BIO-CEL® 208
Scope of Supply, Accessories & Spare Parts

BIO-CEL® 208 SCOPE OF SUPPLY

The BIO-CEL® MBR product is ideal for biological wastewater treatment in industrial and municipal applications. This product specification sheet provides details about the standard scope of supply, available accessories, and spare parts of BIO-CEL 208 modules.

Find shipment dimensions and container transport information on page 2. BIO-CEL 208 modules are shipped on wooden pallets. Part numbers in Table 1 are the standard scope of supply. For details about available accessories please see page 3; for spare parts please see page 5.

Table 1. Scope of supply

Part Number	Remarks
1000001420	1 pallet with membrane unit; 1 pallet with base frame

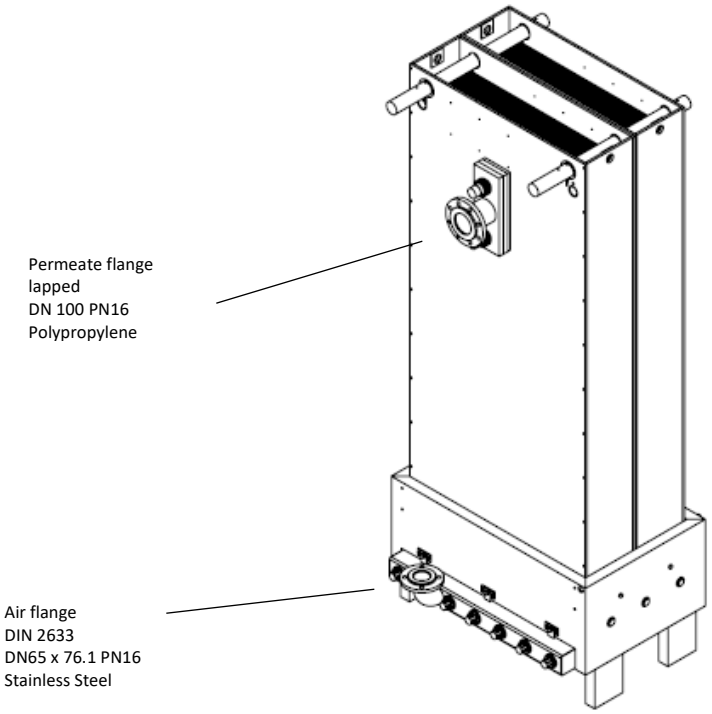

Figure 1. BIO-CEL® 208 scope of supply

Table 2. Wooden pallet shipment dimensions

	length	width	height	weight
BIO-CEL® 208 module	2,400mm (7.9 ft)	950mm (3.1 ft)	1,190mm (3.9 ft)	310 kg (683 lb)
BIO-CEL® 208 aerator frame	1,200mm (3.9 ft)	1,050mm (3.4 ft)	805mm (2.6 ft)	90 kg (198 lb)

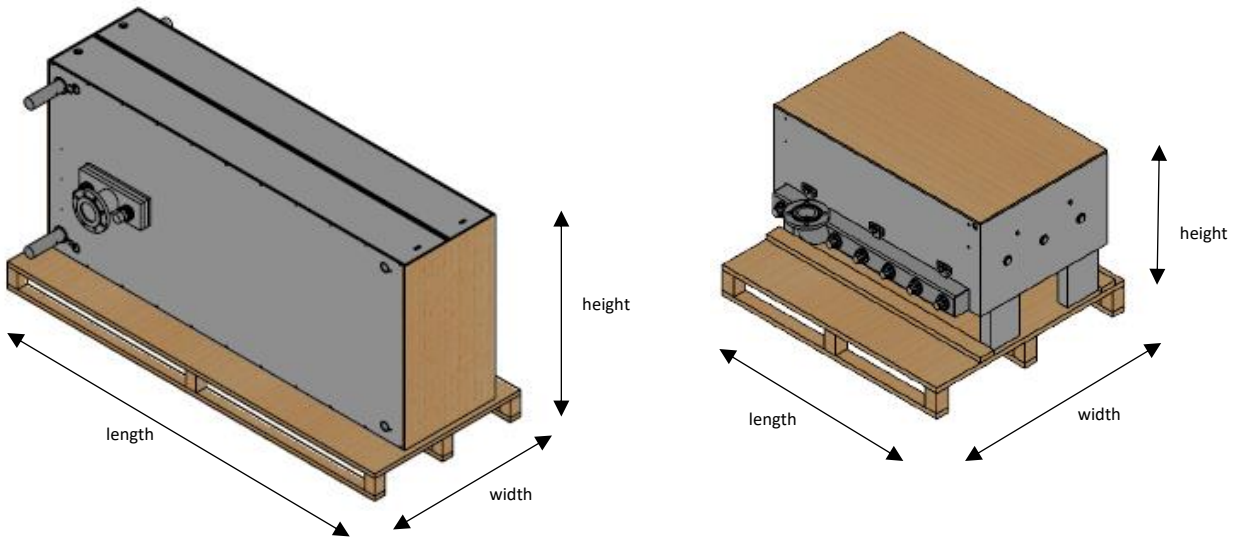

Figure 2. BIO-CEL® 208 in transport packaging

Table 3. standard container inner dimensions

	length	**width**	**height**
20 ft container	5,898mm (19.4 ft)	2,350mm (7.7 ft)	2,360mm (7.7 ft)
40 ft container	12,032mm (39.5 ft)	2,350mm (7.7 ft)	2,360mm (7.7 ft)
Door opening	-	2,340mm (7.7 ft)	2,280mm (7.5 ft)

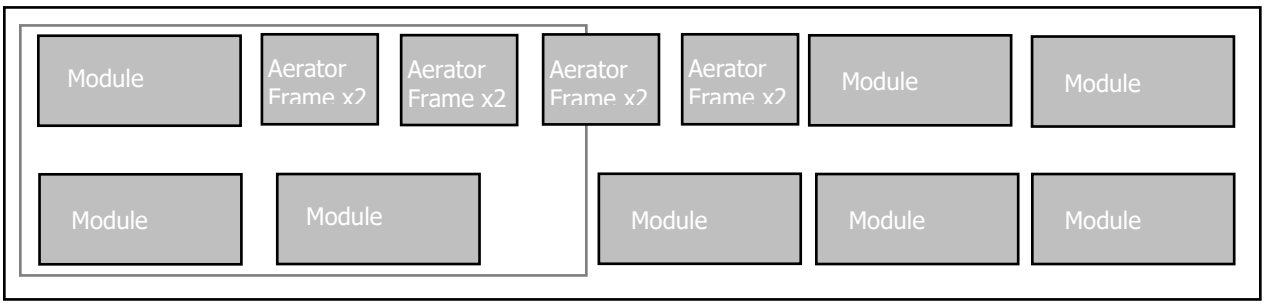

Figure 3. BIO-CEL® 208 arrangement in 20/40 ft container (10 / 21 pcs capacity)

BIO-CEL® 208 ACCESSORIES

To ensure proper installation and operation of BIO-CEL® MBR modules, certain accessories are necessary. These accessories are listed in Table 4 and may be purchased or produced by a third-party supplier. Detailed drawings are available on request.

The following accessories are mandatory for BIO-CEL® 208 membrane modules:

- Set of legs
- Lifting tool

Table 4. Accessories

Position	Part Number	Drawing Numbers	Accessory	Remarks
A1	1000001406	-	BIO-CEL® 208/416 Permeate Set	Elbow: PVC DN100, PN16 incl. flat sealing and fastening material (drawings available)
A2	1000001385	MN-00700-004-0010	BIO-CEL® 208/416 Feet Ext. Set	200 mm PP feet to ensure minimum ground clearance
-	-	MN-0600-015-0000	BIO-CEL® 208 Lifting Tool	Drawings available
-	-	MN-0600-016-0000	BIO-CEL® 208 Lifting and Guiding System	Drawings available
-	-	MN-0700-018	BIO-CEL® 208 Hanging Traverse	Drawings available
-	-	MN-0700-017	BIO-CEL® 208 Wall Fixation	Drawings available

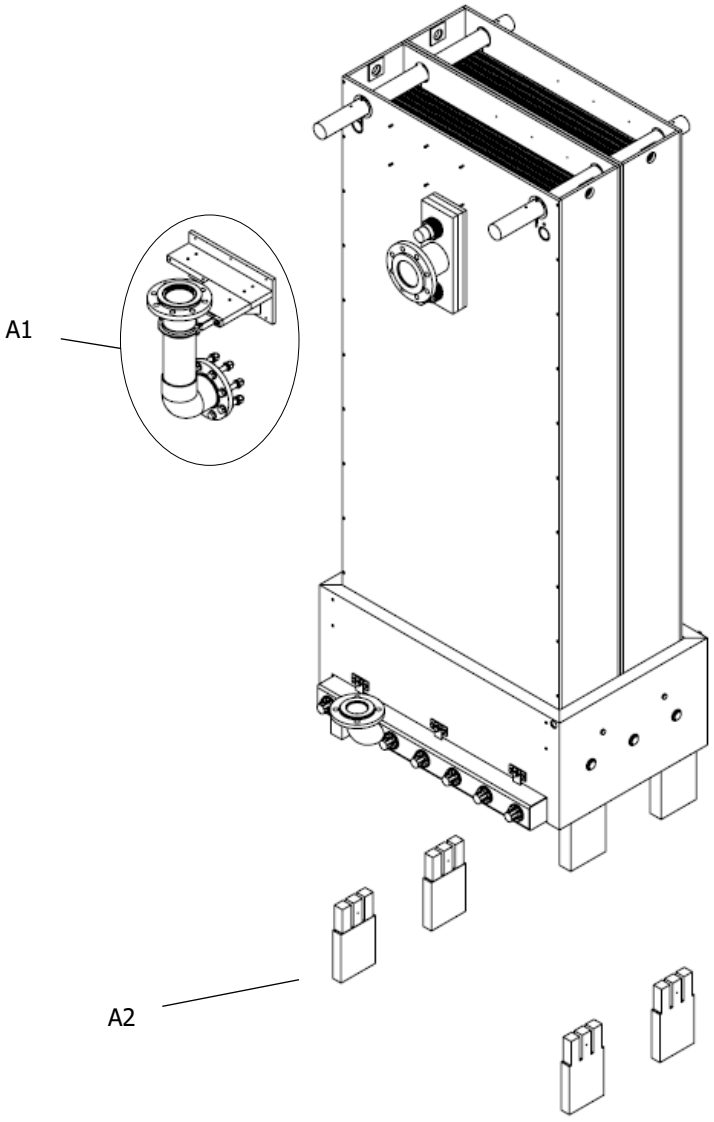

Figure 4. BIO-CEL® 208 exploded drawing of available accessories

BIO-CEL® 208 SPARE PARTS

No spare parts are typically required for BIO-CEL® 208 modules within the first 5 years of operation. If spare parts are needed, they may be ordered as per Table 5.

Table 5. Spare parts

Position	Part Number	Spare Part	Remarks
S1	1000001458	BIO-CEL® 208 Preassembled Cassette Unit	1 wooden pallet; incl. Pos. S5 and Pos. S7
S2	On request	BIO-CEL® 208 Base Unit	Diffuser set (Pos. S3) included & assembled
S3	1000001473	BIO-CEL® 208 Diffuser Set SIL	7 diffusers + connectors (Silicone)
	1000001463	BIO-CEL® 208 Diffuser Hose Set SIL	7 diffuser hoses + clamps without support pipe (Silicone)
-	1000002874	BIO-CEL® Diffuser Assembly Tool Set[a]	Torque wrench with special wrench socket
-	1000002876	BIO-CEL® star shaped socket	Special wrench socket only (for torque wrench to exchange single aerators)
-	1000001439	BIO-CEL® Diffusor Hose Tool	Tool needed for exchange of diffusor hoses
S4	1000001407	BIO-CEL® C104 Cassette	Replacement for BIO-CEL® 208/416
S5	On request	BIO-CEL® 208 Permeate connection set 1	Front and rear part incl. steel parts and O-Ring
S6	On request	BIO-CEL® 208 Permeate connection set 2	Rear part only incl. steel parts; necessary to change cassettes and O-Ring
S7	On request	BIO-CEL® 208 Lifting Bars	Incl. steel parts
S8	1000001406	BIO-CEL® 208/416 Permeate Pipe Set	Elbow: PVC DN100, PN16 incl. flat sealing and fastening material (drawings available)
-	1000001394	BIO-CEL® 208/416 Gasket Set	9xO-ring EPDM, 2xDN100 flat gasket EPDM, 1xDN65 flat gasket EPDM
-	1000001390	BIO-CEL® 208/416 Steel Parts	EN 1.4571/ AISI 316Ti

a A normal torque wrench may be used. Drawings for the special wrench socket are available on request.

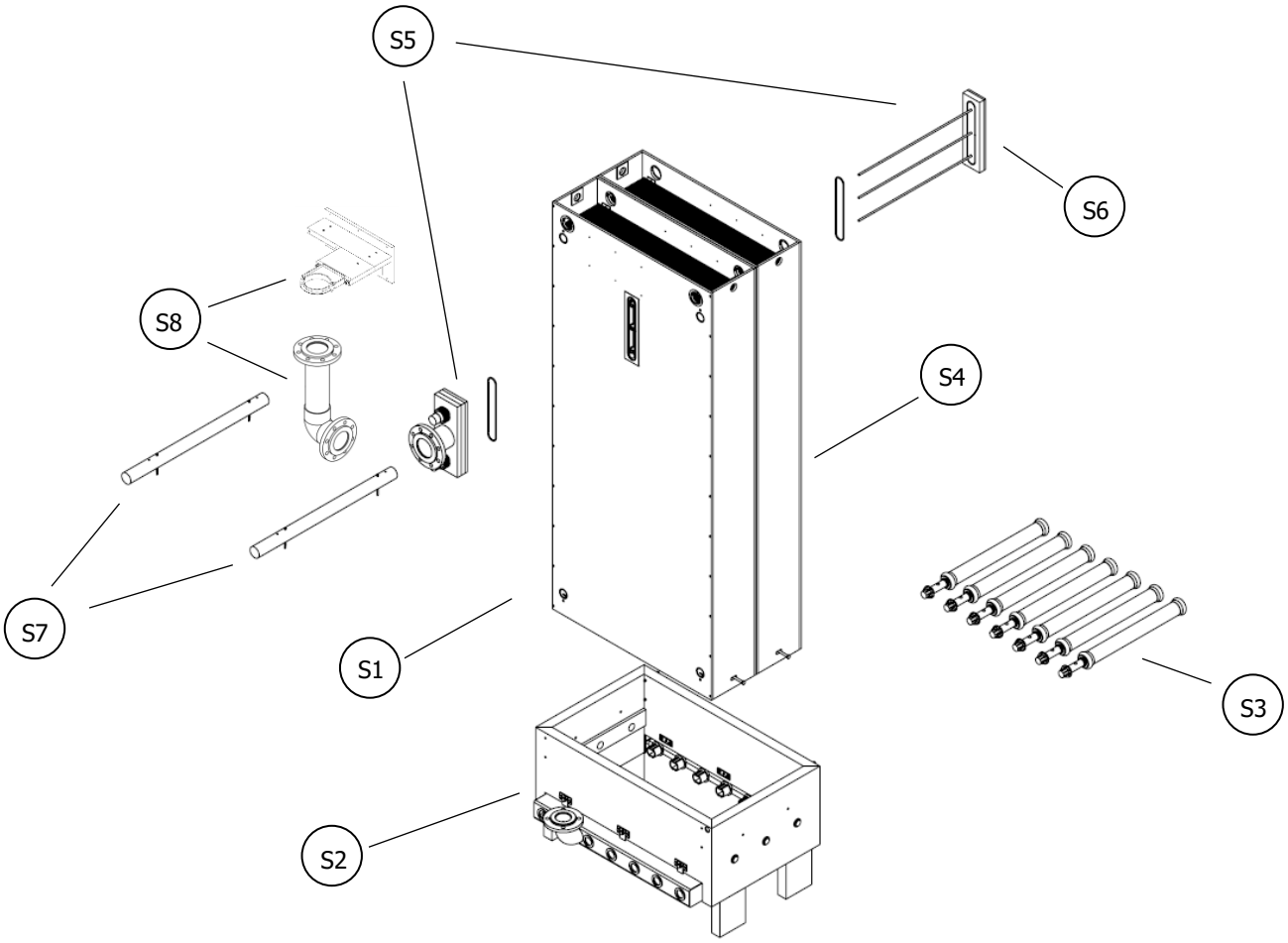

Figure 5. BIO-CEL® 208 exploded drawing showing available spare parts

Contact

Europe
Germany: +49 611 962 6001
Italy: +39 0721 1796201
info@microdyn-nadir.com

Americas
USA: +1 805 964 8003
sales.mnus@microdyn-nadir.com

Asia
Singapore: +65 6457 7533
China: +86 10 8413 9860
waterchina@mann-hummel.com