



**Engineering progress
Enhancing lives**

RAUBIO

System components for biogas plants

Catalogue, valid from 01.01.2024



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01 RAUBIO

System components for biogas installations

01.01 System components for biogas installations

RAUBIO PE-Xa pipes SDR 13

Application:
indirect heating of the furnace

Properties:

- oxygen barrier according DIN 4726
- protective layer made of RAU-PE

Material:

high pressure cross linked polyethylene (RAU-PE-Xa)
according DIN 16892/93

Colour:

Grey

Note:

- delivery in coils
- Follow the assembly instructions for the RAUBIO fermenter heating system



Mat.-no.	Description	d mm	s mm	Volume l/m	Weight g/m	PG m
11357071100	25x1,8, length 100 m	25	1.8	0.36	154.25	100
11357071150	25x1,8, length 150 m	25	1.8	0.36	154.25	150
11357071250	25x1,8, length 250 m	25	1.8	0.36	154.25	250
11357071280	25x1,8, length 280 m	25	1.8	0.36	154.25	280
11357071330	25x1,8, length 330 m	25	1.8	0.36	154.25	330

RAUBIO FIX PE-Xa Rail

Application:

- Integral element of the RAUBIO Fix system for fixing the rail at the fermenter wall
- 1 m: 16 holes for pipes; 3 holes for fixing points
- 2 m: 26 holes for pipes; 4 holes for fixing points

Material:

- high pressure cross linked polyethylene (RAU-PE-Xa)
according DIN 16892/93
- with UV protective film in PE

Colour:

Black



Mat.-no.	Description	Length L mm	Weight	PG pc
11321061001	1,28 m	1280	857.5 g/pc	1
11321071002	2,08 m	2080	1.4 kg/pc	1

RAUBIO FIX Distance holder

Application:

- Integral element of the RAUBIO Fix system for fixing the rail at the fermenter wall
- **6.5 cm:** compatible with screw set 6.5 cm

Material:

- high pressure cross linked polyethylene (RAU-PE-Xa) according DIN 16892/93
- with UV protective film in PE

Colour:

Black



Mat.-no.	Description	Length L	Weight	PG
		mm	g/pc	pc
11320091001	length 6,5 cm	65	69.48	1

RAUBIO FIX screw set

Application:

- Integral element of the RAUBIO Fix system for fixing the fermenter heating on fermenter walls of concrete
- **6.5 cm:** compatible with distance holder 6.5 cm
- Screw set sufficient for 36 fixing points

Components:

- 36 anchor rods: M8 x 130, V4A
- 40 washers: 25 x 8.4 x 1.5, V4A
- 40 nuts M8, V4A
- 1 cartridge FIS V HIGH SPEED 360 S grout, inc. 2 static mixers
- Application insert



Mat.-no.	Description	Length L	Weight	PG
		mm	kg/pc	pc
12978771001	screw set 6,5cm	65	2.3	1

RAUBIO FIX pipe clamp set

Application:

Integral element of the RAUBIO Fix system for fixing the fermenter heating in concrete

Properties:

min. 2 pieces/heating circuit

Components:

- 10 anchor rods: M8 x 75, V4A
- 10 pipe clamps, V4A



Mat.-no.	Description	Weight	PG
		g/pc	pc
13510791001	pipe clamp set	950	1

RAUBIO FIX grout

Properties:

sufficient for approx. 40 fixing points

Components:

- 1 cartridge FIS V HIGH SPEED 360 S grout, inc. 2 static mixers
- Application insert



Mat.-no.	Description	Weight g/pc	PG pc
12976041001	injection mortar	800	1

RAUBIO FIX tool set

Application:

for the injection assembly

Properties:

packed in a tool case

Components:

- 1 FIS AM press-out gun
- 1 blower
- 1 compressed air pistol
- 2 cleaning brushes (for cordless screwdriver)
- 2 SDS hammer drills 10 x 160
- 2 hexagonal inserts 1/4" long, wrench size 13



Mat.-no.	Description	Weight kg/pc	PG pc
13510811001	tool set	1.8	1

RAUBIO FIX cleaning brushes

Application:

to clean the boreholes

Components:

5 backup brushes



Mat.-no.	Description	Weight g/pc	PG pc
13510781001	5 spare brushes	15	1

RAUBIO multi-seal flange

Application:

- for channelling and sealing RAUBIO pipes between the inside of the fermenter and the external area.
- sealed to a water column of 5 m and a fermenter temperature of 70 °C

Material:

- sealing rubber: NBR
- press plate: V4A
- screws/nuts: V4A

Note:

- RAUBIO multi-seal flange for pipes 20 x 1.5 (SDR13) and 20 x 1.9 (SDR 11) on request
- an extension safety device must be installed by the customer according to the local conditions
- Prior to installing in penetrations cut with core drills, seal the core surface using the REHAU Epoxy kit



Mat.-no.	Description	d	Weight	PG
		mm	kg/pc	pc
12869211001	25 mm / 16 bores	200	5.6	1
12869311001	25 mm / 10 bores	250	7.5	1

Epoxy resin-kit

Application:

for sealing the concrete of core holes

Components:

- two component epoxy resin
- component A: Wimadur 2K Flüssigkunststoff (Code 9073-003)
- component B: Wimadur EP-Härter (Code 8072-002)
- brush (length: approx. 40 cm)
- 1 pair latex gloves
- Installation instruction



Note:

Please note installation and safety instruction

Mat.-no.	Description	Weight	PG
		kg/pc	pc
12228541001	epoxy kit for 3,5 qm	1.4	1

RAUBIO stainless steel manifold*1

Application:

with pre-assembled connecting screw joint for connecting the RAUBIO PE-Xa fermenter heating circuits

Components:

- 2 manifold beams (flow and return)
- primary connection thread, 2" female thread with union nut
- manifold outlets with ball valve and compression fitting
- pipe distance 80 mm
- 2 1/2" hand ventilators
- 2 wall consoles with sound-insulating mat according to DIN 4109

*1 order-related production



Mat.-no.	Description	Weight kg/pc	PG pc
12271091303	25x1.8, 3 ports	5.47	1
12271091304	25x1.8, 4 ports	6.14	1
12271091305	25x1.8, 5 ports	6.81	1
12271091306	25x1.8, 6 ports	10.94	1
12271091307	25x1.8, 7 ports	11.61	1
12271091308	25x1.8, 8 ports	12.28	1
12271091309	25x1.8, 9 ports	12.95	1
12271091310	25x1.8, 10 ports	13.62	1

Pipe guide bends 90°

Application:

to control the REHAU pipes RAUTHERM SPEED und RAUTHERM S

Properties:

temperature resistance from -5 °C to +60 °C

Material:

polyamide (PA)

Colour:

Black



Mat.-no.	Description	Weight g/pc	PG pc	PG pc
12391931001	for 25 mm pipe	110	25	100