Colo Science
Laboratory & Scientific Equipment

TECHNICAL SPECIFICATION

CRUDE OIL CENTRIFUGES

CRUDE100 · CRUDE200

Benchtop centrifuges for water and sediment in crude oil and fuel oils by the centrifuge method, with swing-out rotors for 100 ml and 50 ml glass tubes.

CRUDE100 is the standard model with a 5-inch touch panel and a centrifuge body that also takes general-purpose rotors. CRUDE200 adds a heated chamber from 10 to 80 °C, so samples stay at the temperature required by the test method during the whole run. Both models reach 4000 rpm and 3577 × g with the 4 × 100 ml oil rotor; the separated water and sediment are read directly on the tube scale.

4 × 100 ML · 4000 RPM · 3577 × G · HEATED CHAMBER 10–80 °C (CRUDE200) · SWING-OUT ROTORS · ELECTRONIC LID LOCK · ≤ 60 DB

Two models, one method

CRUDE100 without heating, CRUDE200 with a heated chamber 10–80 °C.

Two oil rotors

4 × 100 ml for ASTM-type cone tubes; 4 × 50 ml for smaller samples (CRUDE200).

Layers stay separated

Soft braking keeps water and sediment undisturbed for reading.

Safe operation

Electronic lid lock, steel chamber, imbalance and overspeed protection.

Document type: **Technical Specification Sheet**
Products: **CRUDE100 / CRUDE200 Crude Oil Centrifuges**
Product numbers: **CRUDE100 PRO4271 · CRUDE200 PRO8384**



CRUDE100 crude oil centrifuge with swing-out rotor and glass cuvettes.

MODELS
CRUDE100 · CRUDE200

MAX CAPACITY (OIL ROTOR)
4 × 100 ml

CONTACT
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Technical Specification

CRUDE100 standard and CRUDE200 heated crude oil centrifuge

4000 RPM | 3577 × G | 4 × 100 ML | 10–80 °C (CRUDE200) | ≤ 60 DB

Models compared

Parameter	CRUDE100	CRUDE200
Heating	no	yes, chamber 10–80 °C
Max speed with oil rotor	4000 rpm	4000 rpm
Max RCF with oil rotor	3577 × g	3577 × g
Oil rotors	4 × 100 ml	4 × 100 ml, 4 × 50 ml
Other rotors on the same body	up to 6000 rpm, 4 × 750 ml	—
Speed accuracy	±10 rpm	±20 rpm
Time range	1 s – 99 min 59 s / 1 min – 99 h 99 min	1 – 99 min
Control and display	5-inch touch panel	microprocessor control, display, stored programs
Chamber	steel inner protective casing	steel chamber Ø 460 mm, silicone heating belt
Noise	≤ 60 dB(A)	< 60 dB(A)
Power supply	AC 220 V ±22 V, 50 Hz	AC 220 V ±22 V, 50/60 Hz, 10 A
Power	800 W	1.2 kW
Dimensions (W × D × H)	550 × 470 × 350 mm	692 × 530 × 428 mm
Net weight	50 kg	56 kg

4000 RPM
max speed, oil rotor

3577 × G
max RCF, oil rotor

10–80 °C
heated chamber (CRUDE200)

4 × 100 ML
glass cone tubes

Functions and workflow

From the sample to the reading on the tube scale

Operating and safety functions

Function	Availability
Heated chamber 10–80 °C	CRUDE200
5-inch touch panel, speed / RCF / time set in fine steps	CRUDE100
10 acceleration and 10 deceleration levels, soft braking	CRUDE100
Stored, programmable runs	CRUDE200
Automatic rotor recognition	CRUDE100
Electronic lid lock	CRUDE100, CRUDE200
Imbalance, overspeed and overload protection	CRUDE100, CRUDE200
Three-stage rubber shock absorption	CRUDE100
Electrical safety per IEC 61010-2-020	CRUDE200

Typical workflow

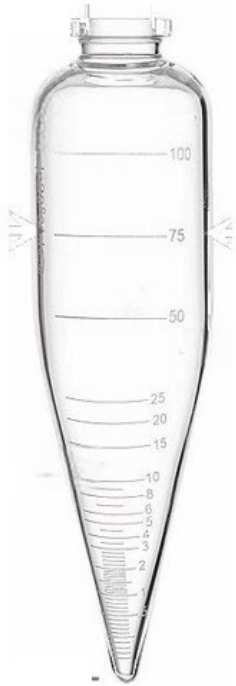
1. Fill. Fill the cone tubes with sample and solvent as the method prescribes.

2. Heat. Bring the tubes to the method temperature — in the CRUDE200 the chamber holds it during the run.

3. Spin. Place the tubes in opposite buckets and run at the RCF and time of the method.

4. Read. Read water and sediment on the tube scale; repeat the run until two readings agree.

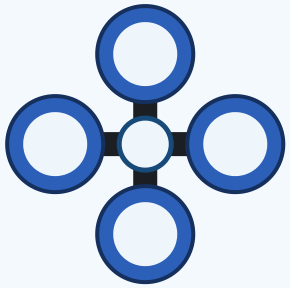
Glass tubes



Parameter	Specification
100 ml tube	pear-shaped, graduated to 100 ml
Height	162–167 mm
Outer diameter	44–46 mm
Neck inner diameter	17.1 mm
50 ml tube	glass, for the 4 × 50 ml rotor (CRUDE200)

Oil rotors

Swing-out rotors for glass tubes



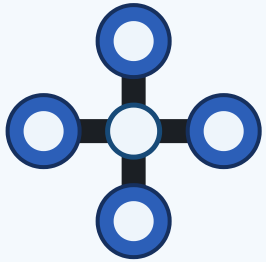
4 × 100 ml · PRO7085

Swing-out rotor

4000 rpm | 3577 × g

For 100 ml cone tubes of the ASTM type.

CRUDE100 CRUDE200



4 × 50 ml · PRO8385

Swing-out rotor

4000 rpm | 3548 × g

For 50 ml glass tubes and smaller sample volumes.

CRUDE200

Rotor matrix

Capacity	Product number	Max speed	Max RCF	Fits
4 × 100 ml	PRO7085	4000 rpm	3577 × g	CRUDE100, CRUDE200
4 × 50 ml	PRO8385	4000 rpm	3548 × g	CRUDE200

Selection notes

Method temperature. If the method requires a heated sample during centrifugation, choose CRUDE200.

Tube size. 100 ml cone tubes are standard for crude oil; the 50 ml rotor suits smaller samples.

Other work. CRUDE100 also takes general rotors up to 4 × 750 ml and 6000 rpm.

Scope of delivery

Centrifuge CRUDE100 or CRUDE200 with power cord and manual.

Rotor oil rotor of your choice (4 × 100 ml or 4 × 50 ml).

Accessories glass tubes and spare buckets are offered separately.

How to choose

Three questions lead to the right configuration

1. **Method**
   Which standard and temperature does your method require?
2. **Tubes**
   100 ml or 50 ml glass tubes, and how many per run?
3. **Samples per day**
   How many tests do you run per shift?

Send us your method
sales@colo.si · +386 70 713 437
We prepare the configuration with tubes and a quotation.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

QUICK CONTACT

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Testing crude oil for water and sediment?

Send us the method and the number of samples per day — we recommend CRUDE100 or CRUDE200 and send a quotation with delivery time.

Centrifuges Overview | Centrifuges Catalog | Request a Quote | Contact Sales Department

Specification notice: Specifications may be changed without prior notice as part of product improvement. For procurement and quality assurance, the binding data are those in the quotation issued at the time of sale.