



Charles Ischi AG

PHARMA



PRÜFTECHNIK

DISI-M

SEMI-AUTOMATIC TABLET

DISINTEGRATION

TESTER

Low cost

High precision



The series of DISI-M Tablet Disintegration Tester combines a proven design with new innovative concepts of technology and user friendliness. DISI-M has been developed in conjunction with the automatic Tablet Disintegration Tester DISI and provides an economic solution at a high quality standard.

More than 10 years of experience in the field of pharmaceutical electronic and software applications have influenced the DISI's unique design. The system is designed according to the USP and EP standards for disintegration testing and is available with 1,2,3 or 4 individual test stations.

- **precise**
- **reliable**
- **innovative**
- **easy to use**





System operation

All DISI-M operations are performed via the front panel machine operating interface. Thanks to the very easy operating environment the user will become familiar with the system in a very short period of time.

The basket assembly is extremely robust and may be easily removed through a quick release attachment. For cleaning the baskets may be fully submerged into an ultrasonic cleaning bath.

The basket reciprocation mechanism

The baskets move vertically by stepping motors running in micro step mode. This allows the baskets to move smoothly in and out of the media and ensures strictly sinusoidal motion. Also, with multiple station testers the up and down movements are exactly identical in time and speed.

The temperature control

The water bath is heated by a thermostatic temperature control unit. This provides quick and reliable heating and will keep the temperature of the immersion fluid within close limits. The thermostat is easily removable for bath cleaning and servicing and provides as an "external" unit more safety and reliability.

Validation and support

IQ / OQ documents are available as well as on-site support for installation and validation.

Summary

Disintegration tester with LCD-Display, individual timer and automatic drive in and out of the media.

- The system is fully compatible to the EP / USP
- Baskets are easy removable
- Quick and easy basket disassembly for cleaning
- Precision microstep linear drive of each test station
- Accurate speed and uniformity of movement
- Softstart feature for basket entering the medium
- Rigid stainless steel housing
- Thermostat with digital display



Standard delivery includes:

- Tester unit
- Plexyglass water bath
- Thermostat 25-40°C
- Test vessels
- Baskets with disks
- Power cable
- Operating manual





Technical Data

| DIMENSIONS, WEIGHTS | DISI-1M | DISI-2M | DISI-3M | DISI-4M |
|---------------------|---------|---------|---------|---------|
| Width | 340mm | 475mm | 610mm | 750mm |
| Depth | 250mm | 250mm | 250mm | 250mm |
| Height | 750mm | 750mm | 750mm | 750mm |

| | | | | |
|---------------------|--------|--------|--------|--------|
| Weight dry | 20kg | 30kg | 40kg | 50kg |
| Weight filled | 26kg | 39kg | 52kg | 65kg |
| Volume of waterbath | 6l | 9l | 12l | 15l |
| Volume of beaker | 1000ml | 1000ml | 1000ml | 1000ml |

| MAINS SUPPLY | DISI-1M | DISI-2M | DISI-3M | DISI-4M |
|-------------------|----------|----------|----------|----------|
| Mains voltage | 100-240V | 100-240V | 100-240V | 100-240V |
| Mains frequency | 47-63Hz | 47-63Hz | 47-63Hz | 47-63Hz |
| Power consumption | 50W | 75W | 100W | 125W |
| Fuse | 1AT | 1AT | 2AT | 2AT |

THERMOSTAT

| | |
|-------------------|---------------|
| Mains voltage | 230V / 115V |
| Mains frequency | 50Hz / 60Hz |
| Power consumption | 2,1KW / 1,1KW |

INTERFACES

Display RS232 Port Serial interface for display

ENVIRONMENTAL CONDITIONS

| | |
|--------------------------------|----------------------|
| Environment temperature | 18-27°C |
| Max. temperature of water bath | 40°C |
| Relative humidity | 20-80% not condensed |

RECIPROCATING MECHANISM

| | | |
|--------|----------------|---------|
| Speed | 30 strokes/min | +/- 0,1 |
| Stroke | | 55mm |

Equipment for

quality and

in-process control

Regardless, whether it concerns a single standalone tester or testing systems for the automatic in-process control during the manufacturing process: we can serve you with a complete product range and fulfill nearly all your requirements in this sector.

High quality materials, precise assemblies and professional software provide a package which you can rely on.

Consulting

Sales

Installation

Service

Training

We support you in your planning, offer our expertise and experience, in order to provide the right and best solution for your application.

But also after the sale of a system, you are not left alone. Installation and service is one of our main competencies. The training we provide gives you the confidence that each of your employees can properly operate the equipment.

We are only satisfied when you are satisfied.

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