

BIOSUBSTRATOR[®]

THE HEIGHT ADJUSTABLE FERMENTER AGITATOR
FROM THE STIRRING PROFESSIONALS

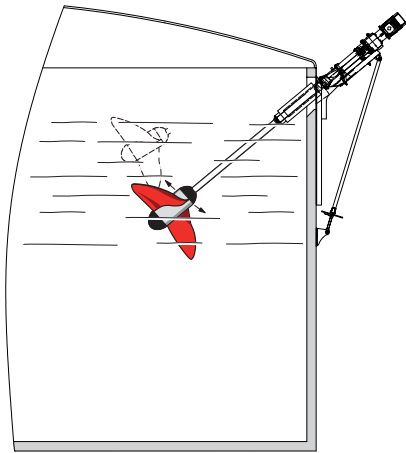
APPLICATION RANGE: THE BIOSUBSTRATOR[®] CAN BE INSTALLED IN FERMENTERS OF DIFFERENT SHAPE AND SIZE WITH VIRTUALLY CONSTANT LIQUID LEVELS: CONCRETE CONTAINERS WITH GAS-HOOD OR CONCRETE COVER, RING IN RING FERMENTERS AND OTHERS SUITABLE FOR SUBSTRATES WITH HIGH DRY SUBSTANCE CONCENTRATIONS.

CONSTANTLY HIGH AND ADJUSTABLE STIRRING PERFORMANCE: GREAT HYDRAULIC THRUST WHICH CAN BE ADAPTED TO THE BIOLOGICAL CONDITION OF THE SUBSTRATE / MIXING TASK BY MEANS OF A HEIGHT ADJUSTMENT. UNHINDERED SUBSTRATE INFLOW, NO SHADOWING EFFECT FROM INTERFERING FIXTURES. THE LARGE DIAMETER OF THE PROPELLER HUB AND -BLADE VIRTUALLY ELIMINATES THE BUILD-UP OF LAYERS ETC. IN THIS CRITICAL AREA.

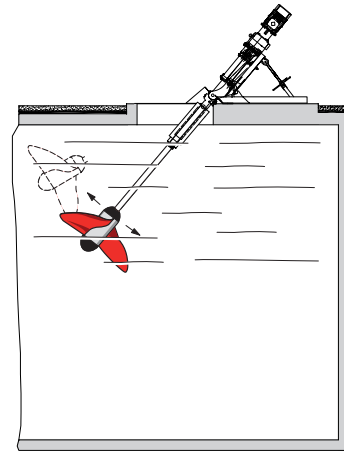
LOW ENERGY CONSUMPTION: HIGH CIRCULATION POWER AND OUTSTANDING EFFICIENCY DUE TO THE LARGE DIAMETER OF THE PROPELLER AND A VERY SLOW ROTATIONAL SPEED.

SERVICEABILITY: IMPORTANT WEAR PARTS ARE OUTSIDE THE FERMENTER AND THUS FREELY ACCESSIBLE FOR MAINTENANCE AND SERVICE WORK, NO REGULAR OPENING OF THE TANK COVER. CONTACTLESS, WEAR-FREE SEALING BETWEEN STIRRING SHAFT AND SIDE WALL.

RELIABILITY / LIFE TIME: THE BIOSUBSTRATOR[®] FEATURES A VERY ROBUST BEARING BRACKET WITH GREASE LUBRICATED BEARINGS (EASILY ACCESSIBLE GREASE FITTINGS) AND AN AMPLY DIMENSIONED, EXTERNAL STEEL STRUCTURE. VIBRATION DAMPERS AT THE HINGE POINTS ABSORB OSCILLATION PEAKS AND ADD TO THE LONG-LIFE CYCLE OF THE AGITATOR.



streisal Biosubstrator® for fermenters with gas-hood



streisal Biosubstrator® for fermenters with concrete cover

TECHNICAL DATA:

Nominal Power [KW]	Nominal Voltage [V]	Nominal Frequency [Hz]	Nominal Current [A]	Nominal Speed [U/min]	Protection Class Motor	Circulation Power ^{*)} [m ³ /h]	Thrust [N] ^{**)}
11	400	50	approx. 23	approx. 54	IP 54	approx. 6.600	approx. 6.000

*) Circulation power in water, determined for comparative purposes

DIMENSIONS AND WEIGHTS:

DIAMETER OF PROPELLER: 1.500 mm
 REQUIRED WALL OPENING: SHAFT LINING 600 X 600 mm OR 500 mm DIAMETER
 REQUIRED FLOOR OPENING FOR EXTRACTION OF STIRRING SHAFT: 1.500 X 1.200 mm
 TOTAL WEIGHT: APPROX. 1.100-1.500 Kg DEPENDING ON REALIZATION

MATERIALS:

STIRRING SHAFT: SOLID, HIGH-STRENGTH STEEL WITH ACID-RESISTANT PROTECTIVE LAYER
 PARTS IN THE MIXED ZONE GAS/MANURE: STAINLESS STEEL 1.4571 / AISI 316TI (V4A)
 PARTS OUTSIDE OF TANK: STEEL ZINC-PROTECTED OR PAINTED / COATED
 PROPELLER (Ø 1.500 mm): STAINLESS STEEL 1.4301 / AISI 304 (V2A)

ACOUSTIC EMISSION:

56^{+/-5} dB(A) OR 48^{+/-5} dB(A) WITH SILENCED GEAR BOX (OPTIONAL EXTRA)
 IN 10 m DISTANCE DEPENDING ON LOCALITY

SAFETY:

EXPLOSIVE ATMOSPHERES PROTECTION ACCORDING ATEX II 2 G (ZONE 1 AND 2)
 FREQUENCY CONVERTER WITH PARAMETERIZED SECURITY SOFTWARE (TORQUE LIMITATION, ETC.).

(Technical changes, errors and omissions excepted)

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