

CycloGraph™ & Accessories

KEY FEATURES OF THE CYCLOGRAPH™

- Variable speed control (100-1400 RPM)
- Integrated 4 watt UV lamp for hands-free viewing of separations
- ON/OFF switches for motor and UV lamp
- Adjustable plane angle setting (0-45 degrees)
- Solvent pump with associated ON/OFF pump control switch
- Ultra quiet and accurate low flow solvent pump (0-30ml/min)
- Compatible with all common chromatography solvents including acetic acid

STANDARD SYSTEM INCLUDES:

- CycloGraph™ instrument
- Solvent pump with tubing
- Vial of Rotor Test Dye
- Instruction manual
- One year warranty

CycloGraph™ with RAVE technology (Radially Accelerated Variable Engine)

The CycloGraph system is a centrifugally accelerated device for performing preparative thin layer radial separations. The separations occur quickly (within 20 minutes) with no need for scraping separated bands as with traditional Thin Layer Chromatography.

Principle of Operation

The compound to be separated is applied as a solution inside the adsorbent ring of the pre-cast Rotor (Analtech's prepared consumable for this device) by way of a solvent pump or hand held syringe. The chosen solvent mixture is then pumped (at an appropriate speed) through the adsorbent layer effectively separating the individual components as a result of their different affinities for the layer and solvent mixture. As the individual rings reach the outer rim of the Rotor they are spun off the edge of the glass and collected in the special circular trough. The angle of the trough allows the eluent to collect at the bottom and drip out the collection port.



Check out a video demonstration of the CycloGraph at www.analtech.com

Rotors and Accessories for the CycloGraph

Rotors are coated with silica gel or aluminum oxide. Both adsorbent formulations include a calcium sulfate binder for repeated use without damage, and a fluorescent indicator at UV254 for ease of sample location. These rotors replace the traditionally self-made formulations. They are overcoated and require scraping to final thickness and shape. They work with both the CycloGraph and older Chromatotron.

Silica gel is now also available in final scraped format ready for use. These new rotors eliminate the tiresome, dusty and noisy process of scraping before use. Just take them out of package and chromatograph!

Other accessories are available. The Rotor Storage Chamber holds 10 rotors securely when not in use. Test Dye can be used to fine tune operational parameters. Rotor Mix is available for those researchers wishing to coat buffer modified formulations.

PRE-SCRAPED ROTOR ADVANTAGES:

- Ready to use - just unpack and run
- No more messy silica on your lab bench
- No more hi-pitched scraping sound
- 4 sizes available
- New packaging eliminates potential damage

SYSTEMS & ACCESSORIES	CATALOG NO.
CycloGraph™ Standard System	87-40
CycloGraph™ Deluxe System (includes all from the standard system, plus 87-43, 50-05, and set of 4 Rotors)	87-40d
Digital Speed Monitor (for model I)	87-43
Low Flow Solvent Pump	87-42
Low Flow Solvent Pump (for dry solvent applications)	87-42c
Rotor Storage Chamber (holds 10 rotors)	50-05
Rotor Scraper - for 1000 micron Rotor	05-03
Rotor Scraper - for 2000 micron Rotor	05-02
Rotor Scraper - for 4000 micron Rotor	05-04
Rotor Scraper - for 6000 micron Rotor	05-06
Rotor Scraper - for 8000 micron Rotor	05-08
Finishing Rotor Scraper	05-09
Rotor Test Dye (≈ 40cc)	30-05

ROTORS AND ADSORBENTS	CATALOG NO.
2000 micron Pre-Scaped Silica Gel Rotor	02205p
4000 micron Pre-Scaped Silica Gel Rotor	02206p
6000 micron Pre-Scaped Silica Gel Rotor	02207p
8000 micron Pre-Scaped Silica Gel Rotor	02208p
Silica GF Rotor Mix (1kg)	02210
Silica GF Rotor Mix (5kg)	02250