



# Introducing the ZT Series

The new generation of disintegration testing –  
from manual to fully automated



**ERWEKA**

part of **VERDER**  
scientific

# From manual to fully automated – ERWEKA ZT Series

The ERWEKA disintegration testers enable easy and convenient determination of the disintegration time of tablets and other solid dosage forms. The broad range of ERWEKA disintegration testers comprises all types of test equipment from the manual ZT 121 light and the ZT 220/320 series up to our fully automated disintegration testers of the ZT 730 series.

Our compact entry-level device ZT 121 light with one test station and the disintegration testers of the ZT 220 and ZT 320 series with up to 4 test stations

are perfectly suited for the manual determination of the disintegration of test samples. The ZT 730 series automatically detects the disintegration of samples by using magnetic sensors and comes with the new cable-free AirBasket. The basket can be connected to the ZT 730 within seconds, without any cable.

Versatile options and accessories ensure flexibility and enable the adaption to your specific needs. Our sales team will be pleased to discuss the configuration best suited to your laboratory.

## Options for ZT Series



AirBasket type A  
(with 6 test tubes,  
for ZT 730 series only)



AirBasket type B  
(with 3 test tubes,  
for ZT 730 series only)



Quick Clean Basket type A  
(with 6 test tubes or  
type B with 3 test tubes)



Basket type A  
(with 6 test tubes or  
type B with 3 test tubes)



Different coloured discs for type A and B baskets,  
non-magnetic and magnetic for AirBaskets



Auxiliary tubes for granule testing,  
JP pharmacopoeia confirm

# Compact disintegration testing – ZT 120 light series



Available with 1 or 2 teststations

The ERWEKA ZT 120 light series are the perfect entry-level disintegration tester with one or two simultaneously motor driven USP/EP/JP compliant test station. The compact unit of our light series are equipped with an integrated flow-through heater and a moulded one-piece PET water bath (no leaking/breaking, easy to clean) with cover.

The ZT 121 light can be easily operated via a membrane keypad. Defined test run parameters such as run time and water bath temperature are entered with symbol keys and the actual values are then shown on large and bright LED displays. The run-time counter automatically starts as soon as the basket rack assembly is lowered into the test media.

100%

100%  
USP/EP/JP  
compliant



Easy control  
via a large  
LED display



Compact  
entry-level  
device

## Technical Data

1 or two parallel test station

30 ± 1 strokes/min

55 ± 2 mm stroke height

Function keys and 2x LED display for entering nominal bath temperature and run-time

Starts/stops to counting run-time automatically when basket rack is lowered

Integrated flow-through heating system (accuracy ± 0.2 °C)

Temperature range 30 - 50 °C

Run time up to 9h, 59min, 59s ± 1s

Manual lift-in and -out of the baskets

## Highlights

- External electronic temperature sensor PT 100
- Quick Clean Basket type A (6 test tubes)  
100% USP compliant

## Options

- Water stabiliser with colour indicator
- Qualification documents IQ/OQ/PV
- ERWEKA IQ/OQ/PV service at customer site
- Maintenance service

# Broad range of disintegration and dissolution products

Our disintegration range is the perfect companion to our dissolution products - from manual to fully automated with the RoboDis II+.

We offer entry-level manual DT light dissolution tester with 6, 8 or 12 test stations, digital dissolution tester including our DT 950 and DT 9510 Series, semi-automated dissolution systems with automatic sample collection or semi-automated dissolution online systems with spectrophotometer or HPLC analysis controlled by our powerful Disso.NET with audit trail. Beside this we offer our high-end fully automated dissolution system RoboDis II+ for real 24/7 testing.

Apart from the standard USP 1, 2, 5 and 6 dissolution tester, ERWEKA also offers a next generation USP 4 flow-through cell with the DFZ II and a USP 3/7 tester with the BioDis RRT10.

Our extensive knowledge across all USP methods from USP 1 to 7 and the broad range of physical testers make ERWEKA the perfect partner for all pharmaceutical companies.

100%

100 %  
USP / EP / JP  
compliant

Disso.NET

Controlled by  
Disso.NET



Manual  
testing



Online System  
with UV-Vis or  
HPLC



Sample collector  
FRL 6/7/854



# Asynchronous disintegration testing – ZT 320 Series



The test stations of our ZT 320 series are driven individually. Each test station is controlled by its own keypad. After programming the required test run-time, the basket rack assembly with its loaded samples is automatically lowered into the media. On completion of the preset run-time or when the stop button is pressed, the basket rack is raised from the media to prevent further disintegration of the samples (optional).

100%

100 %  
USP / EP / JP  
compliant



Continuous heating of  
water bath by  
flow-through heater



1 to 4  
asynchronous  
test stations



Tool free  
assembly and  
disassembly

## Technical Data

1 to 4 test racks

30 ± 1 strokes/min

55 ± 2 mm stroke height

LED display to show remaining run-time  
and actual bath temperature

Integrated flow-through heating system  
(accuracy ± 0.2 °C)

Temperature range 30 - 50 °C

Run time up to 99h, 59 min, 59 s ± 1 s

Manual lift-in and -out of the baskets

RS 232 interface

USB-A printer interface for documentation  
print out

## Options

- Automated lift-in and -out of the basket rack assembly/ies on start / completion of the pre-set run-time of each test station
- Basket rack assembly type A (6 test tubes) or type B (3 test tubes) 100 % USP compliant
- Media pre-heat and disintegration rack storage container located in the water bath (ZT 321 and 323 only)
- Quick-Clean-Basket (100 % USP/EP/JP compliant) for fast cleaning of the test stations
- Water stabiliser with colour indicator
- Qualification documents IQ/OQ/PV
- ERWEKA IQ/OQ/PV service at customer site
- Maintenance service

# Cable-free disintegration testing – ZT 730 Series with automatic determination

The ERWEKA ZT 730 Series with cable-free AirBasket automatically determines the disintegration time of samples by using a unique system of magnets and sensors. The ZT 730 is available with one (ZT 731) or two (ZT 732) individually driven test stations and is equipped with an integrated flow-through heater.

Its newly designed, cable-free AirBasket makes disintegration testing with automatic determination of the disintegration time as easy and fast as possible. Its electronics compartment is sealed, making it dishwasher proof. Its sensors are also

highly durable and enable the AirBasket to be used in acidic media. AirBasket is available as type A basket with 6 test tubes for standard tablets, or type B basket with 3 test tubes for bigger tablets (according to USP/EP standards).

The reliable waterbath technology utilizes the thermal inertia of water to create a steady temperature for testing according to USP/EP standards. Its temperature sensor PT 100 allows constant control of the waterbath temperature. The ZT 730 Series is controlled through an intuitive 7" Touch display and is capable of storing and retrieving up to 200 products/methods with results and parameters.

## 7" Touch display

With the intuitive touch interface, the ZT 730 with AirBasket can be used quickly and efficiently. It offers memory for products and results, has user management and stores test results. It also shows the disintegration time of each single test position once the sensor detects the full disintegration of the tablet.

## One or two stations with AirBasket

The ZT 730 can be configured with either one or two test stations with AirBasket. The cable-free AirBasket can be equipped within seconds and is available in either Type A or Type B.

- ZT 731 with 1 test station
- ZT 732 with 2 test stations
- AirBaskets Type A and Type B available

## Reliable waterbath technology

The reliable waterbath technology utilizes the thermal inertia of water. Because water keeps its temperature rather steady, the waterbath of the ZT 730 Series with AirBasket holds the temperature steady. The waterbath also offers another advantage - it keeps the center of gravity of the equipment low and prevents falling over.



## Technical data

	ZT 730
<b>Test stations</b>	1 (ZT 731) or 2 (ZT 732)
<b>Touch display</b>	7"
<b>Memory function</b>	4 GB memory for 200 products/methods and approx. 1 million test results
<b>Lift drive</b>	Step motor
<b>Speed</b>	30 strokes/min
<b>Height of stroke</b>	55 ± 2 mm
<b>Heating</b>	Integrated flow through heating system
<b>Temperature control</b>	External PT 100 temperature sensor
<b>Automatic determination of the disintegration time</b>	AirBasket type A (6 test tubes) or AirBasket type B (3 test tubes plus discs)
<b>Power consumption 230V/115V</b>	1750 Watt
<b>Voltage ± 10 %</b>	+230 VAC / 50Hz - 60Hz 115 VAC / 50Hz - 60Hz
<b>Interfaces</b>	USB A, USB B and LAN
<b>Printer interface</b>	Oki laser printer / HP laser printer
<b>Dimension: width / depth / height weight</b>	397 mm / 365 mm / 667 mm 30 - 35 kg



## Contact

Are you curious and want to find out more?  
Head over to our website and download our product brochures,  
watch videos of our equipment in action or find the ERWEKA  
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