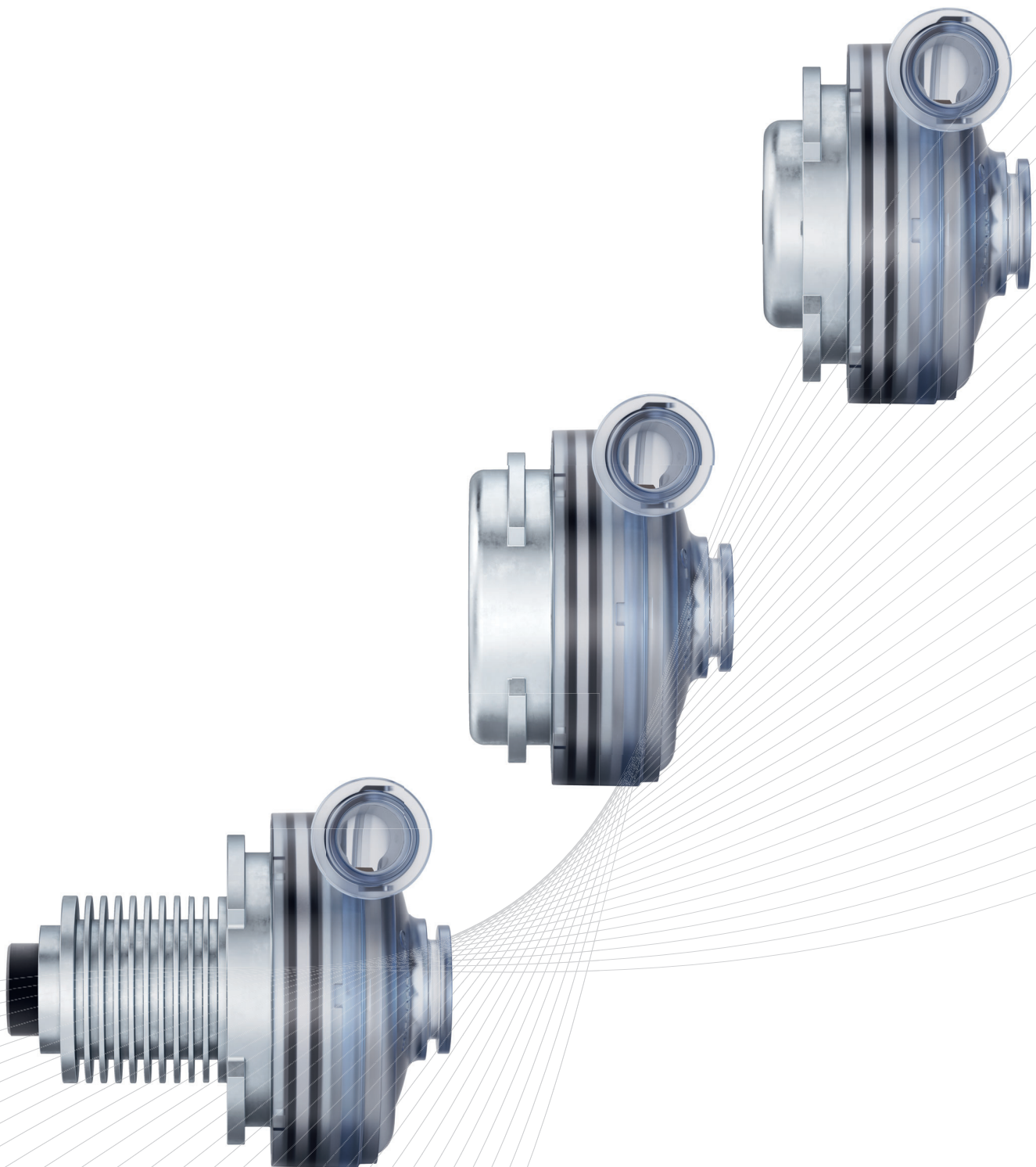


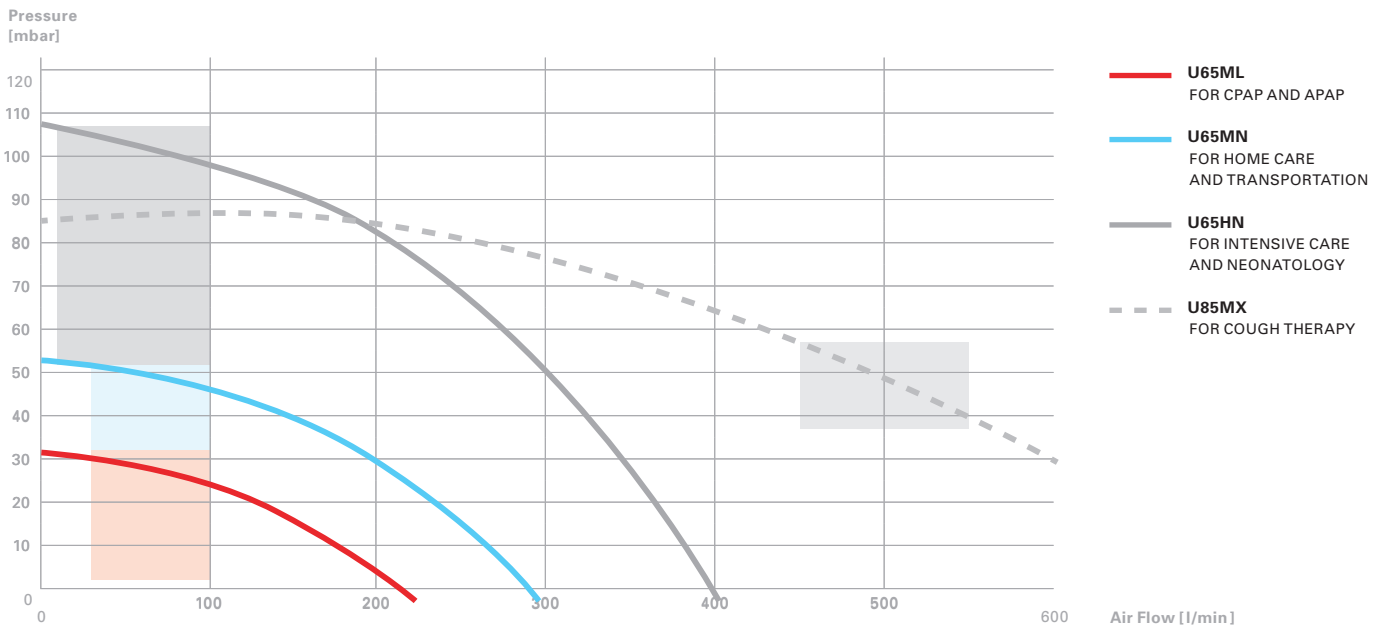
U65 FORM FIT LINEUP

ONE DESIGN, ONE BEHAVIOR



U65 FORM FIT LINEUP

THE LATEST LINEUP OF TURBINE PRODUCTS FOR ALL APPLICATIONS IN MECHANICAL VENTILATION



The new arrivals to Micronel's product family are perfectly tailored to the needs and requirements in ventilation therapies. The identical exterior geometry of all three turbines provides various advantages for manufacturers of ventilation devices. Technical refinements, such as a highly dynamic acceleration of 1 million RPM per second, are enabled by the latest generation of impellers.

MULTI-USE DUE TO NEW TURBINE TECHNOLOGY

Due to the same exterior geometry and identical performance characteristics of the three turbines, manufacturers of ventilation devices can use the same algorithm and sound reducing box for their entire device platform (multi-use). This lowers production costs and creates a distinct economic edge with respect to competitors.

INCREASED PERFORMANCE AND EFFICIENCY

The line of products supports invasive as well as non-invasive ventilation modes of 10 to 80 millibar (4 to 32 inH₂O), enables a peak flow rate of 400 liters/min (14.2 cfm) and allows for maximum pressures of more than 110 millibar (44 inH₂O). Due to a 70 percent reduction of the moment of inertia compared to previous models, accelerations of up to 1 million RPM per second are achieved. This enables a ventilator response, which previously could only be achieved using valve-controlled ventilation devices. Through the ideal combination the pneumatic geometry and specially designed motors, maximum efficiency of the turbines is achieved. This results in a reduction of thermal effects and an extended operating time for battery operation.

OUTSTANDING CONTROL CHARACTERISTICS

All three turbines have the same performance characteristics. The uniform design enables consistent characteristics at different levels in the field of work.

FLEXIBLE PNEUMATIC AND ELECTRICAL CONNECTIONS

The connection geometries of the U65 Form Fit products are extremely flexible. The inlet or outlet connection can be omitted if necessary and assembly space can therefore be conserved. The cable assembly can be adjusted to selectable leadwire length, leadwire type, and connector type.

OPTIMIZED ACOUSTIC BEHAVIOR

The acoustics are optimized through the choice of selected materials and a new spiral geometry. Furthermore all three turbines are prepared with the same geometric properties for the use of a membrane, which decouples the movable mass from the solid mass still allowing the use of all three turbines within the same platform.

CUSTOMIZED SOLUTIONS

Customers' requirements are evaluated individually and based on proven technologies. Micronel develops and creates tailored solutions for individual needs.



CPAP AND APAP

U65ML, UP TO 35 MBAR AND 220 L/MIN (14 INH₂O, 7.8 CFM)

CPAP ventilation therapies demand a precise and constant ratio of pressure and airflow. The airway pressure with sleep apnea must continuously be positive in order to compensate for potential leakage. The compact design, the low respiration pressure resistance, and the minimal noise emissions distinguish the U65ML turbine in the field of sleep apnea.



HOME CARE UND MOBILE TRANSPORTATION

U65MN, UP TO 55 MBAR AND 300 L/MIN (22 INH₂O, 10.6 CFM)

Safe, quiet, durable, compact, dynamic – the U65MN turbine covers all the requirements for home therapy devices and mobile transportation. The U65 MN is designed to deliver up to 300 liters/min (10.6 cfm) and guarantees the safe ventilation of patients at home or during transportation. With a weight of 250 grams (8.8 oz) and dimensions of L74×W66×H45 cm (L2.9×W2.6×H1.8 in), it is extremely light and space-saving. Due to its minimal power consumption, it is ideal for mobile battery operation.



FROM THE INTENSIVE CARE UNIT TO VENTILATION IN NEONATOLOGY

U65HN, UP TO 110 MBAR AND 400 L/MIN (44 INH₂O, 14.2 CFM)

The blower for superior ventilation performance. In addition to the features of its related models, the U65HN turbine is distinguished by a highly dynamic acceleration, O₂ resistance, and perfected aerodynamics. The U65HN turbine is extremely reliable and durable. It is able to provide supporting or life-sustaining ventilation with intermittent pressures of up to 110 millibar (32 inH₂O) with ease. Whether for dynamic use or statically with valve control – the U65HN turbine meets all expectations. Its oxygen resistance and the use of non-flammable materials provide additional safety for patients.

COUGH THERAPY

U85MX, UP TO 120 MBAR AND 885 L/MIN (48 INH₂O, 31.3 CFM)

With its high air speed, the U85MX turbine is a power pack ensuring the perfect combination of air pressure and airflow, enabling the best treatment in cough therapy – whether for vacuum or pressure applications. Notwithstanding its top-performing airflow (900 l/min / 32 cfm) and pressure (120 mbar / 48 in H₂O) the design remains extraordinarily compact.

PRODUCT LINEUP FEATURES

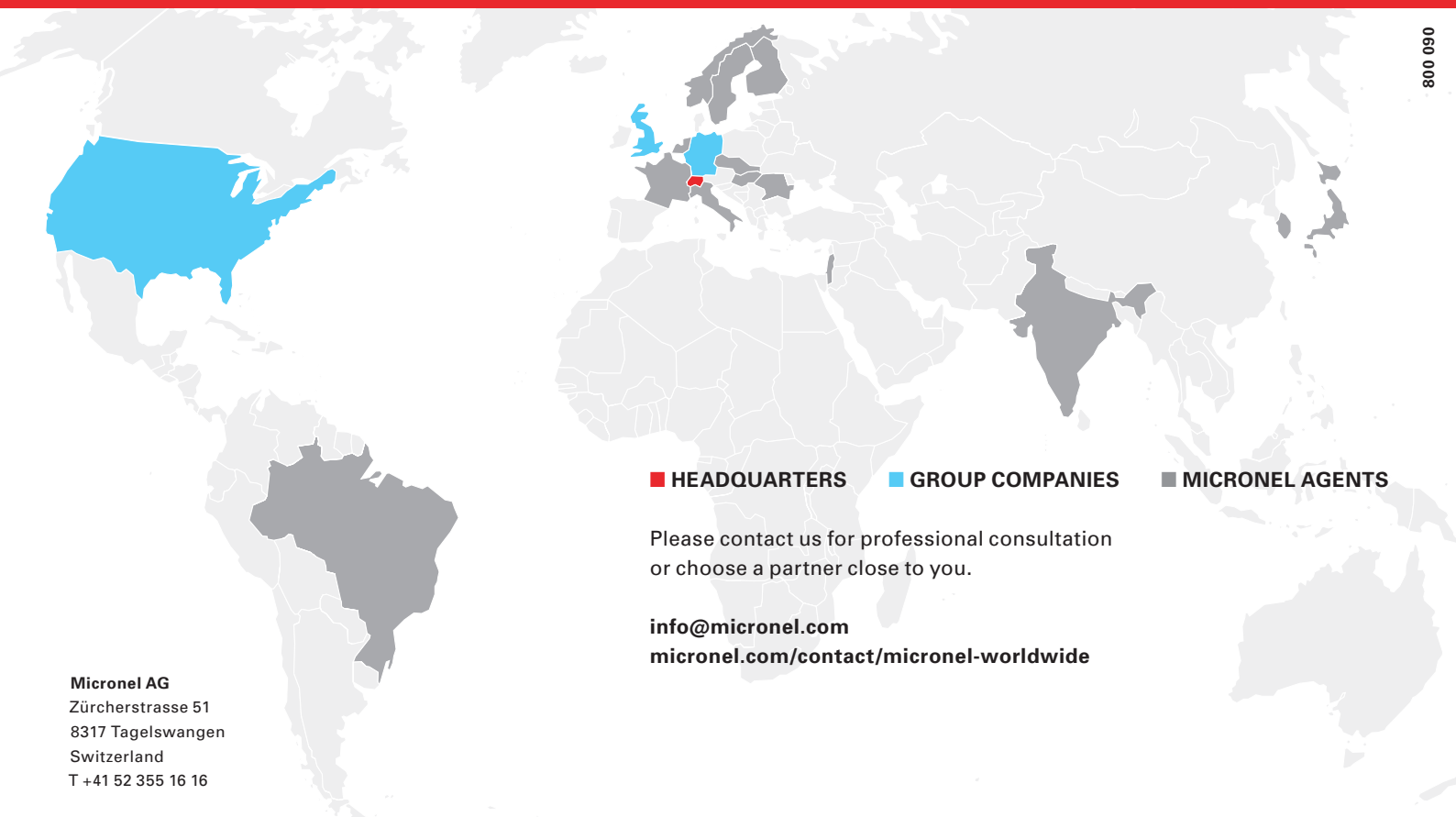
- Identical Performance Characteristics
- Multi-Use Advantage for Device Platforms
- Highly dynamic Acceleration
- Biocompatibility and FDA-Compliance
- Durable and Maintenance-Free
- Enhanced Pneumatic Connection Geometries

MICRONEL QUALITY FEATURES

- 50 Years Anniversary
- Swiss Precision Work
- Highest Quality Requirements
- Family-Operated and Independent
- Continuous Investment in R&D
- Customized Solutions

MISSION STATEMENT

**AS THE GLOBAL PARTNER FOR INNOVATIVE SOLUTIONS
IN VACUUM AND PRESSURE APPLICATIONS, MICRONEL
GENERATES A TECHNOLOGICAL ADVANTAGE FOR
THEIR CLIENTS THROUGH CUSTOM DEVELOPMENT
OF MINIATURE FANS AND BLOWERS.**



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Please contact us for professional consultation
or choose a partner close to you.

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