

# YD-C400 | Automatic

## Automatic Biochemistry Analyzer



Branding visualization. Supplied finish is subject to order confirmation.

A 400-test-per-hour automated clinical chemistry system with 96 sample positions, 80 reagent positions and bidirectional LIS/HIS connectivity for routine laboratory workloads.

**400 tests/hour**

Analytical throughput

**96 positions**

Sample capacity

**80 positions**

Reagent capacity

**90 positions**

Reaction capacity

**Flexible sampling**

A circular sample tray with cooling accommodates routine and STAT samples, calibrators and quality-control materials.

**Mixing and cleaning**

Two independent stirring paddles support uniform mixing. Automatic multi-stage washing helps minimize cross-contamination.

**Connected reporting**

A graphical interface, bidirectional LIS/HIS connectivity and multiple report formats support daily operation with compatible reagents, calibrators and controls.

# YD-C400 | Specifications

|                              |                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------|
| Test speed                   | 400 tests/hour                                                                                         |
| Simultaneous test items      | >40                                                                                                    |
| Sample positions             | 96                                                                                                     |
| Reagent / reaction positions | 80 / 90                                                                                                |
| Specimen types               | Whole blood, serum, plasma, urine, CSF, pleural and ascitic fluids; assay-specific validation required |
| Sample volume                | 1.5-50 µL; 0.2 µL steps                                                                                |
| Reagent volume               | 10-350 µL; 1.0 µL steps                                                                                |
| Reaction volume              | 150-500 µL                                                                                             |
| Light source                 | 13.8 V, 50 VA halogen lamp                                                                             |
| Photometric range            | 0-3.0 Abs                                                                                              |
| Wavelengths (9)              | 340, 405, 450, 510, 546, 578, 620, 660, 690 nm                                                         |
| Temperature control          | 37 °C ± 0.1 °C                                                                                         |
| Cleaning                     | 8-stage washing; supplier literature specifies six levels repeated twice                               |
| Connectivity                 | Bidirectional LIS/HIS; multiple report formats                                                         |
| Power                        | AC 110/220 V ± 10%, 50/60 Hz                                                                           |
| Dimensions (L × W × H)       | 930 × 700 × 1130 mm                                                                                    |
| Weight                       | 112 kg                                                                                                 |

# YD-C400 | Reference reagent menu

Reference reagent menu from the supplied literature. Confirm analyzer-specific application settings, specimen suitability, compatible reagents and local regulatory availability for each assay. HbA1c is a chemistry assay, not HPLC variant analysis.

## Liver function

ALB, TP, ALP, ALT, AST,  $\gamma$ -GT, DB, TB, CHE, AFU, TBA, ADA, 5'-NT, mAST, CG, PA, MAO, GR

## Blood lipids

CHOL, TG, HDL-C, LDL-C, NEFA, Lp(a), ApoA1, ApoB, ApoE, HCY, sdLDL-C, Lp-PLA2

## Renal function

Urea, UA, Crea, CYS,  $\beta$ 2-MG,  $\alpha$ 1-MG, NGAL, NAG, MALB, RBP

## Cardiac markers

CK, CK-MB, LDH, cTnI,  $\alpha$ -HBDH, LDH1, Myo, H-FABP, IMA, ACE

## Inflammation

ASO, RF, CRP, hs-CRP, Anti-CCP, PCT, SAA

## Specific proteins

IgA, IgG, IgM, C3, C4, Fg, AAG, HPT, TRF, AAT, IgG4, C1q, ASO, RF, CRP, SAA, hs-CRP, Anti-CCP, PCT, MMP3, KL-6

## Glucose metabolism

GLU, FMN, HbA1c, GA, ADPN,  $\beta$ -HB

## Minerals and related assays

Ca, P, CO<sub>2</sub>, Cl, Mg, Fe, Cu, Zn

## Pancreatic and other markers

$\alpha$ -AMY, LPS, PG I, PG II, SA, SOD

## Calibration and controls

CMCAL, CMCON1, CMCON2 (supplier reference codes)

For professional use. Availability, application settings and regulatory status must be confirmed for the target market. Request compatible reagents and current documentation from our team.