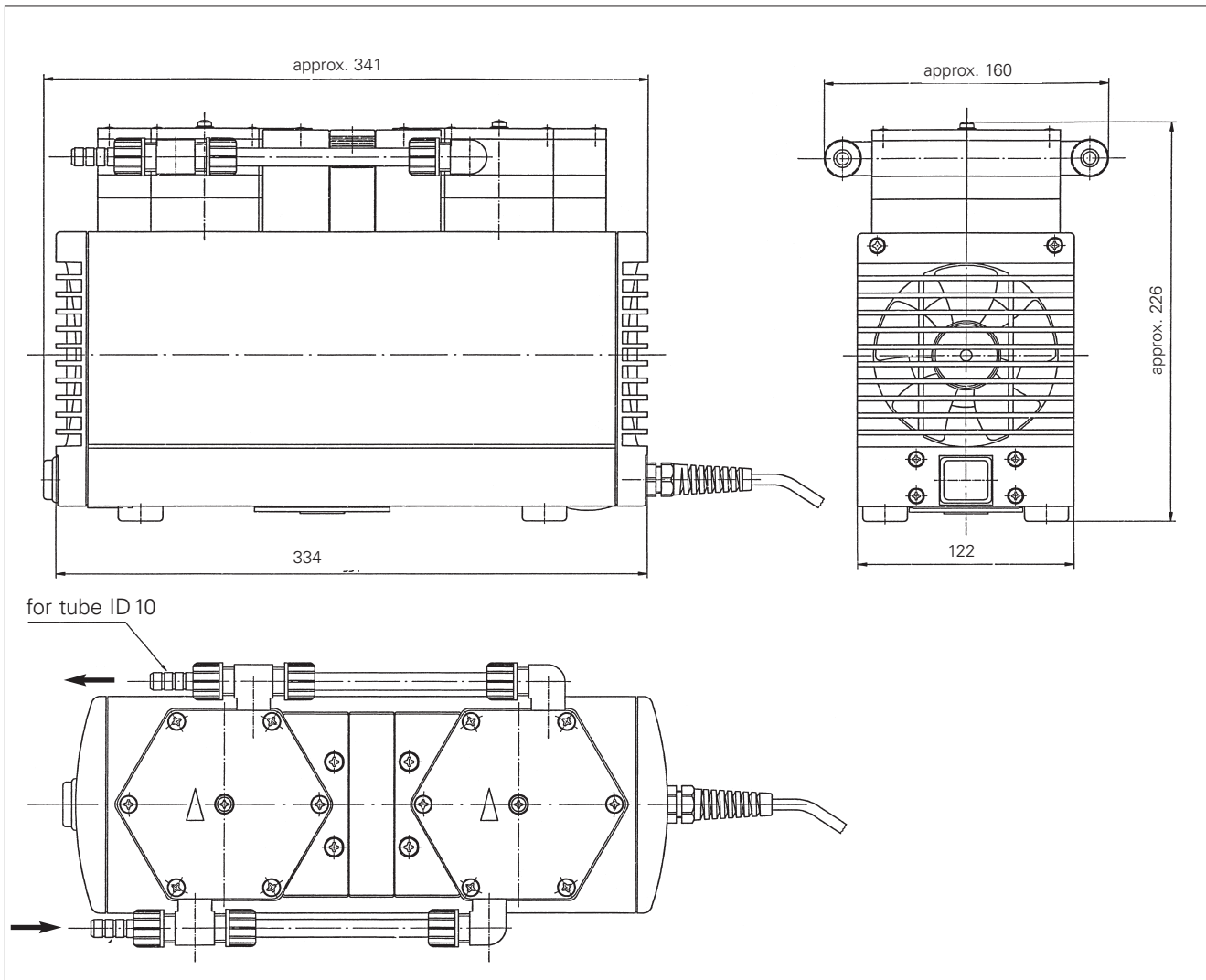
Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)





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Diaphragm Pumps + Systems



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KNF Neuberger, INC.



KNF Micro AG



KNF Neuberger S.A.



KNF FLODOS AG

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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) ¹⁾	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 ₁	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

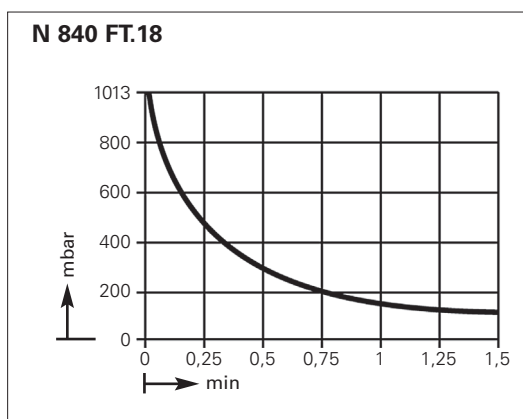
With thermal switch and power fuse

Motors with other voltages and frequencies on request.

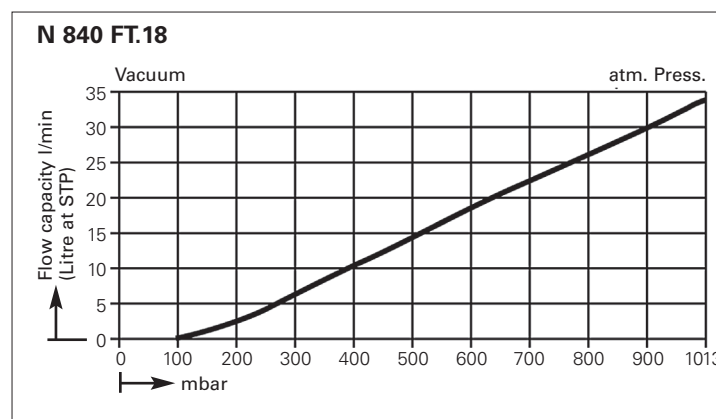
¹⁾ at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver

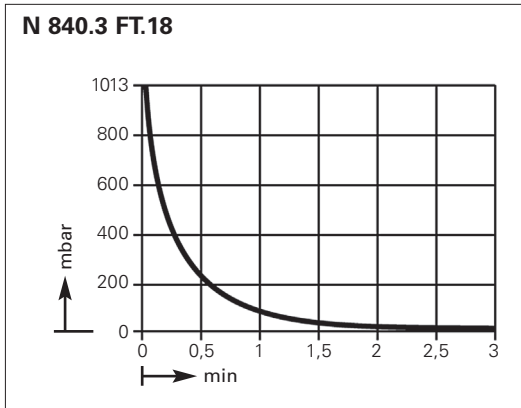


Performance characteristics

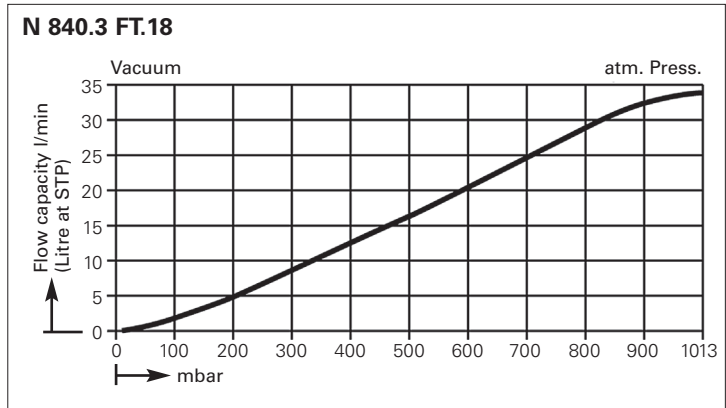




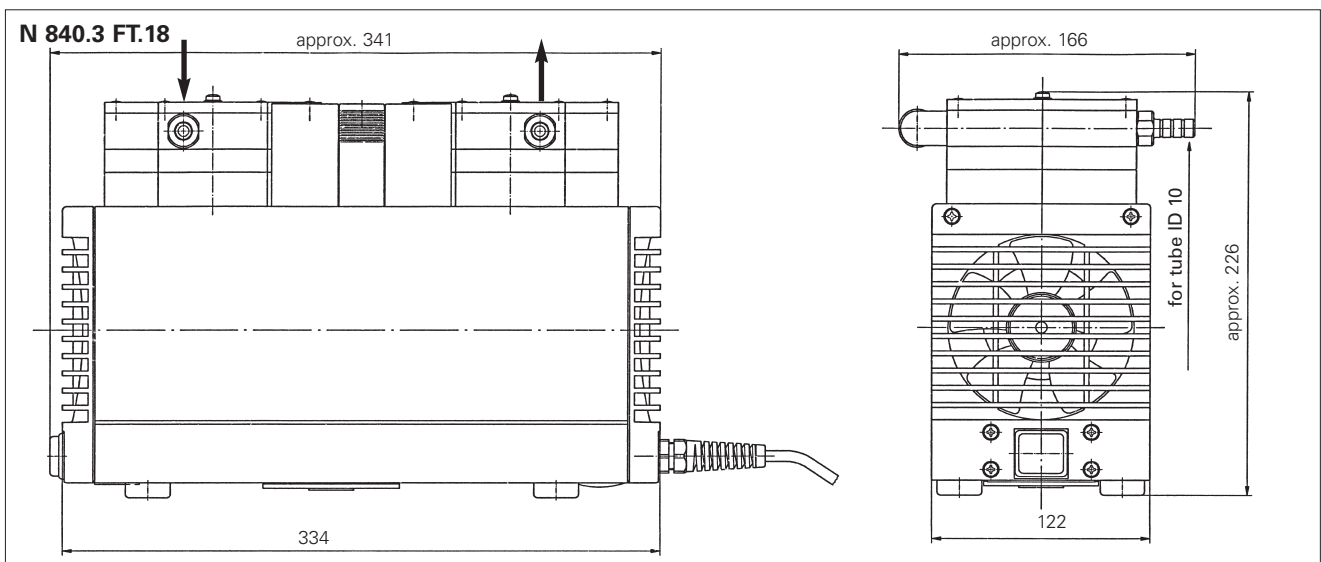
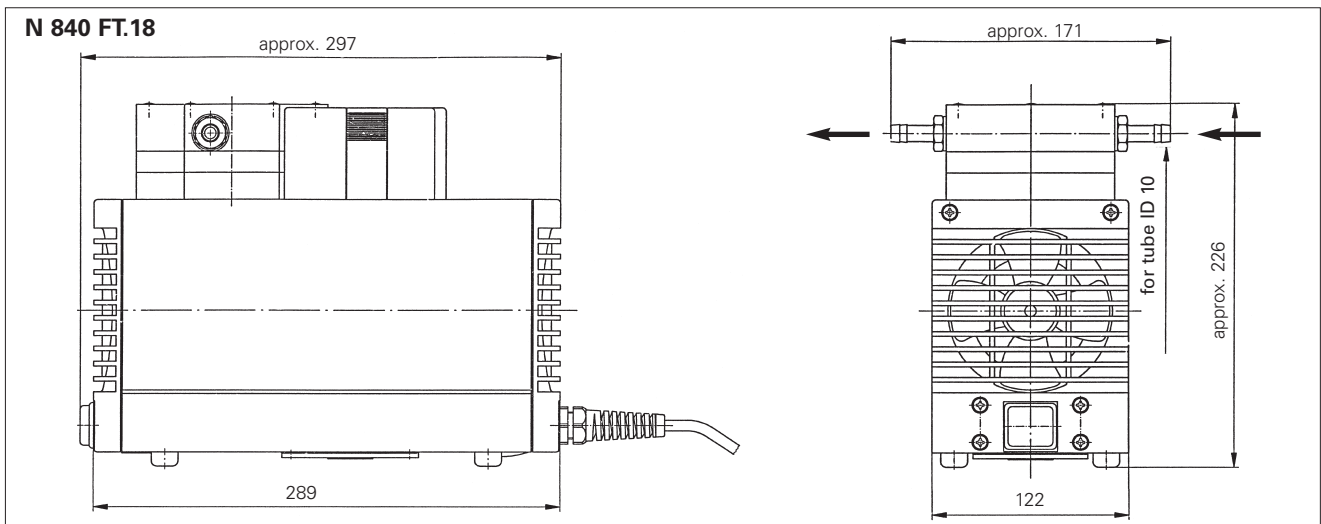
Pump down time for 10 l receiver



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



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Diaphragm Pumps + Systems



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KNF Neuberger, INC.



KNF Micro AG



KNF Neuberger S.A.



KNF FLODOS AG

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Diaphragm Pumps for Air, Gases and Vapours



LABOPORT® Chemically-resistant Diaphragm Vacuum Pump

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. 6×10^{-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) ¹⁾	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 ₁	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.

¹⁾ 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

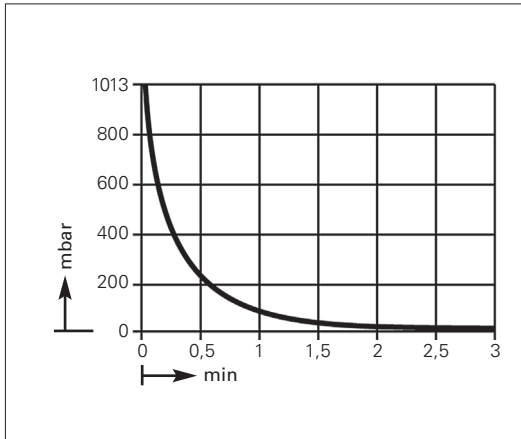
Description	Order No.
Spares kit	057359



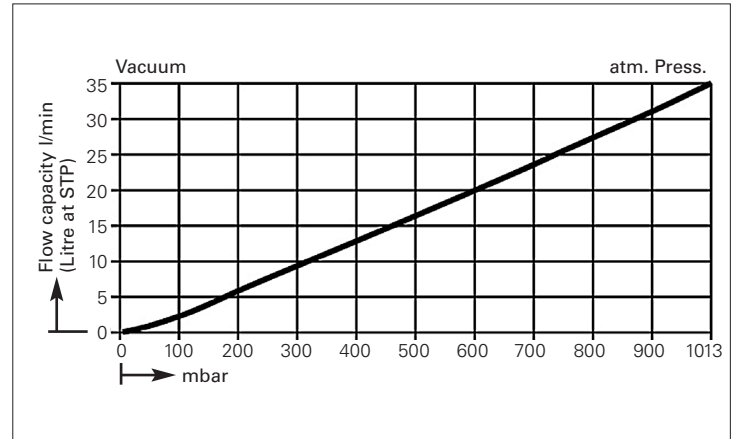
Diaphragm Pumps for Air, Gases and Vapours

Dimensions and performance characteristics

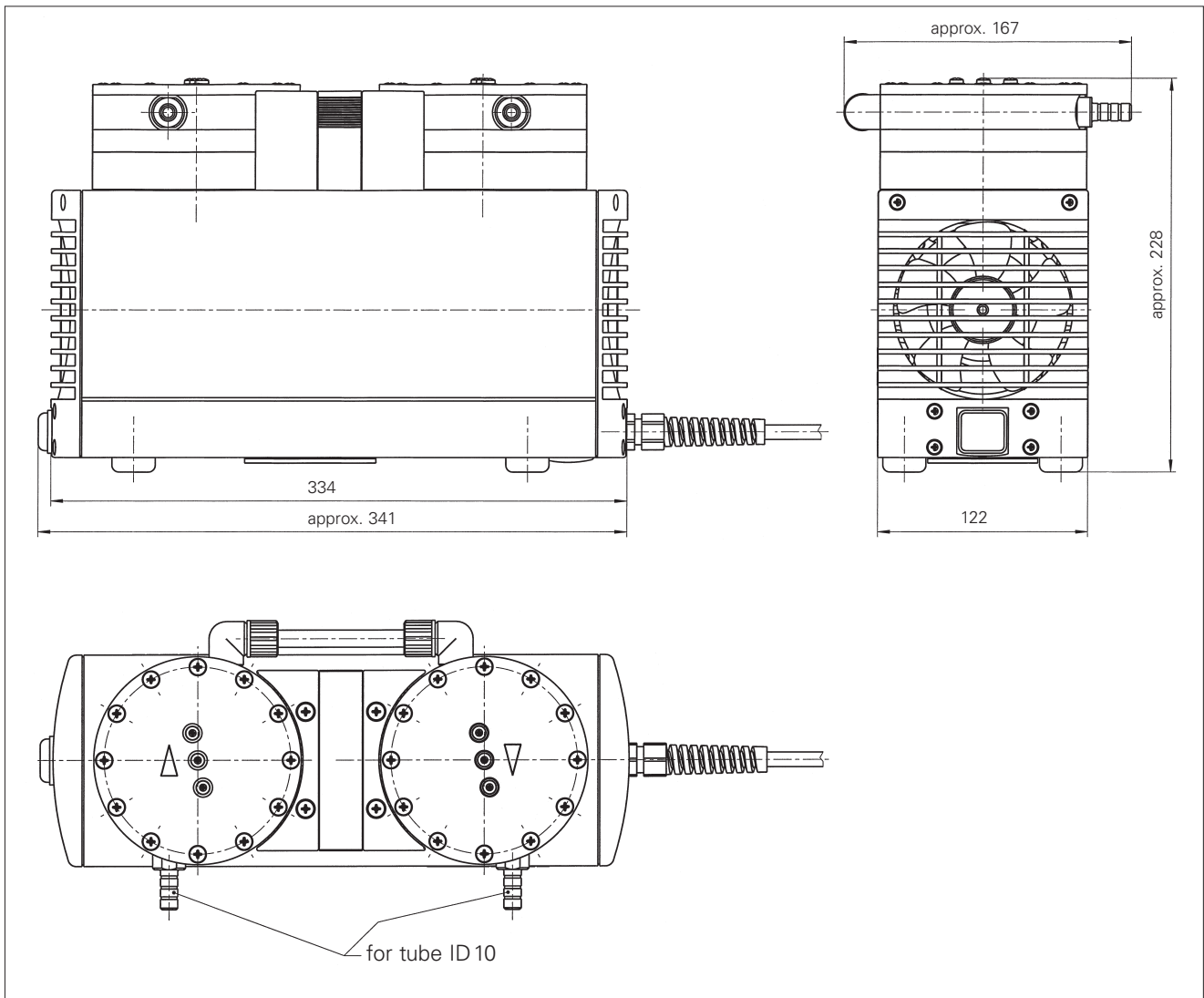
Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)





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