



PRO Homogenizers

Precision Homogenizers
for Cannabis Testing, Emulsions & Formulation



www.proscientific.com

Oxford, CT 06478 | 203.267.4600 | sales@proscientific.com

Engineered for precision, reliability, and cannabis-specific performance

**PRO
Scientific**

PRO Scientific delivers high-performance mechanical homogenizers and precision-crafted generator probes engineered for the cannabis industry. Our rotor-stator systems provide the power, control, and submicron capability needed for potency testing, pesticide analysis, and creating stable emulsions and formulations. Built to handle a wide range of viscosities, PRO homogenizers generate far more energy than traditional stirring, ensuring efficient, reproducible mixing from micro-volume R&D to multi-liter production. Manufactured in Connecticut, USA with maintenance-free motors and 316 stainless steel, ultra-tight-clearance probes—and supported by a 2-year warranty—PRO systems deliver the durability and consistency required for reliable cannabis testing and product development.



High Power & Smart Motor Protection

PRO homogenizers deliver strong, controllable shear with wide variable-speed ranges. Integrated sensors prevent overheating during long or viscous runs, ensuring reliable performance and longer motor life.



Durable 316 Stainless Steel Generator Probes

Our durable stainless steel probes feature ultra-tight clearances for faster particle reduction, improved uniformity, and the ability to achieve ultrafine, nano-range results—while remaining easy to clean and maintain.



Built for Any Viscosity & Volume

From lightweight oils to honey-thick samples, PRO systems handle a wide range of viscosities and volumes—from 50 mL up to 30 L—with enhanced performance using optional deflector heads.



1,000× more energy for better cannabis results

Mechanical rotor-stator systems generate up to 1,000× more mixing energy than stirring, enabling true emulsion formation, submicron particle reduction, and highly uniform cannabis sample preparation essential for accurate potency testing.

www.proscientific.com

PRO250 Homogenizer



Engineered for fast, reliable processing of cannabis oils, extracts, and emulsions.

The PRO250 is a compact, powerful homogenizer designed for fast, consistent cannabis processing. With **576 watts** of torque and a wide **5,000–30,000 rpm** control range, it handles light oils, thick emulsions, and semi-solid samples with ease. Built-in motor protection supports long or high-viscosity runs, and PRO's 316 stainless steel quick-connect probes ensure efficient particle reduction and simple cleaning.

p/n 01-01250 PRO250 Homogenizer, 120 V, 50/60 Hz, 4.8 A.

p/n 01-02250 PRO250 Homogenizer, 220 V, 50/60 Hz, 2.4 A.

Motor Power	576 W high-torque motor
Speed Range	Variable, 5,000 - 30,000 rpm
Volume Processing Range	0.03 mL - 5 L* *Viscous samples limit max volume.
Speed Control	Manual variable control
Noise Level	Approx. 72 dB
Dimensions	2.75 x 10 x 2.75 in (6.9 x 25.4 x 6.9 cm)
Weight	4 lbs (1.8 kg)

CBD Homogenizing Packages



The PRO250 powers every cannabis homogenizing package for guaranteed performance

Every CBD Homogenizing Package Kit is built around the PRO250, creating a streamlined, turnkey solution for reliable cannabis processing.

INCLUDES	BASIC CBD HOMOGENIZING PACKAGE	BASIC+ CBD HOMOGENIZING PACKAGE	DELUXE CBD HOMOGENIZING PACKAGE	DELUXE+ CBD HOMOGENIZING PACKAGE
PRO250 Homogenizer	✓	✓	✓	✓
20mm x 200mm PRO Quick Connect Generator Probe	✓	✓		
20mm Acetal Resin Deflector Head		✓		
30mm x 200mm PRO Quick Connect Generator Probe			✓	✓
30mm Acetal Resin Deflector Head				✓
Storage Case	✓	✓	✓	✓
PART NUMBER	PK-01250B 115V PK-02250B 220V	PK-01250BP 115V PK-02250BP 220V	PK-01250D 115V PK-02250D 220V	PK-01250DP 115V PK-02250DP 220V
PROCESSING VOLUME				
Non-viscous (vegetable oil like consistency)	3L	4L	5L	5L
More viscous (lotion like material)	500-750ml	750ml	1L	2-3L
Extremely viscous (flowable heated honey)	100ml	100ml	300-500ml	500-750ml

PRO25D Homogenizer



Precise digital control for versatile cannabis processing

The PRO25D is a compact digital homogenizer built for precise, controlled cannabis processing. With a powerful motor and a 0–30,000 rpm digital speed range, it offers fine-tuned adjustment for accurate, repeatable results. Its broad 0.05 mL to 3.5 L processing capacity handles oils, emulsions, and thicker samples up to 50,000 mPas, while user-friendly controls and PRO's 316 stainless steel quick-connect probes ensure efficient homogenizing, blending, and easy cleaning.

p/n 01-25100 PRO25D Homogenizer, 120 V, 50/60 Hz, 4.8 A.
p/n 01-25200 PRO25D Homogenizer, 220 V, 50/60 Hz, 2.4 A.

Motor Power	576 W high-torque motor
Speed Range	Variable, 0 - 30,000 rpm
Volume Processing Range	0.03 mL - 3.5L* *Viscous samples limit max volume.
Speed Control	Digital LED display with 3-turn precision speed adjust
Noise Level	Approx. 68 dB
Dimensions	14 x 12 x 24 in (36 x 31 x 61 cm)
Weight	8 lbs (8.16 kg)



D-Series Homogenizer

The PRO400 D-Series benchtop homogenizer is built for large-volume cannabis processing, delivering strong, controlled homogenization across a wide range of viscosities. Powered by a 1305-watt, 1 ¾ hp motor and a robust rotor–stator design, it supports efficient, production-scale throughput with the consistency and repeatability needed for testing and formulation work. Both standard and extended-length (EL) stand options are available, allowing proper probe immersion in containers of varying heights for optimal mixing performance.



p/n 01-01400DS PRO400 D-Series Homogenizer, 120 V, 50/60 Hz, 10 A
p/n 01-02400DS PRO400 D-Series Homogenizer, 220 V, 50/60 Hz, 5 A
p/n 01-01400DSEL PRO400 D-Series "EL" Homogenizer, 120 V, 50/60 Hz, 10 A
p/n 01-02400DSEL PRO400 D-Series "EL" Homogenizer, 220 V, 50/60 Hz, 5 A

Processing volume guidelines by viscosity

Non-viscous (oil-like) samples:
Ideal capacity 20–30 liters

Viscous (lotion-like) samples:
Typical capacity 15–20 liters

Extremely viscous (flowable honey) samples:
Approximate capacity 5–10 liters

Motor Power	1305 W high-torque motor
Speed Range	Variable, 0 - 23,000 rpm
Volume Processing Range	0.05 mL - 30 L* *Viscous samples limit max volume.
Speed Control	Digital variable-speed control
Noise Level	Approx. 68 dB
Dimensions	DS Version: 15.25 x 14 x 30 in (38.7 x 35.6 x 76.2 cm) DS EL Version: 15.25 x 14 x 41 in (38.7 x 35.6 x 104.1 cm)
Weight	DS Version: 39 lbs (17.7 kg) DS EL Version: 41 lbs (18.6 kg)

PRO Quick Connect Generator Probes & Deflector Heads



Precision-engineered probes break samples down to submicron levels—far beyond what stirring alone can achieve.

PRO generator probes use ultra-narrow rotor–stator clearances for fast, efficient, submicron-level homogenization—far beyond what stirring can achieve. Their anti-foaming, quick-connect design allows one-screw disassembly for easy cleaning, and replaceable parts help extend probe life.

PRO Deflector Heads improve vertical movement to prevent stagnation and enhance homogenization of large-volume or high-viscosity samples. Available for all probes 20 mm and wider in Acetal Resin or 316 Stainless Steel, they significantly boost performance when processing thick or heavy formulations.

DESCRIPTION	DIAMETER	LENGTH	COMPATIBILITY	PART NUMBER
20mm x 200mm PRO Quick Connect Generator Probe	20MM	200MM	PRO250, PRO25D, ALL D-SERIES UNITS	02-20200
30mm x 200mm PRO Quick Connect Generator Probe	30MM	200MM	PRO250, PRO25D, ALL D-SERIES UNITS	02-30200
30mm x 340mm PRO Quick Connect Generator Probe	30MM	340MM	FOR USE WITH D-SERIES EL VESIONS ONLY	02-30340
37mm x 200mm PRO Quick Connect Generator Probe	37MM	200MM	ALL D-SERIES UNITS	02-37200
37mm x 340mm PRO Quick Connect Generator Probe	37MM	340MM	FOR USE WITH D-SERIES EL VESIONS ONLY	02-37340
43mm x 340mm PRO Quick Connect Generator Probe	43MM	340MM	FOR USE WITH D-SERIES EL VESIONS ONLY	02-43340
DEFLECTOR HEAD	DIAMETER	MATERIAL	COMPATIBILITY	PART NUMBER
20MM ACETAL RESIN	20MM	ACETAL RESIN	20MM PRO QUICK CONNECT GENERATOR PROBES	02-20000D
20MM STAINLESS STEEL	20MM	STAINLESS STEEL	20MM PRO QUICK CONNECT GENERATOR PROBES	02-20000S
30MM ACETAL RESIN	30MM	ACETAL RESIN	30MM PRO QUICK CONNECT GENERATOR PROBES	02-30000D
30MM STAINLESS STEEL	30MM	STAINLESS STEEL	30MM PRO QUICK CONNECT GENERATOR PROBES	02-30000S



PRO Scientific Homogenizers are consistently rated 5 stars by our customers.

Reviews collected by an independent 3rd-Party, SelectScience.

"Necessity here in the lab."

We use our homogenizer to Emulsify Beverages

This device came delivered in a very short lead time and it is easy to use and train personnel on. I would recommend this product out there to any laboratory to further analyze samples.

"Great results, easy to setup and easy to break down."

This is a very well made machine. Easy to setup, powerful and easy to breakdown and clean. I was having issues with properly homogenizing my CBD into skin care oil based products. I use this the 250 and after one initial use my lab results came back extremely accurate. The molecule dispersal was excellent.

"Consistently effective, easy to use, homogenizing CBD tinctures."

Our hand held homogenizer has worked perfectly, been easy to clean and maintain, and we have had zero issues with its incorporation into our production line. Looking forward to when we upgrade to a bigger model!



www.proscientific.com/cannabis



Oxford, CT 06478 | 203.267.4600 | sales@proscientific.com