

## Nano-Silver Water Purifier, Brand: Lan Shan,



### Features:

MODEL NO: LSWP-401-N

- 4 Stages Filtration Systems.
- Recommended Flow : 2 Gallon Per Minute
- Heavy duty steel with powder coating white bracket
- Feed water connector or self piercing saddle valve.
- Completely Assembled
- 100% Factory Tested and Sterilized Ready for Installation.
- Long reach ceramic goose faucet.
- Installation Accessories are included.
- Operation pressure: 15 -85 PSI.

### Filtration Process:

#### **First Stage: 10 Inch Sediment Filter:**

The Sediment filter cartridge is manufactured from pure 100% polypropylene fibers. The fibers have been carefully spun together to form a true gradient density from outer to inner surfaces. It is effective in removing dust, mud, rust and sand particles.

#### **Second Stage: Granular Activated Carbon Filter:**

This granular activated carbon filter is composed of high-performance activated carbon that effectively reduces unwanted tastes, odor, organic contaminants, chlorine, pesticides and chemicals that contributed to taste and odor. It is designed to allow maximum contact between the water and carbon, ensuring maximum adsorption

#### **Third Stage: Block Carbon Filter:**

This block carbon filter is composed of high-performance Coconut Shell carbon using a patented process and made entirely from FDA-compliant materials that highly effective at reducing 17 hazardous metals: such as lead, radon, mercury, insecticides, odor and chlorine: taste & odor, from potable drinking water. The unique structure of the carbon block enables it to reduce Giardia, Cryptosporidium, amoeba, and Toxoplasma cysts and fine sediment particles down to 0.5 microns.

It is ideal choice for a wide range of residential, food service, commercial and industrial applications.

**Fourth Stage: Nano Silver Activated Carbon:**

**NANO SILVER ACTIVATED CARBON**  
( Small T Filtering Core )

**FUNCTION**

- **Inhibit Viruses**
- **Purify Water**
- **Kill Bacteria**

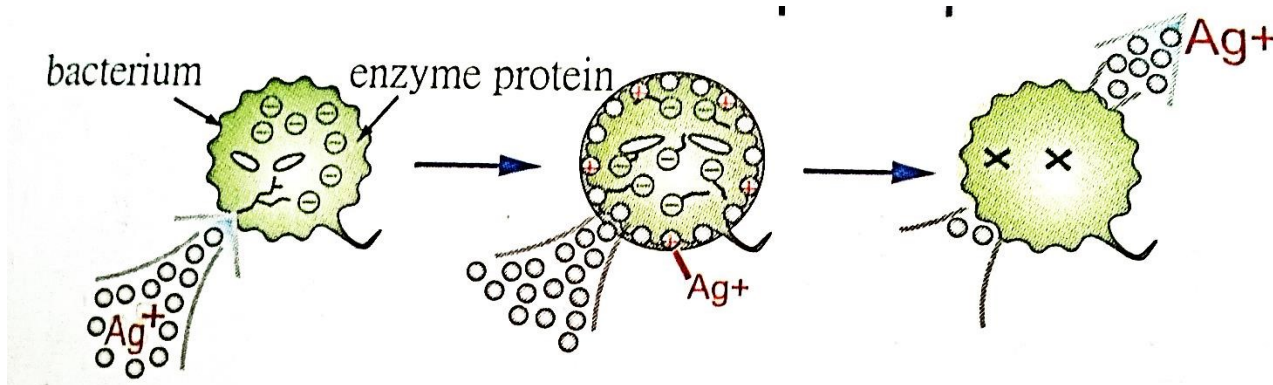
Through the hi-tech nano-technology, the activity of silver ion is enhanced. After the activated carbon combining with nano-silver ions, its absorption capability on organic polymers is increased several times and disinfection efficiency is enhanced more than 2000 times comparing to the result from the silver added and silver impregnated carbons and several ten-times better than the chlorine effect in the tap water.



**Max. Flow: 75 GPM, Max. Pressure: 125PSI, Service Life: 2000 GAL**

*Absorb the residues of agricultural and chemicals elements. Inhibit the growth of bacteria more than 650 kinds. It is more efficient and more reliable than Ultraviolet (UV) Technology.*

*a-king nano-silver activated carbon sterilization principle..*



*Nano silver particles can penetrate bacteria cell walls easily*

*After being nanosized, the silver ion will be activated and thus carries positive charge, It can adsorb the microorganism with negative charge. Then, the activated silver ion can effectively break through the cell wall and the cell membrane of the microorganism*

*Silver ion will penetrate and warp over bacteria*

*The puncture causes deformation of the structure of protein enzyme in microorganism cells, which leads to the slowdown of its metabolism, and eventually suffocation to death.*

*When bacterium breaks and dies, the silver ion will float out the cell*

*Most significantly, activated silver ion will be released from dead microorganism after the microorganism was killed by silver ion. The action will be repeated until all living microorganism is exterminated. That proves Nano Silver has a long-term anti-microbial effect.*

### SGS Test report for bacteria inhibition and elimination

Sample Number	Test Item	Unit	Before Processing	After Processing
PXB004301~02	Coliform	CFU/100ml	$2.8 \times 10^3$	<1
PXB004303~04	Coliform	CFU/100ml	$1.6 \times 10^3$	<1
PXC009901~02	Coliform	CFU/100ml	$3.7 \times 10^3$	<1

### SGS Test report for organic chloride pesticide

Test Item	Unit	Before Processing	After Processing	Elimination Ratio
Lindane	mg/L	0.0719	ND<0.00003	>99.9%
Heptachlor	mg/L	0.0135	ND<0.00003	>99.8%
Aldrin	mg/L	0.00904	ND<0.00008	>99.1%
Endosul fan	mg/L	0.0376	ND<0.00003	>99.9%
Dieldrin	mg/L	0.0258	ND<0.00003	>99.9%
Endrin	mg/L	0.0252	ND<0.00004	>99.8%
O, p' - DDT	mg/L	0.00821	ND<0.00003	>99.6%

### SGS Test report for organic phosphorus pesticide

Test Item	Unit	Before Processing	After Processing	Elimination Ratio
Monocrotophos	mg/L	0.0324	ND<0.0017	>94.8%
Diazinon	mg/L	0.0464	ND<0.0010	>94.8%
Parathion	mg/L	0.0544	ND<0.0013	>97.6%
EPN	mg/L	0.0184	ND<0.0010	>94.6%
Methamidophos	mg/L	0.0448	ND<0.0022	>95.1%
Methomyl	mg/L	0.0512	ND<0.0031	>93.9%
Carbofuran	mg/L	0.0924	ND<0.0035	>96.2%
Isorocarb	mg/L	0.1021	ND<0.0026	>97.5%

### SGS Test report for chemical elements

Test Item	Before Processing	After Processing	Test Method	Drinking Water Rule
Total Residual Chlorine	0.34 (mg/L)	0.01 (mg/L)	—	—
Free Available Residual Chlorine	2.0 (mg/L)	ND<0.41 (mg/L)	NIEA W 408.50A	0.2 – 1.5 (mg/L)
Combined Available Residual Chlorine	0.5 (mg/L)	ND<0.41 (mg/L)	NIEA W 408.50A	>1.0 (mg/L)

### SGS Test report for chemical elements

Test Item	Unit	Before Processing	After Processing	Elimination Ratio
Anionic Surface-Active Agent	mg/L	5.24	0.06	98.9%
Chlorine	mg/L	279	0.7	99.5%
Fluoride	mg/L	5.17	0.09	98.3%
Nitrate	mg/L	5.06	0.27	94.7%
Ammonia Nitrogen	mg/L	1.31	0.02	98.5%
Odor	T.O.N	64	<1	>98.4%
Cyanide	mg/L	0.298	ND<0.003	>99.0%