

Multi Gel-Casting Chambers and Kits



ORDERING INFORMATION

KITS			UNIT ONLY		
#CAT NO.	N° OF GELS CASTED	GLASS PLATE SIZES (W X L)	#CAT NO.	N° OF GELS CASTED	GLASS PLATE SIZES (W X L)
DCX4K *	4	10x10 cm	DCX-MC-4	4	10x10 cm
GCX-204K *	4	10x8 cm	DCX-MC-10	10	10x10 cm
			GCX-204	4	10x8 cm
			GCX-210	10	10x8 cm
			GCC-204	4	10x10 cm
			GCC-204-20	4	20x10 cm
			GCC-204-33	4	33x10 cm
			GCC-404	4	16.5 x up to 22 cm

* For Kit units please specify spacers and combs, tickness and n° of wells when ordering.

KIT CONTENTS

UNIT ONLY SYSTEM:

Please check that each DCX-MC-4, DCX-MC-10, GCX-204, GCX-210, GCC-204, GCC-204-20, GCC-204-33 or GCC-404 is complete with the following components:

- Multi-Casting Chamber with lid, front panel with 5 captive thumbscrews, silicone gasket, backfill port connecting to central filling trough & face plate
- Polycarbonate separation sheets
- Acrylic shim sheet

4-PLACE KIT:

Please check that each DCX4K or GCX-204K comes complete with the following components:

- Casting Chamber with lid, front panel with 5 captive thumbscrews, silicone gasket, backfill port connecting to central filling trough & face plate
- Polycarbonate separation sheets
- Acrylic shim sheet
- 4 notched glass plates sets
- 4 combs
- 4 sets of spacers

GEL CASTING INSTRUCTIONS

1. Place lid on bench and put the top end of the casting chamber (locating groove provided) on the lid so that it rests at an angle with the gasket facing up.
2. Start by stacking one separation sheet, followed by unnotched glass plate, spacer set, then notched glass plate. Repeat this sequence until all 4 sets (or 10 sets) are neatly stacked into the casting chamber. Place one additional separation sheet on the last glass plate. See figure 1.

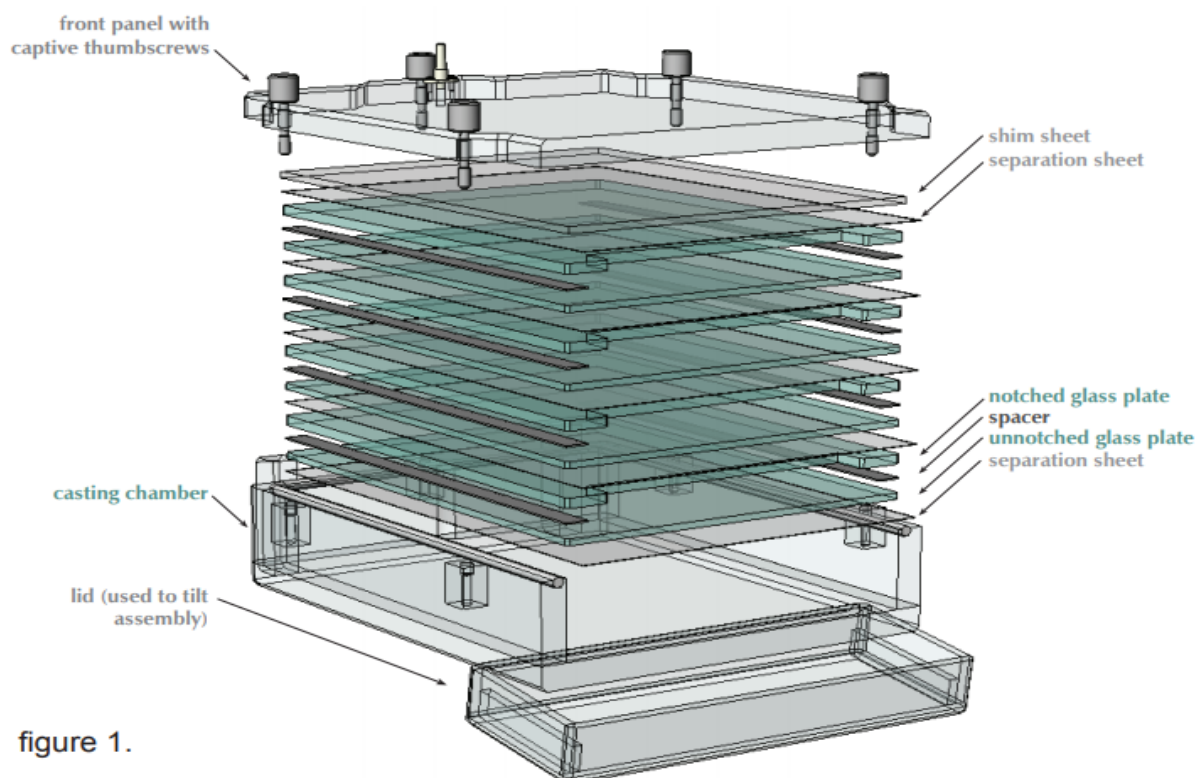


figure 1.

3. Place front panel on chamber and tighten the 5 captive thumbscrews. With 4 (or 10) sets of glass plates with 0.75mm spacers, the front panel seals against the gasket and compresses the glass sandwiches. Using fewer than 4 (or 10) glass plate sets at 0.75mm thick will require the use of the enclosed shim sheets to achieve a tight seal and light compression of the glass plate sets. **Use of other than 0.75mm thickness spacers may require the use of additional shim sheets, which must be ordered separately.**
4. Bring assembled caster to the vertical position. Test the tightness of the assembly by pulling one of the polycarbonate shim sheets. If it comes out easily, use extra shims to increase tightness against the front panel.
5. Single percentage gels can be cast by adding liquid monomer from through the luer valve using a pump or large volume syringe. For gradient gels connect a gradient marker (GM-XXX) to a small peristaltic pump (MPP-100), and the pump outlet to the luer valve mounted on the front panel. Fill caster to within 0.5cm of the glass plate notches, turn pump off then close luer valve.
6. Carefully insert combs into glass plate sandwiches. Place lid on top of chamber until gels polymerize.

DISASSEMBLY

1. Remove lid and carefully remove one comb to ensure polymerization is complete. Return caster to horizontal angle position as shown in figure 1. Disassemble the unit by unscrewing thumbscrews. Release each gel sandwich by pulling the polycarbonate separation sheet. If you are planning to store some of the gels for later use, leave the comb in place, rinse excess acrylamide from glass plates, and wrap in Saran wrap or store in Zip-Lock bags in the refrigerator.
2. Wash all Multi-Caster components after each use with mild detergent and rinse with DI water



Expedeon

UK Tel: +44 (0) 1223 873 364

US Tel: 858-457-7978

US Toll-Free: +1 844-611-3656

www.expedeon.com