

Parameters

| Classification     |                   | Parameter        | Measurement range (*) |         |          |         | Measurement time (min.) |         |        |
|--------------------|-------------------|------------------|-----------------------|---------|----------|---------|-------------------------|---------|--------|
|                    |                   |                  | Unit (A)              |         | Unit (B) |         |                         |         |        |
| Biochemical tests  | Enzymes           | ALP              | 14                    | – 1183  | U/L      | 0.23    | – 19.76                 | μ Kat/L | 4      |
|                    |                   | AMYL             | 10                    | – 1800  | U/L      | 0.17    | – 30.06                 | μ Kat/L | 5      |
|                    |                   | CHE              | 5                     | – 500   | U/L      | 0.08    | – 8.35                  | μ Kat/L | 4.5    |
|                    |                   | CKMB             | 1                     | – 300   | U/L      | 0.02    | – 5.01                  | μ Kat/L | 5      |
|                    |                   | CPK              | 10                    | – 2000  | U/L      | 0.17    | – 33.40                 | μ Kat/L | 4      |
|                    |                   | GGT              | 10                    | – 1200  | U/L      | 0.17    | – 20.04                 | μ Kat/L | 5      |
|                    |                   | GOT/AST          | 10                    | – 1000  | U/L      | 0.17    | – 16.70                 | μ Kat/L | 4      |
|                    |                   | GPT/ALT          | 10                    | – 1000  | U/L      | 0.17    | – 16.70                 | μ Kat/L | 4      |
|                    |                   | LAP              | 10                    | – 500   | U/L      | 0.17    | – 8.35                  | μ Kat/L | 4      |
|                    |                   | LDH              | 50                    | – 900   | U/L      | 0.84    | – 15.03                 | μ Kat/L | 2      |
|                    | LIP               | 20               | – 1000                | U/L     | 0.33     | – 16.70 | μ Kat/L                 | 5       |        |
|                    | General chemistry | ALB              | 1.0                   | – 6.0   | g/dL     | 10      | – 60                    | g/L     | 6      |
|                    |                   | BUN              | 5.0                   | – 140.0 | mg/dL    | 1.79    | – 49.98                 | mmol/L  | 4      |
|                    |                   | Ca               | 4.0                   | – 16.0  | mg/dL    | 1.00    | – 4.00                  | mmol/L  | 4      |
|                    |                   | CRE              | 0.2                   | – 24.0  | mg/dL    | 18      | – 2122                  | μmol/L  | 5      |
|                    |                   | DBIL             | 0.1                   | – 16.0  | mg/dL    | 2       | – 274                   | μmol/L  | 5      |
|                    |                   | GLU              | 10                    | – 600   | mg/dL    | 0.6     | – 33.3                  | mmol/L  | 6      |
|                    |                   | HDL-C            | 10                    | – 110   | mg/dL    | 0.26    | – 2.84                  | mmol/L  | 6      |
|                    |                   | IP               | 0.5                   | – 15.0  | mg/dL    | 0.16    | – 4.84                  | mmol/L  | 5      |
|                    |                   | Mg               | 0.2                   | – 7.0   | mg/dL    | 0.08    | – 2.88                  | mmol/L  | 4.5    |
|                    |                   | NH3              | 10                    | – 500   | μg /dL   | 7       | – 357                   | μmol/L  | 2      |
|                    |                   | TBIL             | 0.2                   | – 30.0  | mg/dL    | 3       | – 513                   | μmol/L  | 6      |
|                    |                   | TCHO             | 50                    | – 450   | mg/dL    | 1.29    | – 11.64                 | mmol/L  | 6      |
|                    |                   | TCO <sub>2</sub> | 5                     | – 40    | mmol/L   | 5       | – 40                    | mmol/L  | 5      |
|                    |                   | TG               | 10                    | – 500   | mg/dL    | 0.11    | – 5.65                  | mmol/L  | 4      |
|                    |                   | TP               | 2.0                   | – 11.0  | g/dL     | 20      | – 110                   | g/L     | 6      |
|                    |                   | UA               | 0.5                   | – 18.0  | mg/dL    | 30      | – 1071                  | μmol/L  | 4      |
|                    |                   | Electrolytes     | Na                    | 75      | – 250    | mEq/L   | 75                      | – 250   | mmol/L |
|                    | K                 |                  | 1.0                   | – 14.0  | mEq/L    | 1.0     | – 14.0                  | mmol/L  |        |
|                    | Cl                |                  | 50                    | – 175   | mEq/L    | 50      | – 175                   | mmol/L  |        |
| Immunological test |                   | CRP              | 0.3                   | – 7.0   | mg/dL    | 3       | – 70                    | mg/L    | 5      |

There are parameters which may not be available in your area. For details please contact your local distributor.

\*Unit (A) or (B) is available

Calculations

| Calculated Parameter          | Indication        | Unit            | Equation                                                      |
|-------------------------------|-------------------|-----------------|---------------------------------------------------------------|
| LDL Cholesterol               | LDL-C             | mg/dL           | LDL-C = TCHO value - (HDL-C vlaue + TG value/5)               |
|                               |                   | mmol/L          | LDL-C = TCHO value - (HDL-C value + TG value/2.2)             |
| non-HDL Cholesterol           | non-HDL-C         | mg/dL or mmol/L | non-HDL = TCHO value - HDL-C value                            |
| Globulin                      | GLOB              | g/dL or g/L     | GLOB = TP value - ALB value                                   |
| Albumin/Globulin ratio        | ALB/GLOB          | -               | ALB/GLOB = ALB value / (TP value - ALB value)                 |
| BUN/Creatinine ratio          | BUN/CRE           | -               | BUN/CRE = BUN value / CRE value                               |
| GOT/GPT ratio (AST/ALT ratio) | GOT/GPT (AST/ALT) | -               | GOT/GPT=GOT value / GPT value (AST/ALT=AST value / ALT value) |
| Sodium/Potassium ratio        | Na/K              | -               | Na/K=Na value / K value                                       |
| Anion Gap                     | Anion Gap         | mEq/L or mmol/L | Anion Gap = Na value - (Cl value + TCO <sub>2</sub> value)    |

Main specifications

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Measurement test         | Colorimetry 28 tests, Electrolytes 3 tests                               |
| Throughput               | Colorimetry 120 test/hour, Combined 128 test/hour                        |
| Number of sample rack    | 1                                                                        |
| Number of incubator cell | Colorimetry 13, Electrolytes 1                                           |
| Measurement time         | Colorimetry 2 to 6 minutes/test, Electrolytes 1 minute/3 tests (Na-K-Cl) |
| Sample type              | Plasma, Serum, Whole blood*                                              |
| Sample volume            | Colorimetry 10μL/test, Electrolytes 50μL/3 tests (Na-K-Cl), CRP 5μL/test |
| Data transmission to PC  | RS 232C (1 port), USB (2 port), LAN (1 port)                             |
| Data print               | Thermal Printer                                                          |
| Electrical requirements  | Single phase AC; 100 - 240 V ±10%; 50 to 60 Hz                           |
| Display                  | 7-inch color touch panel                                                 |
| Dimensions               | 470 (W) × 360 (D) × 370 (H) mm                                           |
| Weight                   | Approx. 28 kg (with PF unit)/26 kg (without PF unit)                     |
| Operating temperature    | 15 to 32°C (59 to 89F)                                                   |
| Operating humidity       | 30 to 80%RH                                                              |
| Altitude                 | Up to 2,000 m (810 hPa)                                                  |

\* NH3-W: Whole blood only NH3-P: Plasma only  
Na-K-Cl: Plasma, Serum, Whole blood Other test items: Plasma, Serum

DRI-CHEM NX600 Series

|                        | NX600 | NX600i |
|------------------------|-------|--------|
| Electrolyte tests      | ●     | ●      |
| Plasma Filter Function | ●     | —      |
| Automatic dilution     | ●     | ●      |

Please contact your local distributor for availability.

Option Items

Barcode Reader

Barcode reader is available as option item to read sample ID on sample tube.



FUJI DRI-CHEM OPERATOR ID EDITOR KIT

For registering and editing operator ID on a PC and importing them into an analyzer.

Applicable Sample /Tube

- φ16 × 100 mm blood collection tube
- φ13 × 100 mm blood collection tube
- 1.5 mL Fuji tube
- 0.5 mL Fuji tube
- φ16 × 100 mm blood collection tube (when using PF)
- φ13 × 100 mm blood collection tube (when using PF)
- φ13 × 75 mm blood collection tube (when using PF)

DRI-CHEM NX600 (Product:FUJI DRI-CHEM NX600/FUJI DRI-CHEM NX600i)

The specifications and appearance of the present brochure may be changed without prior notification in order to improve the system. Please be sure to read the instruction manualcarefully for proper use of the equipment.

FUJIFILM  
Value from Innovation

Automated Clinical Chemistry Analyzer



Immediacy and flexibility in a single unit.

NEW

DRI-CHEM NX600



FUJIFILM

FUJIFILM Corporation

26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN  
http://www.fujifilm.com/products/medical/

# Advanced operations in a smaller body.

- 1 Large, easy-to-operate touch panel with fast response time
- 2 Intuitive and simple operation
- 3 Improved workflow for setting consumables with the Consumable Disk.

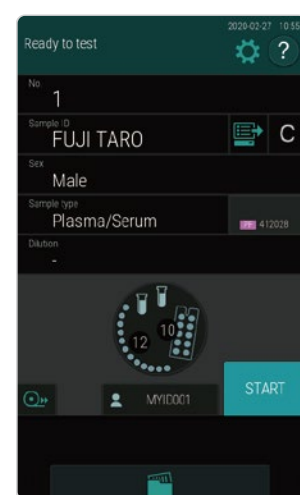
## Why has Fuji DRI-CHEM technology been chosen for the past forty years / 4 decades?

Fujifilm utilizes technology it has cultivated in the field of photography. In the subsequent 4 decades, we have worked on improving ease-of-use and downsizing the analyzer. That is why FUJII DRI-CHEM devices are used at various medical sites, such as outpatient clinics, hospital laboratories and medical laboratories. In addition, it can be used in situations where the water supply is interrupted by disasters.



## Large, 7-inch, intuitive LCD touch panel

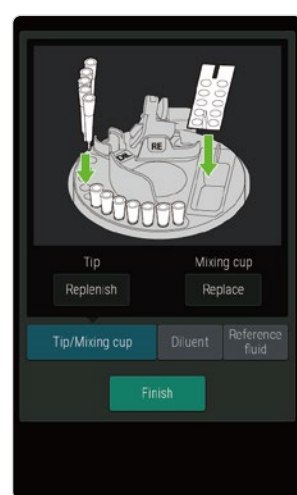
The simple and easy-to-use operation screen provides a swift transition speed of 0.5 seconds or less for stress-free operation.



Setup screen



Display of results



Help screen

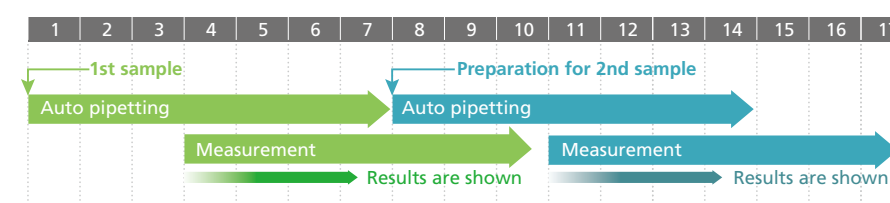
## 3-Step easy measurement

Set the slide and the specimen, then press the Start key. All the processes hereafter are fully automated.

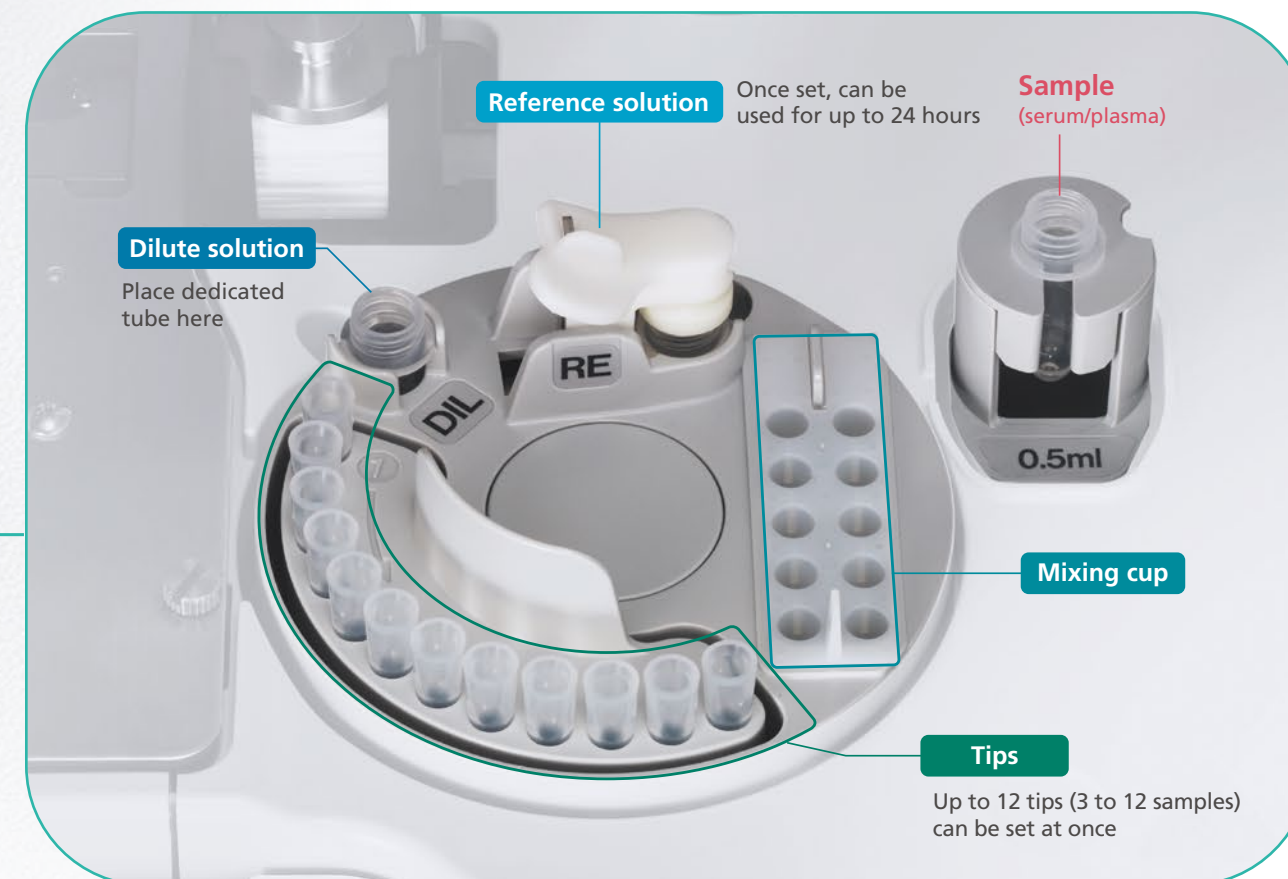


## Continuous measurement

As soon as the pipetting procedure for the first sample is completed, the slides for the next sample can already be set and the test started. This minimizes waiting times for patients.



# Improved design supports smooth workflow



## Set consumables for multiple samples at once

The layout is simpler than our previous models, and this makes it easier to set consumables. Multiple tips can be set at once, which eliminates the need to set reference solution for each measurement. This reduces the frequency of consumable replacement.

## Functions

10  $\mu$ L / test

### Patient-friendly testing

Each test needs only 10  $\mu$ L of sample. (CRP needs 5  $\mu$ L/test, ISE needs 50  $\mu$ L/3 tests). Manual pipetting can be also performed when the sample is less. Less invasive for newborns at NICU. \*50  $\mu$ L are used for the simultaneous measurement of 3 electrolyte items.



### Easy lot compensation by QC card

Corrections are made simply by reading the QC card included in the slide package into the main unit. \*CRP: Calibration is required. ISE: Calibration and correction are not necessary. QC card is not attached.



### Wide range of usable blood collection tubes

In addition to Fuji tubes (0.5/1.5 mL), commercially available blood collection tubes can be used as specimen tubes. \*Please select suitable sample racks for your work flow. (refer last page: Option items/Sample Rack)



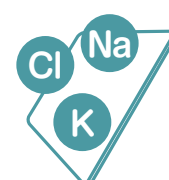
### Minimize the risk of biological hazard

Slide reagents after measurement are automatically discarded to the disposal box, minimizing the risk of contamination.

128 test/h

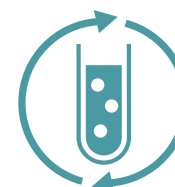
### High throughput

128 tests can be processed per hour.



### Electrolyte measurement function

Electrolytes (Na-K-Cl) can also be measured.



### Automatic dilution function

Labor intensive operations like dispensing, mixing etc. are automated. The only operation is to input the dilution ratio.



### Complies with international standards (HL7)

Complies with international standards. Smoothly links with a facility's host system.

# Reliable technology ensures test quality.

The FUJI DRI-CHEM slide reagent has high reliability and stability thanks to fine chemical technology cultivated through FUJIFILM's long history in photographic film manufacturing. Less variation of results between operators, high result reproducibility and daily precision, and excellent correlation with wet chemistry are its remarkable features.

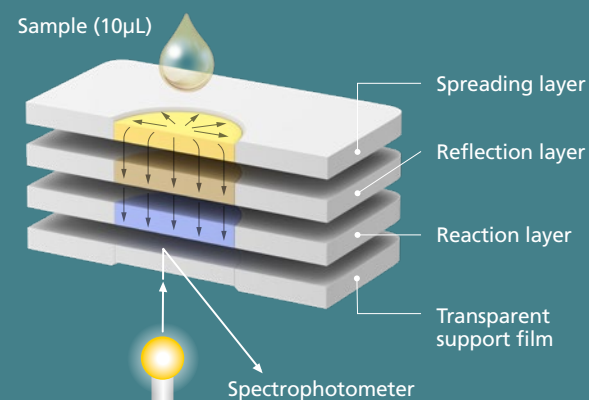
## FUJI DRI-CHEM SLIDE Two types of slides are provided for different test items.

### Colorimetric method slide

Enzymes, General chemistry, and Immunology



This multilayered slide is composed of dry chemical ingredients needed for the reaction and other functional materials. It quantifies enzymes and chemicals using a colorimetric method.

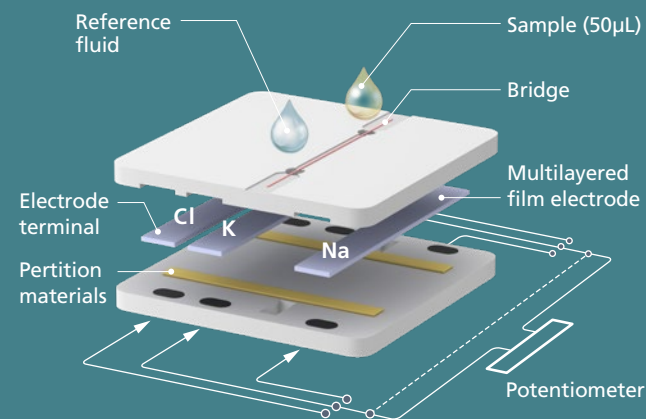


### Potentiometric method slide

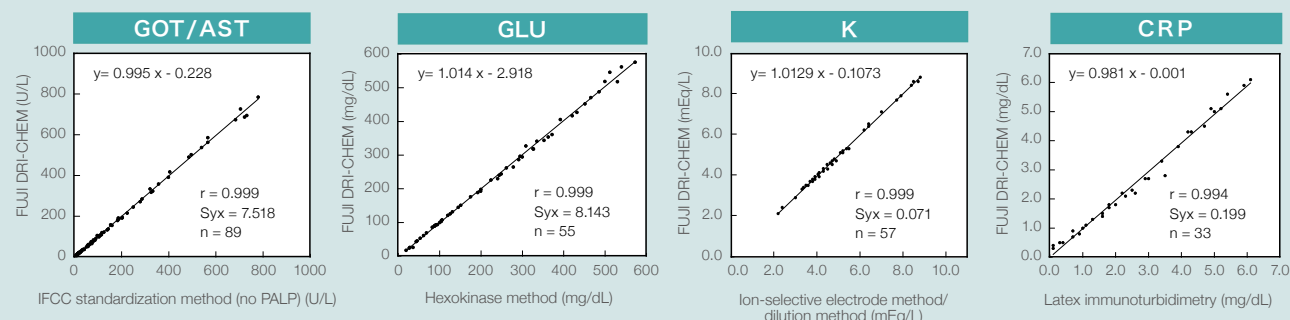
Electrolytes



Each slide comes with an ion selective film electrode for each of Na, K, and Cl. Slides quantify electrolytes in the sample by a potentiometric method.



## Accurate and reliable test results from long-term and field-proven technology & experience



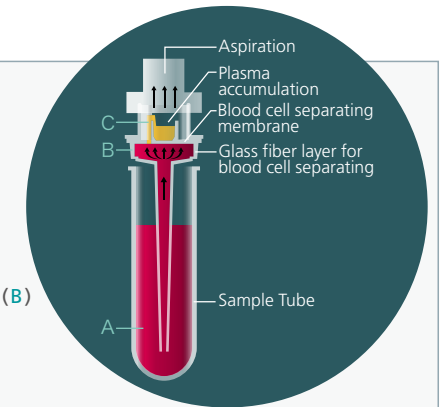
## Plasma Filter

### Blood separation in 1 minute

Plasma Filter (PF) can cut the turn around time and the pre-treatment process of the sample. It can generate a plasma sample by aspirating and separating the whole blood inside the PF within 1 minute. Just set the PF on top of the sample tube and press START.

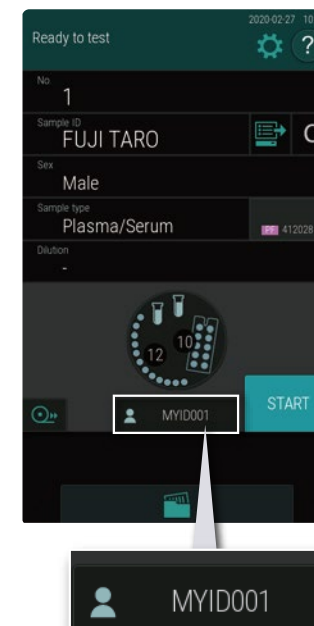
\* This function is not available in the NX600i  
 \* TCO2: not applicable

- 1 Read PF card.
- 2 Set PF on the top of sample tube. (A)
- 3 Press Start.
- 4 Suction unit move to be connected on PF and start aspiration of whole blood. (B)
- 5 Whole blood is separated at the glass fiber layer in PF to sample plasma. (C)



## Operator Information Record

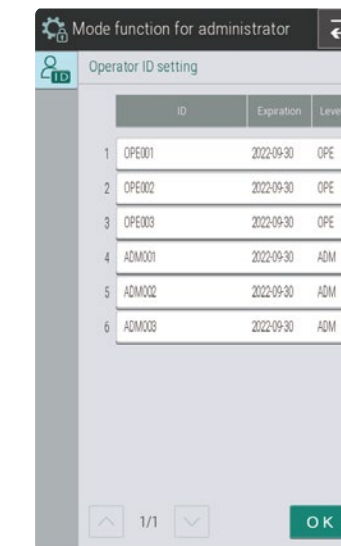
Operator information can be recorded with test results.



## User Safety Mode (USM)

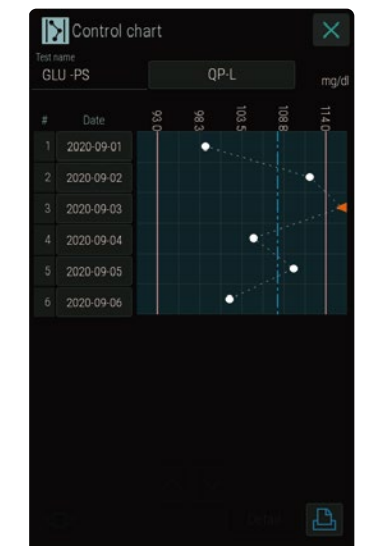
Only the registered person can operate the NX600.

\*For this application, FUJI DRI-CHEM OPERATOR ID EDITOR KIT is necessary to register and edit operator ID on a PC.



## Built in quality control tools

Quality control in the NX600 is made easier with the advance QC functions. Results of quality control can be viewed on the NX600 screen.



## Specifications FUJI DRI-CHEM NX series

|                                             | Single-specimen analyzer                      | Multi-specimen analyzer                       |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                             |                                               |                                               |
| Series name                                 | <b>FUJI DRI-CHEM NX600</b>                    | <b>FUJI DRI-CHEM NX700</b>                    |
| Width × depth × height                      | 470(W) × 360(D) × 370(H) mm                   | 500(W) × 380(D) × 410(H) mm                   |
| Weight                                      | 28 kg                                         | 33 kg                                         |
| Number of measurement cells                 | 13 colorimetric + 1 electrolyte (independent) | 13 colorimetric + 1 electrolyte (independent) |
| Throughput (1) (only colorimetry)           | 120 tests/hour                                | 180 tests/hour                                |
| Throughput (2) (colorimetry + electrolytes) | 128 tests/hour                                | 190 tests/hour                                |
| Throughput (3) (15-item measurements)       | approx. 9 minutes                             | approx. 9 minutes                             |
| Number of specimen that can be set          | 1 specimen                                    | 5 specimens at the same time                  |