



™Broody.net

Assembly and operating instructions for mini greenhouses Sezam XL

Made in Ukraine
2020

Assembly and operating instructions for mini greenhouses Sezam XL



1.0. Description of the mini greenhouse Sezam XL.

Mini-greenhouse Broody Sezam XL is designed for growing house plants, seedlings, flowers in a city apartment. The system of built-in Phyto-lamps is designed to increase the intensity of illumination of plants in conditions of lack of sunlight, such as a shaded room, northern latitudes of the globe, winter season, etc. Sezam Phyto lamps have a spectrum similar to that of sunlight and can be used both for growing microgreens and seedlings, and for caring for mature plants. Sezam XL luminaires are powered by 5V, which makes the system safe for people and pets.

The Sezam XL mini greenhouse has a dismountable structure, consisting of an aluminum frame and an outer cover made of flexible glass silicone film. The outer transparent cover is designed to create a microclimate inside the system, as well as protect it from wind and low temperatures.

How it works

The potted plants are placed on shelves inside the greenhouse. Built-in phyto-lights increase the luminous flux intensity and have a beneficial effect on plant development. The outer transparent cover protects plants from wind and drafts. The greenhouse creates a stable microclimate that promotes healthy plant growth. Sezam XL mini-greenhouse is designed for installation on balconies, loggias, terraces, as well as inside residential premises.







Sezam XL Equipment

The standard mini greenhouses Sezam XL includes:

- A set of tubes and fittings for assembling the frame
- Transparent case crystal - 1 piece
- Tubular LED lamp - 3 pcs.
- Power adapter 5V 3A - 1pc (optional)
- USB / 2PIN cable 70 cm - 1 piece (For Phyto light connection)
- USB / micro cable 1m - 1 piece (for connecting to a 110-220v power supply)
- Steel mesh rack element - 3 pcs.
- Instructions for the operation of the mini-house
- Warranty card TM Broody

1. Use only the original wire and power supply that comes with this device
2. Place the humidity sensor away from the nozzles so that no water gets on the sensor

Parts list for frame assembly

#	Item name	Appearance	Quantity, pcs	Designation
1	Tube length 745 mm		4	EL-4
2	Tube length 710 mm		4	EL-5
3	Tube length 600 mm		8	EL-6
4	Tube length 600 mm		9	EL-3
5	Lamp		3	EL-1
6	Elbow fitting		4	EL-2

Assembly kit

Element EL-1
(Lamp)



Element EL-2
corner connection



Element EL-3
(tube - 600mm)



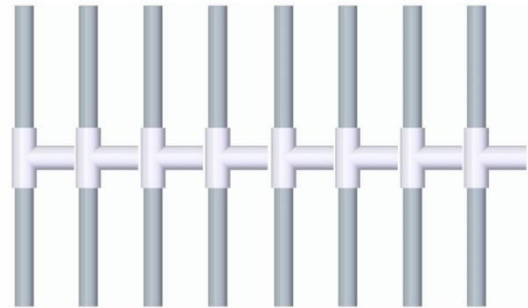
Element EL-4
(tube - 745mm)



Element EL-5
(tube - 710mm)



Element EL-6
(tube - 600mm)



Assembling the SB-1 chassis supports

Take the frame element EL-5 and connect it to the frame element EL-4, as shown in Fig. 1 (similarly assemble all elements EL-5 and EL-4)

SB-1 element assembly (4 pieces)

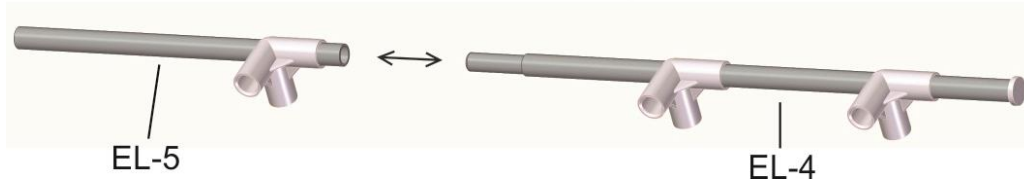
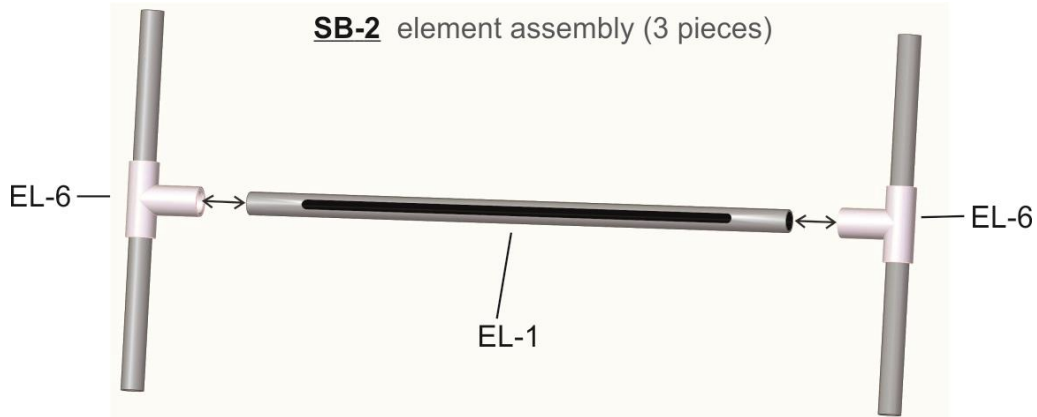


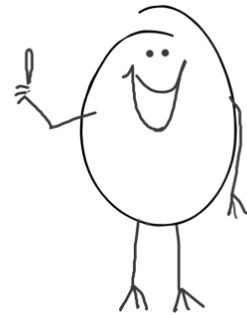
Figure:1

Assembly of floor structures SB-2



Take two elements of the EL-6 frame and connect it to the EL-1 frame element (phytolamp), as shown in Fig. 2 (similarly assemble all SB-2 structures)

Figure.2



Assembling the structure of the lower floor SB-3

SB-3 element assembly (1 piece)

Take two EL-6 framing elements and connect it to EL-3 framing element as shown in fig. 3

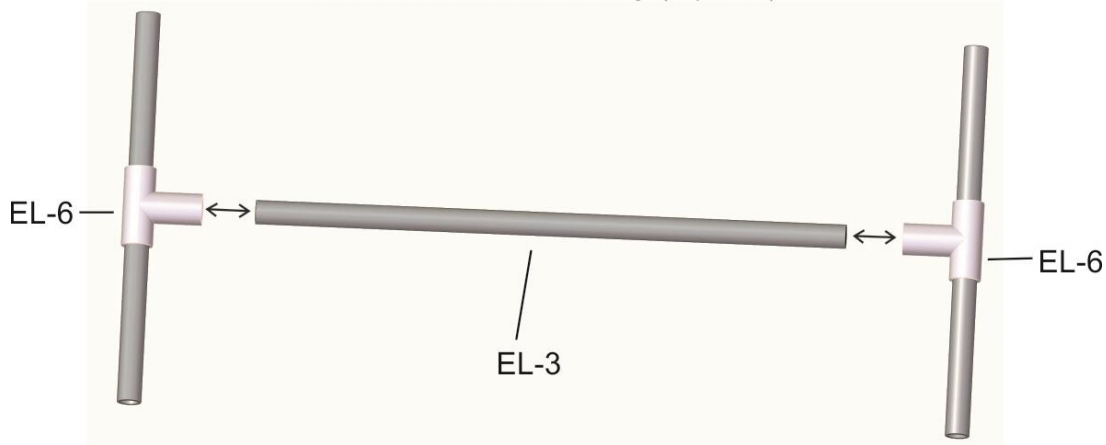


fig.3

Assembling the side parts of the SB-4

SB-4 element assembly (2 pieces)

Take the EL-2 connecting fittings and two SB-1 constructions and connect them all to the 4 EL-3 frame elements, as shown in fig. 4

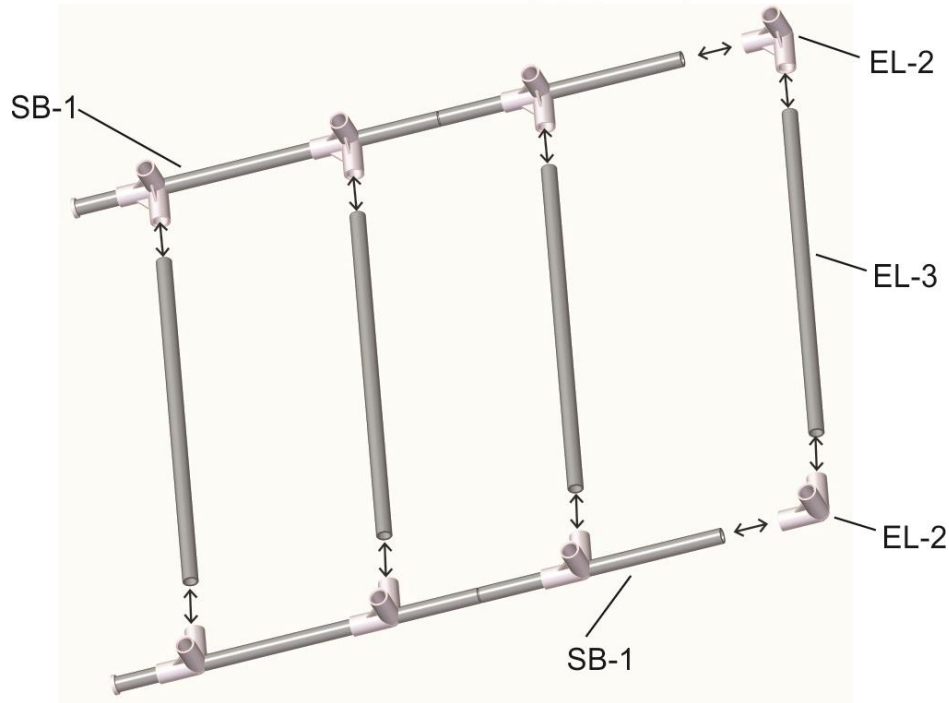
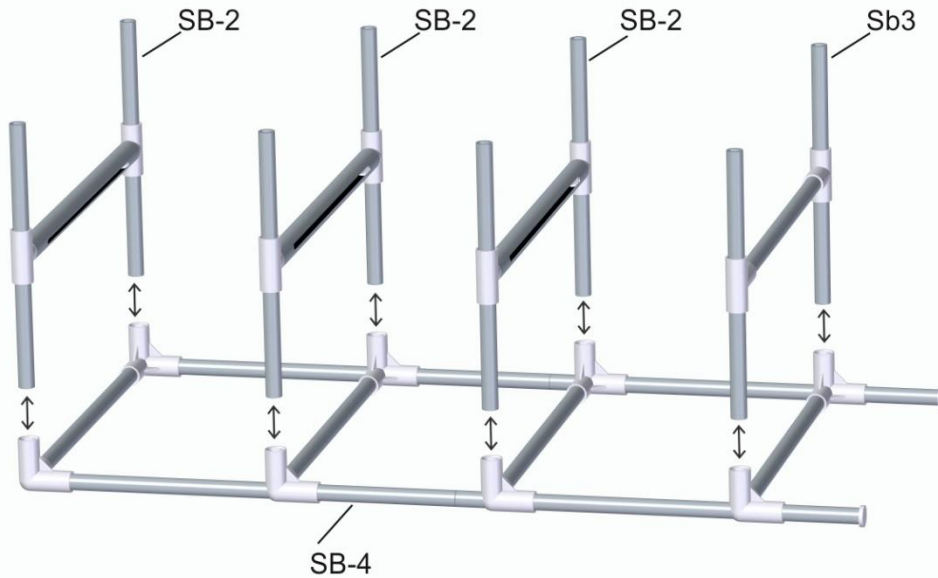


fig.4

Assembling the SB-5 structure

SB-5 element assembly (1 piece)

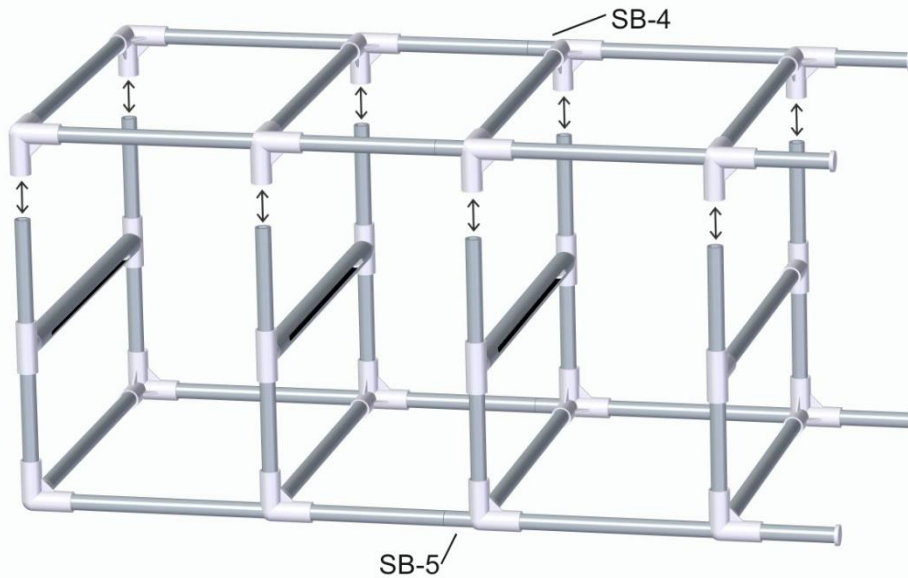


Take three SB-2 structures, one SB-3 structure and connect them all to the SB-4 structure as shown in fig. 5

fig.5

Assembling the final SB-6

Final assembly



Take the previous SB-5 structure and connect it to the SB-4 structure as shown in fig. 6

fig.6



** The frame of the mini-greenhouse is ready ☺

Technical characteristics of mini greenhouses Sezam XL

Mains voltage	110-220v
Supply voltage lamps	12 v
Lamp power	20,7W (3x6,9W)
Luminaire spectrum	Full Spectrum
Number of LEDs (Samsung LM301B)	3*20
Number of additional LEDs (optional)	3*4
Photosynthetic active radiation (PAR)*	3*106 $\mu\text{Mol}/\text{m}^2/\text{s}$
Illuminance*	3*7188 Lx
Luminous flux (Φ_v)	3*1517 Lm
Luminous performance	220 Lm/W
Infrared rejection (IRR)*	22,57 W/m ²
Color rendering index CRI (Ra)	85,66%
Correlated color temperature (CCT)	3317 K
Assembled mini greenhouse size	144*64*34 cm
Weight, without box	5,7 kg
Packing size	47*76*10 cm
Weight of packing	6.0 kg

** when used at a height of 7,87"inch from lamp to plant.*