

# HIRSCHMANN®



# pipetus®

High-class in pipetting

# **pipetus®**

## **The sum of all possibilities when it comes to pipetting**

pipetus® combines many years of experience, innovative technology and superior-quality materials. Charging and dispensing of the medium is realised at the press of a button. Exact meniscus configuration is enabled through fine dispensing valves with valve pins made of ceramic compound. The valves are free of wear and offer maximum chemical resistance.

An exact and continuously adjustable pumping and suctioning speed can be selected for both filling and venting within five precisely harmonised performance stages. The integrated colour display shows the pipetting mode, speed levels and charging status of the battery. Battery charging is realised without contacts and controlled by a microprocessor in an inductive charging station. The sophisticated ergonomic shape of the pipetus® aids non-fatiguing work.

## **Overview of details**

- NiMH batteries
- Includes an inductive charging and park station
- Standard wall bracket
- Pump motor emits low noise levels and is free of vibration
- Highly accurate pipetting enabled through fine dispensing valves with valve pins made of ceramic compound.
- Hydrophobic PTFE diaphragm filter with 0.2 µm pore size
- For measuring, volumetric and Pasteur pipettes, from 0.1 ml to 200 ml



## Suitable for every pipette type

pipetus® is designed to allow its individual adaptation to the current working situation. When working with a pipette calibrated for EX, select the "EX" position with the "Mode" key. The motor remains deactivated during discharge, the volume pipetted is forced out

exclusively by the weight of the medium, as is required from a pipette calibrated for EX. The motor is activated automatically during discharge in the "Blow Out" position. The pipette is blown out with motor assistance.

### clear

The colour display on top of the unit provides clear, reliable and Comprehensive Information on all unit configurations

### sparing

Pump motor is free of vibration

### flexible

5 pipetting speed ranges can be selected separately for filling and venting

### reliable

The seat of all pipettes is sealed absolutely tight with a silicon adapter

### comprehensive

For measuring, volumetric and Pasteur pipettes, from 0.1 ml to 200 ml

### enduring

Up to a week of continuous pipetting



More performance and comfort

# Reliable, efficient, ergonomic

With its informative colour display, intelligent charging technology and extremely sophisticated ergonomics, pipetus® shows how reliable, efficient and comfortable pipetting can be. Pumping and suctioning speed can be selected exactly and continuously in five precisely harmonised performance stages.

From 0 to 50 ml in 6.9 seconds - the rapidity of the pipetus® is the result of innovative technology which considerably enhances the degree of efficiency of the available motor power. This shortens the filling time and ensures that venting is realised in a flash.

pipetus® also impresses through its innovative design. It has already gained accolades at the most prestigious international design competitions for its excellent design and sophisticated functionality.



## High-tech material for precision pipetting

Fine dispensing valves with valve pins made of ceramic compound are not only internationally unique, they also ensure highly accurate and sensitive pipetting - for a lifetime.



## Round filter set

Individual sterile packaging, rapid and easy to replace. The filters are suitable for all pipetus® models.



## Safety valve

The easily replaceable safety valve ensures precise and reliable results at all times.



## Pipetting without wasting time

Work can also be continued without difficulty during charging. Simply insert the charger plug into the unit - and you are free to continue.



## Cleared away in the wall bracket

pipetus® can be cleared away quickly and tidily and stowed in the standard wall bracket. Even with a pipette, the unit can be easily deposited in a horizontal position in the bracket.



## Ready for use at all times

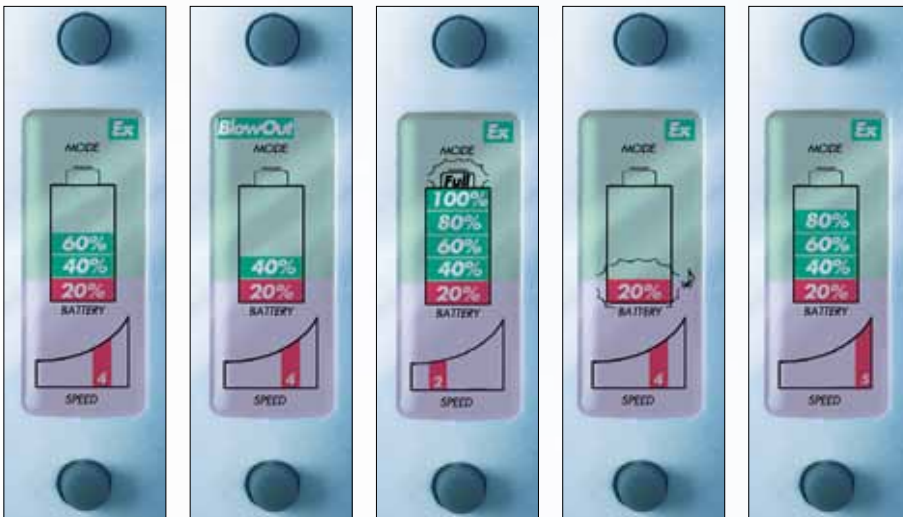
The battery is immediately recharged automatically as soon as the unit is deposited in the park station. This means that the unit is at all times at hand and ready for operation. The charger station is included in the standard scope of delivery.



### Intelligent rapid charging technology

Battery charging is realised quickly and comfortably in an inductive charging station without contacts and controlled by a microprocessor.

The rapid charging technology ensures a long battery service life. A memory effect or overcharging of the battery are ruled



### Everything under control

The colour display shows the most important functions at a glance. A simple glimpse is enough to recognise whether the motor is set at "EX" or "Blow Out", which speed level is configured and the charging status of the battery.

Pipetting mode is selected with the "Mode" key. The desired suctioning speed can be configured from among five speed levels with the "Speed" key.

Venting occurs automatically at the highest motor power, provided no other level is selected. The battery charging status is permanently indicated. An additional acoustic alarm signal also sounds as soon as the battery charge falls below 10 per cent during pipetting.



# pipetus® standard

## Additional safety for special surroundings

pipetus® provides the best prerequisites for working with toxic reagents or in clean room technology through the separation of the electric pump and hand-held unit. Further sophisticated product details guarantee precision, reliability and a long service life. Highly accurate pipetting is enabled through fine dispensing valves with valve pins made of ceramic compound. A safety valve prevents the penetration of liquid into the interior of the unit.

The standard PTFE diaphragm filter provided with 0.2 µm pore size ensures reliable protection against overfilling. The sophisticated ergonomic shape of the pipetus® standard aids non-fatiguing work.



### Overview of details

- Light hand-held unit with external pump
- Highly accurate pipetting enabled through fine dispensing valves with valve pins made of ceramic compound.
- The seat of all pipettes is sealed absolutely tight with a silicon adapter
- Hydrophobic PTFE diaphragm filter with 0.2 µm pore size
- For measuring, volumetric and Pasteur pipettes, from 0.1 ml to 200 ml
- Filter on pump for sterile working



# pipetus® junior

## Simple, reliable, exact

pipetus® junior is distinguished as a manual pipette filler by superior quality details and its ergonomic shape.

In contrast to other manual techniques, pipetus® junior enables the defined suctioning of the pipetting medium. A single press of the pump button suctions approximately 2 ml in each case. Pressing it several times multiplies this volume.

The hydrophobic PTFE diaphragm filter is a standard feature that provides integrated overflow protection.

Volumetrically accurate pipetting through exact dispensing of the pipette contents is also controlled by the press of a button in the case of drainage and venting pipettes. The sophisticated ergonomic shape of the pipetus® junior aids non-fatiguing work.



## Overview of details

- The seat of all pipettes is sealed absolutely tight with a silicon adapter
- Fine dispensing valves
- Hydrophobic PTFE diaphragm filter with 0.2 µm pore size
- For measuring, volumetric and Pasteur pipettes, from 0.1 ml to 200 ml



# Award-winning design and handling excellence.

pipetus® convincingly represents the design philosophy behind laboratory units from Hirschmann. Innovative functions, ergonomically optimised handling and impressive styling complement each other to form a design which can also attract attention at international design competitions. Hirschmann laboratory devices are regularly among the nominees or even winners at prestigious national and international design competitions.

pipetus® has been nominated for or numbers among the winners of the following prizes:



2006 – German Design Award (Designpreis Deutschland), Design Council – nominee



2005 – red dot



Award-winning quality



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Performance data for pipetus®	
Operating mode	battery operation, inductive charging via the charger station or directly via the charger, overcharging protection, no memory effect
Volume range	0.1 – 200 ml
Ex/Blow Out	selectively by key, indicator on the colour display
Suction power	control via speed key, choice of 5 performance stages, indicator on the colour display
Weight	240 g
Housing material	insensitive PA6
Sterilisability	pipette holder at 121 °C (without PTFE diaphragm filter)
Safety system	replaceable safety valve
Ordering data for pipetus®	
990 72 00	pipetus® incl. charger 230 V, EURO plug, charger and storage station, pipette holder with safety valve, Filter and wall bracket
990 78 00	pipetus® incl. charger 230 V, UK plug, charger and storage station, pipette holder with safety valve, Filter and wall bracket
990 82 00	pipetus® incl. charger 120 V, US plug, charger and storage station, pipette holder with safety valve, Filter and wall bracket

## pipetus® standard

Performance data for pipetus® standard	
Operating mode	electrical with external pump
Volume range	0.1 – 200 ml
Weight	hand component 130 g, pump 290 g
Housing material	insensitive PA6
Sterilisability	pipette holder at 121 °C (without PTFE diaphragm filter)
Safety system	replaceable safety valve
Order data for pipetus® standard	
990 30 00	pipetus® standard 230 V, EURO plug, pipette holder with safety valve and filter
990 30 10	pipetus® standard 230 V, UK plug, pipette holder with safety valve and filter
990 40 00	pipetus® standard 230 V, EURO plug, incl. filter on pump, pipette holder with safety valve and filter
990 40 10	pipetus® standard 230 V, UK plug, incl. filter on pump, pipette holder with safety valve and filter
990 50 00	pipetus® standard 120 V, US plug, pipette holder with safety valve and filter
990 60 00	pipetus® standard 120 V, US plug, incl. filter on pump, pipette holder with safety valve and filter

## pipetus® junior

Performance data for pipetus® junior	
Operating mode	manual, pushbutton
Volume range	0.1 – 200 ml
Weight	130 g
Housing material	insensitive PA6
Sterilisability	pipette holder at 121 °C (without PTFE diaphragm filter)
Order data for pipetus® standard	
990 20 00	pipetus® junior with pipette holder and filter

## Accessoires pipetus®

Accessory parts for pipetus®	
958 71 01	pipetus® vehicle adapter
990 56 00	pipetus® wall bracket
990 57 00	pipetus® table stand

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