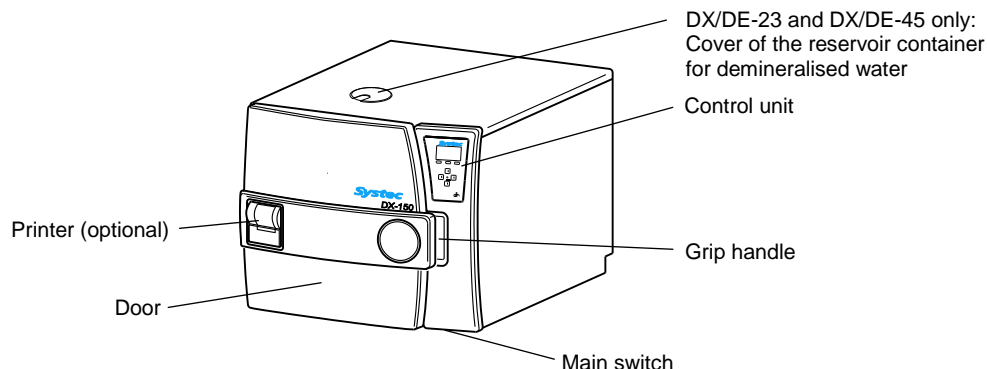**BRIEF OPERATING MANUAL**

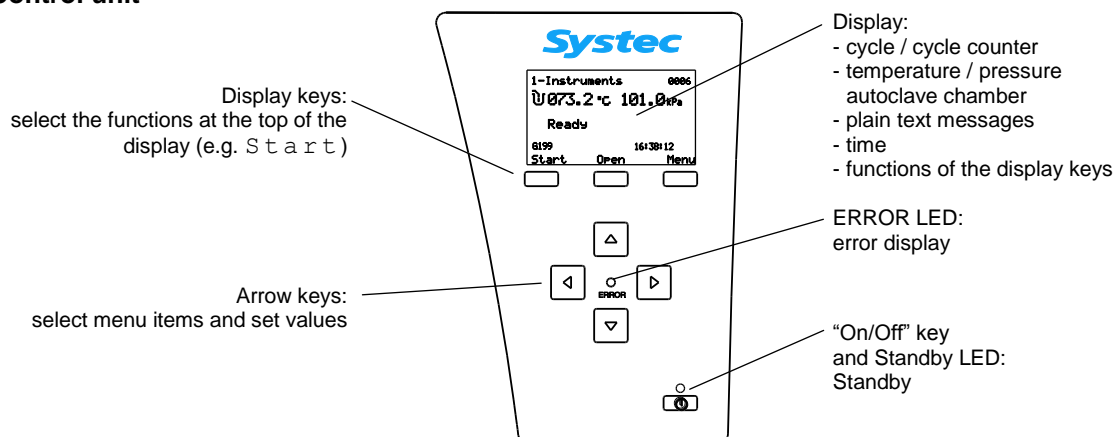| This brief operating manual is not a replacement for the operating manual! |
|---|

⚠️ Having read the operating manual in detail and understood it is a prerequisite for using Systec DX/DE-Series autoclaves.
Observe the safety instructions given therein exactly!

1. Control elements

Overview

DX/DE-23 and DX/DE-45 only:
Cover of the reservoir container for demineralised water

Control unit

Printer (optional)

Grip handle

Door

Main switch

Control unit

Display keys:
select the functions at the top of the display (e.g. Start)

Arrow keys:
select menu items and set values

Display:
- cycle / cycle counter
- temperature / pressure autoclave chamber
- plain text messages
- time
- functions of the display keys

ERROR LED:
error display

"On/Off" key
and Standby LED:
Standby

2. Autoclave cycles and parameters (factory setting, 📖 operating manual)

Cycle	SterTemp Sterilization temperature	SterTime Sterilization time	DryTime Drying time (Only with the vacuum device option)	EndTemp Unloading temperature
	[°C]	[min]	[min]	[°C]
1-Instruments	121	20	10	120
2-Instruments	134	10	20	120
3-Instruments	121	20	10	120
4-Waste (Bags)	121	20	0	99
5-Waste (Bags)	134	20	0	99
6-Liquids Waste	121	20	0	80
7-Liquids Waste	121	20	0	80
8-Liquids	121	15	0	80
9-Liquids	121	15	0	80
10-Liquids	121	15	0	80
11-Liquids	121	15	0	80
12-Cleaning	134	1	0	120
13-Vacuum Test (appliances with a vacuum device)	--	--	--	--
14-BD-Test (DX series with vacuum device)	134	3.5	1	120

3. Operation
(operating manual chapter 04)

Opening the door
- if required, switch on the autoclave
- if required, press the Open key to unlock the door
- open the door as far as it goes

Loading
- load the autoclave with the item that is to be sterilized.
- place the flexible temperature sensor:
    for solids cycles:
    in the holder in the chamber or free-standing in the chamber
    for liquids cycles:
    in the liquid or in the reference vessel

Closing the door
- DX/DE-65 – DX/DE-200: Close the door until the seal comes into contact with it and hold it down until the lock locks.
- DX/DE-23 and DX/DE-45 only: Close the door until it catches.

  The following appears in the display:
  Ready

Note for DX/DE -23,-45 only!

Before you start a cycle and during operation, ensure that the reservoir container for demineralised water is full if the autoclave is being operated without a demineralised water connection provided by the customer.

Selecting and starting the cycle
- select the cycle using the arrow keys.

Check that the cycle is the correct one!

There exists the danger when starting of using a cycle that is inappropriate for the item being sterilized!

- start by pressing the Start key and entering the access code for the cycle when required.

Autoclaving
The autoclaving procedure runs automatically from this point on.

End of the cycle
An acoustic signal sounds, the display shows Cycle ended.
- press the Open key to open the door.
- the sterilized item can be removed; observe laboratory prescriptions when doing so.

Observe prescriptions!

Danger when removing sterilized items that are hot!

Stopping the cycle
- press the Stop key; the display shows Manual stop:
- exit by pressing the Quit key and entering the access code.

Cycle error
The ERROR LED lights up, the display shows a corresponding error message (operating manual chapter 08).
- find the cause of the error and remove it
- exit by pressing the Quit key and entering the access code.

4. Printer (optional)
The printer automatically protocols the entire cycle procedure from the start in preset intervals:
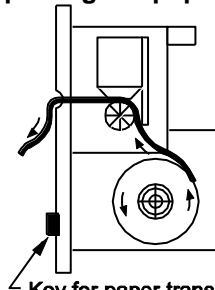- current temperature
- current pressure emitted.

Every line begins with a symbol referring to the corresponding procedure phase:

International		German	
W	Water inlet	W	Wasserzufuhr
P	Pulses	P	Pulse
H	Heating	H	Heizen
S	Sterilization	S	Sterilisieren
E	Exhaust	A	Ablass
D	Drying	T	Trocken
C	Cooling	K	Kühlung

Parameters common to all cycles are given in the header and footer data.

Replacing the paper

Key for paper transport (LF)

1 = Open the cover and take out the empty roll.
2 = Put the edge of the paper of the new roll into the printer. Press the "FEED" key until the paper has been drawn in about 30 mm.
3 = Put in the new roll of paper.
4 = Close the printer and put the edge of the paper through the slot in the cover.

Technical support

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