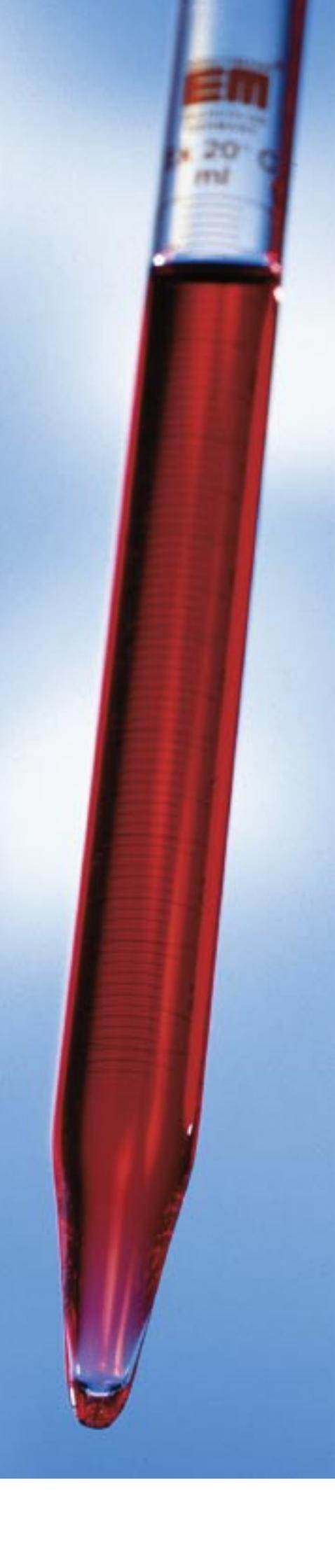


pipetus®

HiClass in pipetting.





pipetus[®].
*Greater
performance,
greater comfort.*

With its informative colour display, intelligent charging technology and logical ergonomic design, pipetus[®] shows just how safe, efficient and comfortable pipetting can be today.

From 0 to 50 ml in 6.9 sec.

This data speaks for itself and is all due to innovative technology which considerably increases the efficiency rate of the available motor output. That reduces the filling time, ensures that blowing out is realised in the twinkle of an eye, thus improving the overall efficiency of laboratory work.

5 speed levels for precision pipetting

The pump and suction speed which best suits the viscosity and volume range can be continuously selected with great accuracy during both filling and blow-out applications from five speeds levels tuned to suit each other. This means that highly accurate pipetting can be taken for granted.

Additional safety

A safety valve effectively prevents liquid from penetrating the interior of the unit. Together with the serial 0.2 µm PTFE membrane filter supplied with the unit, the pipetus[®] is optimally protected, thus guaranteeing a long service life.

Suitable for all pipette types

pipetus[®] is designed for adaptation to your particular working situation. Select position "EX" with the "Mode" button if you are working with a pipette adjusted for delivery. The motor remains deactivated during delivery, the pipetted volume runs as would be expected in the case of a pipette adjusted for delivery (i.e. exclusively due to the weight of the medium itself). The motor is automatically switched on during blow-out in the "BlowOut" position. The pipette is blown out with the aid of the motor. The conical silicone adapter ensures that the seat is safe and absolutely sealed, from the smallest to largest pipette versions.

Perfect visual control for all unit settings

"EX" or "BlowOut"? Which speed level? Battery charge status? The colour display on top of the unit provides clear, comprehensive and reliable information on all these features.

HiClass in motoric pipetting

pipetus[®]-akku has set standards for motor-powered pipetting, and the new pipetus[®] has redefined these yet again. For greater efficiency, safety and comfort in the laboratory.

■ **Efficient:**
logical ergonomic design for rapid,
comfortable pipetting

■ **Informative:**
precision readable
colour display

■ **Careful:**
non-vibrating pump motor

■ **Clean:**
hydrophobic PTFE membrane
filter with 0.2 µm pore width

■ **Environmentally-friendly:**
NiMH batteries,
cadmium-free

■ **All-inclusive:**
serial inductive
charging and
park station

■ **Reliable:**
silicone adapter
for completely
sealed fitting of
all pipettes

■ **HiClass:**
from 0 to 50 ml
in 6.9 sec.

■ **Comprehensive:**
for measuring,
complete and
pasteurising pipettes,
from 0.1 ml to 200 ml

■ **Safe:**
non-return
safety valve

pipetus®.
Pleasing design.
Impressive performance.

■ **Accurate:**
delivery / blow-out pre-selection
for volumetrically-accurate
pipetting with delivery and
blow-out pipettes

■ **Flexible:**
5 pipetting speed ranges can be selected
for filling or blowing out

■ **Unbeatable:**
up to one week continuous pipetting

■ **Unique:**
accurate meniscus setting with sensitive valves,
valve pins manufactured from a ceramic compound

■ **Comfortable and unique:**
intelligent, rapid charging technology
which cares for batteries, no memory
effect

■ **Tidy:**
wall holder included as
standard feature

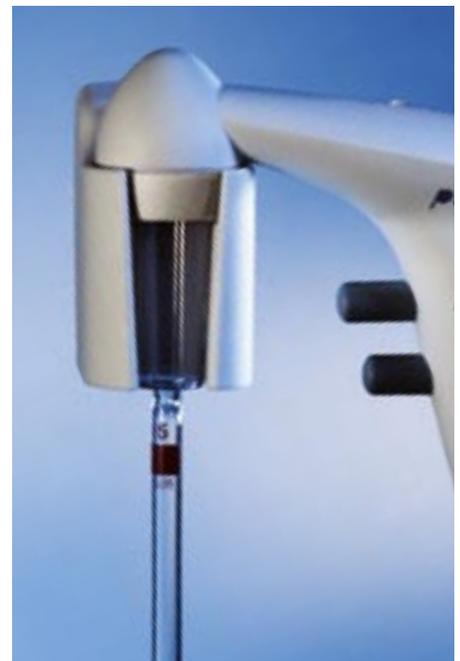




pipetus®. It's up to you to decide how efficiently you can pipette in future.

Its perfect ergonomic design increases the efficiency of daily laboratory routines and enables rapid, highly accurate and fatigue-free serial pipetting. Filling and delivery are realised at the touch of a button, and the speed can be continuously and

finely adjusted. The precision-action fine dispensing valves aid exact meniscus setting. We have equipped pipetus with valve pins made of ceramic compound to continuously ensure this level of user comfort. These are impervious to wear and have the highest level of chemical resistance.



Protect both your unit and your health

The non-return safety valve prevents any liquid from penetrating the unit. The conical silicone adapter ensures that all pipettes are positioned securely and effectively sealed. It is also tidily held at all times in the easily-accessible serial wall holder.



HiTech material for precision pipetting

Fine dispensing valves with valve pins manufactured from a ceramic compound: this is not only an international first, but also your guarantee of highly-accurate, fine pipetting for the entire service life of the unit.



Everything under control

A glance at the informative colour display informs you whether the motor is set to "EX" or "BlowOut", which motor level is set and the charging status of the batteries. That is professional, safe and efficient pipetting.

The pipetting mode ("EX" or "BlowOut") is selected with the "Mode" button. The desired suction speed can be selected from five speed levels with the "Speed" button. Blowing out occurs automatically at the highest motor output, provided no other level is selected.

The battery charging status is continuously displayed. An acoustic signal also warns of a fall in the battery charge below 10 % during pipetting.



Ready for use at all times

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



Intelligent rapid charging technology

Battery charging is contact-free, microprocessor-controlled, rapid and comfortable, being realised in the inductive charging station. The rapid charging technology not only ensures a high battery service life, but also has no competitors on the market. A memory effect or battery overcharging is ruled out.



Pipetting without any time wasting

Working during the charging procedure? Simply insert the charger plug directly into the unit, and pipetting can be continued immediately.

pipetus®-standard. *The specialist for motoric pipetting in potentially-explosive atmospheres.*

Are you looking for a motoric pipetting aid which is light, powerful, safe and inexpensive?

The pipetus®-standard is just the unit for your needs. Designed for stationary applications, the pipetus®-standard, with its light handle and external pump, not only enables highly accurate and efficient pipetting.

The separation of the electric pump and hand unit also provides the best prerequisites for working in potentially-explosive atmospheres, environments where toxic reagents are involved or in clean room technology.

Filter for completely sterile applications

The pipetus®-standard filter is optimally suited to applications where sterility is required in the entire supply and exhaust air system. The pump is fitted with an additional, extremely effective filter which can be selectively integrated in both air flow directions.



- Logical ergonomics for rapid, safe and highly accurate pipetting
- Extremely light hand unit with external pump
- Specially designed for potentially-explosive atmospheres, clean room technology and other applications.
- Optional: filter for sterile applications
- Silicone adapter for completely sealed fitting of all pipettes
- Fine dispensing valves with valve pins manufactured from a ceramic compound
- Accurate meniscus setting with sensitive valves
- Non-return safety valve
- Hydrophobic PTFE membrane filter with 0.2 µm pore width
- For measuring, complete and pasteurising pipettes, from 0.1 ml to 200 ml



*pipetuser[®] -junior.
Perfect ergonomic
design for safe
and accurate
manual pipetting.*

The logical ergonomic design of the pipetuser[®] is also extremely convincing in the manual version. The shape assists fatigue-free working, while the sensitive mechanism enables simple, safe and accurate pipetting. Approximately 2 ml is suctioned up when the button is pressed once, while the amount is increased stepwise when the button is pushed repeatedly. This is not only simple, but also unique. The series-production hydrophobic PTFE membrane filter provides reliable protection against overfilling. Delivery speed is determined by the intensity of pressure on the button, while blow-out pipettes are blown out completely by pressing the blow-out button.

- Logical ergonomics for simple, safe and accurate pipetting
- Extremely light, inexpensive hand unit
- Silicone adapter for completely sealed fitting of all pipettes
- Fine-dispensing valves
- Accurate meniscus setting with sensitive valves
- Hydrophobic PTFE membrane filter with 0.2 µm pore width
- For measuring, complete and pasteurising pipettes, from 0.5 ml to 25 ml

pipetus®. HiClass in pipetting.

Performance data pipetus®

Operating mode	battery driven, inductive charging in charging stand or directly via charger, overload protection, no memory effect
Volumetric range	0,1 - 200 ml
Ex / Blow out	selective switch, read-out on colour display
Suction power	button for speed control, choice of 5 speed levels, colour display
Weight	240 g
Casing material	robust PA6
Sterilisable	pipette holder at 121°C (without PTFE membrane filter)
Safety system	replaceable safety valve

Ordering data pipetus®

990 72 00	pipetus® with 230 V charger, EURO plug, charging and park stand, pipette holder with safety valve, filter and wall holder
990 78 00	pipetus® with 230 V charger, UK plug, charging and park stand, pipette holder with safety valve, filter and wall holder
990 82 00	pipetus® with 120 V charger, US plug, charging and park stand, pipette holder with safety valve, filter and wall holder

pipetus®-standard

Performance data pipetus®-standard

Operating mode	electrical, with external pump
Volumetric range	0,1 - 200 ml
Weight	hand part 130 g, pump 290 g
Casing material	robust PA6
Sterilisable	pipette holder at 121°C (without PTFE membrane filter)
Safety system	replaceable safety valve

Ordering data pipetus®-standard

990 30 00	pipetus®-standard, 230 V, EURO 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 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 pipetus®-junior

Operating mode	manual, push-button
Volumetric range	0.1 - 200 ml (recommended 0.5 – 25 ml)
Weight	130 g
Casing material	robust PA6
Sterilisable	pipette holder at 121°C (without PTFE membrane filter)

Ordering data pipetus®-junior

990 20 00	pipetus®-junior with pipette holder and filter
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Please visit us at www.hirschmann-laborgeraete.de for more information on our dispensing, pipetting, titrating and volumetric measuring solutions and our precision glass capillaries

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 Our product is fulfilling all requirements of the EC guidelines and it has been tested in accordance to the laid down processes.

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