

## 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

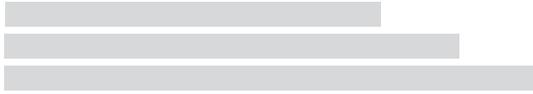
AP  
LP  
LW  
YP  
YP-DU



Linear

# Linear Diaphragm Pumps

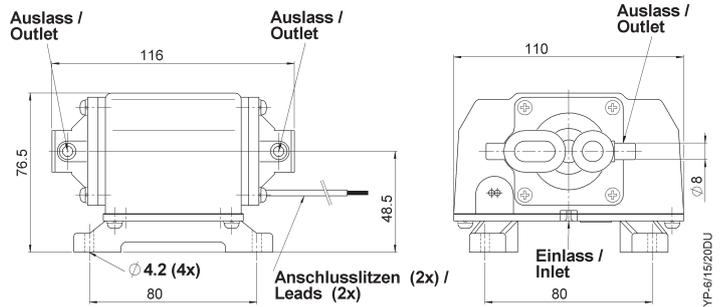
## PRODUCT OVERVIEW

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>	•		•		 <p>15 l/min @ 100 mbar</p>										3
 <p>YP-70VC</p>	•	•	•		 <p>73 (64) l/min @ 120 (-180) mbar</p>										4
 <p>AP-40 AP-60N AP-60/80 AP-80H AP-100 AP-120</p>	• • • • • •			•	 <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</p>										5.6
 <p>LP-150HN LP-200HN</p>	• •			•	 <p>150 l/min @ 200 mbar 200 l/min @ 200 mbar</p>										7
 <p>LW-240 LW-300 LW-400</p>	• • •			•	 <p>240 l/min @ 200 mbar 350 l/min @ 200 mbar 425 l/min @ 200 mbar</p>										8

# Linear Diaphragm Pumps YP-15DU

Flow at rated pressure

15 l/min at 100 mbar



## PNEUMATIC DATA

Description	YP-15DU
Part number	<b>52500016</b>
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

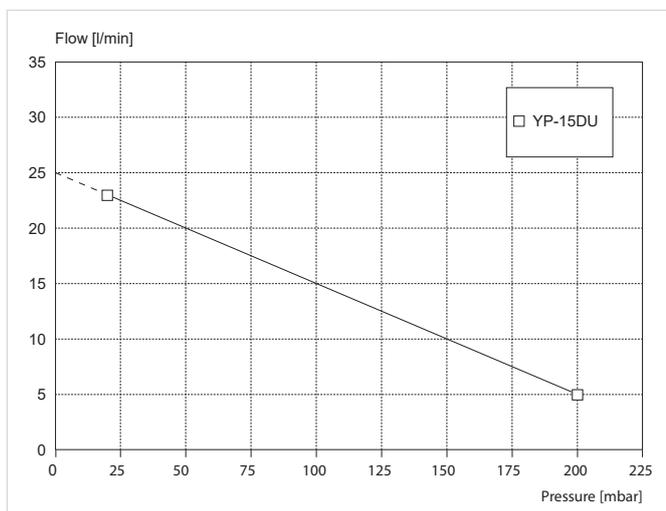
Chamber block set <sup>1)</sup>	700017
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All listed values are measured at standard atmospheric conditions.

If 230V 60Hz is required, please consult factory.

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

## FLOW CURVES



## SUPPLIED AS STANDARD

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

## SERVICE PARTS

- Chamber block set<sup>1)</sup> consists of:
- 2 x Pump head with valves
  - 2 x Diaphragm assembly
  - 2 x Diaphragm nut
  - 2 x Diaphragm washer

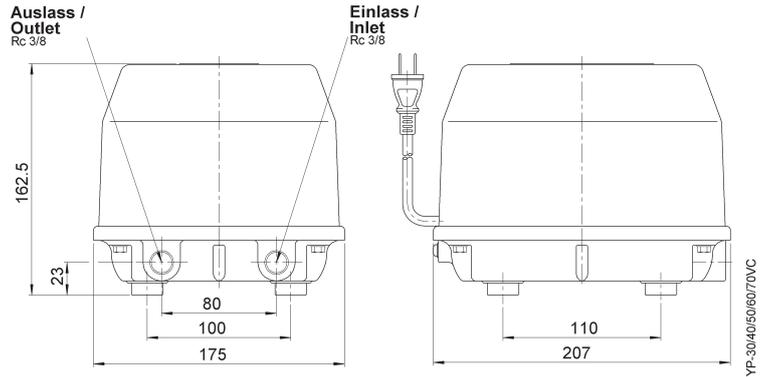
**5250...** Stock programme

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

# Linear Diaphragm Pump YP-70VC

Flow at rated pressure

73 l/min at 120 mbar



## PNEUMATIC DATA

Description	YP-70VC
Part number	<b>52500073</b>
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)

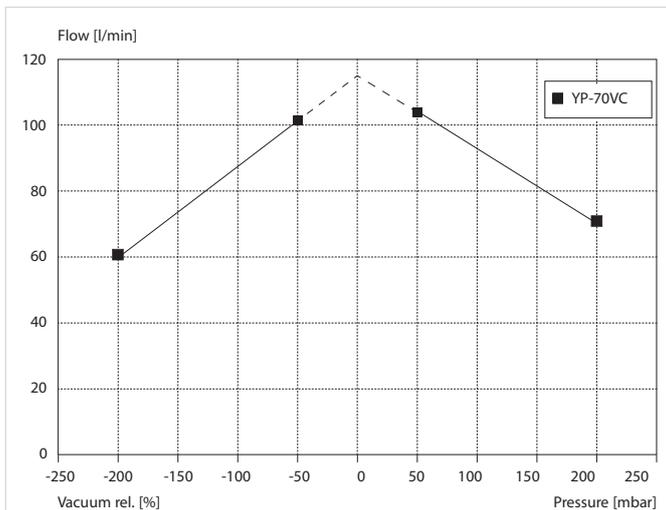
## SERVICE PARTS

Chamber block set <sup>1)</sup>	<b>700038</b>
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All listed values are measured at standard atmospheric conditions.  
If 230V 60Hz is required, please consult factory.

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 set<sup>1)</sup> consists of:  
2 x Pump head with valves  
2 x Diaphragm assembly  
2 x Diaphragm nut  
2 x Diaphragm washer

## ACCESSORIES

Tube connector I.D. 14 mm  
(part number 31644)

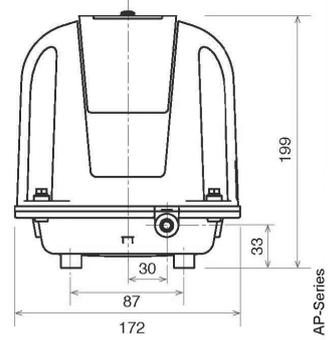
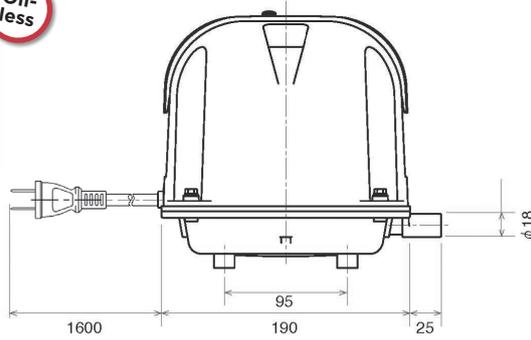
**5250...** Stock programme

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	<b>52500453</b>
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 <sup>1)</sup>	<b>700580</b>
Air filter and gasket kit	<b>700582</b>
Air filter kit	<b>700583</b>

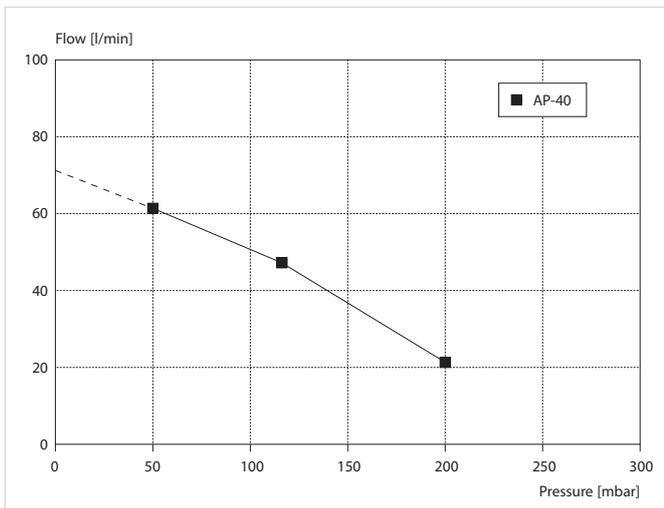
All listed values are measured at standard atmospheric conditions.

If 230V 60Hz is required, please consult factory.

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 set<sup>1)</sup> 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

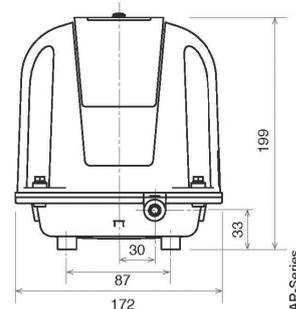
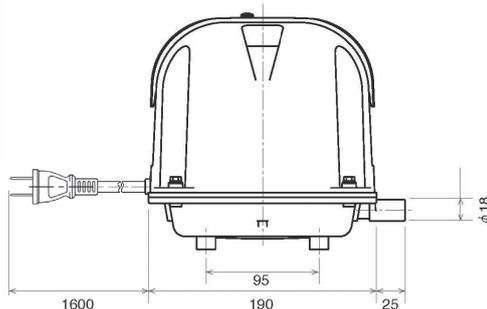
Cable/Euro-plug  
 Air connector consists of (part number 700073)  
 1 x Outlet hose, angled, 170/50 mm  
 2 x Hose clamp

**5250...** Stock programme

# Linear Diaphragm Pumps AP-60N, AP-60/80, AP-80H, AP-100, AP-120

Flow at rated pressure

47 to 125 l/min at 200 mbar



AP-Series

## PNEUMATIC DATA

Description	AP-60N	AP-60/80	AP-80H	AP-100	AP-120
Part number	<b>52500478</b>	<b>52500485</b>	<b>52500480</b>	<b>52500472</b>	<b>52500473</b>
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	0.26 A / 31 W	0.34 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	<b>700582</b>	<b>700582</b>	<b>700582</b>	<b>700582</b>	<b>700582</b>
Air filter kit	<b>700583</b>	<b>700583</b>	<b>700583</b>	<b>700583</b>	<b>700583</b>
*Chamber block set	<b>700581</b>	<b>700581</b>	<b>700585</b>	<b>700585</b>	<b>700585</b>
**Protective switch	<b>700578</b>	<b>700578</b>	<b>700578</b>	<b>700578</b>	<b>700578</b>

All listed values are measured at standard atmospheric conditions.

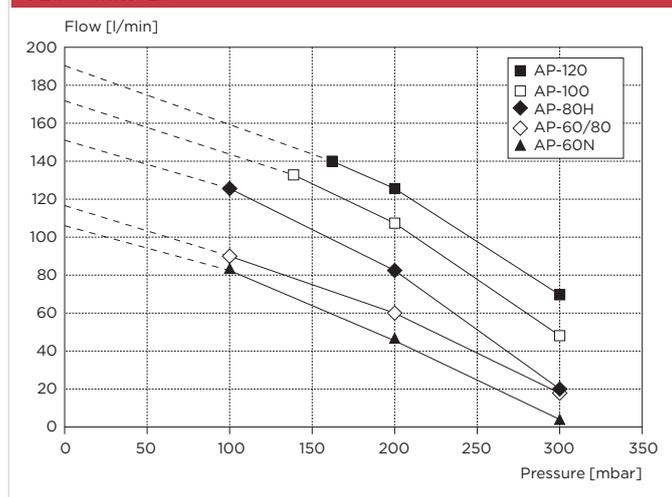
If 230V 60Hz is required, please consult factory

\***Chamber block set** denotes part is only available for trained service personnel. Contact your local sales representative.

\*\***Protective Switch** denotes that switch replacement can only be done at factory. Contact your local sales representative.

Please refer to the operation manual for additional information.

## FLOW CURVES



## SERVICE PARTS

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

\*Chamber block set consists of  
2 x Pump head with valves  
2 x Diaphragm assembly  
2 x Diaphragm gasket  
2 x Nut  
2 x Washer

\*\*Protective switch consists of  
1 x Microswitch  
2 x Nut  
2 x Washer  
1 x Cover plate 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

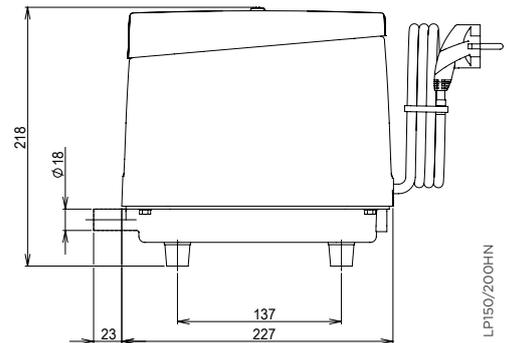
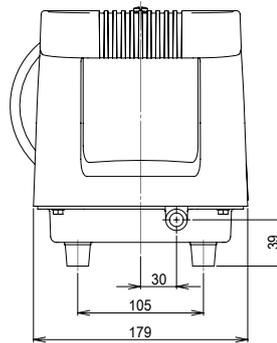
**5250...** Stock programme

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

# 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	<b>52500151</b>	<b>52500202</b>
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

Chamber block set <sup>1)</sup>	<b>700533</b>	<b>700533</b>
Air filter and gasket kit	<b>700550</b>	<b>700550</b>
Air filter kit	<b>700551</b>	<b>700551</b>
Protective switch <sup>1)</sup>	<b>700552</b>	<b>700552</b>

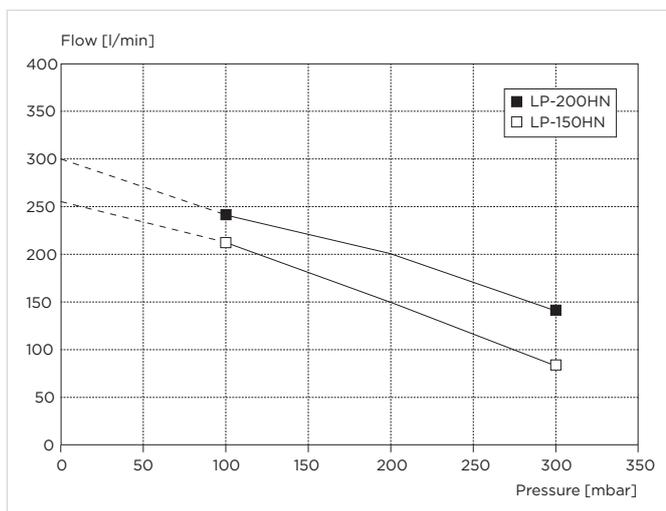
All listed values are measured at standard atmospheric conditions.

If 230v 60Hz is required, consult factory

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

Please refer to the operation manual for additional information.

## FLOW CURVES



## SERVICE PARTS

Chamber block set<sup>1)</sup> consists of:  
 2 x Pump head with valves  
 2 x Diaphragm assembly  
 2 x Diaphragm nut  
 2 x Diaphragm 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  
 2 x L-Hose  
 2 x L-Clamp

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

Protective switch<sup>1)</sup> consists of:  
 1 x Microswitch complete with cover plate  
 1 x Cover plate 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 programme

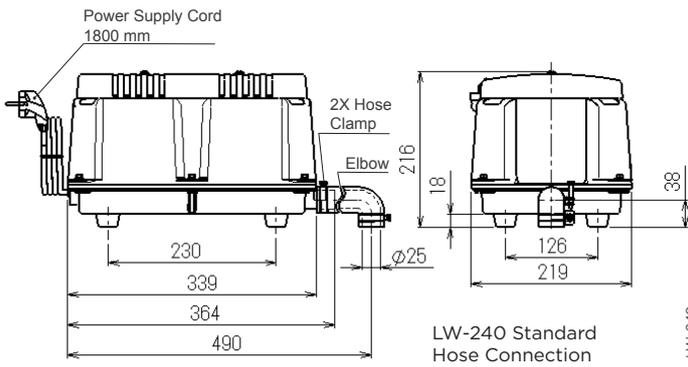
Note: Operation outside specified operating range is not recommended.  
 All listed values are measured at standard atmospheric conditions

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

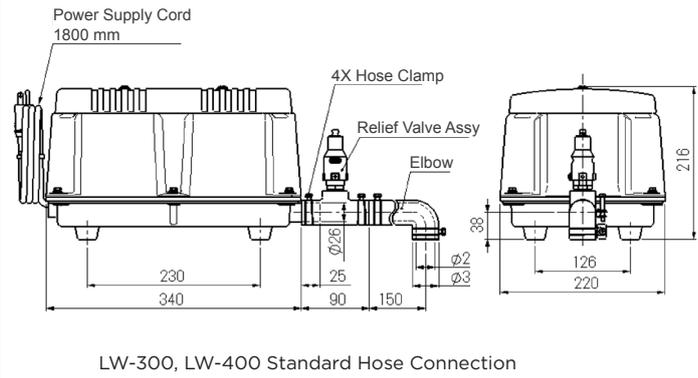


Flow at rated pressure

425 l/min at 200 mbar



LW-240



LW-300/400

## PNEUMATIC DATA

Description	LW-240	LW-300	LW-400
Part number	<b>52500410</b>	<b>52500411</b>	<b>52500414</b>
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

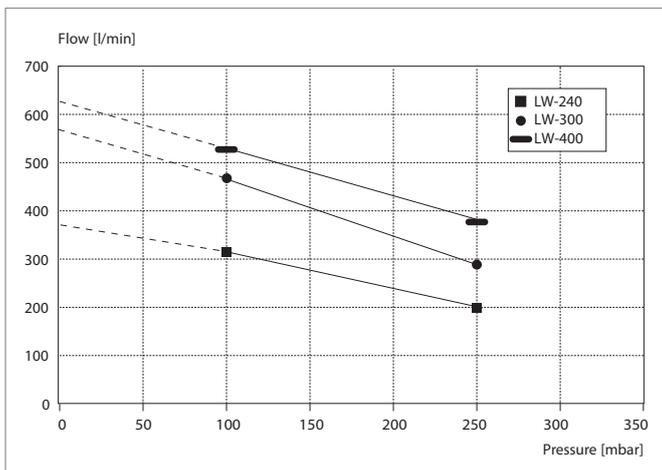
Ambient temperature	-10 to 40 °C	-10 to 40 °C	-10 to 40 °C
Weight	14.4 kg	16.0 kg	16.0 kg
Outlet diameter	26 mm	26 mm	26 mm
Average sound level	49 db (A)	50 db (A)	51 dB (A)

## SERVICE PARTS

Chamber block set <sup>1)</sup>	<b>700500</b>	<b>700597</b>	<b>700597</b>
Air filter and gasket kit	<b>700502</b>	<b>700598</b>	<b>700598</b>
Air filter kit	<b>700510</b>	<b>700510</b>	<b>700510</b>
Protective switch <sup>1)</sup>	<b>700512</b>	<b>700599</b>	<b>700599</b>

All listed values are measured at standard atmospheric conditions.  
Please consult factory if 230V 60Hz is needed.  
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.  
All listed values are measured at standard atmospheric conditions

## SERVICE PARTS

Chamber block set<sup>1)</sup> consists of:  
4 x Pump head with valves  
4 x Diaphragm assembly  
4 x Diaphragm nut  
4 x Diaphragm washer

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

Protective switch<sup>1)</sup> consists of:  
1 x Microswitch w/cover plate  
Please note: One unit is equipped with two protective switches

## 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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