

Dissolution Media Delivery Station DosaPrep X8



fast, accurate, reliable . . . , Conforms to USP guidelines

Dissolution Media Degasser and Dispenser DosaPrep X8

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Fulfills USP, EP, FDA, GLP/GMP regulations and recommendations

»The United States Pharmacopeia (USP) recognizes that dissolved gases in the dissolution medium may effect dissolution test results and recommends that gases be removed before the test is performed (USP 23/NF 18; United States Pharmacopeial Convention: Rockville, MD, 1994; p. 1792).«

Acid mixing

For the precise addition of concentrated hydrochloric acid (max. 36%) a second liquid channel is available. The composition calculation is carried out gravimetrically via a precision balance. The risk of working with acidic media is held to a minimum.

Filtering

An easily exchangeable filter cartridge is located in-line within the fill tube. The capacity of the filter is checked automatically by monitoring the total volume filtered and the resulting flow resistance. The system prompts the user to change the filter when the capacity is exceeded.

Heating

A special continuous-flow heater warms the media to the desired temperature (+/-2 C) before degassing takes place. This promotes improved degassing and saves considerable time when heating in the dissolution tester.

Stirring and Mixing

An electronic stirrer moves the media in the storage tank and ensures an homogeneous acid concentration.

USP 
EP 
FDA

GLP/GMP

Automated preparation and dispensing of dissolution media

DosaPrep X8 processes up to 8 liters of dissolution media in one operation in accordance with regulatory requirements. Media may be mixed from water and concentrated acid by weight, filtered, warmed, degassed under vacuum and mixed. When complete it is then precisely dispensed in individual volumes up to 8 vessels. The complete sequence is accurately monitored and the value of each dispensed volume is documented on an external printer or PC.

Degassing

Optimum degassing is achieved by exposing the incoming warmed media to a constant vacuum of better than 700 mbar, below atmospheric, and continuous stirring.



Fills and dispenses

The processing of 8 liters of media is complete within 15 minutes. In order to save time media can be prepared while a test is running. Each vessel is filled directly into the dissolution tester by means of a dispensing tube. High precision dispensing ($\pm 0,5\%$) requires approx. 25 seconds to dispense 1000 ml. The target volume can be selected between 400 and 1000 ml.



Time and cost saving

With the DosaPrep X8 media mixture, degassing and preheating can be performed without user intervention. Precise media dispensing directly into the sample vessels saves time and unnecessary media handling. Preheating the media saves time between tests, increasing throughput.

Process and dosage validation

All internal dosage events are controlled using a precision balance. Introduction of the liquids, mixing of the water and concentrated acid, and dispensing accurate volumes into each vessel is precisely controlled and documented each step of the way. An external printer or PC can be easily interfaced to the system.

Safety in the laboratory

By automating the process, particularly the acid preparation and media dispensing, the risk to laboratory personnel are minimized.



DOSAPREP X8, the perfect media delivery station

Technical data:

The media degasser/dispenser DOSA-PREP X8 operates in accordance with the guidelines proposed by the USP, EP and the recommendations of the FDA (Division of Drug Analysis). In addition GLP/GMP guidelines are met. Media is filtered, heated and degassed under vacuum, mixed and precisely dispensed in individual volumes into each vessel. All dispensing events are controlled by a precision balance and the results are documented on an external printer or PC.

Dosing volume:
400 to 1000 ml (dispensed by weight)
per vessel

Storage tank volume:
8000 ml net, 11000 ml gross volume.

Heating capacity:
up to delta 20°C

Temperature accuracy:
+/- 2°C

Input Channels:
2, for water or pre-mixed media and
acid or buffer, input pressure max. 0,1
bar

Max. acid concentration:
36% concentration at the acid input.
0,5% concentration for mixed media
input/output.

Dispensing principle:
By precision weighing

Dispensing accuracy:
Better than +/- 5 g

Degassing:
under vacuum, 700 mbar min.

Mixer:
Magnetic stirrer

Input filter:
Cartridge filter 20 µ: Filter-Capsule
Sartorius type 5591320P5--00

Printer output:
Centronics (parallel)

PC-output:
RS-232 (serial)

Dimensions:
W 30 x H 66 x D 59 cm

Weight:
27 kg

Electrical requirements:
2400 Watt at 230 V, 1800 Watt at 115V
(up to 16 A)

Part Number:**DMDX8 -230V or DMDX8 -115V**

Contact:

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