

CPAP - Positive Pressure Ventilation

Product information



The Delphinus and Dorado devices are used to treat nighttime sleep apnea at home.

Customer requirements

seleon's task was to design, develop and manufacture a device for home use that treats nighttime sleep apnea. One version of the device should be equipped with the possibility to adjust the device to the optimal settings according to the patient's breathing measurements. Cost-effective manufacturing was another important factor which needed to be considered. Additionally reducing the sound level was one of the biggest challenges of this project.

Results

seleon developed a patented algorithm for the Delphinus device which automatically adjusts the air mask's pressure based on measured air flow data. The algorithm is not sensitive to external disruptions and artifacts, which is essential for reliable use at home.

The heated air humidifier Aquila was constructed as an additional component

for CPAP devices. This humidifier is easy to use with both Delphinus and Dorado and it is optimized for a cost-efficient production.

Advantages

seleon incorporated its many years of experience in breathing therapy into its Delphinus, Dorado and Aquila devices. Several patents originating from seleon's development project were handed on to the customer. seleon has the proper medical technology certification for this project. seleon handles all of its client's service and repair requirements. The devices are extremely easy to use and clean. A transport bag is included in the delivery. They operate quietly so as not to disturb the patient's sleep. The Delphinus and Dorado are designed for the home environment. The device can be operated in many different languages.

