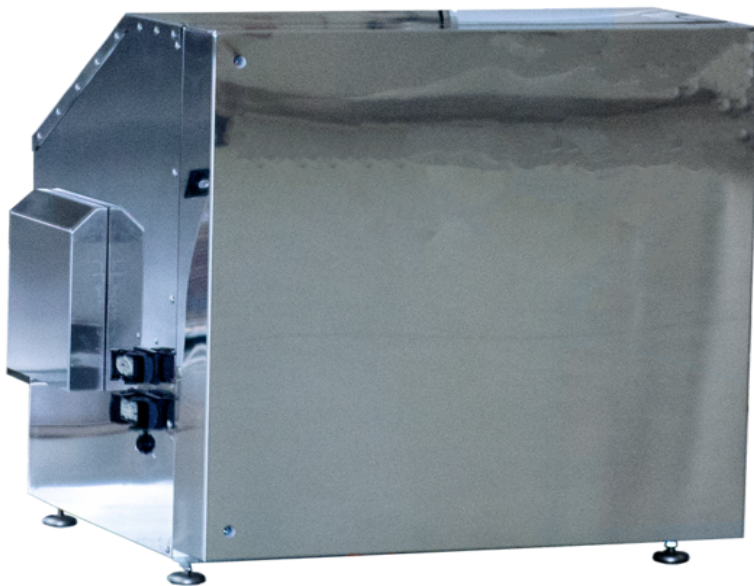




Main CPC technology platforms: the rCPC and the iCPC

RotaChrom offers a wide range of solutions to meet your business needs and help you boost your performance. Our one-of-a-kind CPC technology is at the heart of our devices, which we use in both the rCPC and iCPC platforms.

On the other hand, we understand that specific tasks often require specific tools. This is why we support our partners with flexible prices and tailor-made configurations based on unique input provided by the business partner. Add-ons for the rCPC and iCPC devices are available, whether you need solvent handling, or polishing a final product, just to name a few applications. RotaChrom's unique devices are ready to tackle any challenge they face.



GMP rCPC

The GMP rCPC is RotaChrom's liquid-liquid centrifugal partition chromatography (CPC) platform, designed to adhere to GMP regulations. The platform is designed and qualified according to Eudralex Vol. 4.

The rCPC platform can be used for API-grade compound production and pilot-scale purification and research tasks in a pharmaceutical environment. It is possible to collect up to 9 COI fractions and 1 Impurity fraction.

The GMP rCPC comes with material certification and traceability for all parts of the equipment:

- All wetted stainless-steel components conform to AISI 316L SS with EN 10204 3.1. material certificates.
- Inner surface roughness is $Ra \leq 0,8 \mu m$.
- All other wetted components come with FDA 21 CFR 177.2600 certificates, which is a must for pharmaceutical production.

The GMP rCPC has its own cleaning validation and cleaning process, and comes with a software solution with qualification and testing documents available that are designed for FDA 21 CFR part 11 and GAMP 5 compliance.



RotaChrom
Purified Solutions



rCPC

Our engineers designed the rCPC platform for pilot-scale purification tasks within a laboratory environment. It is ideal for all batch sizes, smaller or larger, or campaign type of research work, and continuous-batch production. To accommodate a user-friendly operation, RotaChrom offers a turn-key solution package for semi-automated solvent handling (preparation and recovery) upon request.

Furthermore, rCPC can be utilized as an at-line purification platform besides our industrial-scale purification unit. This means your separation needs can be executed in an orthogonal manner. A category of its own, the rCPC offers outstanding throughput, purity and yield, and does all that while remaining cost-efficient.

Going beyond the general requirements, RotaChrom offers tailor-made system modifications, and does it while fulfilling any regulatory requirements you have to meet.

Pricing is based on the extent of the unique configuration and specific expectations. Contact us today to learn more.



iCPC

RotaChrom's iCPC platform is the largest commercially available Centrifugal PartitionChromatography instrument in the world. Designed for industrial-scale purification projects in continuous batch operation mode, this device is by far the most cost-effective industrial-scale chromatography platform available on the market. It has the capacity to process hundreds of kilograms of crude input material per month.

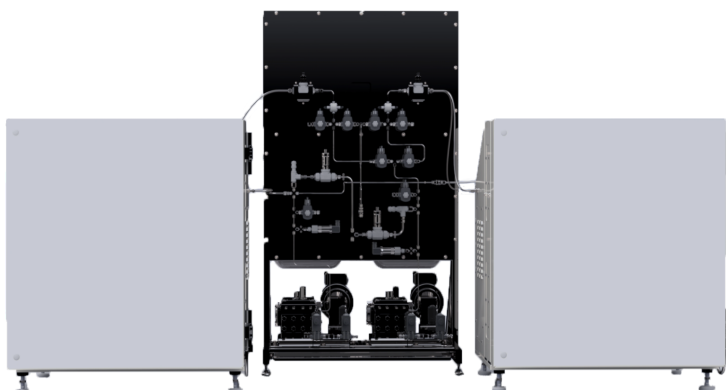
The iCPC uses similar technical features as our pilot-scale system, the rCPC. Nonetheless, it maintains the same relative load and resolution capabilities. Furthermore, the iCPC is designed to operate in an industrial environment. It is controlled by a PLC (Programmable Logic Controller) unit, which enables system fine tuning and the aligned functioning of multiple devices.

Upon request, the iCPC can be operated as a standalone instrument as well as in clusters, or extended with a fully integrated solvent handling system.

Pricing is based on the extent of the unique configuration and specific expectations. Contact us today to learn more.



Continuous CPC



The Continuous CPC platform is a continuous, multiple dual-mode, dual-rotor CPC platform. It consists of two interconnected GMP-rCPC devices, a preparative unit, and the control unit. Unlike the standard batch operational mode, it enhances throughput with its continuous injection mode, allowing for more efficient sample processing and multiple increase in production, beside low operational cost.

It's highly scalable, adaptable to various sizes and requirements, and built with robustness in mind, meeting GMP industrial standards for durability.

The device incorporates an ondemand solvent handling system that can be tailored to specific industrial standards.

RotaChrom ensures that its device complies with cleaning validation and cleaning standards in line with GMP directives:

- The Continuous CPC is explosion-proof, suitable for installation in rooms classified as ATEX/IECEx Zone 2.
- The electrical cabinet comes pre-certified for added safety assurance.
- All wetted components are constructed from high-quality materials like 316L/1.4404 stainless steel or PEEK.



Custom-made solutions



pCPC

The pCPC is a tailor-made system by RotaChrom.

It is a combination of the iCPC and a solvent preparation, recovery and regeneration system.

It also delivers a proprietary automated biphasic solvent system preparation platform providing a continuous feed to our iCPC instrument.

pCPC encompasses a fully integrated production platform where complete solvent handling is provided beside the iCPC's purification solutions.

The system is controlled by PLC, and can be operated in a hazardous environment in compliance with existing regulatory requirements.

The scaled-up and extended system provides a versatile solution.

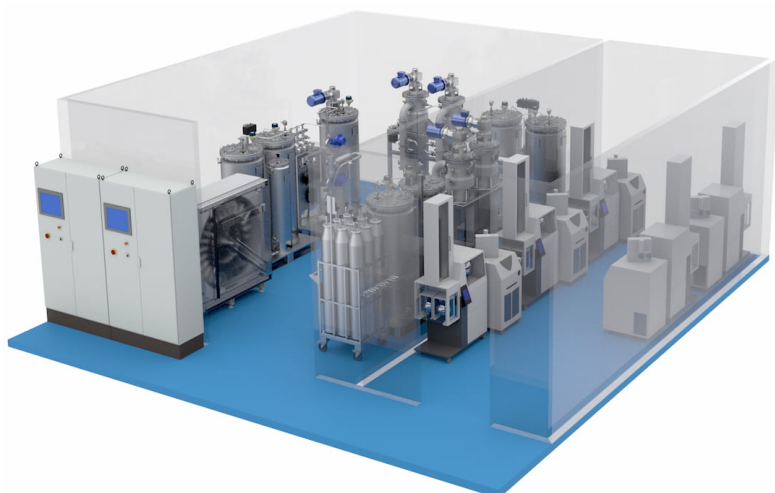
The integrated solvent regeneration platform significantly reduces the cost of operation. Thanks to RotaChrom's customer support and prediction tools, the operational cost, process flow and layout can be tailored to customer needs before installation.

SKID DETAILS



RotaChrom
Purified Solutions

pCPC + HeiVap platform



Add even more to your production with pCPC combined with the Heivap platform. This is a complex solution which enables complete solvent handling and allows the elimination of solvents and final polish of the product. The strategic partnership RotaChrom entered into with **Heidolph** comes with the possibility to combine the pCPC with Heidolph Heivap platform.

The scaled-up and extended system provides a versatile solution, while the integrated solvent regeneration platform reduces the costs of operation. Thanks to RotaChrom's customer support and prediction tools, the operational cost, process flow and layout can be tailored to your needs before installation.

SKID DETAILS

RotaChrom CPC Device Overview

Technical features ¹	rCPC	iCPC
Loading capacity	up to 150 g/cycle	up to 1200 g/cycle
Average flow rate	~250 mL/min	~2500 mL/min
Throughput ²	2 kg/day	20 kg/day
Weight	470 kg / 1036 lbs	1600 kg / 3527 lbs
Dimensions ³	3'3" x 4'3" x 3'5"	4'11" x 5'11" x 4'9"

¹ Industry relevant certifications (i.e. ATEX, UL, CSA) are available upon request for pCPC platform and subjected to individual design reviews, based on the operational environment.

² Amount of the crude/input material and based on 2 shifts (16h)/day operation scheme. ³ Total footprint of the complete system, including SKID platforms, may vary due to the individual Client location.

For further details please refer to FAQ and contact RotaChrom directly