



# Liquid Pumping Station

LPS Version v1.1 (updated 20.06.2013)

For use with the flame projector GX2

## Manual

Distributed by:  
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# Manual

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## General:

The Liquid Pumping Station (short: LPS) is a pumping station, which is used to pump bioethanol with 10bar pressure into an EXPLO flame projector GX2.

## Operation steps:

- 1) Connect the Liquid Pumping station with the flame projector GX2 (use the liquid nozzle).
- 2) Connect the canister with the bioethanol to the Liquid Pumping Station. The device must be turned off.
- 3) Connect the LPS with the 230V power supply by using the main plug.
- 4) Turn on the power supply of the unit by pressing the ON/OFF-switch.
- 5) Activate the device by pressing the "Start" button.
- 6) Press the "Pump" button to suck in Bioethanol from the canister.
- 7) Do some flame shocks to get the air out of the pipes.
- 8) Vent the projector after operation

## Instructions:

- You can use either the internal 10L canister or connect an external canister (up to 20L). When using an external canister, it's necessary to use a strainer (a strainer is already in the 90° angle of the internal canister)
- The pump must never be enabled without an attached fuel canister.
- When the LPS is connected to the 230V power supply, the internal battery starts charging (even in the off state of the device)
- The LPS has an automatic shut-off. This is activated when the pump is pumping longer than 6 seconds (this is necessary in the case of broken hoses). To continue working with the LPS after an automatic shutdown, the power button must be switched off and on again.
- Flame shocks should not last more than 1 second in the ideal case.
- Never use more than one projector per LPS
- Flame projectors GX2 must always be vented after operation, since the seal of the solenoid valve could be damaged.

# EG-Conformity Declaration

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For the **Liquid Pumping Station LPS** it is hereby approved that it is in accordance with the main safety necessities, and further the guidelines of the council for the adjustment of regulations of the member nations concerning the electromagnetic compatibility (89/336/EWG) are being followed.

This declaration is valid for all Devices, made according to the following specifications.

For proving the device concerning the electromagnetic compatibility, the following norms have been taken.

<b>EN61000-4-2</b>	(ESD)
<b>EN61000-4-3</b>	(radiated in HF-Field)
<b>EN61000-4-4</b>	(Burst)
<b>EN61000-4-6</b>	(inverted. HF-Voltage)
<b>EN55022</b>	KI. B

## Test norms:

<b>EN50081-1</b>	Main norm - Emitted interference (01.1992)
<b>EN61000-6-2</b>	Main norm - Interference resistance (04.1999)

This declaration, responsible by the manufacturer

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Klagenfurt, on the 24.05.2013

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EMV  
Dipl. Ing. Harald Suschnig GmbH  
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# Conformity Declarations

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For the **Liquid Pumping Station** it is hereby approved that it is in accordance with the main necessities of the ÖNORM M 7443 Part 3: 1989-05.



The device has been tested for its electromagnetic compatibility and is in accordance with the CE-Norms.



The Liquid Pumping Station is in accordance with DIN EN 61140 (**VDE 0140-1**) **Safety class I**.

## Function description

The Liquid Pumping Station LPS is used to pump bioethanol (with 10bar pressure) through an Explo gas projector GX2.

## Mechanical Measurements

(Measurements in mm)

Width: 305

Depth: 305

Height: 330

Mass: 15.4 kg

Pressure: 10bar

Power supply: 230/100VAC, 278W

Internal power supply: Lead acid battery 12VDC

This declaration accounts for all devices, manufactured under these specifications.

This declaration, responsible by the manufacturer

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