

PTFE Filter Reactors

Extension Of Ace's Borosilicate Glass Filter Reactor Product Line



To meet the needs for Fluorine and other Organic Chemists, ACE has developed a new tool, and a new version of our popular bench-scale glass filter reactors: introducing the **ALL PTFE Reactor Assembly**. This reactor can be used in fluorinated compounds and works with strong alkaline compounds where glass can't be used.

The reactor comes in three standard sizes: 250mL, 500mL and 1000mL, (other sizes may be available by special request). The body is solid PTFE and has a separate, solid PTFE 60mm or 100mm O.D. head with standard taper joints, a CAPFE O-ring and a (outside) stainless steel "quick-release" clamp. It features either a #50 or #80 Ace-Thred, PTFE bottom valve/filter assembly that threads into the bottom of the reactor body. The PTFE/PEEK sealed stirrer bearing fits into the center standard taper joint, and the units have a PTFE coated stainless steel, 10mm stir shaft with a three-bladed PTFE agitator.

Optional items include PTFE condensers and addition funnels, bench stands, supports, and clamps. Overhead stir motor choices include Caframo®, Heidolph®, or IKA®.

The reactor is available as a complete assembly or as individual components.

Contact Ace Technical Services at 800-223-4524, or www.aceglass.com, for a custom quote on a PTFE reactor for your application.

The head, head joints, body, stirrer-bearing, bottom filter assembly with valve, and stir shaft with agitator are all PTFE. Even the O-Rings are PTFE encapsulated. The filter supports are polypropylene. The bottom filter assembly is either #50 or #80 Ace-Thred, and threads in/out for easy capture of filtrate, or for cleaning. Unit is excellent for fluorine chemistry work, as well as any work using strong alkalis where glass can't be used. Halar® coated stainless steel internal coil can be used for heating or cooling the contents.

Note: Support stand (13568 or 12841) and chain clamp (11079) NOT included. We recommend Caframo® BDC2010 stir-motor (13566-05), Lauda circulator (11505-15) for heating/cooling, and Ace/J-Kem® 260T temperature controller (12318-05) with a 12" PTFE coated "T" temperature sensor (12318-25).

Component	Order Code	
250mL Reactor		
Reactor Body (A = 5.8"; O.D. = 3.5")	6391-02	★
PTFE Head (60mm, 4 openings: (4) 1/2")	12858-15	★
PTFE Insert, 1/2" to 24/40	12866-14	★
CAPFE O-Ring (60mm)	7855-878	♣
Quick-release Clamp (60mm)	6517-22	★
Bottom Filter Assembly (#50)	5838-83	♣
Bottom Valve (1/4" / 3/8")	5839-42	★
Adapter	5844-120	♣
Polypropylene Filter Supports (#50) (Pkg. of 12)	5814-348	♣
Stirrer Bearing (10mm)	13443-12	★
PTFE Coated Stainless Steel Shaft w/Agitator (10mm)	13852-10	★
Complete	6390-02	★
500mL Reactor		
Reactor Body (A = 8.88"; O.D. = 3.5")	6391-05	★
PTFE Head (60mm, 4 openings: (4) 1/2")	12858-15	★
PTFE Insert, 1/2" to 24/40	12866-14	★
CAPFE O-Ring (60mm)	7855-878	♣
Quick-release Clamp (60mm)	6517-22	★
Bottom Filter Assembly (#50)	5838-83	♣
Bottom Valve (1/4" / 3/8")	5839-42	★
Adapter	5844-120	♣
Polypropylene Filter Supports (#50) (Pkg. of 12)	5814-348	♣
Stirrer Bearing (10mm)	13443-12	★
PTFE Coated Stainless Steel Shaft w/Agitator (10mm)	13852-10	★
Complete	6390-05	★
1000mL Reactor		
Reactor Body (A = 7.84"; O.D. = 4.33")	6391-10	★
PTFE Head (100mm, 7 openings: (5) 3/4", (2) 1/4")	12860-12	★
PTFE Insert, 3/4" to 24/40	12866-16	★
PTFE Insert, 1/4" to #7	12871-03	★
CAPFE O-Ring (100mm)	7855-880	♣
Quick-release Clamp (100mm)	6517-25	★
Bottom Filter Assembly (#80)	5857-86	♣
Bottom Valve (1/4" / 3/8")	5839-42	★
Adapter	5844-120	♣
Polypropylene Filter Supports (#80) (Pkg. of 12)	5814-350	♣
Stirrer Bearing (10mm)	13443-12	★
PTFE Coated Stainless Steel Shaft w/Agitator (10mm)	13852-15	★
Halar Coated Heating Coil	12069-06	★
Complete	6390-10	★