



Industrial Applications

High performance and economic high pressure solutions



Breathing Air | Compressed Air | Nitrogen | Inert Gas | CNG | Biomethane Gas | Hydrogen



Solid Growth

Lenhardt & Wagner is one of the leading and renowned companies in the market of high-pressure applications. A worldwide network of L&W agencies and service centres ensures a steady growth of the company.

Our growth is based on a long-term and strategic planning that still allows us sufficient freedom of action for rapid reaction in cases of need. Based on continuing expansion of the Asian market, with new agencies in Singapore and China, we already could increase significantly our sales and improve our services.

During the last three decades, the range of L&W products could be consistently advanced and new markets are created.

In addition to breathing air compressors and related peripheral equipment we offer also compressors, storage and filter for the necessary high-pressure which is required for natural gas filling stations. High-pressure solutions such as inert gases and nitrogen for additional industrial applications and laboratory use are also among our skills.



Certified L&W Quality

Highest quality and continuous development and improvement of our products are our most significant target in the implementation of our daily tasks. Therefore, we meet all EU requirements as a standard and are certified to ISO 9001:2000.

Acceptance tests of other certified authorities are possible on demand.



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L&W - Long-living, High Performance and Reliable

For more than 30 years, L&W has been delivering high pressure compressors and accessory modules for purifying, storing and filling of:

- >> Air
- >> Nitrogen
- >> Inert gas
- >> Natural gas and biogas

Our extensive know-how in the field of high-pressure applications and a continuous development of our product range have contributed to our worldwide success. We offer the maximum in reliability and durability for our products "Manufactured in Germany".



Benefit from our individual and complete solutions

1 Compression

Customised compressors and boosters for the application in your systems take profit of many years of experience in compressor design - from basic structure to detailed solutions. High efficient cooling systems enable long lifetime with less maintenance.

2 Purifying

Various modular combinations with specific filter elements leave nothing to be meets all your needs. Highest operational safety can be reached due to an optional filter monitoring.

3 Storage Control

L&W provides manual as well as automatic storage control systems. This always ensures an optimal interaction between compressor, storage and your application. A pressure reducing station can be combined directly with storage control.

4 Storage

L&W also provides storage units for each filling pressure and offers various modular solutions which can be expanded at any time according to the requirements.

The L&W SILENT Series

The SILENT series has been developed especially for work areas and workshops where no additional compressor room is available. The silent housing allow working next to the compressor without wearing hearing protection.

Your advantages at a glance::

- >> Excellent noise reduction up to 62 dB[A]
- >> High efficient cooling grace to an exact air flow and a secondary ventilator
- >> Lateral inspection panels for easy service access
- >> Space saving horizontal installation

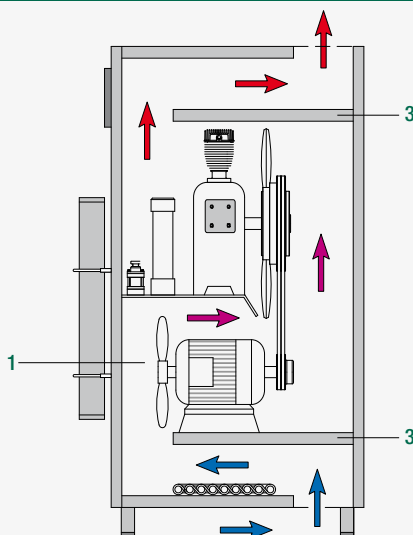


LW 280 ES



Sound insulated housing LW 1300 ES

The ES Silent Concept



Sound insulation is also heat insulation, manufacturing quiet compressors and keeping them cool is the ultimate objective. With the ES concept, we have benchmark sound insulation and benchmark cooling. The cross sectional view of the ES housing illustrates the key features.

1. A secondary ventilator provides additional thrust for the cooling air flow through the housing.
2. Additional final stage heat exchangers are the first component in the flow of cooling air into the housing.
3. The intermediate panels with sound insulation padding prevent the direct egress of sound waves out of the housing absorbing the majority of the noise.

Breathing Air / Compressed Air

Stationary high pressure compressors for industrial compression of air - purification with breathing air quality.

The sturdy design of our compressors provides a maximum operating safety. Take profit of our know-how in a wide range of applications, e.g. high pressure test systems, pressure chambers, high pressure storage for pneumatic tools and many others.

Our compressors are designed for your individual application with a high degree of expandability according to your requirements.



Applications

Type	From	To
Inlet pressure	atmospheric	150 bar (2100 psi)
Delivery capacity	6 m ³ /h (3.5 cfm)	700 m ³ /h (420 cfm)
Final pressure	10 bar (140 psi)	420 bar (6100 psi)

We individually calculate compressor and drive power according to your application requirement. In this way, we perform the best possible efficiency and highest economic feasibility for you.

Breathing Air / Compressed Air

Standard equipment

- >> Sturdy steel frame, powder coated (liquid coating optional)
- >> Operating panel with start/stop and condensation test controls, final pressure gauge and hours counter
- >> Automatic stop at final pressure
- >> Automatic condensate drain
- >> All pistons c/w steel piston rings at all stages
- >> Hardened compression cylinders
- >> Intake filter
- >> Oil lubrication
- >> Oil- / Water separators after each stage
- >> Filter system at the compressor
- >> Safety valves after each stage
- >> Final pressure safety valve with TÜV (German supervising authorities) acceptance test
- >> Pressure maintaining and non return valve, HP outlet
- >> HP outlet with HP hose (connection: M16 x 1.5 / 10 l)

Options

- >> Primary pressure calibration to adjust the desired inlet pressure
- >> Inlet buffer tank 150 l, incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Primary pressure monitoring - pressure shut off at max./min. inlet pressure
- >> Electronic Compressor Control - ECC
- >> Auto start for semi / full automatic mode
- >> Inter-stage pressure gauge
- >> Oil pressure gauge and monitoring c/w auto shut down
- >> Puracon filter monitoring
- >> Compressor block heating for ambient temperature < +5°C
- >> 420 bar version
- >> Water cooling with stainless steel heat exchanger
- >> Filter extension (larger or second filter housing)
- >> Gas-tight intake filter

Specifications and Options



Water separators after each stage



Electronic Compressor Control - ECC



Application example: crash test rigs

Nitrogen

The sturdy design of stationary high pressure compressors for industrial compression of nitrogen provides a maximum operating safety.

Take profit of our know-how in a wide range of applications, e.g. test systems for air bags and brakes, laser cutting systems, gas injection moulding, offshore platforms and many other nitrogen applications.

Our compressors are designed for your individual application with a high degree of expandability according to your requirements.



LW 570 EN incl. inter stage pressure gauges and oil temperature monitoring

Applications

Type	From	To
Inlet pressure	atmospheric	150 bar (2100 psi)
Delivery capacity	6 m ³ /h (3.5 cfm)	700 m ³ /h (420 cfm)
Final pressure	10 bar (140 psi)	420 bar (6100 psi)

We individually calculate compressor and drive power according to your application requirement. In this way, we perform the best possible efficiency and highest economic feasibility for you.

Nitrogen

Standard equipment

- >> Sturdy steel frame, powder coated (liquid coating optional)
- >> Operating panel with start/stop and condensation test controls, final pressure gauge and hours counter
- >> Automatic stop at final pressure
- >> Automatic condensate drain
- >> All pistons c/w steel piston rings at all stages
- >> Hardened compression cylinders
- >> Gas-tight intake filter
- >> Oil lubrication
- >> Oil- / Water separators after each stage
- >> Inlet buffer tank 20 - 90 l (depending on version), incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Filter system at the compressor
- >> Safety valves after each stage
- >> Final pressure safety valve with TÜV (German supervising authorities) acceptance test
- >> Pressure maintaining and non return valve, HP outlet
- >> HP outlet with HP hose (connection: M16 x 1.5 / 10 l)

Options

- >> Primary pressure calibration to adjust the desired inlet pressure
- >> Inlet buffer tank 150 l, incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Primary pressure monitoring - pressure shut off at max./min. inlet pressure
- >> Electronic Compressor Control - ECC
- >> Auto start for semi / full automatic mode
- >> Inter-stage pressure gauge
- >> Oil pressure gauge and monitoring c/w auto shut down
- >> Puracon filter monitoring
- >> Compressor block heating for ambient temperature < +5°C
- >> 420 bar version
- >> Water cooling with stainless steel heat exchanger
- >> Filter extension (larger or second filter housing)

Specifications and Options



20 l primary pressure tank with monitoring



LW 570 EN filter extension



Application example: laser cutting systems

Inert Gas

High performance complete solutions for reliable compression, purification, storage and recovery of inert gases such as helium and argon. This compressor series provides economic efficiency to the maximum due to loss-free compression by means of returning condensation and leak gases.

Take profit of our many years of experience in planning and construction of special systems for applications such as helium recovery, filling plants and different test plants as well as various other helium applications.



Applications

Type	From	To
Inlet pressure	atmospheric	150 bar (2100 psi)
Delivery capacity	6 m ³ /h (3.5 cfm)	700 m ³ /h (420 cfm)
Final pressure	10 bar (140 psi)	420 bar (6100 psi)

We individually calculate compressor and drive power according to your application requirement. In this way, we perform the best possible efficiency and highest economic feasibility for you.

Inert Gas

Standard equipment

- >> Sturdy steel frame, powder coated (liquid coating optional)
- >> Operating panel with start/stop and condensation test controls, final pressure gauge and hours counter
- >> Automatic stop at final pressure
- >> Automatic condensate drain
- >> All pistons c/w steel piston rings at all stages
- >> Hardened compression cylinders
- >> Gas-tight intake filter
- >> Oil lubrication
- >> Oil- / Water separators after each stage
- >> Inlet buffer tank 20 - 90 l (depending on version), incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Filter system at the compressor
- >> Safety valves after each stage
- >> Final pressure safety valve with TÜV (German supervising authorities) acceptance test
- >> Pressure maintaining and non return valve, HP outlet
- >> HP outlet with HP hose (connection: M16 x 1.5 / 10 l)
- >> Return of condensation and leak gases

Options

- >> Primary pressure calibration to adjust the desired inlet pressure
- >> Inlet buffer tank 150 l, incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Primary pressure monitoring - pressure shut off at max./min. inlet pressure
- >> Electronic Compressor Control - ECC
- >> Auto start for semi / full automatic mode
- >> Inter-stage pressure gauge
- >> Oil pressure gauge and monitoring c/w auto shut down
- >> Puracon filter monitoring
- >> Compressor block heating for ambient temperature < +5°C
- >> 420 bar version
- >> Water cooling with stainless steel heat exchanger
- >> Filter extension (larger or second filter housing)

Specifications and Options



20 l primary pressure tank for LW 280 ES



150 l primary pressure tank for condensate return



Application example: inert gas filling station

Natural Gas, Biogas and Hydrogen

Stationary high pressure compressors for the compression of natural gas, biogas and hydrogen. Our compressors are characterised by a sturdy construction, low speed, long service intervals and an excellent value for money.

Take profit of our know-how in planning and construction of special systems, e.g. natural gas stations, biogas compressors for industrial large-scale plants, hydrogen systems and energy storage.



Applications

Type	From	To
Inlet pressure	atmospheric	150 bar (2100 psi)
Delivery capacity	6 m ³ /h (3.5 cfm)	700 m ³ /h (420 cfm)
Final pressure	10 bar (140 psi)	420 bar (6100 psi)

We individually calculate compressor and drive power according to your application requirement. In this way, we perform the best possible efficiency and highest economic feasibility for you.

Natural Gas, Biogas and Hydrogen

Standard equipment

- >> Sturdy, warp resistant steel frame with high quality industrial coating
- >> Final pressure gauge, electric control system according to requirements and application
- >> Automatic stop at final pressure
- >> Automatic condensate drain
- >> All pistons c/w steel piston rings at all stages
- >> Hardened compression cylinders
- >> Oil lubrication
- >> Oil- / Water separators after each stage
- >> Safety valves after each stage
- >> Final pressure safety valve
- >> Pressure maintaining and non return valve, HP outlet
- >> Explosion proofed external components for EX zone 1

Options

- >> Primary pressure calibration to adjust the desired inlet pressure
- >> Inlet buffer tank 150 l, incl. safety valve, condensate drain valve, pressure gauge and cut-off solenoid for inlet gas
- >> Primary pressure monitoring - pressure shut off at max./min. inlet pressure
- >> Electronic Compressor Control - ECC
- >> Auto start for semi / full automatic mode
- >> Inter-stage pressure gauge
- >> Oil pressure gauge and monitoring c/w auto shut down
- >> Puracon filter monitoring
- >> Compressor block heating for ambient temperature $< +5^{\circ}\text{C}$
- >> Water cooling with stainless steel heat exchanger
- >> Additional oil lubrication circuit allows oil changes during operation
- >> Filter extension (larger or second filter housing)

Specifications and Options



LW1300 EG with water cooling



LW1300 EG with additional oil lubrication circuit



Application example: natural gas filling stations

Electronic Compressor Control - ECC

The digital electronic compressor control ECC is available as an option for all electric motor driven compressors from LW 230 E/ ES. It offers a range of functions and interfaces only available with digital controls. The unit has an illuminated LCD display which can show various functions and values as selected on the numeric keypad. The ECC software can be updated by using a standard windows computer (Hyperterminal) via the RS232 serial cable (cable stored in the switchbox). The ECC is available in various languages, e.g.: German, English, French, Spanish, Dutch and Swedish. Only for power supplies according to IEC 38 standards.



Puracon Filter Monitoring

The usage of a moisture controller is the most reliable and economic method for filter monitoring. L&W Puracon can be ordered optionally for a new unit or can be easily integrated retroactively into existing filling stations.

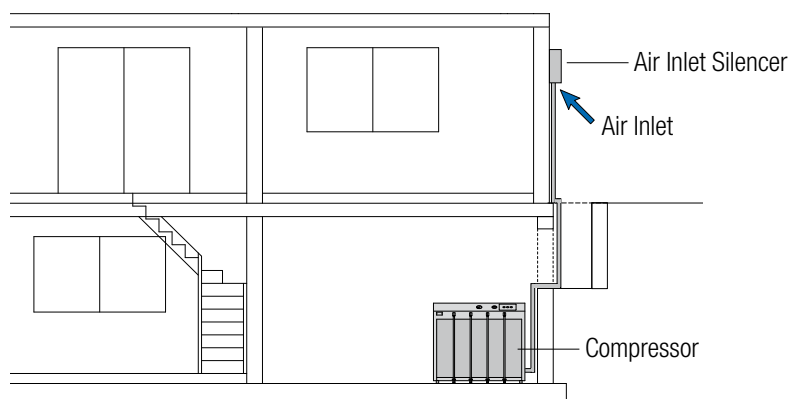
The residual water content is digitally indicated in mg/m³ and indicated via 3-coloured LEDs. Safety for breathing air filling stations (quality control for product liability), maximum utilisation instead estimation of the filter cartridge lifetime and for special applications where a high air quality is essential (e.g. production of Nitrox as breathing air mixtures).



Air Inlet Silencer

Fresh air, intaken from outside of the building, here arises an intake noise which is generated by the inlet valve. We recommend using an inlet silencer to reduce the intake noise to a minimum. The silencer is delivered with a special mount for wall mounting.

40 x 26 x 60 cm, 24 kg



Condensation Collecting Tank

The 60 l tank is equipped with an active carbon filter to collect condensate odourlessly and quietly. The condensate can be easily transported in the collecting tank and disposed environmentally sound.

The flexible connection hoses are fitted with quick-couplings, to allow easy separation from the compressor. The tank is equipped with a level gauge to indicate max. filling level. Two sturdy carrying handles ensure a safe transportation.

Ø 40 x 80 cm, 20 kg



LW Air Cooler +3 °C

Filter capacity and filter life, an important theme with financial implications for industrial applications where cost control is vital. The life of a filter is strongly influenced by temperature. Example: LW 450 E at +20 °C outlet temperature has a filter life of approx. 33 hrs, at +35 °C this time is reduced to just 11 hours!

If the gas is cooled down after the final compression stage, e.g. from 35 °C to 3 °C, the life of the filter cartridge can be extended many times over.

The coolers are available as independent units with water separators, automatic condensation drain with timer and silencer, or as the economical. LW Air Cooler BASIC for connection to a compressor with final stage oil/water separator and drain.

The L&W refrigeration dryers (Air Coolers) can pay for themselves within 1 season by saving filter cartridge costs. To monitor the exact state of the filter, we recommend the L&W Puracon moisture controller.

Specifications

- >> Ready to connect to automatic, noise reduced condensation drain (basic version without automatic condensation drain)
- >> Digital temperature display in °C
- >> Painted steel housing (RAL 6026)
- >> Power supply cable for 230 V~ 50 Hz connection incl. CE plug (60 Hz versions available on demand)

Air Coolers are available in 2 pressure ranges:

Standard version up to 350 bar, Basic versions up to max. 420 bar.

All units up to 2850 litres/min are suitable for wall mounting.

The units are maintenance free with environment friendly CFC-free refrigeration fluids.



LW AC 450

Technical Data

Model	Max. flow [m³/h] / [l/min]	Working pressure [bar]	Power consumption [kw]	Cooling air requirement [m³/h]	Mount case	Refrigeration fluid	W x D x H [mm]	Weight [kg]
LW AC 450 Basic	27 / 450	350 / 420	0.42	390	Wall mount	R 134a	330 x 250 x 700	39
LW AC 450	27 / 450	350	0.42	390	Wall mount	R 134a	330 x 250 x 700	48
LW AC 900 Basic	54 / 900	350 / 420	0.56	570	Wall mount	R 404 a	330 x 250 x 700	41
LW AC 900	54 / 900	350	0.56	570	Wall mount	R 404 a	330 x 250 x 700	50
LW AC 1350 Basic	81 / 1350	350 / 420	0.6	900	Wall mount	R 404 a	500 x 430 x 840	50
LW AC 1350	81 / 1350	350	0.6	900	Wall mount	R 404 a	500 x 430 x 840	59
LW AC 1950	117 / 1950	350	0.7	1140	Wall mount	R 404 a	500 x 430 x 840	74
LW AC 2850	171 / 2850	350	0.9	1800	Wall mount	R 404 a	500 x 430 x 840	106
LW AC 3650	219 / 3650	350	2.2	2200	Free standing	R 404 a	800 x 670 x 1350	164
LW AC 5400	324 / 5400	350	3.6	3400	Free standing	R 404 a	800 x 670 x 1350	196
LW AC 7000	420 / 7000	350	4.3	4200	Free standing	R 404 a	800 x 670 x 1350	224

Filter Panels

For purifying, drying and oil removal of air and gases.

The high pressure filter housings are certified and documented in accordance with current pressure vessel regulations to a maximum working pressure of 350 bar (5250 psi) and 420 bar (6200 psi).

The assembly is mounted on a sturdy wall panel and piped ready for connection with a pressure maintaining and non-return valve. If required, the inlet can be secured with a pressure relief valve.

These panels are the preferred choice for filtration remote from the compressor and are ideal for multiple compressor installations especially when using a central refrigeration dryer or for upgrading an outdated filter system.

The filter housings are available in the sizes 1.7, 2.3, 10 litres volume. Cartridges are available for breathing air, breathing air with additional CO/CO₂ filter, drying, active charcoal, natural gas drying and more.



Filter Panel 2 x 2,3 l
incl. pressure maintaining valve

Specifications

- >> Nickel plated steel filter housing(s) with 1 drain tap on each panel
- >> Steel frame and housing, powder coated in RAL 6026
- >> Pressure maintaining and non-return valve, connection G 1/4"
- >> Inlet connector thread, connection G 1/4"

Options

- >> Safety valve
- >> Puracon filter monitoring
- >> Div. filter cartridges



Filter Panel 2 x 10 l
without pressure maintaining valve

Technical Data

Filter panel	Capacity at +20°C [m ³]	W x H x D [mm]	Weight [kg]	Max WP [bar]
1 x 1.7 l	900	270 x 570 x 180	27	350
2 x 1.7 l	1800	430 x 570 x 180	44	350
3 x 1.7 l	2700	560 x 570 x 180	61	350
1 x 2.3 l	1200	270 x 815 x 180	32	350
2 x 2.3 l	2400	430 x 815 x 180	54	350
3 x 2.3 l	3600	560 x 815 x 180	76	350
1 x 2.3 l	1200	270 x 815 x 180	38	420
2 x 2.3 l	2400	430 x 815 x 180	67	420
3 x 2.3 l	3600	560 x 815 x 180	95	420
1 x 10 l	8400	1116 x 320 x 460	165	350
1 x 10 l + 1 x 2.3 l	9600	1116 x 320 x 720	180	350
2 x 10 l	16800	1116 x 320 x 700	265	350
2 x 10 l + 1 x 2.3 l	18000	1116 x 320 x 1000	315	350

Storage Cylinders

Storage tanks are frequently used to provide extra filling capacity during peak periods (with or without cascade filling panels). Ideally, the storage pressure should be higher than the filling pressure, 300 bar storage systems are the most common. A fully automatic control system for compressors is recommended (e.g. ECC see page 14). L&W provides different storage systems in modular design, starting from 10 m³ storage volume up. Our cascade filling panels are available for one to four stages operation. Tell us your requirements and we will calculate your individual system.

Ausstattung

- >> Stationary steel tanks 10 year hydro test, powder coated in accordance with EN 1089/3
- >> Powder coated according to EN 1089/3
- >> Special paintings on request
- >> 50 l tank size
- >> Operation pressure: 200, 300 and 350 bar
- >> Operation pressure: 420 and 500 bar on request
- >> Painted steel housing (RAL 6026)
- >> Connected according to customer's specifications
- >> Modular construction to accommodate future expansions



Technical Data

Cylinders	Capacity [m ³]	W x H x D [cm]	Weight [kg]
300 bar storage / PH 450 bar			
1 x 50 l	15	25 x 178 x 30	125
2 x 50 l	30	50 x 178 x 30	210
3 x 50 l	45	75 x 178 x 30	310
4 x 50 l	60	100 x 178 x 30	405
6 x 50 l	90	Ø 80 x 195	570

Cylinders	Capacity [m ³]	W x H x D [cm]	Weight [kg]
350 bar storage / PH 450 bar			
1 x 50 l	17.5	25 x 178 x 30	140
2 x 50 l	35	50 x 178 x 30	240
3 x 50 l	52.5	75 x 178 x 30	355
4 x 50 l	70	100 x 178 x 30	465
6 x 50 l	105	Ø 80 x 195	660

Manual Storage Management

Cascade filling panel, connected upstream of the filling panel, a manual control unit for 2, 3 or 4 stage filling.



Single stage storage management

High pressure valve and pressure gauge can be installed as a storage control in every L&W filling panel.

Cascade panels

For overflow in stages from the storage cylinders via the filling panel or directly to the application. Thus, the gas storage in the storage cylinders can be used more effectively. This makes it possible to fill many more bottles to the final pressure until the compressor system has to be started.

Specifications

- >> Painted steel housing (RAL 6026)
- >> 1-, 2-, 3- or 4-stages
- >> Inlet, valve and pressure gauge for each stage
- >> Inlet of the compressor
- >> Outlet to the filling panel
- >> Fully piped



3 stage cascade management panel

Technical Data

Order no	No of stages	W x D x H [cm]	Weight [kg]
002957	1	21 x 23 x 33	6.5
002935	2	39 x 23 x 33	10
002329	3	58 x 23 x 33	13
002816	4	78 x 23 x 33	16

Auto Filling Selector

The Auto filling selectors always ensures an optimal interaction between compressor, storage cylinder(s) and filling panel.

Automatic filling via storage (e.g. 300 bar) and compressor, if the storage pressure decreases to the required filling pressure. After filling, the storage cylinders are refilled automatically to the final storage pressure. This ensures an optimal and economic usage of the unit.

We recommend using automatic condensation and automatic stop at final pressure at the compressor. Due to a fully automatic changing function of the automatic switching device, it is not necessary to open and close locking valves manually. This ensures fast and uncomplicated filling procedures. Our cascade filling panels are available as management panels with 1, 2, 3 or 4 stages. Tell us your filling requirements and we will quickly calculate your individual system.

The L&W auto filling selector is available in 3 versions:



Pneumatic controlled auto filling selector

For applications with a storage pressure of 300 bar and a max. filling pressure of 225 bar.

30 x 27 x 10 cm, 3 kg

Pneumatic controlled auto filling selector with integrated pressure reducing station

For applications with a storage pressure of 300 bar and a max. filling pressure of 225 bar. The outlet pressure is set by the pressure reducing station and is secured by the downstream safety valve.

55 x 35 x 15 cm, 9 kg



Electronic controlled auto filling selector

Switching points can be exactly set by the electronic pressure transducer. This system has to be used when the filling pressure is close to the storage pressure, e.g. storage pressure of 330 bar and filling pressure of 320 bar.

43 x 26 x 10 cm, 16 kg

Options

- >> Auto start signal for the compressor

Pressure Reducing Stations

Ideal for safe reducing storage pressure down to the required filling pressure. The pressure reducing stations are available for various inlet and outlet pressures and volumetric flows.







Pressure reducing station with safety valve



Pressure reducing station with
TÜV/ CE safety valve

Pressure Reducers

Various pressure reducers are available for different applications, see. table. Other pressure reducers on request.

	Inlet	Outlet	Gas
	100 - 420 bar 2 x 1/4" NPT internal screw thread	27 - 300 bar 2 x 1/4" NPT internal screw thread	Air, Inert gases
	100 - 420 bar 1 x 1/4" NPT external screw thread	27 - 300 bar 1 x 1/4" NPT internal screw thread	Air, Inert gases
	100 - 300 bar G5/8" DIN 477 external screw thread	0 - 50 bar G1/4" internal screw thread	Air
	0 - 200 bar W 24,3 x 1/14 LH internal screw thread	0 - 20 bar G1/4" internal screw thread	Nitrogen
	0 - 200 bar W 21,8 x 1/14 LH internal screw thread	0 - 20 bar G1/4" internal screw thread	Hydrogen, Helium
	0 - 6 bar 1 x 1/2" internal screw thread	150 mbar - 6 bar 1 x 1/2" internal screw thread	Air, Inert gases

Filter Cartridges

Filter cartridges are available in various versions and for different gases and applications.

Applications

- >> Breathing air according to EN 12021
- >> Breathing air according to EN 12021 and additional CO/CO₂-filtration
- >> Oil removal < 0.1 mg/m³ (Nitrogen / Helium applications)
- >> Drying < 15 mg/m³
- >> Natural gas drying and oil removal



Inlet Filters

The inlet filter is essential for the operating life of the compressor; it avoids that dirt particles damage valves, pistons and cylinder bores. Filters for different compressor sizes are available.



Service Kits

The service kits contain parts for maintenance according to the factory requirements. The use of the L&W service kits ensures that all required parts are ordered and replaced and gives you the assurance that all parts are included in your order. Depending on the model and interval parts, the service kits include e.g. O-Rings, Sinter Filter, Intake Filter, V-Belts, Silencers, In- & Outlet Valve, Valve Seals and Compressor oil.



Seminars / Training Courses at L&W

In our training courses, we teach you the basics for the knowledgeable and reliable handling of our compressors and filling devices. You will receive practical skills that allow you to expand your skills in terms of compression technology and air conditioning essential.

All participants will receive a certificate of participation. Participation in the trainings enables you to hold regular training of personnel in accordance with the provisions of the BG.

For questions about our training, please contact:

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Compressor Seminar

Max. 24 people, duration: approx. 7h

In this seminar, the basics of the following topics are covered in theory:

- >> Compressor technology
- >> Maintenance
- >> Troubleshooting
- >> Legal Notices
- >> Gas purification

Technology Seminar

Max. 8 people, duration: 2 days

This course is practical organized and the "Compressor Seminar" is required as basis knowledge.

It includes the following topics:

- >> Refreshment of the basic skills
- >> Specific troubleshooting of compressors
- >> Disassembling and assembling of a compressor block
- >> Implementing of a high pressure system
- >> Setting options on the compressor
- >> Repair of filling devices on compressor and filling panels





L&W - World Wide

Our worldwide network of agencies and service centers.



Compressors | Purification | Storage | Filling Panels | Nitrox/Trimix



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