



TECHNICAL SPECIFICATION

COLO-DT806

Manual Sampling Dissolution Instrument

[Abstract](#)

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COLO-DT806 Manual Sampling Dissolution Instrument

DT806

8 vessels / 8 shafts

±0.2°C stability

manual sampling / 45 points

10–300 rpm

60 kg / 2 kW

USP, ChP

fully compliant

Meets mechanical validation guides

coaxial

paddle / basket / cylinder / disc / small cup / immersion

≥3 levels

user permissions, up to 1000 accounts

~25k records

audit trail, backup, paperless

1. Technical Data – COLO-DT806

Name	Manual Sampling Dissolution Instrument
Type / model	COLO-DT806
Dissolution cups quantity	8 cups (1000 mL glass)
Levelness	$\leq 0.2^{\circ}$
Verticality of rotation shaft	$90.0^{\circ} \pm 0.5^{\circ}$
Verticality of dissolution cup	$90.0^{\circ} \pm 0.5^{\circ}$

Coaxiality cup / shaft	$\leq 1.0 \text{ mm}$
Swing of rotation shaft	$\leq 0.2 \text{ mm}$
Swing of rotation basket	$\leq 0.5 \text{ mm}$
Vibration degree	No obvious vibration
Rotating shaft speed	10 – 300 rpm
Heating method	Water bath heating
Temperature control	Room temperature – 45°C, deviation $< \pm 0.2^\circ\text{C}$

Sampling method	Manual sampling
Maximum working time	9999 h
Sampling points quantity	45
External dimensions (L×W×H)	570 × 720 × 630 mm
Power supply	AC220±10%V, 50/60Hz
Power	2 kW
Weight	60 kg

2. Key mechanical features

Coaxial paddle/basket design

Same drive head accepts paddle, basket, rotating cylinder, paddle disc, small cup, immersion pool; sealing rings for no looseness; quick method change.

Shaft precision

Shaft swing $\leq \pm 0.2$ mm; dual-bearing top fixation ensures long-term coaxiality & verticality.

Automatic lifting system

Patented automatic platform keeps head horizontal, preserves alignment; no risk of mechanical drift.

Automatic center positioning cup

Integrated dissolution cup with self-centering & automatic locking; centering change after 1000 unloading cycles ≤ 0.3 mm.

Temperature control

Handheld PT100 probes flexible for each cup; accuracy $\leq \pm 0.2^\circ\text{C}$.

3. Standard configuration list

#	Description	Qty
1	COLO-DT806 apparatus (complete set)	1 set
2	Drive head, 8 positions	1 pc
3	Automatic lifting device	1 pc
4	8.0" high-resolution touch screen	1 pc
5	Vessel cover	8 ea

#	Description	Qty
6	Water tank (bath)	1 ea
7	1000 mL glass vessel	8 ea
8	SS 316L shaft	8 ea
9	SS 316L paddle blade	8 ea
10	Top for basket with stirring shaft	8 ea
11	Basket without cover, 40 mesh	8 ea

#	Description	Qty
12	Mobile temperature sensor (PT100)	1 ea
13	Calibration ball (Φ25 mm)	8 ea
14	Accessory rack	1 ea
15	Software (fully compliant data integrity, >1000 accounts, >1000 storage methods)	1 license
16	PEEK sampling probe (manual sampling device)	8 pc
17	Manual sampling locator	1 ea

#	Description	Qty
18	Sampling probe fixture	8 pc
19	Silicone dust plug	8 pc
Documents included		
20	Installation automated system (including IQ)	1 ea
21	Operational Qualification (OQ)	1 ea
22	Performance Qualification (PQ)	1 ea

#	Description	Qty
23	Operating manual	1 ea
24	Inspection report	1 ea
25	Certification	1 ea
26	Warranty card	1 ea

4. Software, user management & integrity

User permission levels

At least three (admin, supervisor, operator); up to 1000 preset accounts; user groups and custom role permissions

Enterprise integration

Connect to enterprise servers, synchronize domain accounts

Audit trail

Login, operations, experiments, exceptions – electronic data protected, cannot be edited/deleted; storage ~25,000 records

Backup & remote

USB or enterprise server real-time backup; remote view/print via server login

Paperless report

Network printer; store locally/USB/server; search & print per experiment

Remote OS upgrade

Supported (free remote upgrade service based on customer needs)

5. Optional: COLO-260DT mechanical certification system

Description

COLO-260DT mechanical verification system – third-party metrology instruments + workstation software. Compatible with all open dissolution testers. Bluetooth real-time data transmission, 3Q verification services (IQ, OQ, PQ) available.

6. Technical service system

Support

Phone, email, remote access, on-site maintenance

Spare parts

Dedicated warehouse, agreements with key suppliers

Annual maintenance

1-2 in-depth system inspections per year

System upgrade

Remote assistance for OS upgrades

Verification

Engineers on-site for emergency needs

Compliance & mechanical validation: Instrument fully meets USP, ChP and guiding principles for mechanical validation. All data according to original PDF documentation (pages 1-10). Some features (like COLO-260DT) are non-standard optional configurations.

COLO.Science · dissolution specialist

spec based on COLO-DT806 manual (02/2026) · landscape website version

⚙ Specifications subject to change without notice · always check order confirmation.

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