

DIAPHRAGM VACUUM PUMP LABOPORT® N 810.3 FT.18

DATA SHEET E 260



Technical features

- 100% oil-free transfer – thereby pure transferring, evacuation and compression of gases
- High level of vapor and condensate compatibility
- TFM™ PTFE pump head and PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX compliant according to ATEX II 2G IIB+H2 T3X internal atmosphere only
- Environmentally friendly
- High level of gas tightness
- Also available with an integrated gas ballast valve: N 810.3 FT.18 G

Technical data

Flow rate [m ³ /h] at atm. pressure	0.6
Flow rate [l/min] at atm. pressure	10
Ultimate vacuum [mbar abs.]	8.0 ≤ 30.0 with gas ballast valve in use
Operating pressure [bar]	1
Voltage [V]	230
Frequencies [Hz]	50
Motor protection	IP 44
Power P ₁ [W]	90
Operating current [A]	0.6
With thermal switch and power fuse	
Motors with other voltages and frequencies on request	

MATERIALS

Pump head	TFM™ PTFE
Diaphragm	PTFE-coated
Valves	FFPM

OTHER DATA

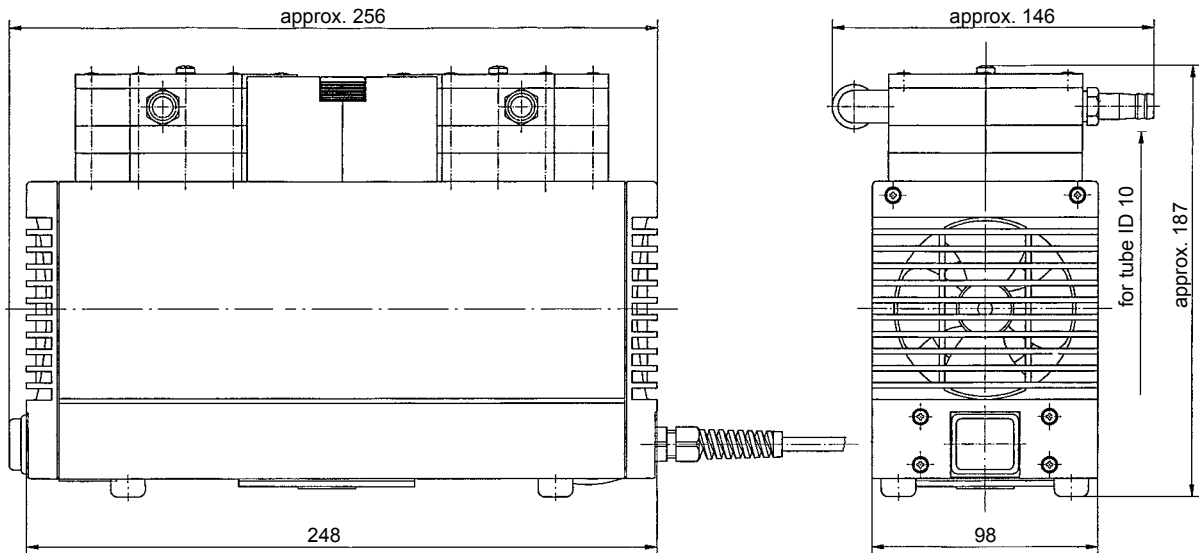
Weight [kg]	6.9
Hose connections	ID 10
Dimensions W x H x D [mm]	140 x 187 x 281
Permissible media and ambient temperature [°C]	+5 to +40

ACCESSORIES

	ID
Spares kit	057357

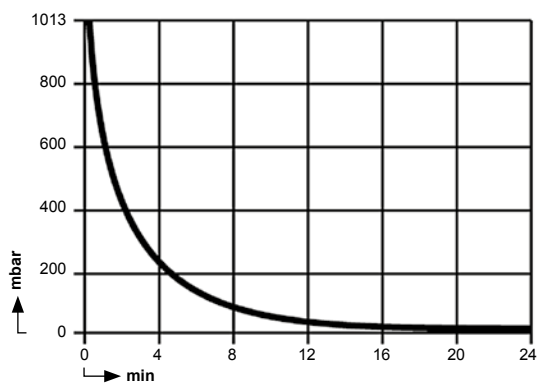
Dimensions

N 810.3 FT.18

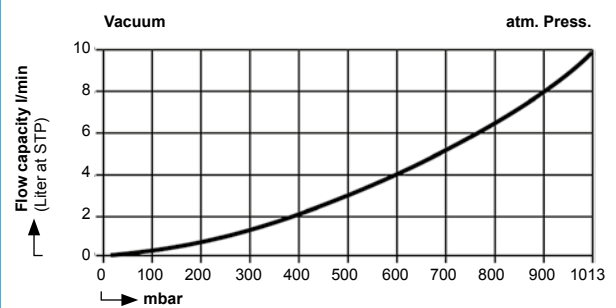


Performance characteristics

PUMP DOWN TIME FOR 10 LITER RECEIVER



FLOW CAPACITY



DIAPHRAGM VACUUM PUMP LABOPORT® N 820.3 FT.18

DATA SHEET E 262



Technical features

- 100% oil-free transfer – thereby pure transferring, evacuation and compression of gases
- High level of vapor and condensate compatibility
- TFM™ PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX compliant according to ATEX II 2G IIB+H2 T3X internal atmosphere only
- Environmentally friendly
- High level of gas tightness
- Also available with an integrated gas ballast valve: N 820.3 FT.18 G

Technical data

Flow rate [m³/h] at atm. pressure	1.2
Flow rate [l/min] at atm. pressure	20
Ultimate vacuum [mbar abs.]	8.0 ≤ 15.0 with gas ballast valve in use
Operating pressure [bar]	1
Voltage [V]	230
Frequencies [Hz]	50
Motor protection	IP 44
Power P ₁ [W]	120
Operating current [A]	0.7
With thermal switch and power fuse	
Motors with other voltages and frequencies on request	

MATERIALS

Pump head	TFM™ PTFE
Diaphragm	PTFE-coated
Valves	FFPM

OTHER DATA

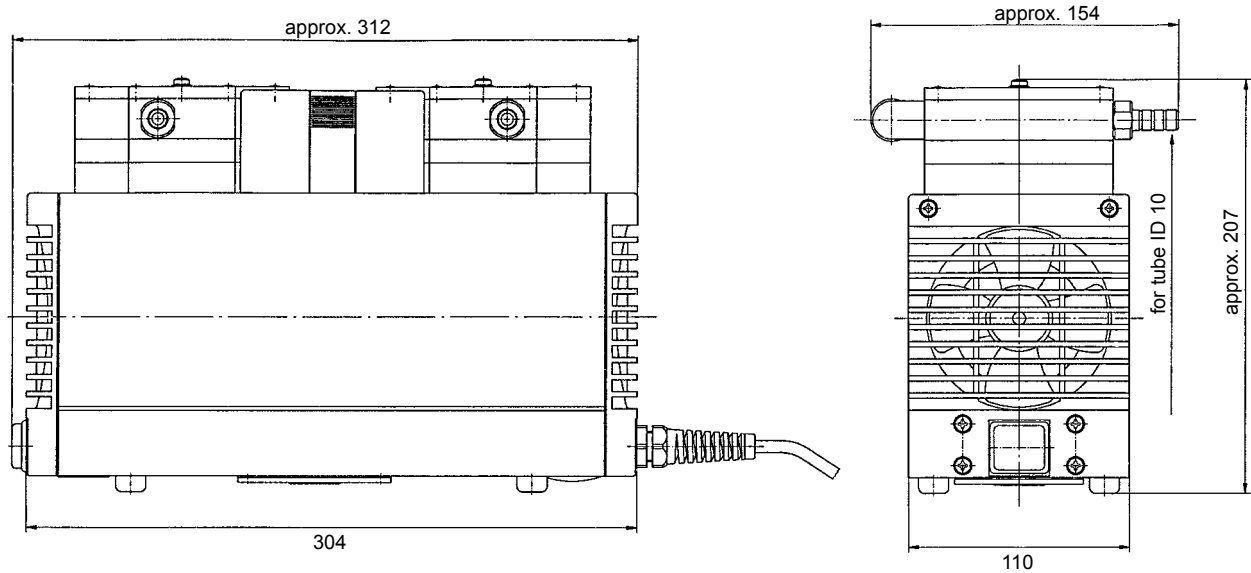
Weight [kg]	9.3
Hose connections	ID 10
Dimensions W x H x D [mm]	154 x 207 x 312
Permissible media and ambient temperature [°C]	+5 to +40

ACCESSORIES

	ID
Spares kit	057358

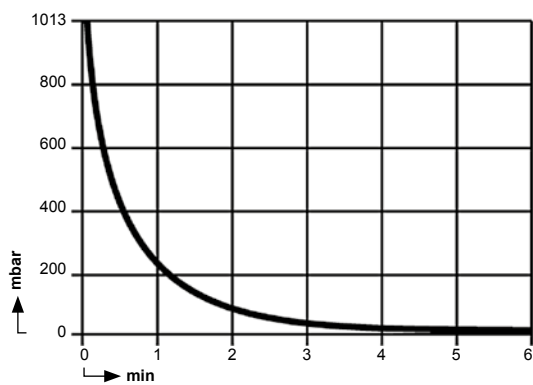
Dimensions

N 820.3 FT.18

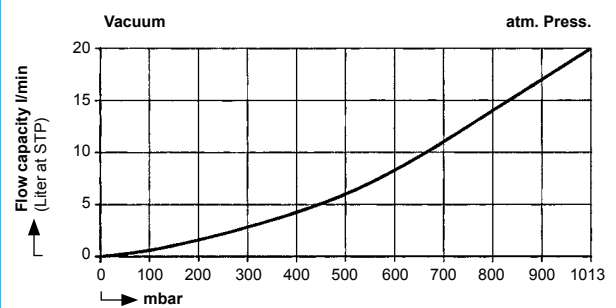


Performance characteristics

PUMP DOWN TIME FOR 10 LITER RECEIVER



FLOW CAPACITY



DIAPHRAGM VACUUM PUMP LABOPORT® N 840.3 FT.18

DATA SHEET E 264



Technical features

- 100% oil-free transfer – thereby pure transferring, evacuation and compression of gases
- High level of vapor and condensate compatibility
- TFM™ PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX compliant according to ATEX II 2G IIB+H2 T3X internal atmosphere only
- Environmentally friendly
- High level of gas tightness
- Also available with an integrated gas ballast valve: N 840.3 FT.18 G

Technical data

Flow rate [m ³ /h] at atm. pressure	2.04
Flow rate [l/min] at atm. pressure	34
Ultimate vacuum [mbar abs.]	8.0 ≤ 12.0 with gas ballast valve in use
Operating pressure [bar]	1
Voltage [V]	230
Frequencies [Hz]	50
Motor protection	IP 44
Power P ₁ [W]	245
Operating current [A]	1.5
With thermal switch and power fuse	
Motors with other voltages and frequencies on request	

MATERIALS

Pump head	TFM™ PTFE
Diaphragm	PTFE-coated
Valves	FFPM

OTHER DATA

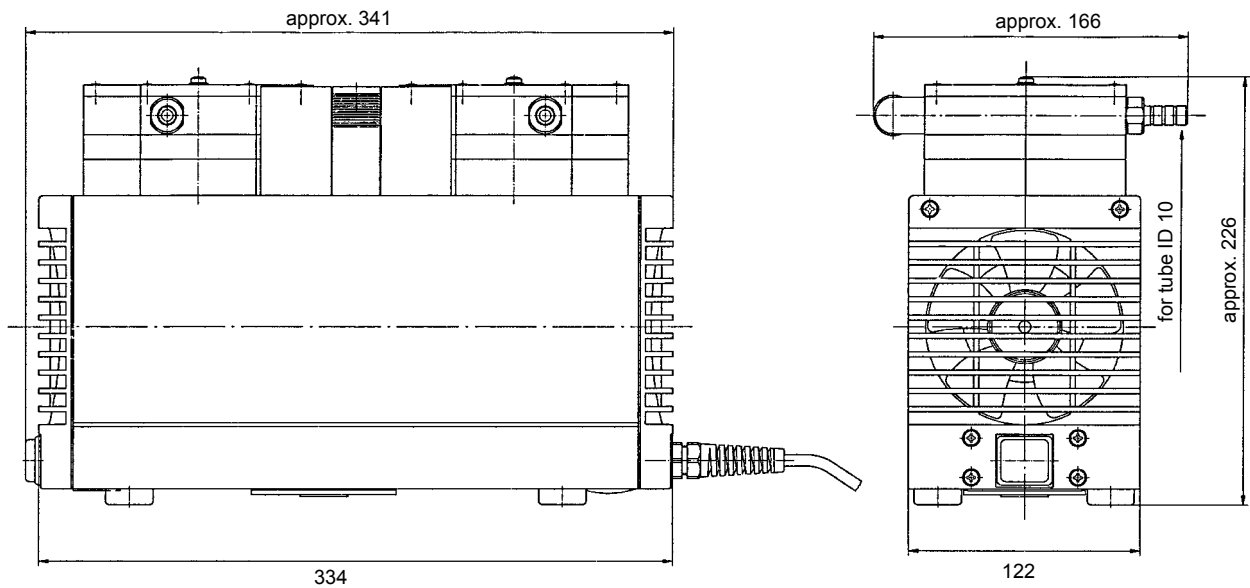
Weight [kg]	12.6
Hose connections	ID 10
Dimensions W x H x D [mm]	166 x 226 x 341
Permissible media and ambient temperature [°C]	+5 to +40

ACCESSORIES

	ID
Spares kit	057359

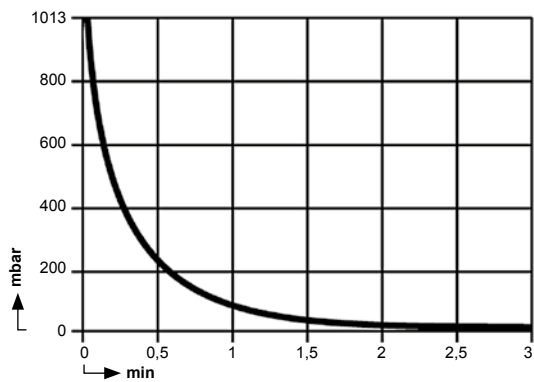
Dimensions

N 840.3 FT.18

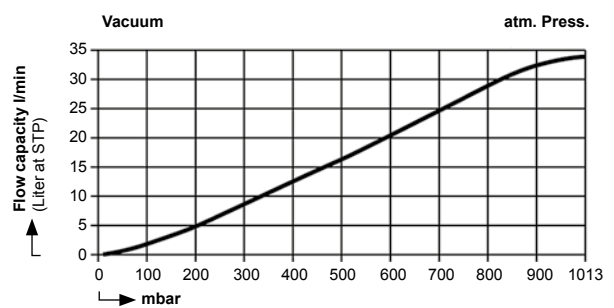


Performance characteristics

PUMP DOWN TIME FOR 10 LITER RECEIVER



FLOW CAPACITY





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

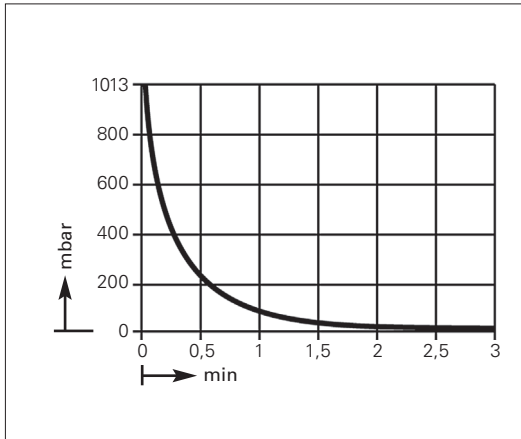
Description	Order No.
Spares kit	057359



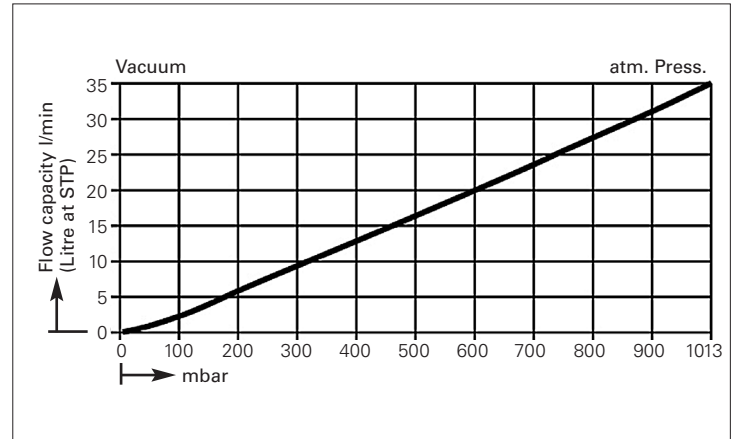
Diaphragm Pumps for Air, Gases and Vapours

Dimensions and performance characteristics

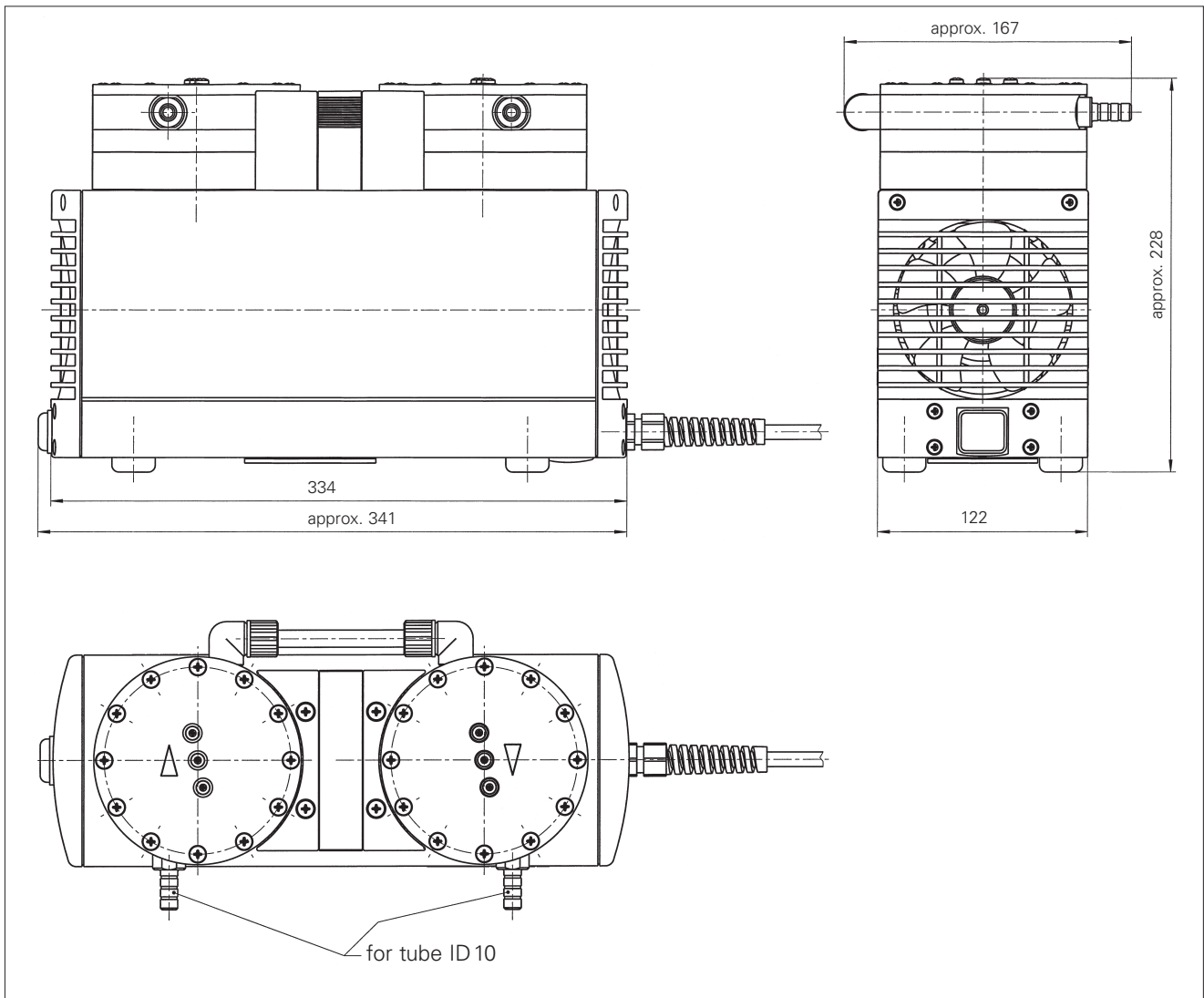
Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)



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