

# **MICRO-NANOBUBBLE /Ultra-Fine-Bubble GENERATOR LEX50 Operation Manual**



LIVING ENERGIES & Co.

# 1. Before Operation

## Caution

Avoid any possible out gassing substance near the machine in case of using ambient air to produce Micro-Nano Bubbles.

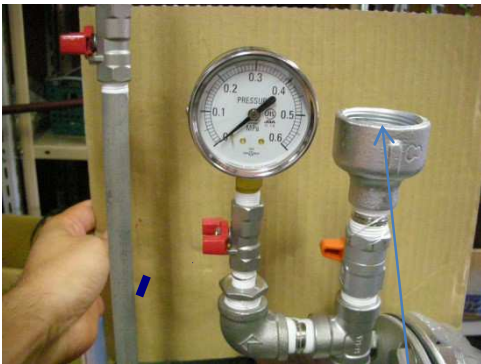
The ambient air could be polluted and the water also could be polluted as the result.

The generator is precision machinery to produce Micro-Nano Bubbles.  
Avoid rough handling, placing things on the machine, stepping on it etc.

Please make sure that the machine, tank and piping are filled with water and inlet/outlet valves are fully open.

**※Do not operate the machine without water filled!**  
**The pump could be damaged.**

## 2. Parts



Primal pressure gauge  
Input adjustment valve

Secondary pressure gauge  
Air flow meter  
Auto air release valve  
Air inlet valve

Adding water to fill the pump with water



Head drain valve

Output flow adjustment valve



Dust catcher



Switch

### 3. Operation and adjustment procedure

#### Re

#### -Confirm below

- The system is filled with water
- Inlet/Outlet valves are fully open

#### A. Preparation run

1 . Run the machine with input adjustment and output flow adjustment valves fully open for 10-15 minutes.

**\* This is to get rid of any excess debris in the system.**



- 2 . Make sure the pump is turning clockwise.
- 3 . Make sure there are no water leak.

## B. Adjustment procedure

### 4 . Set input adjustment valve to where indicated by red line.



Then adjust output flow adjustment valve so that primal and secondly pressure at 0.32 MPa.



### 5 . Adjust the air flow rate at indicated level

Close the valve first then slowly open to set the rate at desired level (between 1 L/min and 3 L/min).

**\*The fine adjustment can be made at the site as the best adjustment pressure, flow rate etc. may vary.**

## ONE-YEAR WARRANTY

Product name: Micro-Nanobubble Generater

Model No.:LEX50 Serial No.:HxxxxxxxxW Purchase

Date:

We warrant this product against defect or malfunctions for one year from the date of original purchase by you. Your remedies under this warranty will be available so long as you show in a reasonable manner that any defect or malfunctions occurred within one year from the date of your original purchase. Any such defect or malfunctions which occurred within one year from your original purchase date will either be repaired without charge or be replaced with a new product.

This warranty does NOT apply in the following circumstances:(1)when the product has been serviced or repaired by anyone other than us;(2)when the product has been installed, altered, adjusted, or handled in a manner other than according to the instructions furnished with the product:(3)when any defect, problem, loss, or damages has resulted from any accident, misuse, negligence, or carelessness, or from any failure to provide reasonable and necessary maintenance in accordance with the instructions of the manual for the product.

We reserve the rights to make changes or improvements in our products from time to time without incurring the obligation to install such improvements or changes on equipment or items previously manufactured.

( CONTACT )

LIVINGENERGIES & Co.

113-7 kaminagakubo, Nagaizumi-cho, Suntou-gun, Shizuoka, 411-0935 JAPAN

EMAIL:takahashikojiufb@gmail.com

URL: <https://livingenergies.jimdo.com>

TEL+81 - 055-956-3384 FAX +81 - 055-988-5929