

PD

PHYSIODISPENSER
3000



PERISTALTIC PUMP

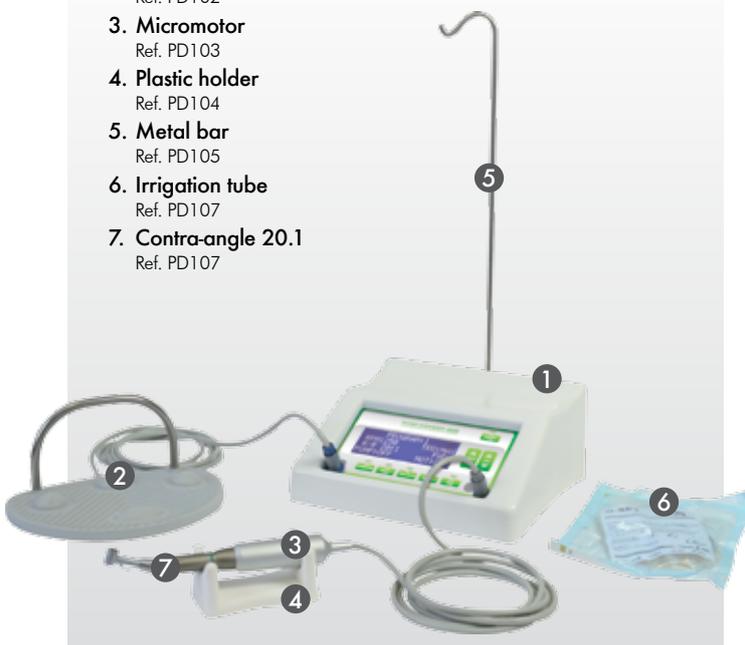
The pump is mounted externally from the central unit in order to prevent flooding of the equipment in case of pipe failure. It is of the type provided with a spring-loaded tubing bed that ensures perfect tightness of the silicone tube with the pump off.

The motor speed is controlled so as to ensure a constant jet even when the drill is used at maximum power. It is built entirely by C-TECH in order to be cost-effective without sacrificing functionality.



COMPLETE OF:

1. **Central Unit**
Ref. PD101
2. **Pedal**
Ref. PD102
3. **Micromotor**
Ref. PD103
4. **Plastic holder**
Ref. PD104
5. **Metal bar**
Ref. PD105
6. **Irrigation tube**
Ref. PD107
7. **Contra-angle 20.1**
Ref. PD107



PHYSIODISPENSER CARRYING CASE

Elegant case to carry PhysioDispenser, with interior in Plastazote and exterior in nylon.

Its dimensions are 53 x 37 x 13 cm, and it weighs carrying case 750 g.

CARRYING CASE - Ref. PD106



SURGICAL MICROMOTOR FOR IMPLANTOLOGY WITH PHYSIODISPENSER

Physiodispenser 3000 is the result of 10 years' experience in the design and development of electro-medical apparatus for implantology and endodontics, based on well-tested and proven technology.

Physiodispenser 3000: high performance combined with extreme simplicity, and provided with a new-concept pedal that represents an absolute novelty.

Physiodispenser 3000 is entirely designed and built by C-TECH, both for hardware and software.



CENTRAL UNIT

This is the implantologic unit that combines rationality, simplicity, innovation, power, reliability and ease of use.

The micro-switch type push-buttons, mounted directly onto the printed circuit board, ensure a pleasant and smooth action, with each key performing a single function.

There are no complicated functions, difficult to remember in the field and thus rarely used. Using fewer components, which would be required to implement such features, means higher equipment reliability: "missing components can't go wrong".

Innovative both hardware and software solutions enable absorption of the kinetic energy of the rotating elements - motor, contrangle handpiece and bur - by the motor itself when the set torque value is overrun, as the motor stops instantaneously, thus preventing the kinetic energy from discharging onto the bur.

In addition to the safety features demanded by the relevant regulations, protection of the unit against short-circuit of the motor's conductors has been provided in order to avoid any damage to the central unit. This could happen if the drill cable, when subjected to considerable mechanical stress, goes in short-circuit, which is known to have happened at times in the past.



FRONT PANEL



Choice of 5 completely customizable programs.
Memorization of any performed modification is automatic when switching off the equipment.



Calibration in relation to the performance of the contrangle used. It should be carried out every so often and when changing the contrangle.



Choice of 3 different cooling liquid flows: 60, 80, 110 ml/min.



Starts and stops the drill.
The pump also is driven if switched on.



Selects the reduction ratio/multiplication of the contrangle. Choices available are: 1:5, 1:1, 16:1, 20:1, 64:1, 70:1.



Changes the direction of rotation, forward/reverse. REVERSE is signalled by an intermittent beep.



TORQUE

24 torque values. With the 20:1 contrangle it is adjustable from 3 Ncm to 69 Ncm. MAX value indicates the maximum torque without limitation. With the 20:1 contrangle it exceeds 80 N cm.

RPM - SPEED

33 speeds, variable from 3 to 125,000 rpm, according to the contrangle used.

MULTIFUNCTION PEDAL

SOLID, STATE, NO-TOUCH, EXTRAORDINARILY SIMPLE

This extremely innovative pedal is the first without any mechanical moving element, while allowing all the functions of the other pedals. Built on a 6 mm thick steel plate, and oval-shaped for elegance of design, it is extremely easy to use. It is covered entirely with a resilient synthetic rubber which makes it resistant to any leaking fluids, and may be easily cleaned with ethyl alcohol. Stylish and extremely functional, it rises only 10 mm from the floor and is provided with a sturdy stainless steel handle that makes it easy to move it about with the foot. With a footprint of 220 x 160 mm and 1.6 kg weight, its neoprene feet grip well to the floor and block it during normal use.

It ensures perfect control of the central unit without using the hands for selecting programs, adjusting the motor speed, the pump flow and the direction of rotation. It has been called a solid-state pedal because it is the first without any mechanical moving parts.

C-TECH is proud to present a pedal that will become an industry standard!



1. Selects the program
2. Forward/reverse
3. Turns on the motor with progressive action
4. Sets the peristaltic pump flow

MOTOR

It is a latest-generation micromotor provided with sintered metal contacts, capable of achieving a speed of 25,000 rpm: secure, reliable and lightweight. Extremely light and flexible silicone sheath, Kynar conductors and ODU medical connector. Motor, cable and connector are autoclavable to 135 °C. Autoclavable white-coloured silicone motor stand, which makes it pleasant to the touch and resistant to 220 °C.



CONTRA-ANGLE, SILICON TUBE

TUBE Ref. PD107



CONTRA-ANGLE 20.1
Ref. 0020/1CA



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