

FEATURES

- > Oil-less
- > Long life
- > Low power consumption
- > Worldwide service network
- > Low sound level/vibration
- > Protection class IP54 (AP/LP/LW-Series)
- > CE approved (230V 50Hz models with housing and cord with plug)
- > Integrated intake filter (AP/LP/LW-Series)
- > RoHS compliant

TYPICAL APPLICATIONS

- > Sewage aeration
- > Aquarium aeration
- > Gas/particle analysis
- > Air mattress
- > Compression therapy
- > Battery aeration
- > Grey water treatment
- > Process water recycling

BASE MODEL

AP
LP
LW
YP
YP-DU



Linear

Linear Diaphragm Pumps

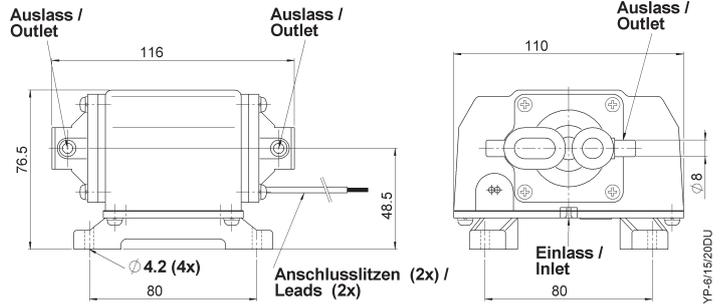
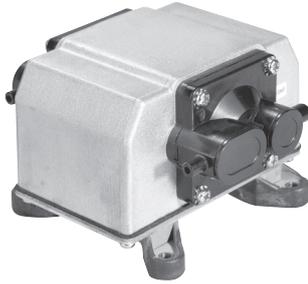
PRODUCT OVERVIEW

Model	Pressure	Vacuum	without housing		Flow at rated pressure										Page			
			without housing	with housing	0	50	100	150	200	250	300	400(l/min)						
 <p>YP-15DU</p>	•			•													15 l/min @ 100 mbar	3
 <p>YP-40VC YP-70VC</p>	• •	• •		• •													49 l/min @ 120 (-120) mbar 73 (64) l/min @ 120 (-180) mbar	3.4
 <p>AP-40 AP-50G AP-60G AP-80H AP-100 AP-120</p>	• • • • • •			• • • • • •													45 l/min @ 120 mbar 47 l/min @ 200 mbar 60 l/min @ 200 mbar 82 l/min @ 200 mbar 108 l/min @ 200 mbar 125 l/min @ 200 mbar	6.7
 <p>LP-150HN LP-200HN</p>	• •			• •													150 l/min @ 200 mbar 200 l/min @ 200 mbar	8
 <p>LW-240 LW-300 LW-400</p>	• • •			• • •													240 l/min @ 200 mbar 350 l/min @ 200 mbar 425 l/min @ 200 mbar	9

Linear Diaphragm Pumps YP-15DU

Flow at rated pressure

15 l/min at 100 mbar



PNEUMATIC DATA

Description	YP-15DU
Part number	52500016
Flow at rated pressure	15 l/min
Rated pressure	100 mbar
Operating range	20 to 200 mbar

ELECTRICAL DATA

Motor type	Linear drive
Voltage	230V 50Hz
Power consumption at rated pressure	13 W

GENERAL DATA

Ambient temperature	-10 to 40 °C
Weight	1.2 kg
Outlet diameter	2 x 8 mm
Average sound level	38 dB (A)

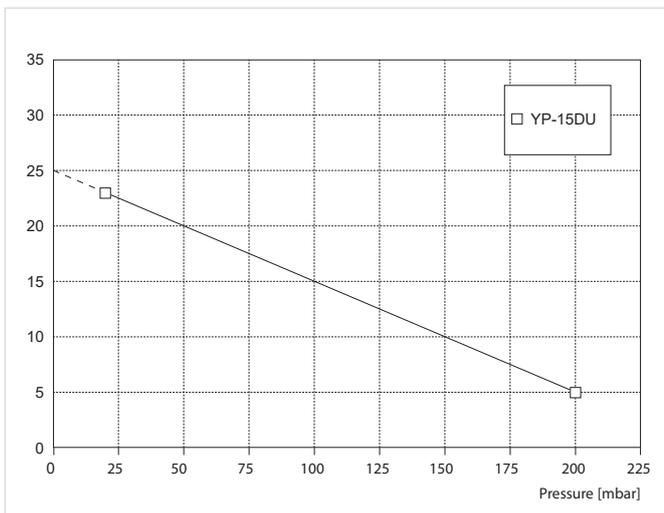
SERVICE PARTS

Chamber block set ¹⁾	700017
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All listed values are measured at standard atmospheric conditions.

1) Denotes that service part is only available for trained service personnel.

FLOW CURVES



Note: Operation outside specified operating range is not recommended.
All listed values are measured at standard atmospheric conditions.

SUPPLIED AS STANDARD

- 2 x Leads (30 cm) for power supply
- 1 x Lead (10 cm) for earth/ground

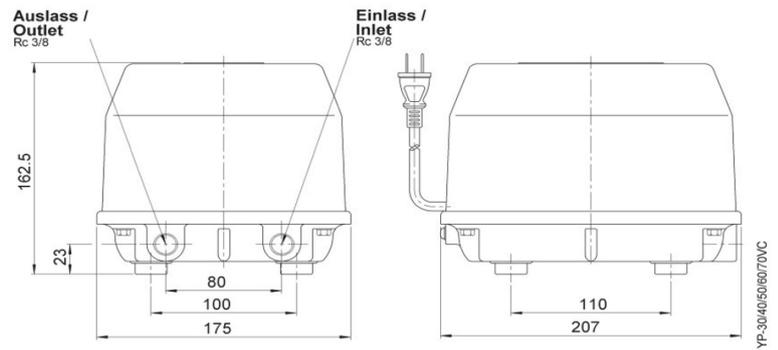
SERVICE PARTS

- Chamber block set¹⁾ consists of:
- 2 x Pump head with valves
 - 2 x Diaphragm assembly
 - 2 x Diaphragm nut
 - 2 x Diaphragm washer

5250... Stock programme

Linear Diaphragm Pump YP-40VC

Flow at rated pressure 49 l/min at 120 mbar



PNEUMATIC DATA

Description	YP-40VC
Part number	52500402
Flow at rated pressure	49 l/min
Rated pressure	±120 mbar
Operating range	-200 to 200 mbar

ELECTRICAL DATA

Motor type	Linear drive
Nominal Voltage	230V 50Hz
Consumption at rated pressure	38 W

GENERAL DATA

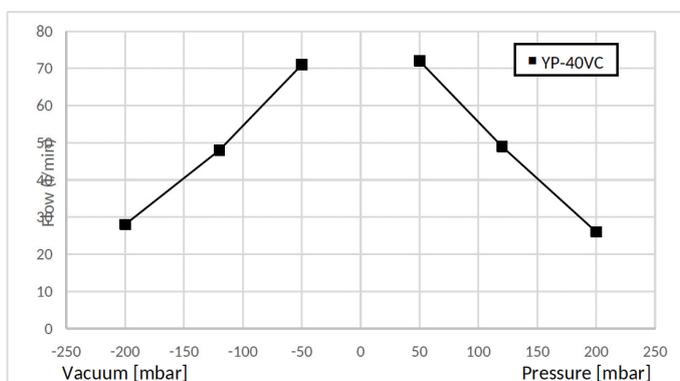
Ambient temperature	-10 to 40°C
Weight	5.3 kg
Inlet / Outlet diameter	Rc 3/8
Average sound level	50 dB(A)

SERVICE PARTS

Chamber block set*	700447
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All listed values are measured at standard atmospheric conditions.
 *Denotes that service part is only available for trained service personnel.
 Please refer to the operation manual for additional information.

FLOW CURVES



Note: Operation outside specified operating range is not recommended.
 All listed values are measured at standard atmospheric conditions

SUPPLIED AS STANDARD

Cable/Euro-plug

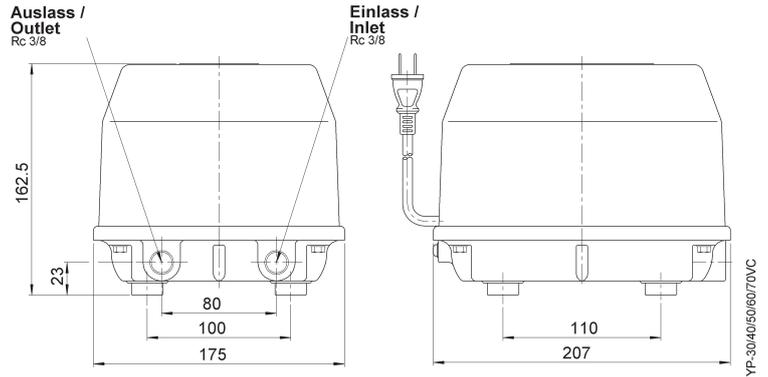
SERVICE PARTS

Chamber block set consists of:
 2 x Pump head with valves
 2 x Diaphragm assembly
 2 x Diaphragm nut
 2 x Diaphragm washer

Linear Diaphragm Pump YP-70VC

Flow at rated pressure

73 l/min at 120 mbar



PNEUMATIC DATA

Description	YP-70VC
Part number	52500073
Flow at rated pressure	73 l/min
Rated pressure	±120 mbar
Operating range	-200 to 200 mbar

ELECTRICAL DATA

Motor type	Linear drive
Voltage	230V 50Hz
Power consumption at rated pressure	85 W

GENERAL DATA

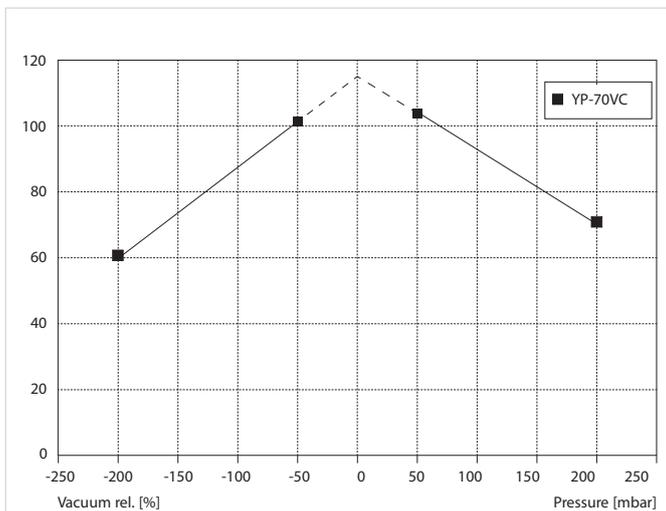
Ambient temperature	-10 to 40 °C
Weight	6.2 kg
Inlet /Outlet diameter	Rc 3/8
Average sound level	48 dB (A)

SERVICE PARTS

Chamber block set ¹⁾	700038
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All listed values are measured at standard atmospheric conditions.
 1) Denotes that service part is only available for trained service personnel.
 Please refer to the operation manual for additional information.

FLOW CURVES



SUPPLIED AS STANDARD

Cable/Euro-plug

SERVICE PARTS

Chamber block set¹⁾ consists of:
 2 x Pump head with valves
 2 x Diaphragm assembly
 2 x Diaphragm nut
 2 x Diaphragm washer

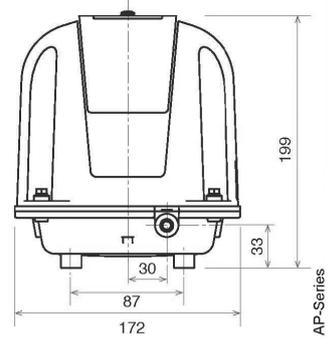
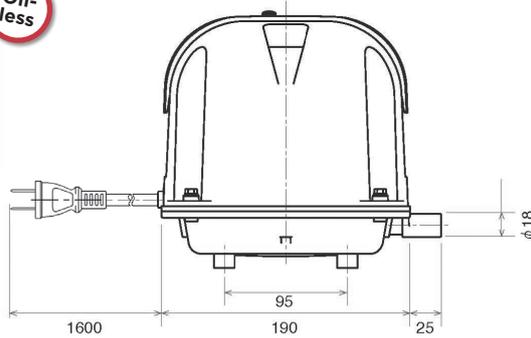
5250... Stock programme

Note: Operation outside specified operating range is not recommended.
 All listed values are measured at standard atmospheric conditions.

Linear Diaphragm Pump AP-40

Flow at rated pressure

45 l/min at 120 mbar



AP-Series

PNEUMATIC DATA

Description	AP-40
Part number	52500453
Flow at rated pressure	45 l/min
Rated pressure	120 mbar
Operating range	50 to 200 mbar

ELECTRICAL DATA

Motor type	Linear drive
Nominal Voltage	230V 50Hz
Consumption at rated pressure	0.34 A / 29 W
Efficiency at rated pressure	0.64 W/l

GENERAL DATA

Ambient temperature	-10 to 40 °C
Weight	4.3 kg
Outlet diameter	18 mm
Average sound level	34 dB (A)

SERVICE PARTS

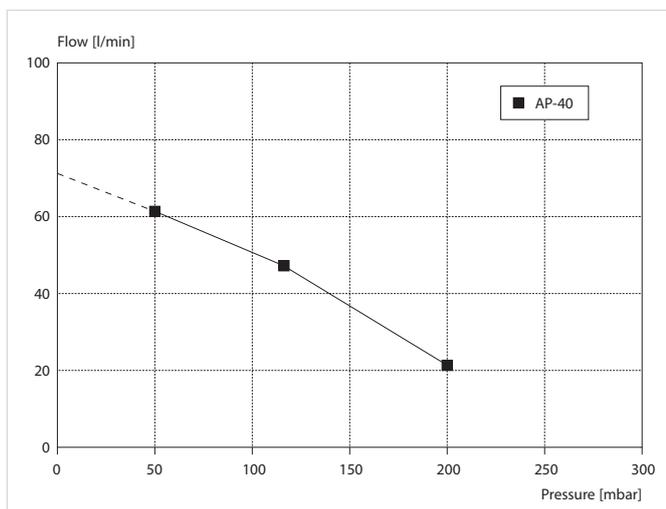
Chamber block set ¹⁾	700580
Air filter and gasket kit	700582Y
Air filter kit	700583Y

All listed values are measured at standard atmospheric conditions.

1) Denotes that service part is only available for trained service personnel.

Please refer to the operation manual for additional information.

FLOW CURVES



Note: Operation outside specified operating range is not recommended.
All listed values are measured at standard atmospheric conditions

SERVICE PARTS

Chamber block set¹⁾ consists of:
 2 x Pump head with valves
 2 x Diaphragm assembly
 2 x Diaphragm gasket
 2 x Nut
 2 x Washer

Air filter and gasket kit consists of:
 1 x Air cleaner element
 1 x Air cleaner gasket
 1 x Cover plate gasket
 1 x Noise absorbing net
 1 x Tank gasket

Air filter kit consists of:
 5 x Air cleaner element
 5 x Air cleaner gasket

SUPPLIED AS STANDARD

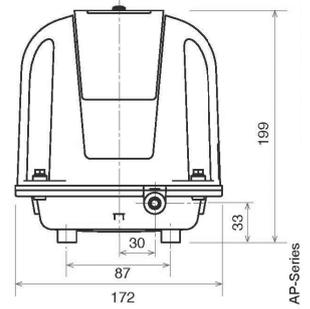
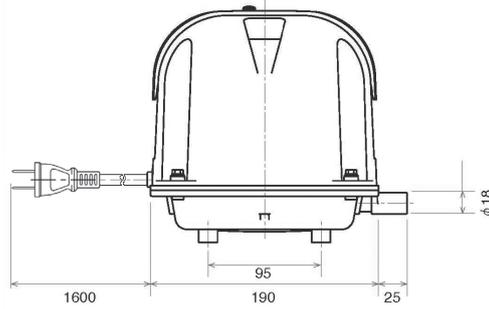
Cable/Euro-plug
 Air connector consists of (part number 700073)
 1 x Outlet hose, angled, 170/50 mm
 2 x Hose clamp

5250... Stock programme

Linear Diaphragm Pumps AP-50G, AP-60G, AP-80H, AP-100, AP-120

Flow at rated pressure

47 to 125 l/min at 200 mbar



AP-Series

PNEUMATIC DATA

Description	AP-50G	AP-60G	AP-80H	AP-100	AP-120
Part number	52500001	52500002	52500480	52500472	52500473
Flow at rated pressure	47 l/min	60 l/min	82 l/min	108 l/min	125 l/min
Rated pressure	200 mbar				
Operating range	100 to 300 mbar	100 to 300 mbar	100 to 300 mbar	140 to 300 mbar	160 to 300 mbar

ELECTRICAL DATA

Motor type	Linear drive	Linear drive	Linear drive	Linear drive	Linear drive
Nominal Voltage	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz
Consumption at rated pressure	0.29 A / 31 W	0.39 A / 41 W	0.8 A / 73 W	1.06 A / 99 W	1.45 A / 128 W
Efficiency at rated pressure	0.66 W/l	0.68 W/l	0.89 W/l	0.92 W/l	1.02 W/l

GENERAL DATA

Ambient temperature	-10 to 40 °C				
Weight	5.8 kg	5.8 kg	6.1 kg	6.1 kg	6.1 kg
Outlet diameter	18 mm				
Average sound level	34 dB (A)	34 dB (A)	35 dB (A)	37 dB (A)	38 dB (A)

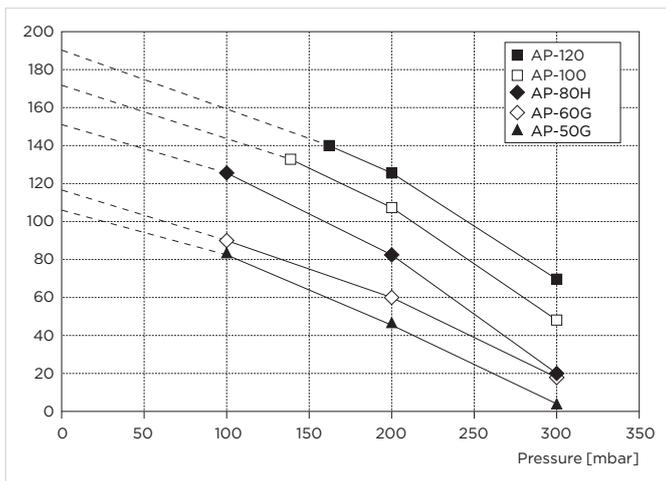
SERVICE PARTS

Air filter and gasket kit	700582Y	700582Y	700582Y	700582Y	700582Y
Air filter kit	700583Y	700583Y	700583Y	700583Y	700583Y
*Maintenance Rebuild Kit	700608	700608	700579	700579	700579

All listed values are measured at standard atmospheric conditions.

*Maintenance Rebuild Kit denotes part is only available for trained service personnel. Contact your local sales representative.

FLOW CURVES



Note: Operation outside specified operating range is not recommended. All listed values are measured at standard atmospheric conditions

SERVICE PARTS

*Maintenance rebuild kit consists of:

- 2 x Pump head with valves
- 2 x Diaphragm assembly
- 2 x Diaphragm gasket
- 2 x Diaphragm nut
- 2 x Diaphragm washer
- 1 x Air cleaner element
- 1 x Air cleaner gasket
- 1 x Cover plate gasket

Air filter and gasket kit consists of:

- 1 x Air cleaner element
- 1 x Air cleaner gasket
- 1 x Cover plate gasket
- 1 x Noise absorbing net
- 1 x Tank gasket

Air filter kit consists of:

- 5 x Air cleaner element
- 5 x Air cleaner gasket

SUPPLIED AS STANDARD

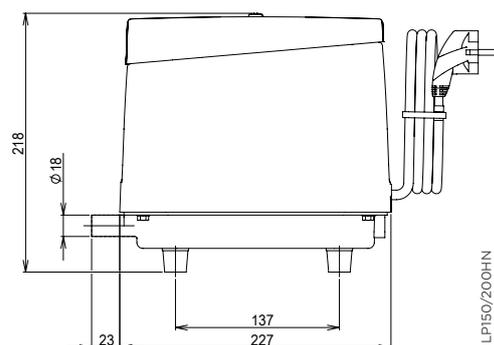
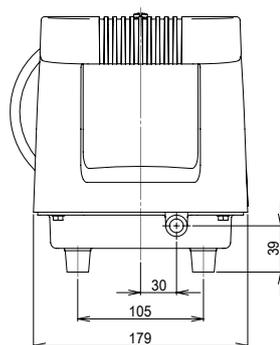
Cable/Euro-plug
Air connector, consists of:
(part number 700073)
1 x Angled outlet hose 170/50mm
2 x Hose clamp

5250... Stock program

Linear Diaphragm Pumps LP-150HN, LP-200HN

Flow at rated pressure

150 to 200 l/min at 200 mbar



LP150/200HN

PNEUMATIC DATA

Description	LP-150HN	LP-200HN
Part number	52500151	52500202
Flow at rated pressure	150 l/min	200 l/min
Rated pressure	200 mbar	200 mbar
Operating range	100 to 300 mbar	100 to 300 mbar

ELECTRICAL DATA

Motor type	Linear drive	Linear drive
Nominal Voltage	230V 50Hz	230V 50Hz
Consumption at rated pressure	0.85 A/130 W	1.15 A/200 W

GENERAL DATA

Ambient temperature	-10 to 40 °C	-10 to 40 °C
Weight	8.6 kg	8.6 kg
Outlet diameter	18 mm	18 mm
Average sound level	43 dB (A)	44 dB (A)

SERVICE PARTS

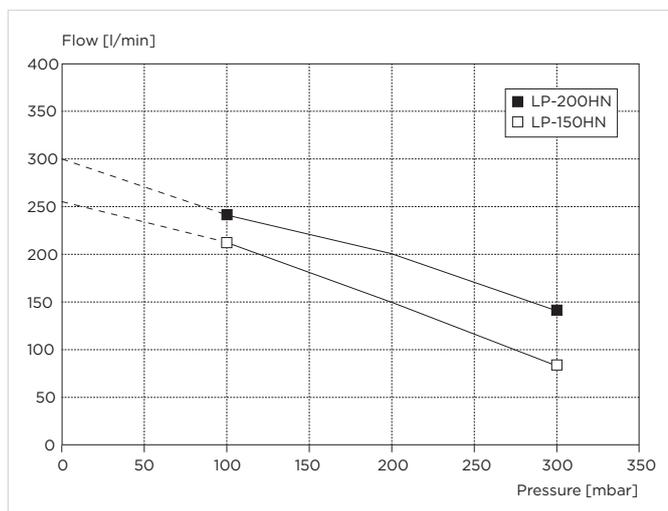
Maintenance rebuild kit ¹⁾	700605	700605
Air filter and gasket kit	700550	700550
Air filter kit	700551	700551

All listed values are measured at standard atmospheric conditions.

1) Denotes that service part is only available for trained service personnel.

Please refer to the operation manual for additional information.

FLOW CURVES



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All listed values are measured at standard atmospheric conditions

SERVICE PARTS

Maintenance rebuild kit¹⁾ consists of:

- 2 x Pump head with valves
- 2 x Diaphragm assembly
- 2 x Diaphragm nut
- 2 x Diaphragm washer
- 1 x Air cleaner element
- 1 x Air cleaner gasket
- 1 x Cover plate gasket

Air filter and gasket kit consists of: 1

- x Air cleaner element
- 1 x Air cleaner gasket
- 1 x Cover plate gasket
- 1 x Noise absorbing net
- 1 x Tank gasket
- 2 x L-Hose
- 2 x L-Clamp

Air filter kit consists of:

- 5 x Air cleaner element
- 5 x Air cleaner gasket

SUPPLIED AS STANDARD

- Cable/Euro-plug
- Air connector (part number 700073) consists of:
- 1 x Outlet hose, angled, 170/50 mm
- 2 x Hose clamp

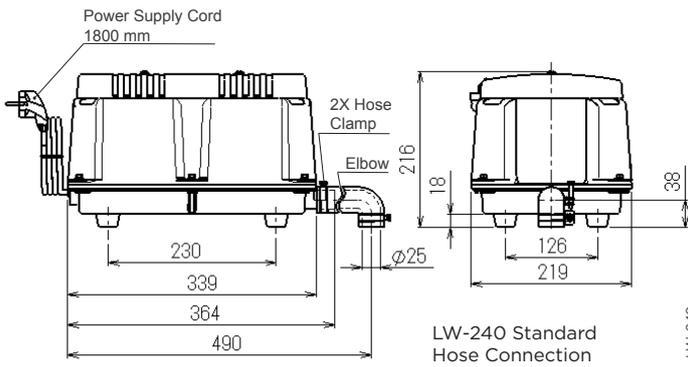
5250... Stock program

Linear Diaphragm Pumps LW-240, LW-300, LW-400

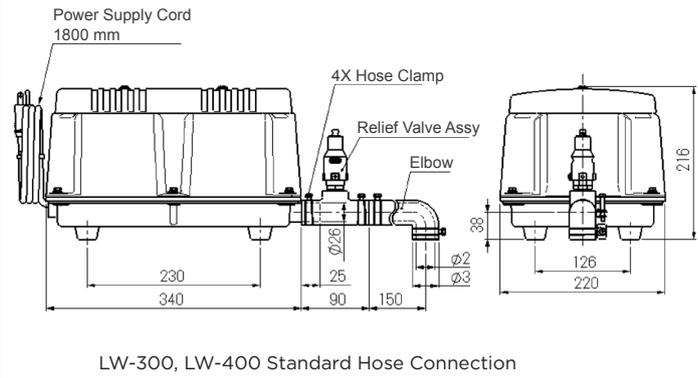


Flow at rated pressure

425 l/min at 200 mbar



LW-240



LW-300/400

PNEUMATIC DATA

Description	LW-240	LW-300	LW-400
Part number	52500410	52500411	52500414
Flow at rated pressure	240 l/min	350 l/min	425 l/min
Rated pressure	200 mbar	200 mbar	200 mbar
Operating range	100 to 250 mbar	100 to 250 mbar	100 to 250 mbar

ELECTRICAL DATA

Motor type	Linear drive	Linear drive	Linear drive
Nominal Voltage	230V 50Hz	230V 50Hz	230V 50Hz
Consumption at rated pressure	1.8 A/250 W	1.6 A/280 W	2.4 A/400 W

GENERAL DATA

Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	14.4 kg	16.0 kg	16.0 kg
Outlet diameter	26 mm	26 mm	26 mm
Average sound level	49 db (A)	50 db (A)	51 db (A)

SERVICE PARTS

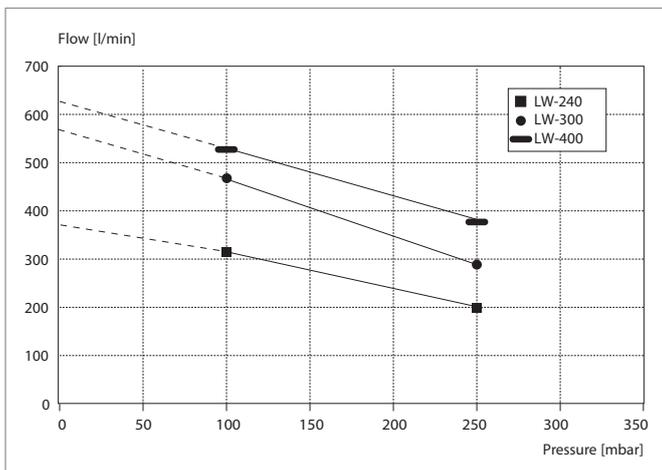
Maintenance rebuild kit ¹⁾	700607	700606	700606
Air filter and gasket kit	700502Y	700598	700598
Air filter kit	700510	700510	700510

All listed values are measured at standard atmospheric conditions.

Please refer to the operation manual for additional information.

1) Denotes that part is only available for trained service personnel.

FLOW CURVES



Note: Operation outside specified operating range is not recommended.
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SERVICE PARTS

Maintenance rebuild kit¹⁾ consists of:
 4 x Pump head with valves
 4 x Diaphragm assembly
 4 x Diaphragm nut
 4 x Diaphragm washer
 1 x Air cleaner element
 1 x Air cleaner gasket

Air filter and gasket kit consists of:
 1 x Air cleaner element
 1 x Air cleaner gasket
 1 x Noise absorbing net
 1 x Tank gasket
 1 x Cover gasket
 4 x L-Hose

Air filter kit consists of:
 5 x Air cleaner element
 5 x Air cleaner gasket

5250... Stock programme

SUPPLIED AS STANDARD

Cable/Euro with plug
 Air connector consisting of LW-240 (700513)
 1 x Outlet hose, angled, 170/50 mm
 2 x Hose clamp
 LW-300 & LW-400 (P/N 700600)
 1 x Outlet hose, angled, 170/50 mm
 4 x Hose clamp
 1 x Relief valve assembly
 1 x Hose connector

Accessory Available:
 Air connector, straight type (P/N 700514) consists of
 1 x Outlet hose, straight, 150 mm
 2 x Hose clamp

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