

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










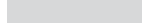
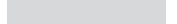
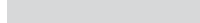





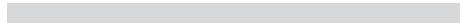
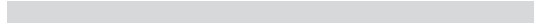
AP
LP
LW
YP
YP-DU



Linear

Linear Diaphragm Pumps

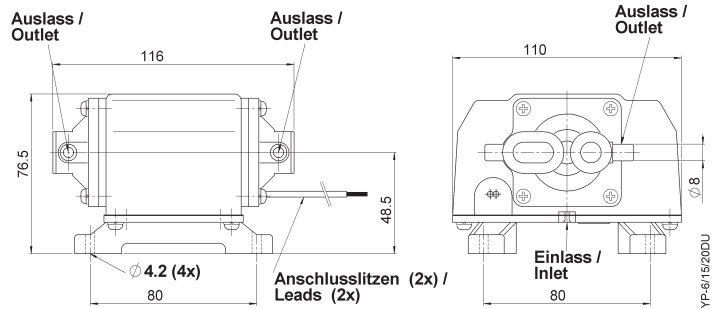
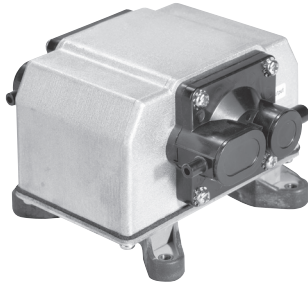
PRODUCT OVERVIEW

| Model | Pressure | Vacuum | without housing | with housing | Flow at rated pressure | | | | | | | | | | Page |
|--|----------------------------|--------|-----------------|----------------------------|--|----|-----|-----|-----|-----|-----|------------|--|--|------------|
| | | | | | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 400(l/min) | | | |
|  YP-15DU | • | | | • |  15 l/min @ 100 mbar | | | | | | | | | | 3 |
|  YP-40VC YP-70VC | • • | • • | | • • |   49 l/min @ 120 (-120) mbar 73 (64) l/min @ 120 (-180) mbar | | | | | | | | | | 3.4 |
|  AP-40 AP-50G AP-60G AP-80H AP-100 AP-120 | • • • • • • | | | • • • • • • |       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 |
|  LP-150HN LP-200HN | • • | | | • • |   150 l/min @ 200 mbar 200 l/min @ 200 mbar | | | | | | | | | | 8 |
|  LW-240 LW-300 LW-400 | • • • | | | • • • |    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) |

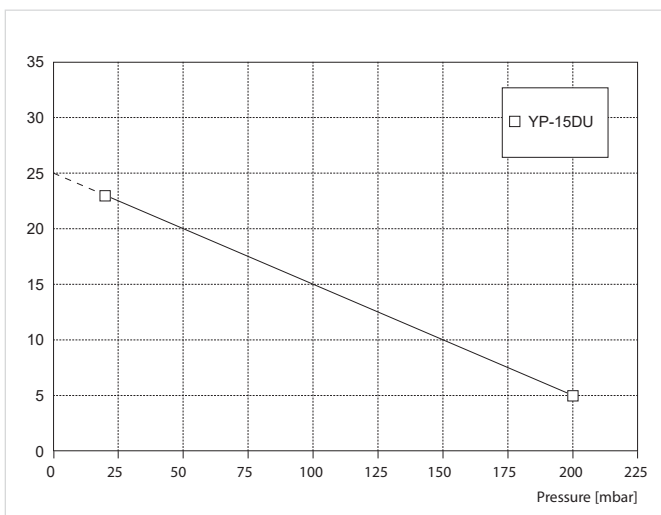
SERVICE PARTS

| | |
|---------------------------------|--------|
| Chamber block set ¹⁾ | 700017 |
|---------------------------------|--------|

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

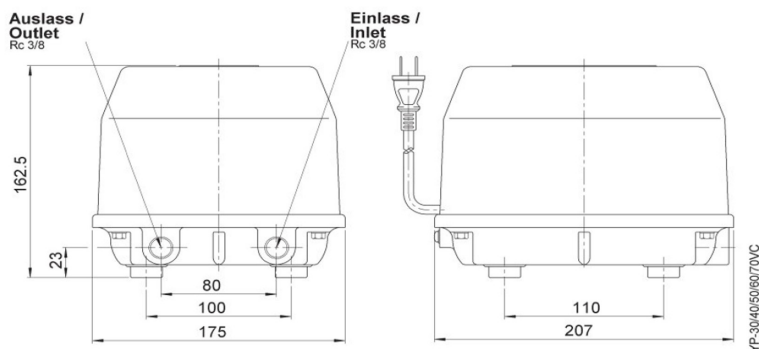
Chamber block set¹⁾ consists of:

- 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



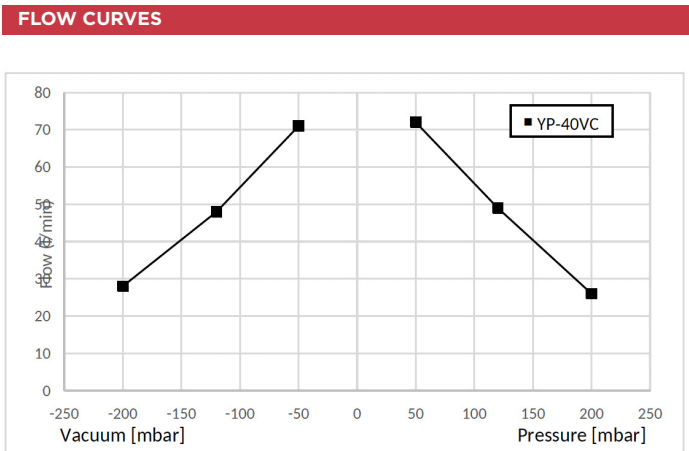
| PNEUMATIC DATA | |
|------------------------|------------------|
| Description | YP-40VC |
| Part number | 52500402 |
| Flow at rated pressure | 49 l/min |
| Rated pressure | ±120 mbar |
| Operating range | -200 to 200 mbar |

| 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 |

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.



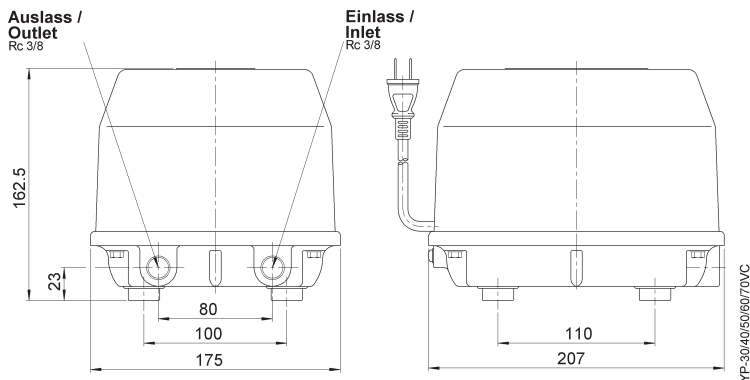
Note: Operation outside specified operating range is not recommended.
All listed values are measured at standard atmospheric conditions

| SUPPLIED AS STANDARD | SERVICE PARTS |
|----------------------|--|
| Cable/Euro-plug | 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



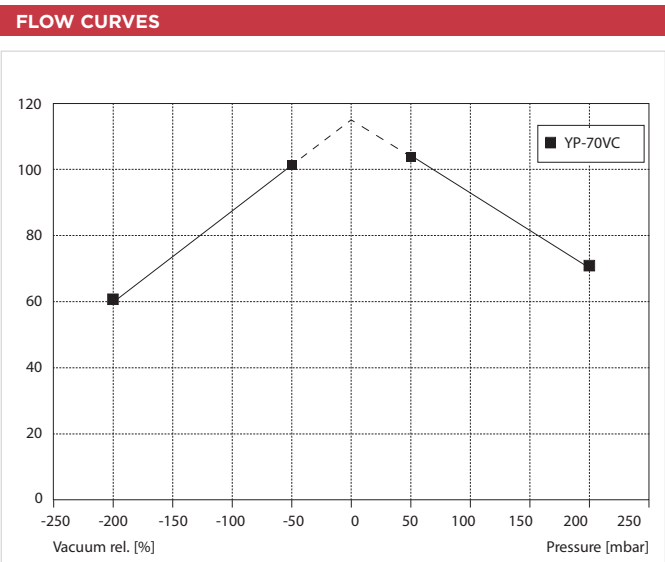
| PNEUMATIC DATA | |
|------------------------|------------------|
| Description | YP-70VC |
| Part number | 52500073 |
| Flow at rated pressure | 73 l/min |
| Rated pressure | ±120 mbar |
| Operating range | -200 to 200 mbar |

| 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 |

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.



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

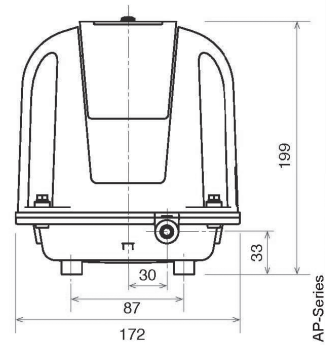
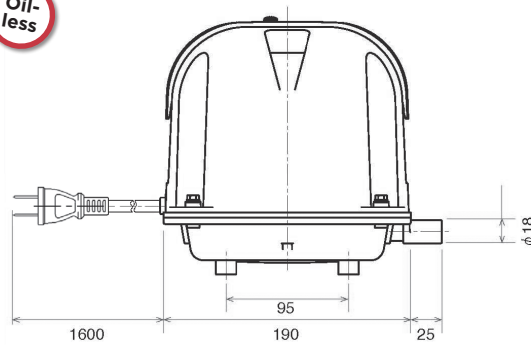
- SUPPLIED AS STANDARD
- Cable/Euro-plug
- SERVICE PARTS
- Chamber block set¹⁾ consists of:
- 2 x Pump head with valves
 - 2 x Diaphragm assembly
 - 2 x Diaphragm nut
 - 2 x Diaphragm washer

5250... Stock programme

Linear Diaphragm Pump **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

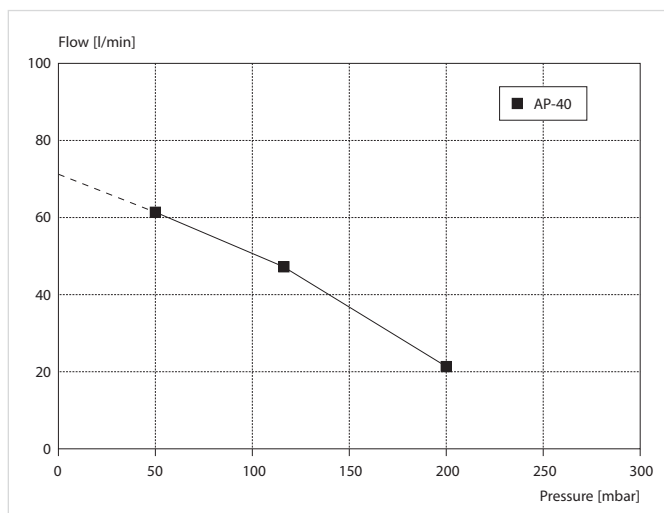
| | |
|---------------------------------|----------------|
| Chamber block set ¹⁾ | 700580 |
| Air filter and gasket kit | 700582Y |
| Air filter kit | 700583Y |

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

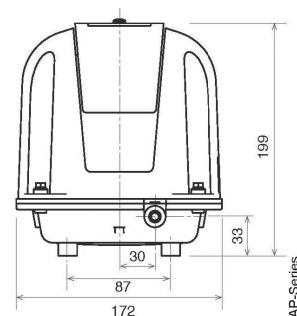
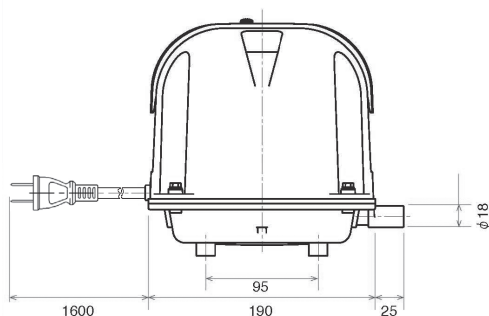
Cable/Euro-plug
 Air connector consists of (part number 700073)
 1 x Outlet hose, angled, 170/50 mm
 2 x Hose clamp

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 | 200 mbar | 200 mbar | 200 mbar | 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 | -10 to 40 °C | -10 to 40 °C | -10 to 40 °C | -10 to 40 °C |
| Weight | 5.8 kg | 5.8 kg | 6.1 kg | 6.1 kg | 6.1 kg |
| Outlet diameter | 18 mm | 18 mm | 18 mm | 18 mm | 18 mm |
| Average sound level | 34 dB (A) | 34 dB (A) | 35 dB (A) | 37 dB (A) | 38 dB (A) |

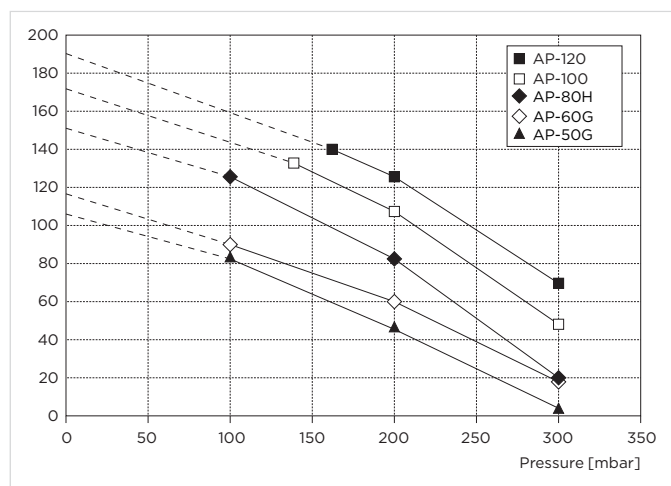
SERVICE PARTS

| | | | | | |
|---------------------------|----------------|----------------|----------------|----------------|----------------|
| 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

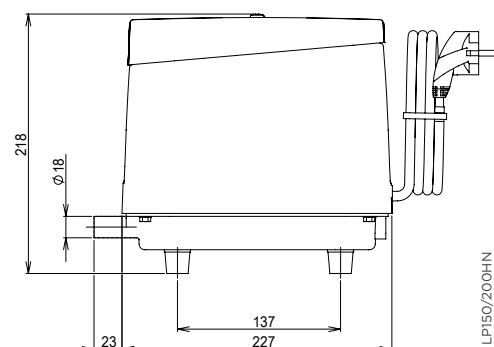
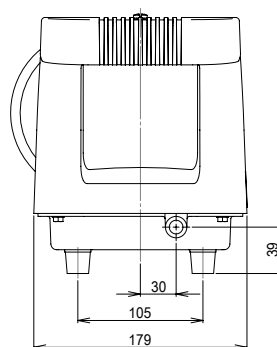
Cable/Euro-plug
 Air connector, consists of:
 (part number 700073)
 1 x Angled outlet hose 170/50mm
 2 x Hose clamp

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

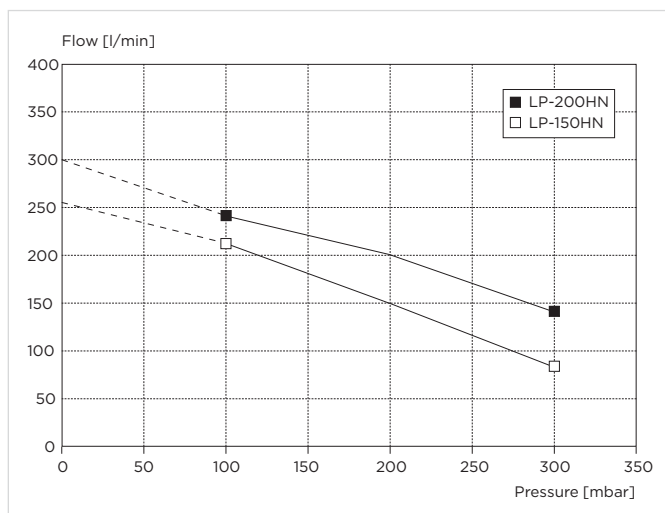
| Maintenance rebuild kit ¹⁾ | 700605 | 700605 |
|---------------------------------------|---------------|---------------|
| Air filter and gasket kit | 700550 | 700550 |
| Air filter kit | 700551 | 700551 |

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



Note: Operation outside specified operating range is not recommended.
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

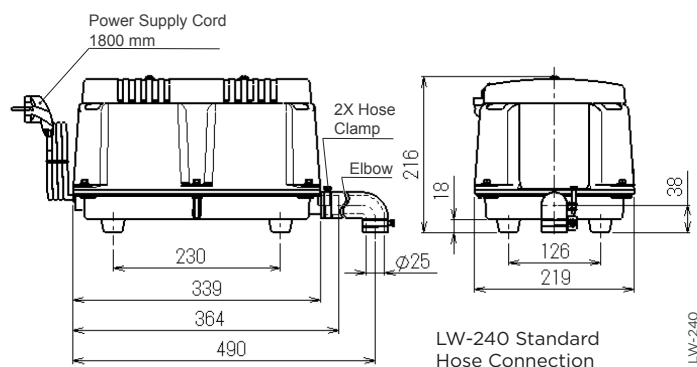
5250... Stock program

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

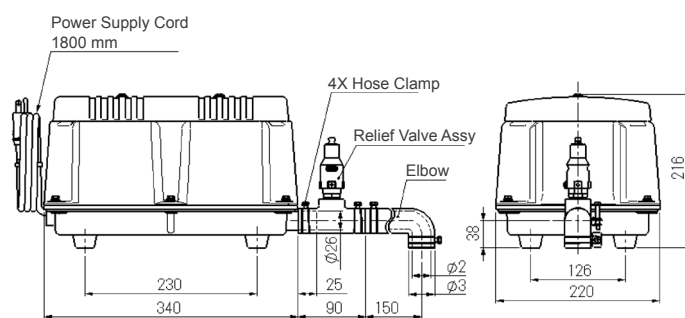


Flow at rated pressure

425 l/min at 200 mbar



LW-240



LW-300, LW-400 Standard Hose Connection

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) |

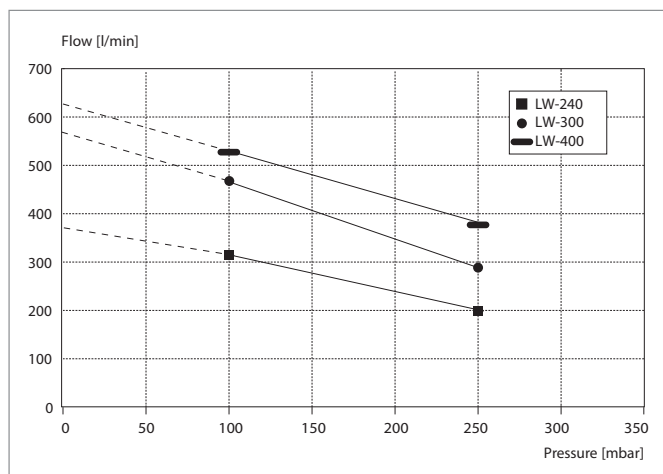
SERVICE PARTS

| | | | |
|---------------------------------------|----------------|---------------|---------------|
| 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.
All listed values are measured at standard atmospheric conditions

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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