



Adjusting the settings on laboratory suction units



perfecta 300/600
perfecta 900

Functional principal and preparation

As with all new laboratory appliances, suction units and their switch points must be adapted to handpieces, in order to ensure proper functioning.

Functional principal

The Perfecta is supplied with electricity via the socket outlet on the suction unit. The suction unit is activated once a specific switching current level is reached (switch point) and switches off again if the current drawn by the laboratory appliance falls below this level.

This switch point is usually set by a selector switch or potentiometer, or by a control panel on the suction unit.

Always observe the manufacturer's instructions of your suction unit.

Preparation

To set the switch point, the Perfecta must be adjusted to the maximum standby current (i.e. the highest possible current with a deactivated handpiece):

- > Select the speed on the operating controls
 - >>38<< (Perfecta 300)
 - >>50<< (Perfecta 600)
 - >>100<< (Perfecta 900)

- > Reverse drive (LED on)
- > Automatic bistable mode (LED on)
- > Blow out function active (activated throughout the whole adjustment process)
- > For Perfecta 900 the speed-increasing handpiece (LA-9) incl. spray must be activated (both LEDs on)



Adjusting and checking the switch point

Adjusting the suction unit switch point

- > Turn the selector switch resp. the potentiometer of the suction unit to minimum
- > Activate the Perfecta as described under «Preparation»
- > Slowly turn the potentiometer to the right until the suction unit starts up
- > Now turn the potentiometer back a fraction and wait 5 seconds (lots of suction units carry on operating even after falling below the switch point)
- > If the suction unit does not stop repeat the last step until the system switches off
- > Once the suction unit switches off you have the correct setting

Checking the switch point

- > Activate the handpiece at a speed of 1,000 rpm, taking into consideration the Perfecta settings mentioned under «Preparation»

The suction unit should switch on

- > Switch on forward drive (LED off), deactivate the automatic program (LED off) and the blow out function. Switch over to the technical handpiece on the Perfecta 900 (both LEDs off)
- > Use the operating controls to set a maximum speed of 1,000 rpm. Now activate the handpiece with a speed of 1,000 rpm.

The suction unit should switch on

Note

If the system switches too early or too late, check the information listed under «Preparation» and re-set.

In particular, make sure you turn the potentiometer in very small steps, and check that the blow out function is activated!

Technical data

Adjustable switch points of different suction units

mostly between 5 and 40 W.

This corresponds to

22 – 174 mA (at 230 V)

43 – 348 mA (at 115V)

Current drawn by Perfecta bei 1,000 rpm

8 – 15 W (depends on the model).

This corresponds to

35 – 65 mA (at 230 V)

70 – 130 mA (at 115 V)

General

Most well-known suction unit manufacturers allow a precise adjustment of the switch point. Always observe the manufacturer's instructions of suction units.