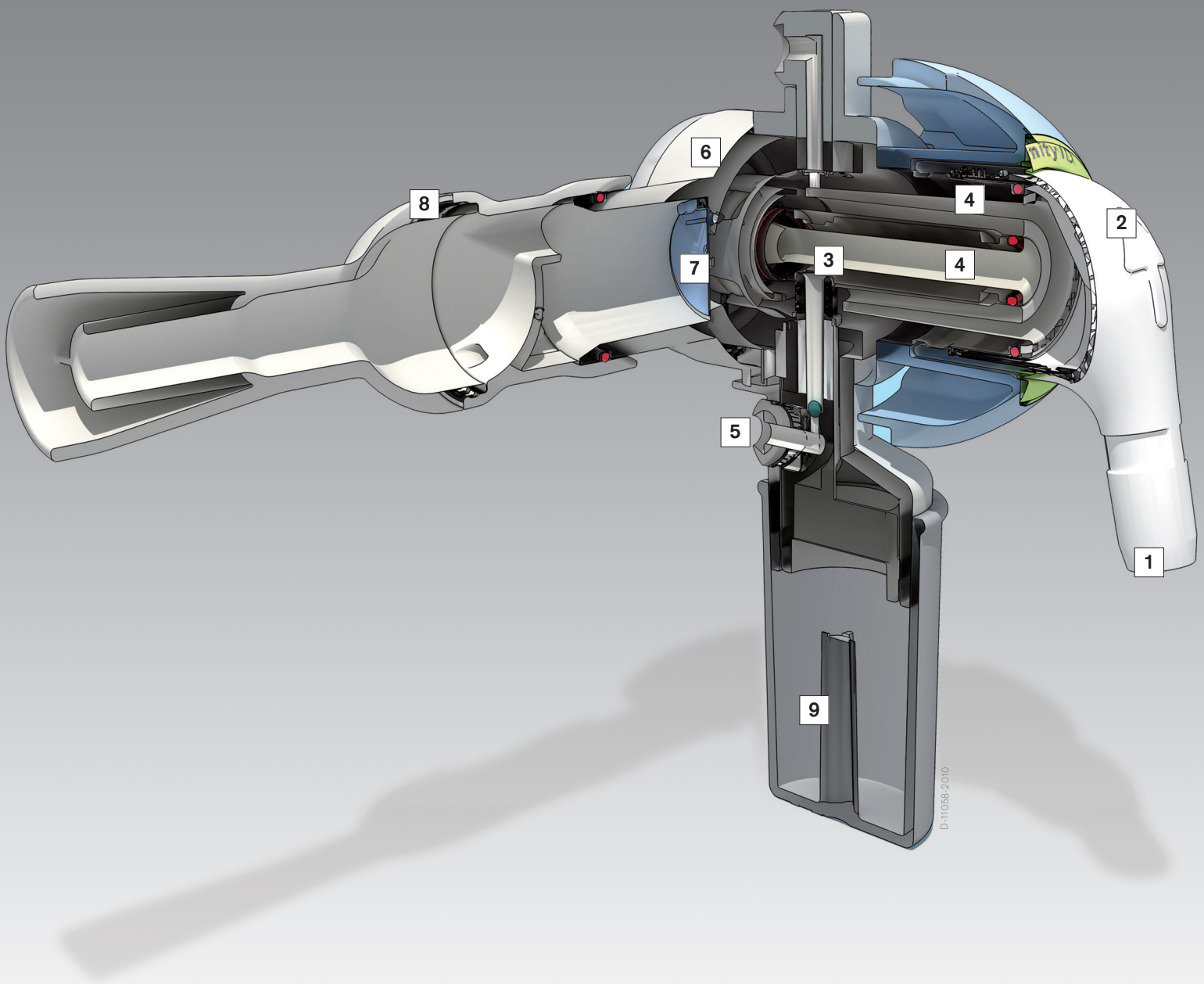


# A High-frequency Ejector Delivers Top Performance

The Babylog VN500 ventilator was specially designed for premature babies and offers powerful high-frequency oscillation in addition to conventional ventilation. An important component of the ventilator is the expiratory valve, through which the patient exhales. The Infinity ID antenna module [1] transmits data from an Infinity ID hose system through the angled connector [2] to the ventilator, where the data are processed. Up to 18 liters of compressed gas at a pressure of a maximum of 2 bars is propelled into the ejector [3] each minute through two channels [4] measuring only 0.65 millimeters in width. The ejector itself is made of nickel silver, where the gas is fed into connector [5]. A lower pressure, resulting from the ejection supports the “active expiration” of the patient, which is controlled via the silicone membrane [6]. The silicone membrane has a soft flat surface enabling a leak-free seal with minimal back pressure. A monocrystalline nickel disc vulcanized onto the back side ensures that it is perfectly flat.

The check membrane [7] prevents pendular breathing in the event of a possible failure of the device. The muffler [8] uses turbulence to reduce noise. The potential condensation is collected in the water trap [9]. The entire assembly can be cleaned manually or processed in an autoclave at 134 degrees Celsius.