



BSX-ASL Technical Brochure

BsxAsl
ARTIFICIAL SUN LIGHT

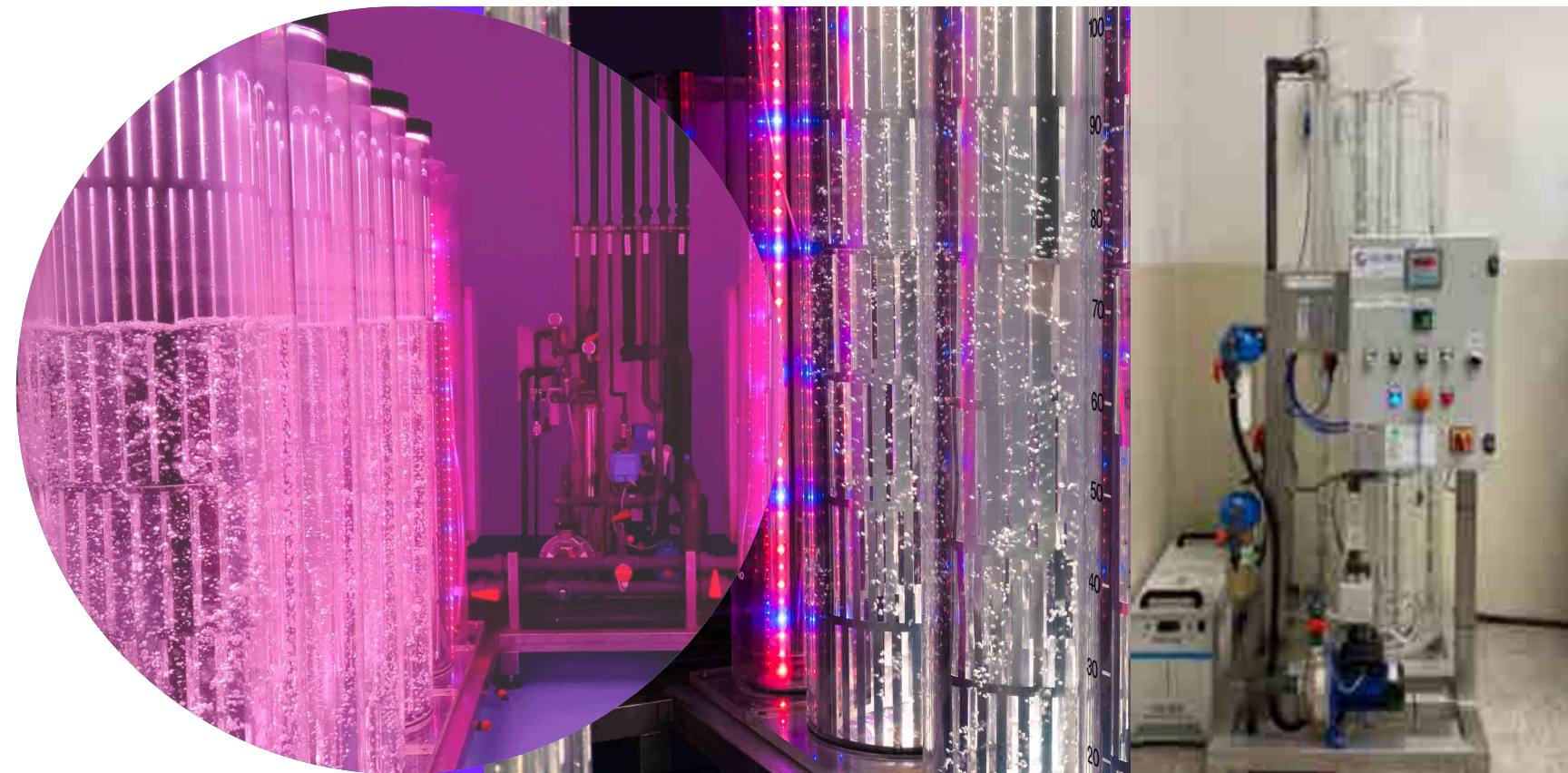
BioSyntex
MICROALGAE FOR A GREEN ECONOMY.

BSX-ASL: some examples

BSX-ASL anular columns

Main Characteristics

Column's height	2 to 3	m
N. Columns	customizable	
Outer Column's Diameter	0.3-0.5	m
Inner Columns Diameter	0.2-0.4	m
Single Column's Volume	60-240	L
Installation	Indoor / Outdoor	
Mixing	Air bubbling + circulation pump	
Cooling/Heating	Plate heat exchanger or internal serpentine	
Max. PPF «Cover LED»	978	umol/sec



BSX-ASL 1200 - 1200 L PBR

BSX-ASL 120 - 120 L PBR

Customizable light spectra



Customizable spectra allows the cultivation of different algae strains and stimulate the production of high-value bioactive molecules

BSX-ASL Annular columns performance (indoor)

Strain	Average Volumetric Productivity (g/L d)	Average PPFD (umol/m ² sec.)
<i>A.Platensis</i> (spirulina)	0,35	300
<i>Chlorella</i> sp.	0,35	300
<i>Scenedesmus</i> sp.	0,25	300
<i>Phaeodactylum tricorutum</i>	0,22	160
<i>Haematococcus pluvialis</i> (Green Phase)	0,12	150
<i>Dunaliella salina</i> (Green Phase)	0,13	150
<i>T-isochrysis lutea</i>	0,22	246

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