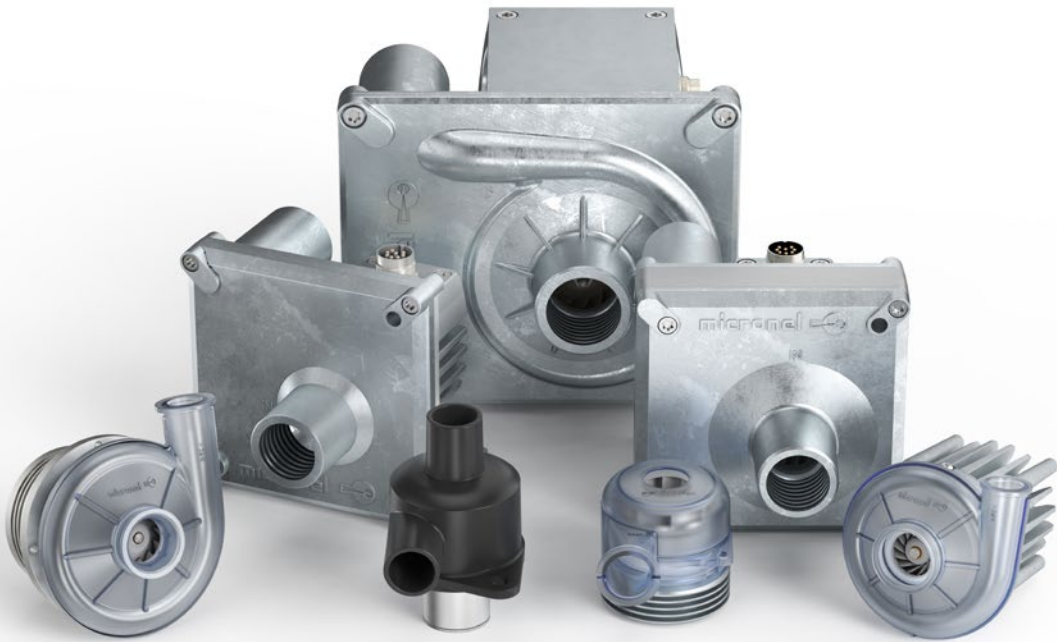


High Performance Blowers

For Industrial Air and Vacuum Applications



WE MOVE AIR



Our acoustics laboratory

We provide worldwide, perfectly engineered miniature high-performance fan and blower solutions for demanding air pressure, vacuum and flow applications.

Product Overview Versatile Product Range



Radial Blowers | U-Line

Our radial blowers are Micronel's hallmark and known for highest pressure and suction power in the smallest of space. Quiet, efficient, robust and long-lasting.



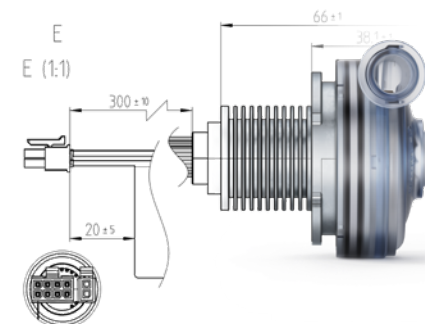
Tube Fans | D-Line

Our powerful and compact tube fans provide high air flow rates with consistently high pressure behavior. The ideal solution for suction, ventilation and cooling applications of all kinds.



Flat Fans | F-Line

Our world renowned flat fans are known for cooling electronics or dissipating heat and odors. The F-Line ensures long-lasting and reliable air transport for ruggedized environments.



Customized Developments

Our application experience and engineering competence make us the ideal project partner for customer-specific challenges.

Product Overview

Fans and Blowers for Industrial Applications

	Static Pressure	Freeflow	Size	Voltage	Max. Power Consumption	Electronic Motor Driver
Part Number	mbar	m³/h	mm	VDC	W	
C4010H24BPLB2a-7	0.66	13.8	40 x 40	24	1.3	Integrated
C6025H12BPLB2a-7	0.87	41.4	60 x 60	12	2.9	Integrated
D241P-006KH-4 ⁽¹⁾	2.82	7.2	Ø 24	6	1.7	Integrated
D301P-006KH-4 ⁽¹⁾	3.37	18.6	Ø 30	6	3.3	Integrated
D341P-024KM-4 ⁽¹⁾	6.69	29.4	Ø 34	24	5.2	Integrated
D481P-024KM-4 ⁽¹⁾	9.30	64.8	Ø 48	24	19.6	Integrated
D601P-024KM-4 ⁽¹⁾	8.20	114.6	Ø 60	24	32.3	Integrated
D801P-012KM-4 ⁽¹⁾	4.50	175.2	Ø 80	12	25.6	Integrated
U51HP-012KM-43 ⁽²⁾	26	22.8	Ø 51	12	27	Integrated
U51HP-024KM-43 ⁽²⁾	26	22.8	Ø 51	24	28	Integrated
U64HM-006KK-4 NEW	4.7	19.2	Ø 64	6	3.6	Integrated
U85HL-024KH-4 ⁽²⁾	129	52.8	Ø 85	24	190	Integrated ⁽³⁾
U97HL-024KM-4	24.8	59.4	Ø 97	24	36	Integrated
U100HL-024KA-4	114	51.9	106 x 106	24	161	Integrated
U100UL-024KA-4	114	51.9	106 x 106	24	161	Integrated
U100H4-024KA-4	180	51.6	106 x 106	24	250	Integrated
U150HL-048KA-4 NEW	213	118.8	164 x 144	48	480	Integrated

⁽¹⁾ These products are available with two option-articles: with a flange at outlet and with a flange at inlet.

⁽²⁾ These products are available with option articles: with nozzles at in-, outlet or both.

⁽³⁾ Available with or without electronic motor driver.

	C4010H24BPLB2a-7 / C6025H12BPLB2a-7 Super smooth and efficient operation!	Typical applications: Laser skin care cooling, body cooling, electronics cooling
	D241P-006KH-4 Space-saving design and low weight bring design flexibility!	Typical applications: Helmet ventilation, body cooling, electronics cooling
	D301P-006KH-4 Impressively small – surprisingly powerful convinces by performance!	Typical applications: Helmet ventilation, body cooling, electronics cooling

	D341P-024KM-4 Despite its small diameter, the compact fan makes great pressure!	Typical applications: Helmet ventilation, body cooling, electronics cooling
	D481P-024KM-4 Its size in relation to pressure performance will make it a big hit!	Typical applications: Scenting, cabin ventilation, electronics cooling
	D601P-024KM-4 High speeds ensure an impressive air flow!	Typical applications: Scenting, cabin ventilation, electronics cooling
	D801P-012KM-4 Speed and size guarantee maximum flow!	Typical applications: Scenting, cabin ventilation, electronics cooling
	U51HP-012KM-43 / U51HP-024KM-43 Cost effective blower with high pressure and flow rate!	Typical applications: Paper sheet feeder, vapor suction, cabin ventilation
	U64HM-006KK-4 NEW Cost effective blower and minimal power consumption!	Typical applications: Microbial monitoring systems, air sampling portable systems
	U85HL-024KH-4 Extremely powerful blower, very versatile and reliable!	Typical applications: Vacuum packaging, paper sheet feeder, cryo therapy
	U97HL-024KM-4 Powerful blower, where highest pressures are needed!	Typical applications: Industrial PAPR systems, vapor suction, laser skin cooling
	U100HL-024KA-4 / U100UL-024KA-4 Super ruggedized industrial, versatile blower!	Typical applications: Air knife drying, pick & place, dental suction
	U100H4-024KA-4 The industrial power blower – robust, powerful and versatile!	Typical applications: Air knife drying, pick & place, paper sheet feeder
	U150HL-048KA-4 NEW Highest performance in its compact class!	Typical applications: Air knife drying, pick & place, high air volume suction, inflation of medical balloons (compressed air replacement)

Electronics & Accessories

Some Major Products

Micronel Evaluation Motor Driver Box MDB-48/10
The versatile development tool for your application with an included configuration software. Sensored or sensorless operation.

	Part Number	Features	Suitable Products
	H023B-048ZX-0 Box M450X-587A9 M450X-588A9	12 to 48 V _{DC} , 10 A max. Adapter Cable 300 mm Adapter Cable 300 mm	Blowers with brushless motors U71HL, U85HL/MX/MN U51D2, U65H2/H4/HN/MN, U71HX/MX

Micronel Choke Module MCM-33/10
The module provides extra inductance to reduce ripple currents when operating low-inductance motors with Micronel driver electronics.

	Part Number	Features	Suitable Products
	S0500-00001	3 x 33 µH, 10.7 A max.	MDB-48/10 and MDM-48/10

Micronel Mini Smart Driver Module MSDM-24/10
This powerful and cost-effective compact driver can operate brushless and sensorless blowers and motors.

	Part Number	Features	Suitable Products
	H353X-024ZX-0	12 to 24 V _{DC} , 10 A max. Sensorless, analog and PWM set-speed inputs	Blowers without integrated driver electronics & brushless motors.

Micronel Mini Smart Driver Module MSDM-24/10 Eval-Kit
The Eval-Kit comes preassembled with mating cables, a speed control potentiometer, and configuration switches.

	Part Number	Features	Suitable Products
	H354X-024ZX-0	12 to 24 V _{DC} , 10 A max. Sensorless, potentionmeter and PWM set-speed inputs	Blowers without integrated driver electronics & brushless motors.

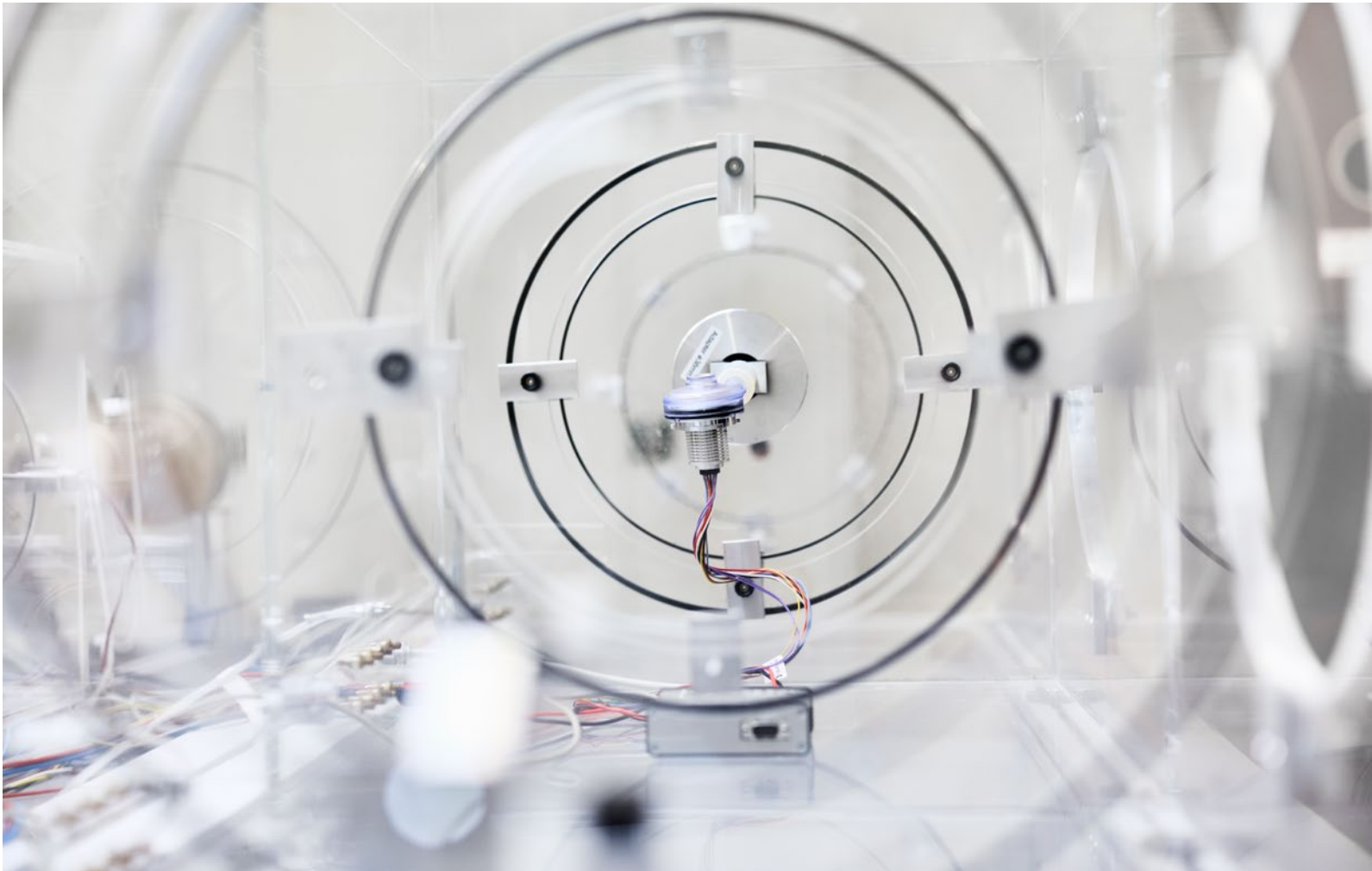
Micronel Rubber Buffer
Rubber buffer for protecting against vibrations.

	Part Number	Features	Suitable Products
	S5300-00001 S5300-00002 S5300-00003	M6, Ø 15 mm x 15 mm, 1 pc M6, Ø 15 mm x 20 mm, 1 pc M4, Ø 15 mm x 15 mm, 1 pc	U100HL, U100UL, U100H4 U51DL /-42 /-43, U51HP-43 U85HL

Individual Solutions

Customized Developments

Our goal is to develop technologies that ideally fit the needs of our clients. In our in-house laboratories, applications can be simulated and optimally tested.



Our flow laboratory

With our range of fan and blower solutions, we become an integral part of your system. Our strength lies in identifying the perfect product, assisting in seamless integration, and making any necessary individual adaptations to ensure a perfect fit, both on a mechatronic and electronic level. Moreover, it's our commitment to guarantee the delivery timeline of our fan and blower solutions throughout the entire lifecycle of your end product. We differentiate between product modifications and fully

customized solutions. Product modifications may include adjustments to sealings, cables and connectors, motors, fasteners, electronics optimizations, inlet and outlet adapters, labels, or fan impellers. Listening to our customers, understanding their needs, and collaboratively implementing optimal solutions is our standard practice. Solution-oriented, creative, reliable.

Applications and Markets

Worldwide in Use

Micronel fans, blowers and customized solutions are used worldwide across 26 market segments. Over 100 companies trust our Swiss-made innovations and expertise.

Air Knife Drying

Our high-performance blowers provide a cost-efficient alternative to central compressed air systems to **blow off** water droplets. Installed decentralized, they can reduce energy consumption by up to 50%.



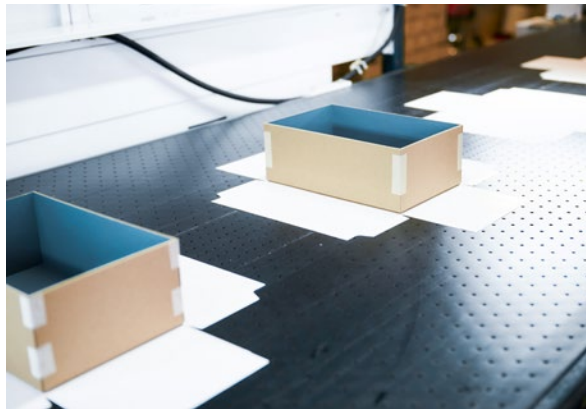
Pick & Place

For **vacuum pick & place** applications, our blowers provide a decentralized, efficient, and cost-effective alternative to central compressed air systems using Venturi nozzles.



Vacuum Conveying

Vacuum technology is commonly used to secure goods on conveyor belts. Our powerful blowers are installed decentralized, offering an energy-efficient, cost-effective, and maintenance-free solution.



Lab Air Sampling

Air sample collectors suck in defined air volumes using **suction blowers** for measurement in demanding environments. Our compact, efficient, and precisely controllable blowers are ideal for this application.



Cabin Ventilation

During precision flights, e.g. in mountain rescue or load transport, sunlight on the pilot's face requires **cooling**. Our proven, highly durable tube fans ensure reliable and targeted airflow.



Vapor Suction

In dishwashers and steam sterilization devices, flat, corrosion-, heat-, and moisture-resistant blowers are required for reliable **steam extraction**.





Climate Control
Fresh, heated air supply for harsh environments



Cabin Ventilation
Fresh air supply for cabin cooling



Suit Pressurizing
Purified air-inflated full body suits



Spraying
Pressurized aerosol spraying



Medical Breathing
Life critical, intensive care lung ventilation



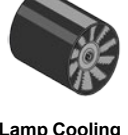
Mattress Inflation
Smooth air mattress operation for comfortable patient care



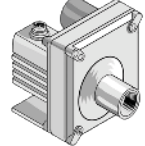
Gas Mask Respiration
Powered, purified air supply



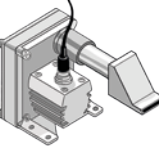
Dental Suction
Spittle and secretion suction



Lamp Cooling
Solarium UV lamp cooling



Smoke Aspiration
Electrosurgical smoke evacuation



Clean Blowing
In-line air cleaning and drying for food processing



Hand Dryer
Powerful air stream for hand drying



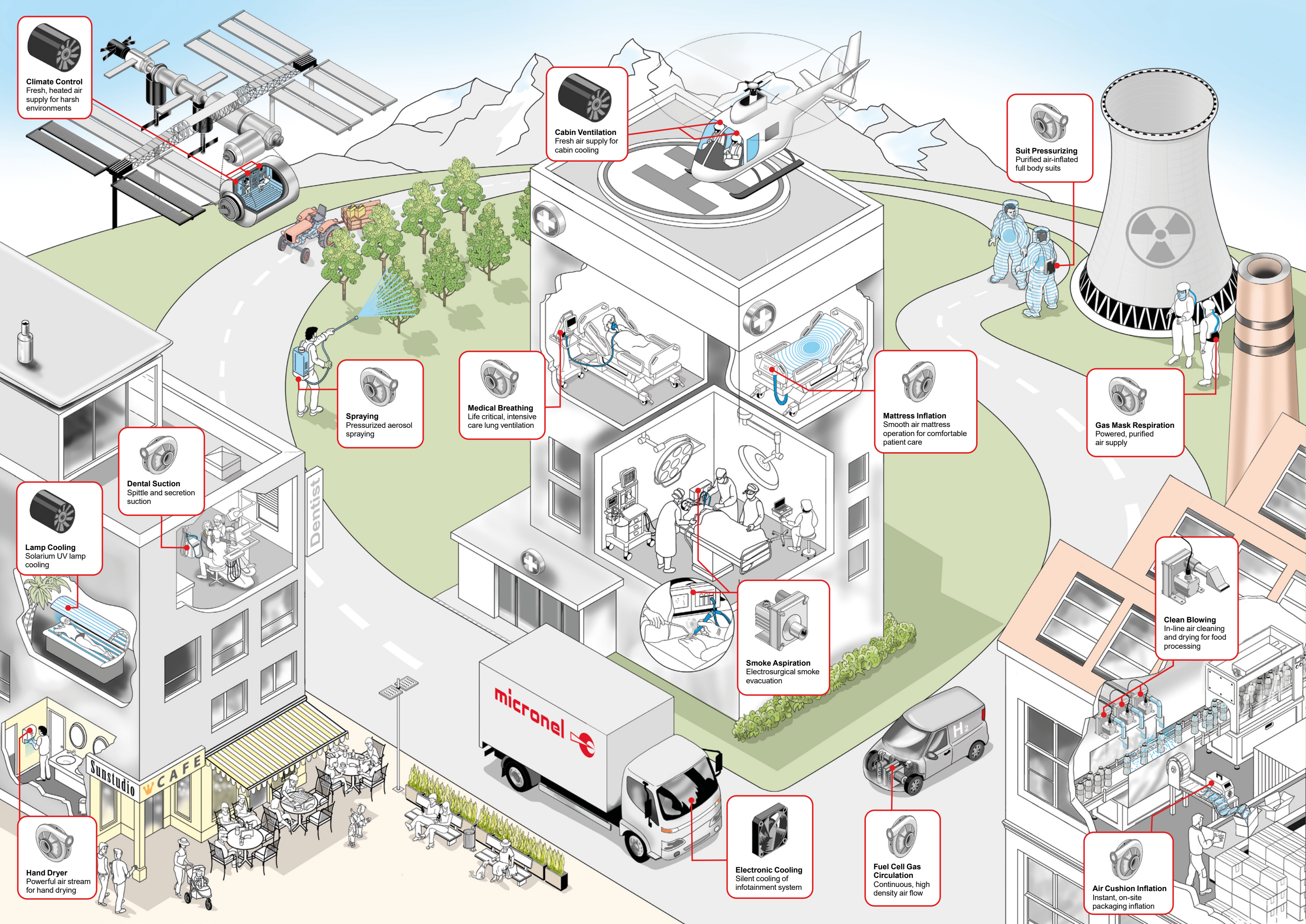
Electronic Cooling
Silent cooling of infotainment system



Fuel Cell Gas Circulation
Continuous, high density air flow

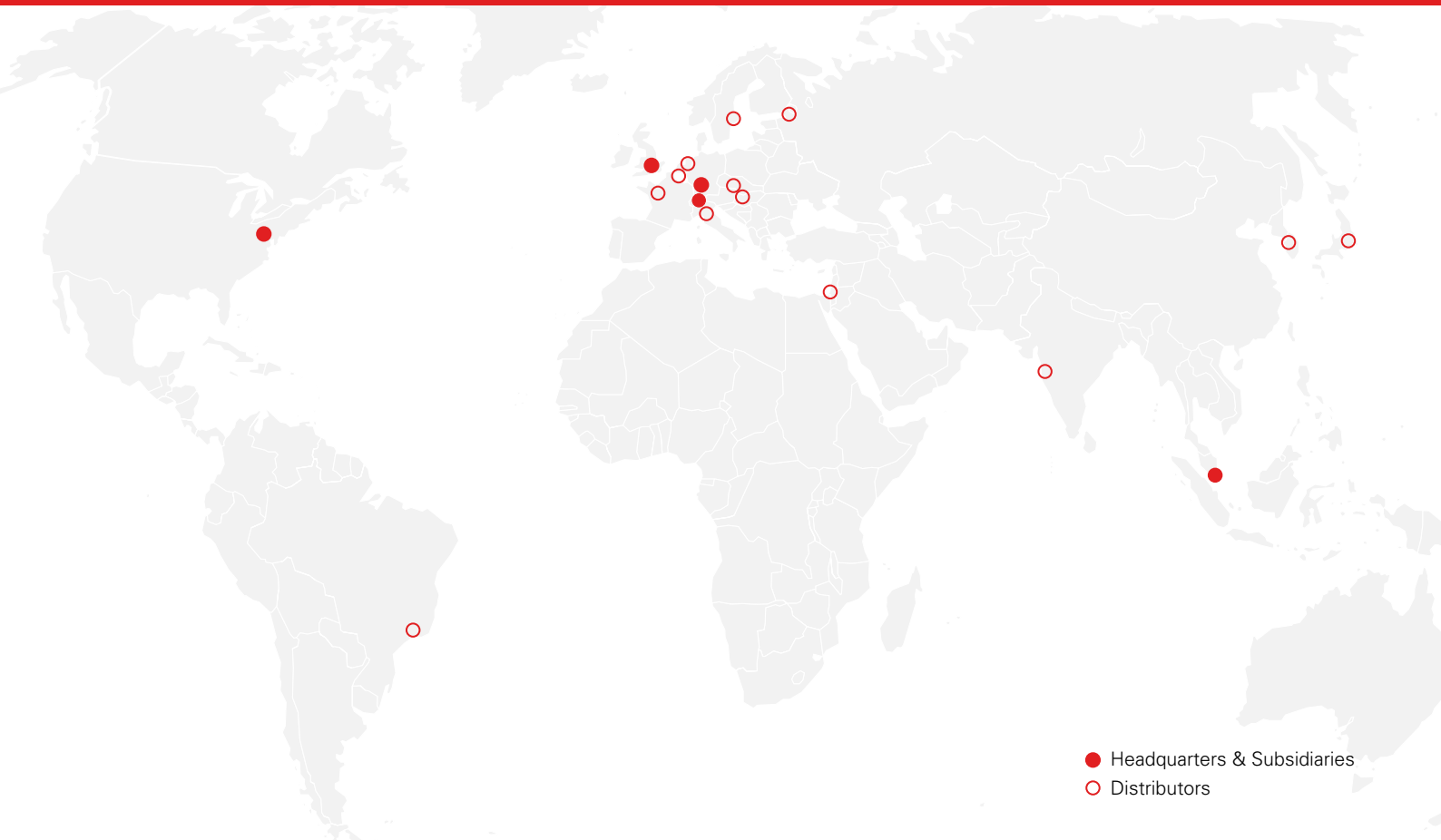


Air Cushion Inflation
Instant, on-site packaging inflation



Micronel

Locations & Distributors



Headquarters Switzerland

Micronel AG
Zürcherstrasse 51
CH-8317 Tagelswangen
+41 (0) 52 355 16 16
info@micronel.com
www.micronel.com

Subsidiaries

Micronel Deutschland GmbH
Gröninger Weg 7
DE-74379 Ingersheim

Micronel UK Ltd.
Unit 53, The Arches, Alma Road,
Windsor, UK-SL4 3HY Berkshire

Micronel USA Inc.
12115 Insurance Way,
US-MD 21740 Hagerstown

Micronel Asia-Pacific Pte. Ltd.
9 Raffles Place #24-01, Republic Plaza Tower 1
Singapore 048619