

Dialog⁺

Outstanding usability and reliability for an effective therapy



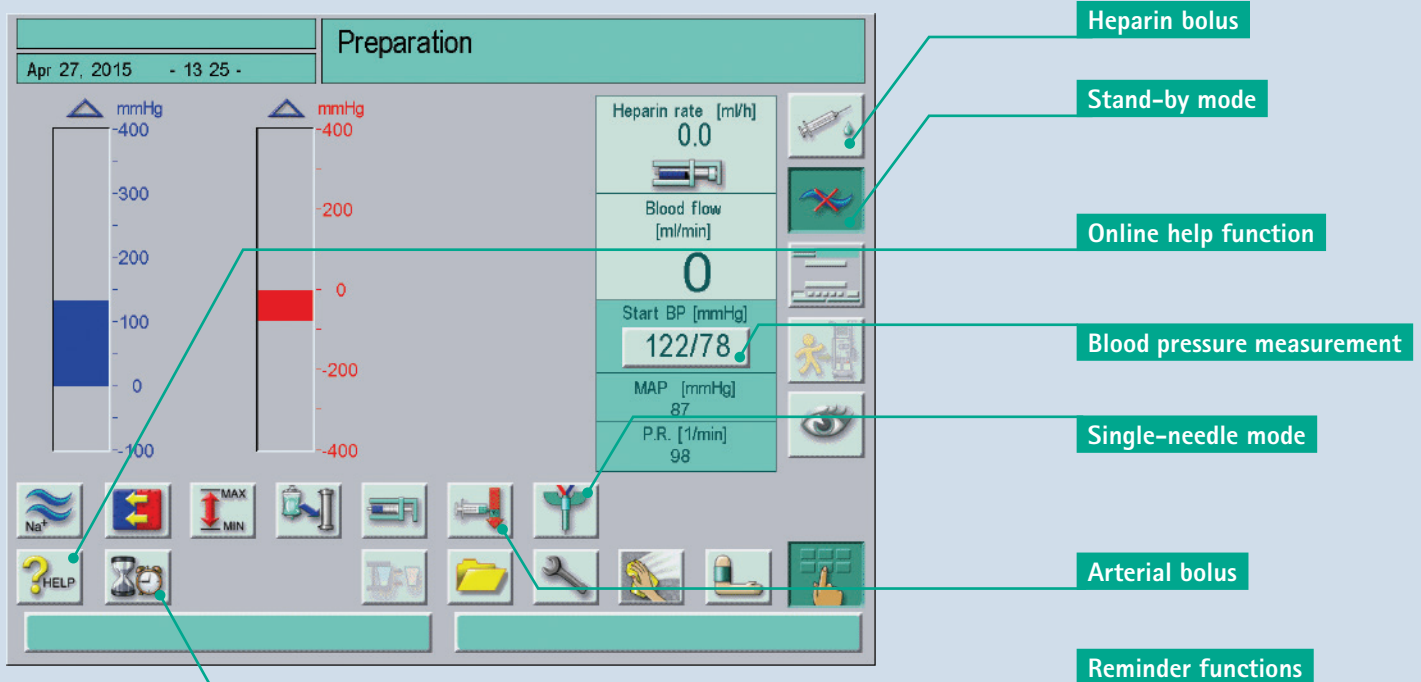
Hemodialysis

Our highly intuitive interface improves usability and safety

Intuitive user guide

The neatly arranged touch screen allows easy and fast operation. Even users with less experience benefit from the self-explanatory icons and the clear user guide. Online help functions and messages in plaintext support the user in all operating phases. As a result, medical staff can quickly and reliably take the appropriate measures. Reminder functions – e.g., for drug

administration, blood pressure measurements and heparin administration – assist the user, thus assuring optimized treatment procedures even in phases of frenzied activity. The intuitive operation of the system is also ensured in stressful situations, so that the user can always rely on the system's safety.



Dialog+ graphic user interface in Preparation Mode

Benefits of Dialog+ – Usability

- 15" touch screen with iconographic interface
- Self-explanatory and intuitive software
- Smart functions like reminder and arterial bolus
- Ergonomic arrangement of machine components
- Short preparation and disinfection times
- Simplified management of access problems by easy-to-use single-needle mode

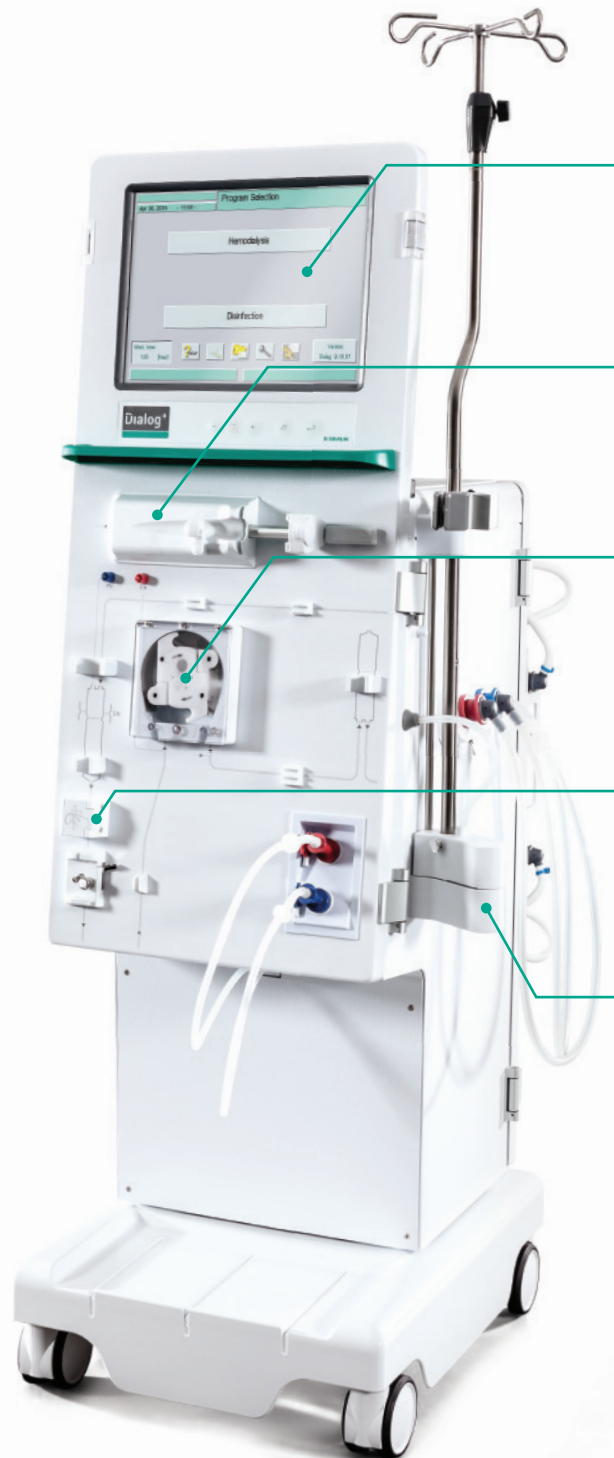
Meeting requirements through operating reliability and treatment efficiency

Reliability and cost efficiency made with the expertise of B. Braun

With our more than fifty years of experience in the field of extracorporeal blood treatment, we can ensure that the excellent quality of all our products remains on a high level. The well-engineered technology ensures reliable functionality.

The balanced price-performance ratio is convincing over the entire system lifetime, providing economic efficiency in daily operation.

The requirement for high treatment quality is also reflected by the B. Braun commitment to the highest safety standards.



Benefits of Dialog+ – Reliability

- High mean time before failure
- Robust assembly and technology
- Application of high technical standards by consistent global processes

Benefits of Dialog+ – Cost-effectiveness

- Efficient consumption of resources in treatment
- Dialysis fluid filter lasting 150 treatments or 900 hours
- Stand-by mode reducing dialysate flow to 0 ml/min before connecting the patient
- Possibility to use standard bloodlines and concentrates for maximum customer flexibility

Important information at a glance

15" touch screen
with iconographic interface

Heparin pump

Blood pump

Safety air detector
and red detector

Bicarbonate cartridge holder

Machine	Item number ²
Dialog ⁺ (single pump and battery backup)	710200A
Dialog ⁺ (single pump, battery backup and BIC cart. holder)	710200I
Option	Item number
ABPM	7102226
Battery backup	7102244
Dialog computer interface	7107218
Dialysate flow filter	7102102
Blood pump roller 7x10	7102340

General data

Nominal voltage:	230 V (option: 120/240 V)
Nominal frequency:	50 Hz / 60 Hz
Nominal current (max.):	max. 11 A for 230 V
Dimensions (W x D x H):	approx. 510 x 637 x 1678 mm
Weight (empty):	approx. 78 kg in the basic design

Water intake	
Pressure range:	0.5 to 6 bar
Temperature range:	+10 to +30°C
Concentrate supply:	canisters, bicarbonate cartridge
Pressure range:	0 to +1 bar
Standards:	EN 60601-1: (IEC 601-1) EN 60601-2-16: (IEC 601-2-16) EN 60601-1-2: (IEC 601-1-2)

Produced in conformity with directive 93/42/EEC



Dialysis fluid system

Temperature working range:	selectable between +33 and +40°C
Conductivity processing:	conductivity regulated
Working range:	- conductivity of bicarbonate 2 to 4 mS/cm or 4 to 7 mS/cm - total conductivity 12.5 to 16 mS/cm
Measurement tolerance:	±0.2 mS/cm
Flow:	300 to 800 ml/min
Tolerance:	±5%
Blood leak detector:	optical, color-specific
Alarm limit value:	> 0.50 ml/min (HCT 45%) > 0.35 ml/min (HCT 25%)
Ultrafiltration:	- volume regulated through the balance chamber, - sequential ultrafiltration (Bergström)
Working range:	0 to +4000 ml/h
Measurement tolerance:	0.2 ml per chamber cycle, UF-pump tolerance < 1%
Degassing device:	mechanical, through regulated degassing low pressure

Extracorporeal circuit

Blood pump:	2-roller pump
Transportation rate:	50 to 600 ml/min
Transportation tolerance:	< 10% with pressure up to -150 mmHg
Heparin pump:	injection pump for 10-, 20-, and 30-ml syringes
Transportation rate:	0.1 to 10 ml/h
Transportation tolerance:	< 10%
Safety air detector:	ultrasound measurement in the tube
Protection system:	ultrasound detector, automatic cyclical testing during the entire operating phase
Arterial input pressure measurement	(PA) working area: -400 to +400 mmHg Measurement tolerance: ±10 mmHg
Venous backflow pressure measurement	(PV) working area: 20 to +390 mmHg Measurement tolerance: ±10 mmHg

Disinfection

Chemical disinfection/cleaning:	automatic running of program with minimal free rinse time; various disinfection means may be installed
Thermal disinfection/cleaning:	automatic running of program at approx. 85°C
Central thermal/chemical for cleaning/rinsing:	for cleaning/rinsing the feed connection, for the device with simultaneous chemical or thermal disinfection of the ring connection

²⁾ More configurations possible under different item numbers.

Individual therapy selection with six treatment profiles

Every patient is unique. With this in mind the Dialog⁺ dialysis system uses six different treatment profiles, so dialysis processes can be adjusted and optimized to accommodate important treatment settings – entirely in line with patients' individual needs.

Ultrafiltration profile:

Adjusts fluid removal in the patient individually and variably

Sodium profile:

Stabilizes electrolyte levels

Bicarbonate profile:

Adjustment for acid–base balance

Heparin profile:

Individually adjusted for the coagulation and bleeding situation

DF flow profile:

Reduces use of concentrate, water, and energy for a more efficient treatment

Temperature profile:

Prevents hypotensive episodes¹ by stabilizing body temperature



Benefits of Dialog⁺ – Therapy individualization

- Flexible combination of treatment profiles for successful therapeutic short outcomes
- Individual adjustment to various therapy conditions

