

SUPPORTING RESEARCH







DISCOVER OUR RANGE OF ANALYSIS SOLUTIONS SUPPORTING YOUR DAILY RESEARCH ACTIVITIES.

TECNIPLAST IS THE IDEAL PARTNER FOR ANIMAL CARE PRODUCTS AND RELATED EQUIPMENT.

OUR ANALYSIS PRODUCT FAMILY CONSISTS OF DEDICATED SOLUTIONS EXCLUSIVELY DESIGNED AND DEVELOPED TO MEET RESEARCH REQUIREMENTS. IT INCLUDES METABOLIC CAGES AND ACTIVITY WHEELS.

THAT'S THE REASON WHY TECNIPLAST IS NOT ONLY A SUPPLIER, BUT A REAL PARTNER, WITH A FULL TEAM OF EXPERTS READY TO SUPPORT AND HELP YOU.

WE ARE AT YOUR SIDE TO IMPROVE DAILY ACTIVITIES,
ENSURING BETTER SCIENTIFIC OUTCOMES!



METABOLIC CAGES

TECNIPLAST METABOLIC CAGES PROVIDE A PERFECT SEPARATION

OF FECES AND URINE THROUGH THE SPECIAL DESIGN

OF THE FUNNEL AND OF THE SEPARATION CONE.

THE SYSTEM IS DESIGNED TO MINIMIZE ANIMAL STRESS:

THE DRAWER-STYLE DESIGN OF THE FEEDER ALLOWS EASY FILLING

AND ALL PARTS BELOW THE CAGE FLOOR ARE REMOVABLE

WITHOUT DISTURBING THE ANIMALS, INCLUDING THE FECES AND

URINE COLLECTION TUBES. A PROPER ACCLIMATIZATION PERIOD

BEFORE RUNNING THE EXPERIMENT WITH METABOLIC CAGES

CAN BE PERFORMED WITH THE TECNIPLAST RAISED BOTTOM GRID

AVAILABLE FOR BOTH IVCs AND OPEN CAGES.



RACK FOR METABOLIC CAGES



FOR SINGLE MOUSE WITH SINGLE CHAMBER FEEDER





RACK FOR METABOLIC CAGES WITH COLLECTION CHILLERS



REFRIGERATED RACK FOR FRACTIONATED URINE COLLECTION



FOR RATS UNDER 150 g AND FOR RATS FROM 150 g TO 300 g



FOR RATS OVER 300 g

RELIABLE EXPERIMENTS OUTCOMES

- Unique design of the separation apparatus featuring lowadherence plastic materials: perfect separation and collection of feces and urine
- Easy-remove feeder and collection tubes: feed filling and samples collection without disturbing the test animals
- Optional electronic collection chiller (E-Chiller) and collection chiller to maintain urine at low temperature

FLEXIBILITY AND DURABILITY

- By changing few components the cage is adaptable to house mice and rats of different sizes/weights
- Systems components are made of special techno polymers: washable, autoclavable and extremely durable
- Several options for refrigerated urine collection are available:
 E-Chiller, collection chiller, Rack for fractionated urine collection

Cage	Rack configuration
ALL METABOLIC CAGES	12 cages (4w x 3h) Single sided
ALL METABOLIC CAGES (except for single mouse cage)	10 cages (5w x 2h) For metabolic cages with collection chillers Single sided
ALL METABOLIC CAGES (except for single mouse cage)	12 cages (6w x 1h) Refrigerated, for fractionated urine collection Double sided

METABOLIC SYSTEMS





E-CHILLER

E-CHILLER IS A TECNIPLAST ELECTRONIC CHILLING
DEVICE THAT CAN FIT ANY TECNIPLAST METABOLIC
CAGE, FROM SINGLE MOUSE UP TO RATS, CAPABLE
OF KEEPING URINE AND FECES AT A CONSTANT
LOW TEMPERATURE FOR A SET TIME. THIS FINE
CONTROL GIVES THE RESEARCHERS COMPLETE
CONTROL OVER THE TEMPERATURE OF THE SAMPLES
DURING THEIR METABOLIC RESEARCH PROTOCOLS.

PERFECT CONSERVATION OF SPECIMENS

The system can keep urine at low temperature in order to slow down biochemical reactions due to enzymes actions. The settable temperature range on the E-Chiller goes from 4°C to 20°C and being electronically controlled it features a tight and fine control of the temperature avoiding any uncontrolled temperature fluctuation during the time of the experiment.

RELIABLE EXPERIMENTS OUTCOMES

With the E-Chiller researchers are finally able to maintain collected urine and faeces at a constant set temperature through time: no more undesired variables that affect research outcomes and time-constraint experiments.

USER-FRIENDLY

Plug-and-play device with simple and immediate user interface: soft-buttons display for an intuitive control and setting of the machine parameters: temperature and time.

No more need for a refrigerator to freeze the chillers before the experiment: reduction of operational and logistics complexity, costs, time and space required.

Cage	Rack configuration
ALL METABOLIC CAGES	10 cages (5w x 2h) For metabolic cages with E-Chillers Single sided

E-Chiller is also available in single-cage stand configuration

CIRCADIAN RHYTHMS STUDIES | ACTIVITY WHEEL



THE INNOVATIVE WIRELESS, FULLY PROGRAMMABLE IVC LIGHTING CONTROL SYSTEM

LEDDY & RED CAGE

With LEDDY, it is possible to evaluate the animals' physiological response related to lighting stimuli, without moving the cage from the rack. Leddy, by combining a red tinted cage with a programmable LED source, allows the operator to set dedicated light cycles directly inside the home cage, and run different experiments in the same IVC rack.

FLEXIBILITY AND SAVINGS

- Multi-experiments system: every single cage can be independently programmed with a specific lighting cycle, allowing the possibility of running different experiments in the same room and even in the same IVC rack, without affecting other cages
- Resources saving: no more waste of time and space by dedicating specific rooms to light cycles studies.

ANIMAL WELFARE & BETTER SCIENTIFIC OUTCOMES

- Every cage receives a defined intensity of light for a specific time cycle, without being influenced by the room environment, with better standardization of the biological results
- Decrease in potentially stressful operations, mainly by avoiding the movement of cages off the rack (research in the IVC home cage).

Rodent Activity Wheel provides an easy, convenient method for measuring lab rodents' physical activity in response to chemical or environmental stimuli.

It is especially useful for researches involving circadian rhythms or pharmaceutical testing.

Regular activity increases and maintains physical fitness helping the control of body weight.

- Designed for easy monitoring of rodents physical activity levels
- Flexibility: adaptable for rats and mice

ACTIVITY WHEEL



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL

COMPANY WITH ENVIRONMENTAL SYSTEM CERTIFIED BY DNV GL



= ISO 14001 =



HEADQUARTERS

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