

AUTOMATIC WASHING SYSTEM FOR MICROPLATES MODEL DV-993

For flat and U wells, programmable system, flexible and fast, accurate washing precision and low residual volume. Internal pumps enable the system both to aspirate to and discharge from any type of container.



MAIN MODELS

DV993/1/8	WASHING SYSTEM 1 WASH-HEAD 8 CHANNELS
DV993/1/12	WASHING SYSTEM 1 WASH-HEAD 12 CHANNELS
DV993/8/12	WASHING SYSTEM 2 INTERCHANGEABLE WASH-HEADS 8 AND 12 CHANNELS
DV993/2R/8/12	WASHING SYSTEM 2 INTERCHANGEABLE WASH-HEADS 8 AND 12 CHANNELS TWO WASHING SOLUTIONS
DV993/4R/8/12	WASHING SYSTEM 2 INTERCHANGEABLE WASH-HEADS 8 AND 12 CHANNELS 4 WASHING LINES

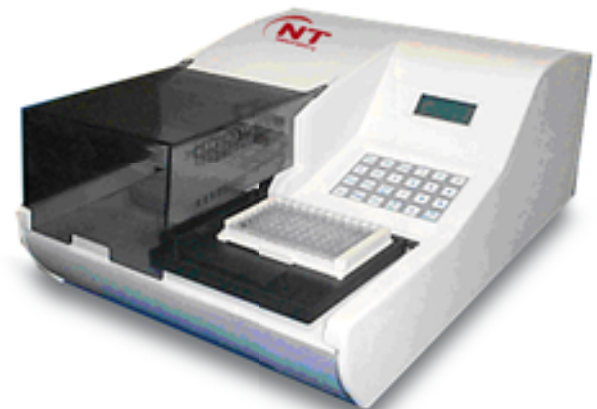


MAIN SPECIFICATION

- 96 wells microplate holder
- LCD back-lit 4 lines display (English language)
- 24 keys Keyboard

SYSTEM SUPPLIED IN DIFFERENT VERSIONS:

- 1 wash-head 8 channels
- 1 wash-head 12 channels
- 2 interchangeable wash-head 8 and 12 channels
- 1 to 4 washing solutions



30-50 PROGRAMS MEMORIZED / PROGRAM OPERATIONS

- the sequence of dispensing, aspirating and waiting
- the depth of aspiration inside the well
- the amount of liquid dispensed: variable and programmable (from 20 μ l to 590 μ l repeated up to 9 times)
- the aspiration mode: 1) rapid and direct from the bottom
2) rapid with a lateral displacement and programmable level of aspiration
- the waiting and shaking time between washings
- the repetition up to 9 times of instructions sequences
- the number of strips that need to be washed



OPTIONS

- DVTLS2** Warning system for waste and wash solution bottles control with acoustic alarm supplied with two 2/l bottles.
- DVTLS4** Warning system for waste and wash solution bottles control with acoustic alarm supplied with four 2/l bottles.

All illustrations and specifications contained in this folder are based on the latest information available at the time of printing. NT Laboratory reserves the right to make changes to materials, equipment and models, and to discontinue models at any time without notice.

TECHNICAL SPECIFICATION

Electric requirements	110V-60Hz /220 V, 50 Hz
Dimension	mm 490 X 345 X 200
Weight	12 Kg
Working conditions	+10° to +45° C Humidity up to 90%
Pumps	The system works with two pumps placed inside the structure for the basic model. A third pump is mounted on models /2 and /3 for the selection of more than one washing solution.
Dispensing accuracy	± 5%
Method of aspirating	1) rapid and direct from the bottom 2) rapid with a lateral displacement and programmable level of aspiration.
Dispensing volume	Variable and programmable (>20 µl < 590 µl) Even when an amount of liquid greater than the well's capacity is dispensed, no overflow effect occurs since the aspirating tips are always operating.
Washing solution container	Washing solution can be aspirated from any type of bottle.
Waste discharge	In any type of bottle or container.
Microplate holder	The instrument holds one microplate and is washed in rows of 8 or 12
System	Automatic with internal microprocessor.
Control	Keyboard multifunction with LCD display
Washing Head	-1 wash-head 8 channels -1 wash-head 12 channels -2 interchangeable wash-head 8 and 12 channels
Software	30-50 programs that can be memorized. In each protocol aspirating instructions (in different modes), dispensing instructions (from 10 µl to 590 µl), waiting time (0- 99" with or without the starting access of the operator at the end of waiting time), can be organized in cycles on each strip and on the whole plate. It is possible to link different protocols.
Residual volume after washing	<1 µl on round bottom wells. <2.5 µl on flat bottom wells.
Safety	IEC 61010-L DIRECTIVE 98/79/EEC IVD In Vitro Diagnostic Devices ELECTROMAGNETIC COMPATIBILITY 89/336/EEC-CE MARK

All illustrations and specifications contained in this folder are based on the latest information available at the time of printing. NT Laboratory reserves the right to make changes to materials, equipment and models, and to discontinue models at any time without notice.

SALES OFFICE: Via delle Driadi, 45 I - 00133 Roma Tel. +39-06-2001209 Fax +39-06-2003894 sales@ntlaboratory.com rd@ntlaboratory.com
ADMINISTRATION: Via Provinciale Lucchese, 145 I - 50019 Sesto F.no (FI) Tel.+39- 055-3029603 Fax +39-055-374084 adm@ntlaboratory.com