



TECPRO ENERGY SYSTEMS

PROFLEX[®]

AERATION

Products for Waste Water Treatment



- *Tube Diffuser*
- *Disc Diffuser*
- *Membrane Sleeves*
- *MBBR Media*
- *Tube Settler*



ETHYLENE PROPYLENE DIENE MONOMER(EPDM)

SILICON



PROFLEX - FINE BUBBLE MEMBRANE TUBE DIFFUSER - SPECIFICATION.

S.No	SIZE	TYPE	MEMBRANE	DESIGN FLOW	CONNECTION	SUPOORT DISC	RETAINING CLAMP
1	90mmx1000mm	TUBULER	EPDM & SILICON	5M ³ /hr- 12M ³ /hr	1"NPT FEMALE	OPEN END DESIGN ONE PIECE MOULDED PVC	STAINLESS STEEL AISI-304
2	63mmx1000mm	TUBULER	EPDM & SILICON	3M ³ /hr- 9M ³ /hr	3/4"NPT FEMALE	OPEN END DESIGN ONE PIECE MOULDED PVC	STAINLESS STEEL AISI-304
3	63mmx610mm	TUBULER	EPDM & SILICON	2M ³ /hr- 5.5M ³ /hr	3/4"NPT FEMALE	OPEN END DESIGN ONE PIECE MOULDED PVC	STAINLESS STEEL AISI-304

ETHYLENE PROPYLENE DIENE MONOMER(EPDM)

SILICON

FEATURES:

- Highest quality EPDM rubber ■ Diffusers are factory assembled for easy installation.
- Unique fixing arrangement significantly reduces installation time. ■ Suitable for off/on applications
- High oxygen transfer ■ Energy saving due to intermittent aeration and high oxygen input
- Perfect design and long lifetime, hence Low maintenance
- Any diffuser length is available to suit application



MEMBRANE MATERIAL

- EPDM, Silicone, and others upon request

SIZES

- Membrane lengths from 250 MM TO 1000 MM

APPLICATIONS

- Municipal waste water treatment plants
- Industrial waste water treatment plants
- Aqua Culture
- Drinking water aeration



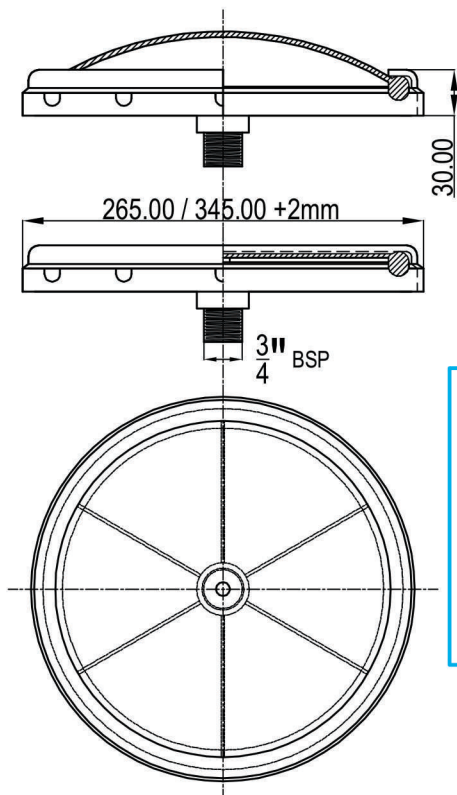


PROFLEX[®]

FINE BUBBLE PROFLEX MEMBRANE DISC DIFFUSER

Fine Bubble PROFLEX membrane DISC diffusers are compression moulded and made with less than 10% extractable oils to ensure exceptional quality, strength and longer product life. The base and retaining ring are designed to seal tightly and made of polypropylene having properties of higher temperature resistance and greater ductility.

The membrane has an integral O-ring seal which is tightly compressed by the retaining ring keeps water out and air inside. PROFLEX disc diffusers are precisely engineered to suit the specifications of various clients and offer a perfect balance of high oxygen transfer and modest headloss with small bubble size. Our membranes are of standard sizes and priced competitively.



DISC DIFFUSER

FINE BUBBLE PROFLEX MEMBRANE DISC DIFFUSER - SPECIFICATION

S.No	DESCRIPTION	TPE-225	TPE-300
1	Rubber membrane material	EPDM/Silicon	EPDM/Silicon
2	Aeration surface area	0.0397m ²	0.068 m ²
3	Bubble diameter	1-3mm	1 - 3 mm
4	Membrane service life	> 5 years	> 5 year
5	Standard aeration rate	3.5 m ³ / h	6 m ³ / h
6	Aeration scope	1 - 6 m ³ / h	1 - 8 m ³ / h
7	Operating temperature	80°C	80°C
8	Max/min interval, c/c	1.5/0.4 m	1.5/0.4 m
9	Diffuser weight	0.590 Kg	0.860 Kg





Tecpro Aeration Products Pvt. Ltd



Tecpro Aeration Products Pvt. Ltd

Our Projects

**TWAD Board
Nesapakkam**





MBBR MEDIA

PROFLEX[®]



FEATURES:

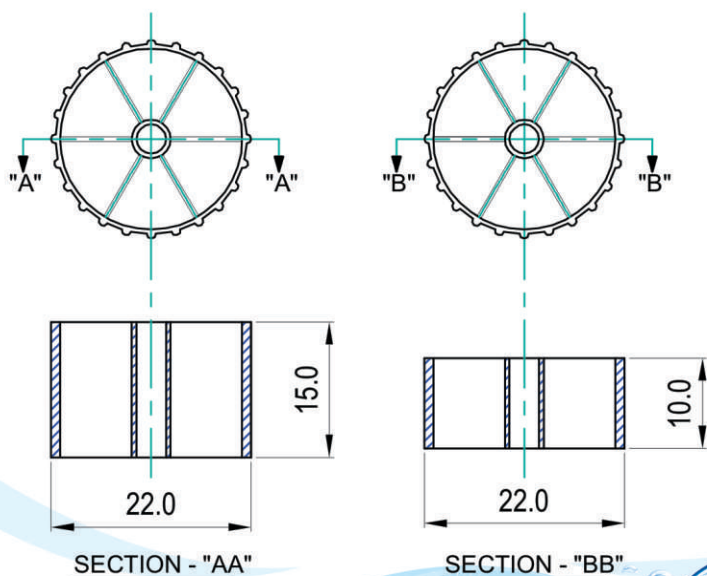
- Less sensitivity to shock loading.
- Clog free operation
- No channels or dead spots.
- Provides high Bio – Surface Area.
- Make Bio-Reactors extremely compact.
- No backwash needed.
- No Sludge return Systems Needed.
- Longer Media Life.
- Extremely easy to install
- Longer Media Life

MBBR MEDIA

Virtually increases tank size. The medium not only provides the nutrients needed for microbial growth but also for the metabolite production, extremely suitable for autotrophs, which produce all the biochemicals required from simple inorganic nutrients deriving their energy from oxidation of some inorganic component of the medium.

Our technical excellence enables us to offer a qualitative range of Floating Media to the clients at most competitive price. These floating products are specially designed to enhance the performance of new as well as old bio reactors. Clients can avail the entire range from us in various sizes and other specifications in tandem with their specific requirements.

MOVING BED BIO REACTOR (MBBR) MEDIA



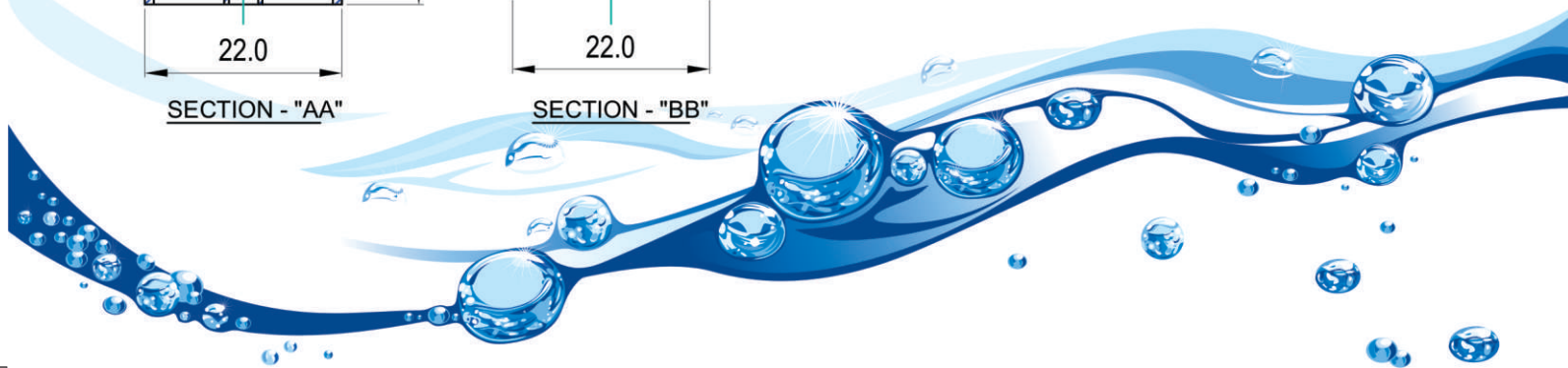
MBBR MEDIA

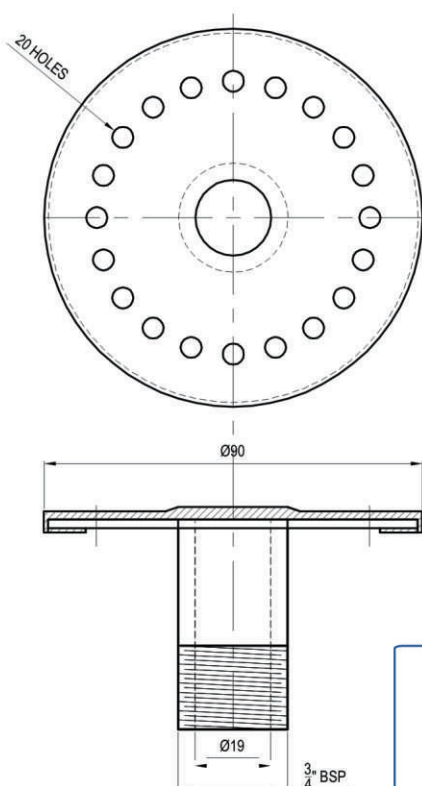
TECHNICAL SPECIFICATION BRAND - PROFLEX

EFFECTIVE SPECIFIC SURFACE AREA OF MEDIA	400 M2/M3
COLOUR	BLACK
MEDIA HEIGHT	15 MM / 10MM
MEDIA DIAMETER	22 MM
TYPE OF MEDIA	FLUIDIZED BIO MEDIA
MOC OF MEDIA	VIRGIN PP UV STABILIZED
STRUCTURE	CYLINDRICAL WITH EXTERNAL FINS
PSA/TSA RATIO (%)	75
SPECIFIC WEIGHT (Kg/M2) SURFACE AREA	0.37
SPECIFIC GRAVITY	0.90 - 0.95 gms/cm3
VOIDAGE	> 98%
DENSITY (GM/CC)	0.93
MEDIA FILL RATE RANGE, % FILL OF V	25 - 55

FEATURES

- Less sensitivity to shock loading.
- No channels or dead spots.
- Make Bio-Reactors extremely compact.
- No Sludge return Systems Needed.
- Extremely easy to install
- Provides high Bio - Surface Area.
- Clog free operation
- No backwash needed.
- Longer Media Life.





PROFLEX

Ø90mm COARSE BUBBLE DIFFUSER DOWNFLOW (EPDM / SILICON)



PROFLEX - 90 DIA COARSE BUBBLE MEMBRANE DOWNFLOW DIFFUSER - SPECIFICATION.

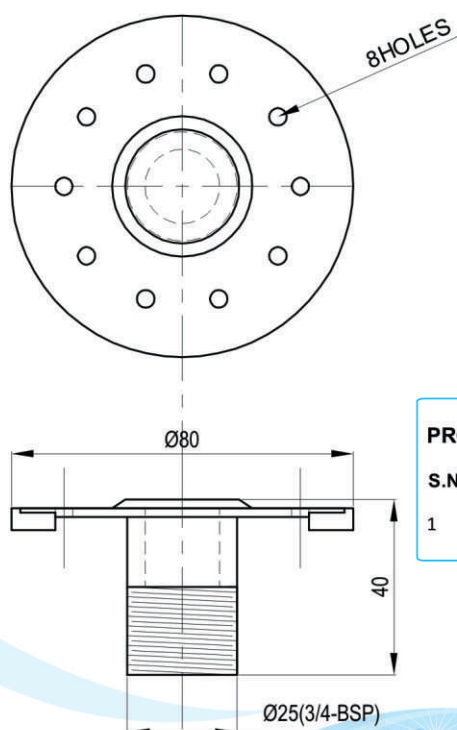
SIZE	TYPE	MEMBRANE	DESIGN FLOW	FLOW RANGE	CONNECTION
90mm (TPE-90C)	DISC	EPDM & SILICON	5M ³ /hr- 10M ³ /hr	5M ³ /hr- 14M ³ /hr	3/4"NPT MALE

COARSE BUBBLE DIFFUSER

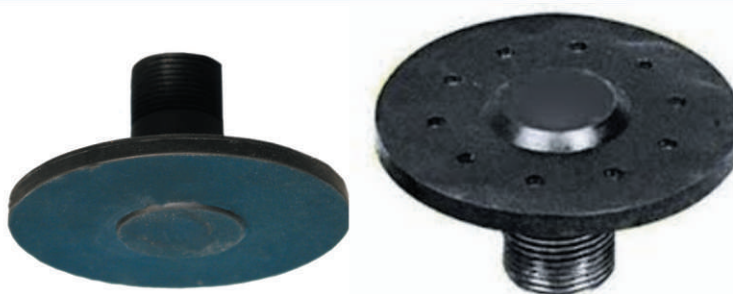
We are engaged in offering a wide range of Coarse Bubble Diffusers to the clients spread across the domestic market. These diffusers have finely divided air bubbles, which ensure freedom from common clogging problems. The piece plastic diffuser base and neoprene disc fitted in these diffusers assures hassle free operations with minimal corrosion problems.

FEATURES:

- These systems are suitable for large mixing and equalization tanks
- Low maintenance requirements
- High resistance to clogging and corrosion

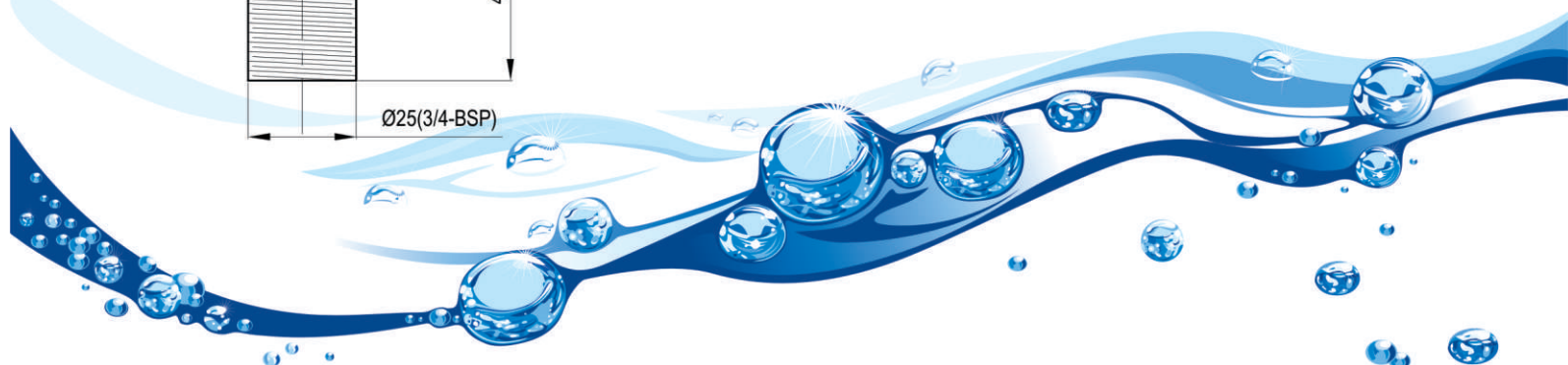


Ø80mm COARSE BUBBLE DIFFUSER (EPDM / SILICON)



PROFLEX - 80 DIA COARSE BUBBLE MEMBRANE DIFFUSER - SPECIFICATION.

S.No	SIZE	TYPE	MEMBRANE	DESIGN FLOW	FLOW RANGE	CONNECTION
1	80mm	DISC	EPDM & SILICON	5M ³ /hr- 8M ³ /hr	5M ³ /hr- 12M ³ /hr	3/4"NPT MALE

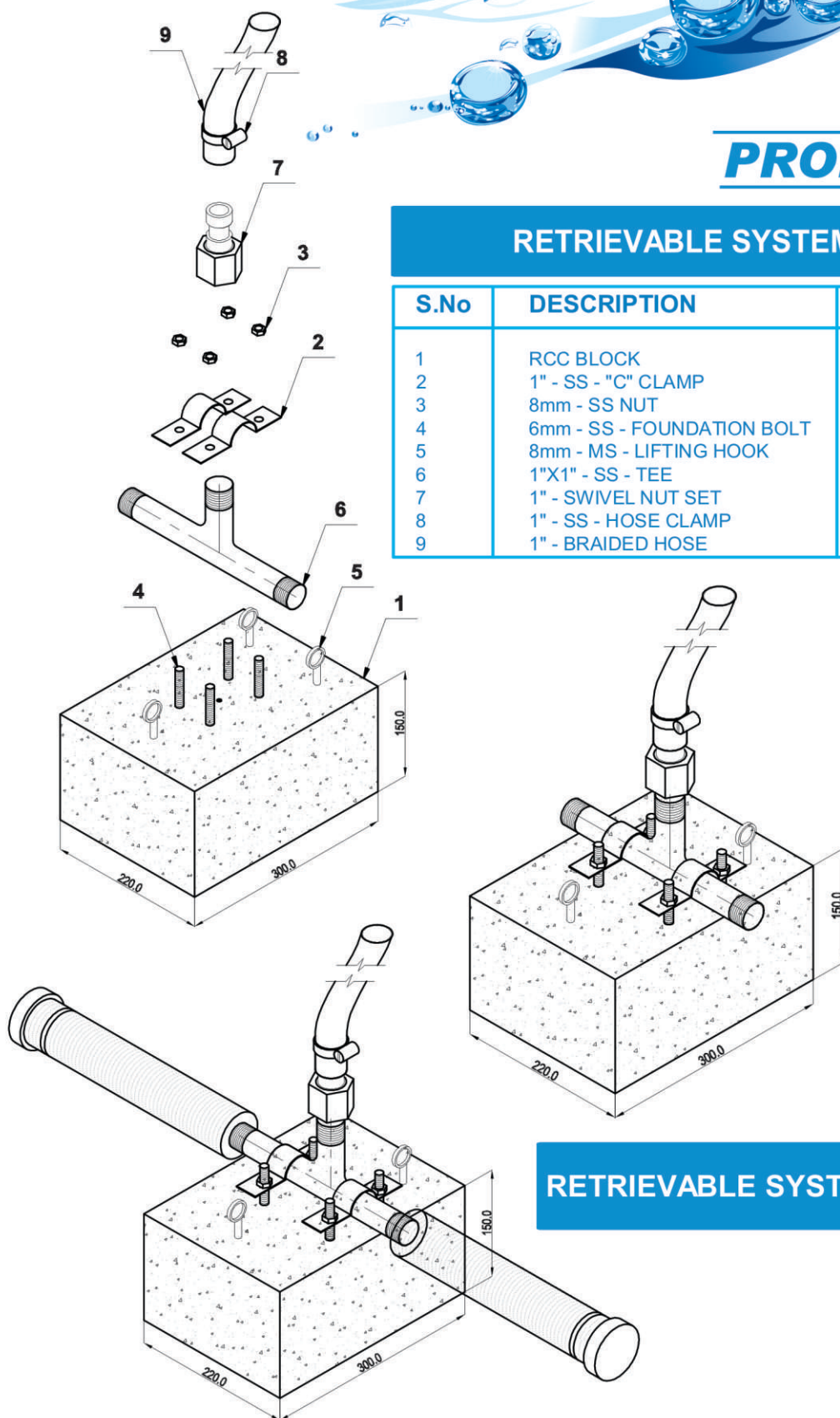




PROFLEX[®]

RETRIEVABLE SYSTEMS

S.No	DESCRIPTION	QUANTITY
1	RCC BLOCK	1 No
2	1" - SS - "C" CLAMP	2 Nos
3	8mm - SS NUT	4 Nos
4	6mm - SS - FOUNDATION BOLT	4 Nos
5	8mm - MS - LIFTING HOOK	3 Nos
6	1"X1" - SS - TEE	1 No
7	1" - SWIVEL NUT SET	1 No
8	1" - SS - HOSE CLAMP	1 No
9	1" - BRAIDED HOSE	1 No



RETRIEVABLE SYSTEM WITH DIFFUSER



TECPRO AERATION PRODUCTS PVT. LTD.
an unit of
TECPRO ENERGY SYSTEMS

WORKS: SEZ, Seekanankuppam Village, Cheyyur Taluk,
Kanchipuram District, TamilNadu, India

OFFICE: No:21e, North High court Colony,
Villivakkam, Chennai-600 049, TamilNadu, India

www.techproenergysystems.com

www.diffuseraerationsystems.com

email: techpro@techproenergysystem.com, sales@tecproind.com

044-26171621, 09382667076, 09500029191, 09500039191