

Architectural plan of the Biotunnel system, showing five parallel tunnels (BIOTUNNEL N°1 to N°5) and associated components.

Key Components and Labels:

- Quadro di comando biotunnel** (Biotunnel control panel) n°1 to n°5.
- VENT.01** to **VENT.05** (Ventilators) with flow rates: $Q=15000\text{mc/h}$, $H=4850\text{Pascal}$.
- Plenum n°1** to **Plenum n°5**.
- Canali di ispezione** (Inspection channels).
- Spartito ugelli di aerazione** (Nozzle distribution).
- Serranda di regolazione motorizzata SR4** (Motorized regulation shutter SR4).
- N°2 griglie di ripresa aria ambiente 1200x200mm** (No. 2 ambient air intake grilles 1200x200mm).
- Serranda di regolazione motorizzata SR3** (Motorized regulation shutter SR3).
- Ripresa aria biocelle e Riciclate di biomoduli** (Air intake from biocells and recycling of biomodules).
- Collettore di collegamento alla rete di ripresa degli scrubber** (Collector for connection to the scrubber intake network).
- Ripresa aria biocella mandata ai nuovi scrubber - #700mm** (Air intake from biocell sent to new scrubbers - #700mm).
- POR.BIO.01** to **POR.BIO.05** (Ports).
- Pianta Biocella** (Biocell plant) for:
 - Pianta copertura linea aia (Covering line aia plant).
 - Distribuzione ugelli ricircolo percolato (Distribution of nozzles for percolate recirculation).
 - Spartito ugelli di aerazione (Nozzle distribution for aeration).
 - Distribuzione biomoduli (Distribution of biomodules).
- Pozzetto prefabbricato in cls 80x80 cm** (Prefabricated concrete manhole 80x80 cm).

Dimensions and Flow Rates:

- Tunnel widths: 6.50, 0.30, 1.54, 1.54, 1.81, 0.30.
- Flow rates: $Q=15000\text{mc/h}$, $H=4850\text{Pascal}$.

Orientation: North arrow pointing up (A) and a reference arrow pointing left (B).

Technical cross-section drawing of a five-bay biotunnel structure. The drawing shows the internal layout of the bays, including the floor, walls, and roof. Key components labeled include:

- BIOTUNNEL N° 1
- BIOTUNNEL N° 2
- BIOTUNNEL N° 3
- BIOTUNNEL N° 4
- BIOTUNNEL N° 5
- Bicoelle: Trattamento pareti interne, isola di copertura ed estradasso fondazione con EPOSSICATFRAME
- Pacchetto biomoduli
- Massetto di pendenza in CLS armato e levigato sp 3-23 cm
- Telo HDPE sp=1,0 mm
- Magrone 10 cm

Dimensions are provided for various sections: 6.50, 0.30, 34.30, and 0.30. A vertical dimension of 5.40 is shown on the left side.

The image contains two technical drawings of the Biomodulo system.

Left Drawing (Plan View): Shows a grid of square modules. Dimensions include a total width of 55.3, a module width of 35.3, and a spacing of 10. A central vertical dimension of 47 is also indicated. Blue circles represent the air outlet holes.

Right Drawing (Cross-section View): Shows the vertical profile of the system. Key components and dimensions include:

- BIOMODULO:** The main vertical structure with a height of 27.
- Foro uscita aria:** The air outlet hole at the top of the biomodulo.
- PLOTTA FORATA IN PE 500 RIGENERATO:** A perforated polyethylene plate with a thickness of 10, located above the biomodulo.
- ANGOLARE AD "L" 50X30X5:** An L-shaped corner bracket with a height of 55, used to secure the plate.
- Getto di completamento in cls armato con rete di ripartizione elettrosaldata maglia 20x20cm:** A concrete pour with a 20x20cm welded wire mesh, shown as a hatched area.
- 47:** The height of the concrete pour above the biomodulo.

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