



## The LW 100 series

One Concept - four Models



The LW 100 offers you even in areas with poor access the possibility for filling air tanks because of its ease of use - whenever and wherever you want.

Reliability, high delivery capacity and mobility - regardless of time and place.



**High Pressure Solutions from L&W!**

## One Concept - four Models

The LW 100 Series combines everything you would expect from a portable compressor like reliability, high delivery capacity and mobility. Available in four different versions for different applications. Breathing air performance for fire fighting and respiratory equipment, the filling of diving cylinders - regardless of time and place.

A versatile product brand „Made in Germany“.

## Overview of Models and Options

Specifications and Options	LW 100 ECO E	LW 100 ECO E1	LW100 ECO B	LW 100 E	LW 100 E1	LW100 B
1-Phase power		●			●	
3-Phase power	●			●		
Gasoline			●			●
Carrying handles	○	○	○	●	●	●
Additional filling hose	○	○	○	○	○	○
Automatic condensation drain	○	○		○	○	
Automatic stop and hours counter	○	○	○	○	○	○
Auto Start	○	○		○	○	
200/300 bar switch over device	○	○	○	○	○	○
Conversion set petrol/electric drive	○	○	○	○	○	○

● Standard ○ Optional

# The LW 100 series



### The heart

The heart of the LW 100 compressors is the block. Reliability, even under continuous operating conditions and extreme temperatures was paramount in the design and construction and in the choice of materials and components.

## L&W Pioneering Technology

L&W is the only high pressure compressor manufacturer to cast the cylinders and crankcase in one piece.

### Advantages:

- >> High degree of precision as all the cylinder and crankshaft bores are machined in one process
- >> No possibility of leaks between cylinders and crankcase, less gaskets
- >> Efficient heat dissipation and reduced deformation for less wear
- >> Replaceable cylinder sleeves



Hardened cylinder sleeves



All pistons with steel piston rings



Precision machined suction/pressure valves



Efficient cooling for extended filter life



Integrated filling hose

# Features and benefits



Automatic stop



Automatic condensation drain



200/300 bar switch over device



Hours counter



Conversion set petrol/electric drive

## LW 100 ECO

### Specifications

- » Electro motor / Petrol compressor c/w pull start and auto cut off at low oil level
- » Power cable with plug (E-version)
- » Start/Stop Switch (E-version)
- » Aluminium frame
- » Manual condensate drain
- » Pressure maintaining and non return valve
- » 1x Filling hose c/w filling valve and pressure gauge
- » Intermediate coolers
- » Oil- / Water separators after 2nd and 3rd stage
- » Safety valves after for each stage
- » Pistons c/w steel piston rings
- » Filling pressure to your choice (200 or 300 bar)
- » Connections to your choice (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- » Breathing air purification an accordance to EN 12021

### Options

- » Carrying handles
- » Filling valve holder
- » Additional filling hose c/w filling valve
- » Automatic condensate drain (LW 100 E ECO)
- » Automatic stop at final pressure c/w hour counter
- » Switch over device for 200 or 300 bar
- » Motor protection switch (E-version)
- » Special voltages / frequencies on request
- » Conversion set: Petrol-/electro version
- » Honda Motor (4.1 kW) instead of the Briggs & Stratton Motor (LW 100 B ECO)
- » Trolley

### Difference to the Standard-Model

- » Aluminium frame (except LW 100 B ECO)
- » No carrying handles
- » Unpainted compressor block
- » No filling valve holder



# LW 100 ECO

Technical Data	LW 100 E ECO	LW 100 E1 ECO	LW 100 B ECO
TType:	Air cooled piston compressor	Air cooled piston compressor	Air cooled piston compressor
Capacity [litre/min] / [Nm³/h] / [cfm]:	100 / 6 / 3.5	100 / 6 / 3.5	100 / 6 / 3.5
Max. Pressure [bar]:	330	330	330
RPM [1/min]:	2300	2300	2300
No of cylinders / No of stages:	3 / 3	3 / 3	3 / 3
Prime mover type:	E-Motor / 400V / 3 Phase / 50 Hz	E-Motor / 230V / single phase / 50Hz	4 stroke drive motor
Drive power [kW] with 50 Hz / 60 Hz:	2.2 / 2.5	2.2 / 2.2	4.5
Cooling air req. [m³/h] with 50 Hz / 60 Hz:	660 / 780	660 / 660	1350
Lubrication type:	Splash oil	Splash oil	Splash oil
Oil capacity [litre]:	0.5	0.5	0.5
Operating temperature [°C]:	+5°C to +45°C	+5°C to +45°C	+5°C to +45°C
Filter capacity [m³ at +20°C] <sup>1)</sup> :	108 (at +20°C / approx. 18 h)	108 (at +20°C / approx. 18 h)	86 (at +20°C / approx. 16h)
Dimensions W x D x H [mm]:	650 x 390 x 400	650 x 390 x 400	780 x 380 x 400
Weight [kg]:	39	42	39
Noise level (measured at 1 m) [dB(A)]:	82	82	96

<sup>1)</sup> In accordance with EN 12021

## LW 100 E

### Specifications

- » Electro motor (E-Motor / 400V / 3 Phase / 50 Hz)
- » Power cable with plug
- » Start/Stop Switch
- » Stainless steel frame
- » Manual condensate drain
- » Pressure maintaining and non return valve
- » 1x Filling hose c/w filling valve and pressure gauge
- » Intermediate coolers
- » Oil- / Water separators after 2nd and 3rd stage
- » Safety valves after for each stage
- » Pistons c/w steel piston rings
- » Filling pressure to your choice (200 or 300 bar)
- » Connections to your choice  
(DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- » Breathing air purification an accordance to EN 12021

### Options

- » Additional filling hose c/w filling valve
- » Automatic condensate drain
- » Automatic stop at final pressure c/w hour counter
- » Switch over device for 200 or 300 bar
- » Motor protection switch
- » Special voltages / frequencies on request
- » Conversion set: Petrol-/electro version
- » Trolley



# LW 100 E

Technical Data	LW 100 E
Type:	Air cooled piston compressor
Capacity [litre/min] / [Nm <sup>3</sup> /h] / [cfm]:	100 / 6 / 3.5
Max. Pressure [bar]:	330
RPM [1/min]:	2300
No of cylinders / No of stages:	3 / 3
Prime mover type:	E-Motor / 400V / 3 Phase / 50 Hz
Drive power [kW] with 50 Hz / 60 Hz:	2.2 / 2.5
Cooling air req. [m <sup>3</sup> /h] with 50 Hz / 60 Hz:	660 / 780
Lubrication type:	Splash oil
Oil capacity [litre]:	0.5
Operating temperature [°C]:	+5°C to +45°C
Filter capacity [m <sup>3</sup> at +20°C] <sup>1)</sup> :	108 (at +20°C / approx. 18 h)
Dimensions W x D x H [mm]:	650 x 390 x 400
Weight [kg]:	43
Noise level (measured at 1 m) [dB(A)]:	82

<sup>1)</sup> In accordance with EN 12021

## LW 100 E1

### Specifications

- » Elektroantrieb ((E-Motor / 230V / single phase / 50Hz)
- » Power cable with plug
- » Start/Stop Switch
- » Stainless steel frame
- » Manual condensate drain
- » Pressure maintaining and non return valve
- » 1x Filling hose c/w filling valve and pressure gauge
- » Intermediate coolers
- » Oil- / Water separators after 2nd and 3rd stage
- » Safety valves after for each stage
- » Pistons c/w steel piston rings
- » Filling pressure to your choice (200 or 300 bar)
- » Connections to your choice  
(DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- » Breathing air purification an accordance to EN 12021

### Options

- » Additional filling hose c/w filling valve
- » Automatic condensate drain
- » Automatic stop at final pressure c/w hour counter
- » Switch over device for 200 or 300 bar
- » Motor protection switch
- » Special voltages / frequencies on request
- » Conversion set: Petrol-/electro version
- » Trolley



# LW 100 E1

Technical Data	LW 100 E1
Type:	Air cooled piston compressor
Capacity [litre/min] / [Nm <sup>3</sup> /h] / [cfm]:	100 / 6 / 3.5
Max. Pressure [bar]:	330
RPM [1/min]:	2300
No of cylinders / No of stages:	3 / 3
Prime mover type:	E-Motor / 230V / single phase / 50Hz
Drive power [kW] with 50 Hz / 60 Hz:	2.2 / 2.2
Cooling air req. [m <sup>3</sup> /h] with 50 Hz / 60 Hz:	660 / 660
Lubrication type:	Splash oil
Oil capacity [litre]:	0.5
Operating temperature [°C]:	+5°C to +45°C
Filter capacity [m <sup>3</sup> at +20°C] <sup>1)</sup> :	108 (at +20°C / approx. 18 h)
Dimensions W x D x H [mm]:	650 x 390 x 400
Weight [kg]:	43
Noise level (measured at 1 m) [dB(A)]:	82

<sup>1)</sup> In accordance with EN 12021

## LW 100 B

### Specifications

- » Petrol compressor c/w pull start and auto cut off at low oil level
- » Stainless steel frame
- » Manual condensate drain
- » Pressure maintaining and non return valve
- » 1x Filling hose c/w filling valve and pressure gauge
- » Intermediate coolers
- » Oil- / Water separators after 2nd and 3rd stage
- » Safety valves after for each stage
- » Pistons c/w steel piston rings
- » Filling pressure to your choice (200 or 300 bar)
- » Connections to your choice  
(DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- » Breathing air purification an accordance to EN 12021

### Options

- » Additional filling hose c/w filling valve
- » Automatic stop at final pressure c/w hour counter
- » Switch over device for 200 or 300 bar
- » Conversion set: Petrol-/electro version
- » Honda Motor (4.1 kW) instead of the Briggs & Stratton Motor
- » Trolley



# LW 100 B

Technical Data	LW 100 B
Type:	Air cooled piston compressor
Capacity [litre/min] / [Nm <sup>3</sup> /h] / [cfm]:	100 / 6 / 3.5
Max. Pressure [bar]:	330
RPM [1/min]:	2300
No of cylinders / No of stages:	3 / 3
Prime mover type:	4 stroke drive motor
Drive power [kW]:	4.5
Cooling air requirement [m <sup>3</sup> /h]:	1350
Lubrication type:	Splash oil
Oil capacity [litre]:	0.5
Operating temperature [°C]:	+5°C to +45°C
Filter capacity [m <sup>3</sup> at +20°C] <sup>1)</sup> :	86 (at +20°C / approx. 16 h)
Dimensions W x D x H [mm]:	780 x 380 x 400
Weight [kg]:	43
Noise level (measured at 1 m) [dB(A)]:	96

<sup>1)</sup> In accordance with EN 12021



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