



Cena bez DPH	3.636,00 Eur
Price with VAT	4.399,56 Eur

Parameters

Subject	Biomass
Quantitative unit	ks

The extensive experiment system leXsolar-BioEnergy Ready-to-go enables you to reconstruct and understand the whole biomass cycle without any additional equipment.

A cultivation box and hydroculture allow the observation of the sprouting and growth of plants. Thereby the water and nutrient consumption can be analyzed in the different growth phases. Different experiments then show the aerobic as well as the anaerobic degradation of the biomass in a compost or biogas processes. Thus allows the exploration of the energetic use of biomass.

Experiments:

- germination of plant seeds
- plant growth in a hydroculture
- consumption of water and nutrients
- aerobic degradation of biomass in a compost
- anaerobic degradation of biomass to form hydrogen
- anaerobic degradation of biomass to form methane

Components:

- 1x 1100-27 Motor module without gear
- 1x 1218-02 PEM-Fuel cell module
- 1x 1602-01 leXsolar-Base unit small
- 2x 1700-05 expanded clay pebbles
- 1x 1700-06 fertilizer
- 1x 1700-07 compost catalyst
- 1x 1700-08 composter
- 1x 1700-09 gas collecting container
- 1x 1700-10 burner
- 1x 1700-11 tripod plant lighting
- 1x 1700-12 sprout box
- 1x 1700-13 box 6 L
- 1x 1700-14 tripod
- 1x 1700-15 seed set
- 1x 1700-16 rubber plug with tube
- 1x 1700-17 ID tags
- 1x 1710-01 aluminum case 1710 silver
- 1x 1710-02 aluminum case 1710 blue
- 2x L2-01-120 pot holder BioEnergy
- 1x L2-02-017 Propeller
- 1,5x L2-02-046 silicone tube 4mm
- 1x L2-02-083 Y-switch 4mm
- 2x L2-04-194 plant light
- 1x L2-05-141 hose clamp
- 1x L2-06-012 Test lead black 25 cm
- 1x L2-06-013 Test lead red 25 cm
- 2x L2-06-033 Short-circuit plug
- 1x L2-06-075 Erlenmeyer flask 1000 ml
- 2x L2-06-185 timer
- 1x L2-06-186 Luftpumpe
- 2x L2-06-187 aeration stone
- 50x L2-06-188 net cup planter
- 1x L2-06-189 ec meter
- 1x L2-06-190 temperature logger
- 1x L2-06-191 weight
- 1x L2-06-192 tweezers
- 24x L2-06-199 stopper red
- 1x L2-06-200 nebulizer
- 2x L3-01-012 plastic box Gratnells 75 mm deep
- 1x L3-01-210 Insert BioEnergy Rtg 1710
- 2x L3-03-258 Info sheet initial startup
- 1x L3-03-274 Layout diagram 1710 BioEnergy Ready-to-go