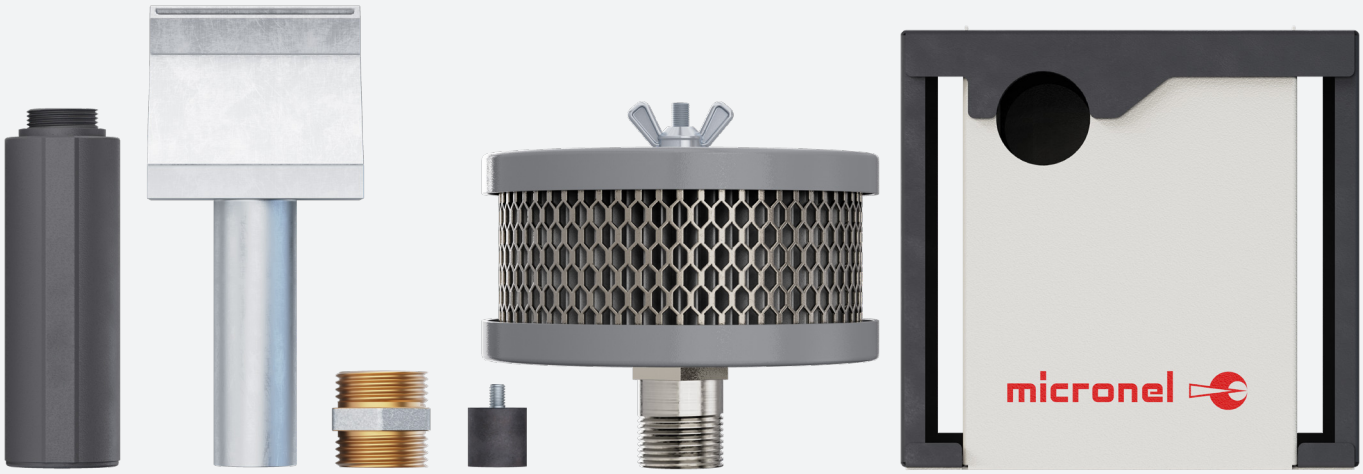
Range of Accessories



Content

Micronel Air Knife	3
Micronel Silent Box	4
Micronel Silencer	4
Micronel Rubber Buffer	5
Micronel Air Filter (Paper)	6
Micronel Filter Cartridge (Paper)	6
Micronel Air Filter (Polyester)	7
Micronel Filter Cartridge (Polyester)	7
Micronel Vacuum Filter VFU1000	8
Micronel Filter Cartridge VFU1000	8
Micronel Vacuum Filter VFU1600	9
Micronel Filter Cartridge VFU1600	9
Micronel Connector-Set M450X	10
Micronel Cable U100X-M16 6-Pol	11
Micronel Choke Module MCM-33/10	12
Micronel MDB Adapter Cables for MDB-48/10	13
Micronel Thread Adapter G¾	13
Micronel Outlet Port U97XX-009C3	14
Micronel Outlet Port U97XX-048A3	14
Micronel Inlet Port U97XX-500A9	15

Micronel Air Knife

Blow-off device for a consistent stream of air

Technically and geometrically tailored to the U85 and U100 blowers, the Air Knife allows for a blade-like air flow to be generated, which is ideally suited for removing dirt particles and fluids. Due to being robustly manufactured from stainless steel, the nozzle is rust-free and impervious to detergents.

Properties

- Substantial cost reduction compared with a compressed air application
- Increased efficiency with cleaning and drying applications
- Precise discharge opening for a consistent air flow
- High air discharge velocity and high compressive force

Micronel Air Knife 40
40 mm

Micronel Air Knife 60
60 mm

Micronel Air Knife 80
80 mm

Order Specification

Part No.	Product Type	Size
S4000-00001	Micronel Air Knife 40	25 mm fitting, 40 x 1.5 mm
S4000-00002	Micronel Air Knife 60	25 mm fitting, 60 x 1.2 mm
S4000-00003	Micronel Air Knife 80	25 mm fitting, 80 x 1.2 mm

Suitable blowers	Micronel Radial Blower	U85HL-024KM-42 /-43 /-52 /-53 U85MX-024KM-42 /-43 /-52 /-53 U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Silent Box

Sound attenuation housing with 25 mm inlet and outlet nozzles

Suitable feet:
S5300-00003
(on page 5)

The sound attenuation housing made of galvanized sheet steel is equipped with inner foam insulation. Due to this combination of materials, disruptive motor noises are insulated. The 25 mm connectors are readily accessible. Rubber feet provide for further vibration decoupling.

Properties

- Sound-absorbing walls, reduction of the motor sound level by approx. -6 dB(A)
- Reduction of external vibrations
- The shape geometry enables the internal heat to escape

Order Specification

Part No.	Product Type	Size
S1100-00001	Micronel Silent Box	157 x 140 x 97 mm

Suitable blowers	Micronel Radial Blower	U71HL-024KM-43 U85HL-024KH-43 U85MX-024KX-43

Micronel Silencer

Outlet silencer for reducing flow noises

The Micronel Silencer can be used to reduce occurring flow noises. The plastic silencer has a G¾" male thread for the easy and direct assembly on the U100 blower.

Properties

- Reduction of the flow noise level by up to -10 dB(A)
- Inner insulation, compact shape geometry

Order Specification

Part No.	Product Type	Size
S1900-00001	Micronel Silencer	127 x 41 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Rubber Buffer

Rubber buffer for protecting against vibrations

The buffers are used as vibration damper elements to compensate for vibrations.

Properties

- Reduction of oscillations and vibrations
- Reduction of mechanical vibration and oscillation noises

Micronel Rubber Buffer M6x16
15 mm
Thread length: 16 mm

Micronel Rubber Buffer M6x15
20 mm
Thread length: 15 mm

Micronel Rubber Buffer M4x6
15 mm
Thread length: 6 mm

Order Specification

Part No.	Product Type	Size
S5300-00001	Micronel Rubber Buffer M6x16	Ø 15 mm x 15 mm, 1 Stück
S5300-00002	Micronel Rubber Buffer M6x15	Ø 15 mm x 20 mm, 1 Stück
S5300-00003	Micronel Rubber Buffer M4x6	Ø 15 mm x 15 mm, 1 Stück

Suitable blowers	Micronel Radial Blower	**S5300-00001** U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4 **S5300-00002** U51DL-012KK-42 /-43 U51DL-024KK-42 /-43 U51HP-012KM-43 U51HP-024KM-43 **S5300-00003** U85HL-024KH-4 /-41 /-42 /-43 U85HL-024KH-5 /-51 /-52 /-53

Micronel Air-Filter (Paper)

Suction filter for protecting the blower from contaminants, filtering degree 2 µm

To avoid impairments due to dirt particles, it is usually necessary to use a suction filter for some applications. The filter ensures that suctioned dirt and particles do not get into the blower.

Properties

- Protects the blower from dirt and debris
- Replaceable filter cartridge
- G¾" male thread for direct mounting on the U100 blower
- Filter material: Paper
- Large filter surface and minimal pressure loss

Order Specification

Part No.	Product Type	Size
S8100-00001	Micronel Air-Filter (Paper)	Ø 120 x 110 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Filter Cartridge (Paper)

Replacement filter cartridge

The replacement cartridge for the Micronel Air-Filter can be easily replaced in the assembled state without having to replace the entire filter.

Properties

- Cost-effective replacement filter cartridge
- Simple and quick replacement
- Filter material: Paper

Order Specification

Part No.	Product Type	Size
S8100-00002	Micronel Filter Cartridge (Paper)	Ø 110 x 60 mm

Suitable blowers	Micronel Air-Filter (Paper)	S8100-00001

Micronel Air-Filter (Polyester)

Filter element for protecting the blower from contaminants, filtering degree 10 µm

To avoid impairments due to dirt particles, it is usually necessary to use a rust-free suction filter in the food industry or for industrial parts cleaning applications. The filter ensures that suctioned dirt and particles do not get into the blower.

Properties

- Replaceable filter cartridge
- G¾" male thread for direct mounting on the U100 blower
- Plastic housing including polyester insert
- Rust-free

Order Specification

Part No.	Product Type	Size
S8200-00001	Micronel Air-Filter (Polyester)	Ø 106 x 90 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Filter Cartridge (Polyester)

Replacement filter cartridge

The replacement cartridge for the Micronel vacuum filter can be easily replaced in the assembled state without having to replace the entire filter.

Properties

- Cost-effective replacement filter cartridge
- Simple and quick replacement
- Filter material: Polyester

Order Specification

Part No.	Product Type	Size
S8200-00002	Micronel Filter Cartridge (Polyester)	Ø 106 x 55 mm

Suitable blowers	Micronel Air-Filter (Polyester)	S8200-00001

Micronel Vacuum Filter VFU1000

Vacuum filter including paper filter insert, filter fineness 3 - 5 µm

To avoid impairments due to dirt particles, it is usually necessary to use a vacuum filter for many vacuum applications. The filter ensures that suctioned dirt and particles do not get into the blower.

NOTE

Thread adapter is needed to connect the filter with the blowers.

Properties

- Replaceable filter cartridge
- Filter material: Impregnated cellulose paper, filter fineness 3 - 5 µm
- Solid filter housing made of steel
- G¾" female thread

Order Specification

Part No.	Product Type	Size
S8300-00005	Micronel Vacuum Filter VFU1000	Ø 102 x 91 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Filter Cartridge VFU1000

Replacement filter cartridge

The replacement cartridge for the Micronel vacuum filter can be easily replaced in the assembled state without having to replace the entire filter.

Properties

- Cost-effective replacement filter cartridge
- Simple and quick replacement
- Filter material: Impregnated cellulose paper

Order Specification

Part No.	Product Type	Size
S8100-00003	Micronel Filter Cartridge VFU1000	Ø 63 x 69 mm

Suitable blowers	Micronel Vacuum Filter VFU1000	S8300-00005

Micronel Vacuum Filter VFU1600

Vacuum filter including paper filter insert, filter fineness 3 - 5 µm

To avoid impairments due to dirt particles, it is usually necessary to use a vacuum filter for many vacuum applications. The filter ensures that suctioned dirt and particles do not get into the blower. Due to the large filter surface, longer product lifetimes are to be expected.

NOTE

Thread adapter is needed to connect the filter with the blowers.

Properties

- Large filter surface and minimal pressure loss
- Replaceable filter cartridge
- Filter material: Impregnated cellulose paper, filter fineness 3 - 5 µm
- Solid filter housing made of steel
- G1¼" female thread

Order Specification

Part No.	Product Type	Size
S8100-00006	Micronel Vacuum Filter VFU1600	Ø 135 x 100 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Filter Cartridge VFU1600

Replacement filter cartridge

The replacement cartridge for the Micronel vacuum filter can be easily replaced in the assembled state without having to replace the entire filter.

Properties

- Cost-effective replacement filter cartridge
- Simple and quick replacement
- Filter material: Impregnated cellulose paper

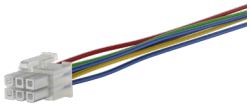
Order Specification

Part No.	Product Type	Size
S8100-00004	Micronel Filter Cartridge VFU1600	Ø 98 x 71 mm

Suitable blowers	Micronel Vacuum Filter VFU1600	S8100-00006

Micronel Connector-Set M450X

Molex connector (Mini-Fit, six-pole) with connector cable



Connector cable M450X for U85 blowers with integrated electronics. The six-pole Molex connector is the counter-part to the blower connector.

Properties

- Micronel color coding
- Molex connector
- Wiring harness: 300 mm long
- Lead wire: 4 x AWG24
2 x AWG18

Order Specification

Part No.	Product Type	Size
M450X-527A9	Micronel Conector-Set M450X	300 mm (+/-15 mm) Stranded wires Ø 1.5 mm²

Suitable blowers	Micronel Radial Blower	U85MX-024KE-4 U85HL-024KH-4

Micronel Cable U100X-M16 6-Pol

Six-pole M16 plug with connection cable

Connection cable for all blowers of the U100 series. The six-pole connector cable is completely injection molded and complies with protection class IP67. The cable is available in two connector versions (90° angled and straight).

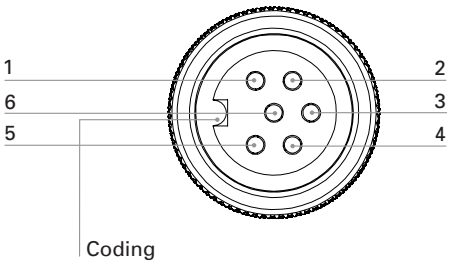
c UL us
CABLE ASSY FOR IND. CONT.
E516370

Properties

- Plastic injection molding
- M16 cable plug with a straight or 90° angle socket
- Various cable lengths
- Cable thickness: 6.5 mm
- Protection rating IP67 when screwed in
- Lead wire: 4 x AWG24
  2 x AWG16

Pinout

Pin	Wire	Function		Color
1	AWG 24	Signal	NTC	white/WH
2	AWG 16	Power	+24 V	red/RD
3	AWG 16	Power	GND	black/BK
4	AWG 24	Signal	Set Speed/VSP	green/GN
5	AWG 24	Signal	Tacho/FG	yellow/YE
6	AWG 24	Signal	NTC	blue/BU



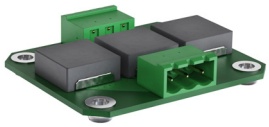
Order Specification

Part No.	Product Type	Size
S0400-10001	Micronel Cable U100X-M16 6-Pol	90° angle, 2.5 m length
S0400-10002	Micronel Cable U100X-M16 6-Pol	90° angle, 5.0 m length
S0400-10003	Micronel Cable U100X-M16 6-Pol	90° angle, 10.0 m length
S0400-10004	Micronel Cable U100X-M16 6-Pol	90° angle, 1.0 m length
S0400-20001	Micronel Cable U100X-M16 6-Pol	Straight, 2.5 m length
S0400-20002	Micronel Cable U100X-M16 6-Pol	Straight, 5.0 m length
S0400-20003	Micronel Cable U100X-M16 6-Pol	Straight, 10.0 m length
S0400-20004	Micronel Cable U100X-M16 6-Pol	Straight, 1.0 m length

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Choke Module MCM-33/10

A module providing extra inductance



In order to run a low inductance motor with the Micronel Driver Electronics (MDB-48/10, MDM-48/10, MSDM-24/10) it is advisory to use the Micronel Choke Module MCM-33/10 to reduce ripple currents. The module comes with mating connectors.

Properties

- 3 coils with 33 µH inductance for each phase
  Currents: 10.7 A_{RMS} / 15 A_{Sat}
- Reduction of ripple currents
- Raises system efficiency
- Reduces unwanted power dissipation and heat generation in the internals of the motor
- Improves EMC
- Extends lifetime of the fan
- Two Amphenol Anytek 20020110-H031A01LF PCBA terminal blocks
- Two Amphenol Anytek 20020006-H031B01LF mating connectors included

Order Specification

Part No.	Product Type	Size
S0500-00001	Micronel Choke Module MCM-33/10	60 x 50 x 13 mm

Suitable for the motor drivers	Micronel Motor Driver Box MDB-48/10 Micronel Motor Driver Module MDM-48/10	H023B-048ZX-0 H013B-048ZX-0
Recommended for the blowers	Micronel Radial Blower	U65HN-024KS-6 U71HN-024KX-6

Micronel MDB Adapter Cables for MDB-48/10

For various Micronel Blowers

These adapter cables allow limited selection of Micronel blowers to be connected directly to the Micronel Motor Driver Box MDB-48/10.

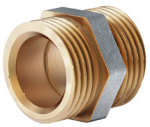
Order Specification

Part No.	Product Type	Size
M450X-587A9	MDB Adapter Cable	300 mm
M450X-588A9	MDB Adapter Cable	300 mm

Suitable blowers	Micronel Radial Blower	**M450X-587A9** U71HL-024KM-5/51/52/53 U85HL-024KH-5/51/52/53 U85MX-024KX-5/51/52/53 U85MX-024KE-5, U85MN-024KE-5 **M450X-588A9** U51D2-024KX-6, U65H4-024KX-6, U65HN-024KS-6, U65MN-024KD-5, U65MN-024KS-5, U65MN-024KS-6, U71HX-024KX-6, U71MX-024KX-5

Micronel Thread Adapter G¾

Connection adapter with two male threads



The brass double nipple is the connecting piece between the blower and vacuum filter. Manufactured with two male threads G¾" to G¾", direct assembly of the accessories is possible.

Properties

- Bypass adapter with screw-in thread
- Manufactured from rust-free brass

Order Specification

Part No.	Product Type	Size
S5200-00001	Micronel Thread Adapter G¾"	27 x 28 mm

Suitable blowers	Micronel Radial Blower	U100HL-024KA-4 U100UL-024KA-4 U100H4-024KA-4

Micronel Outlet Port U97XX-009C3

Port to extend outlet

The outlet port can be used to extend the outlet opening on the blower. The port, made of plastics, must be placed over the blower outlet.

Properties

- Outlet extension
- Made from plastics
- Simple and quick assembly

Order Specification

Part No.	Product Type	Size
U97XX-009C3	Micronel Outlet Port U97XX-009C3	Ø38 mm, 56 x 46 mm

Suitable blowers	Micronel Radial Blower	U97DR-012KK-4 U97DR-024KK-4 U97EM-012KK-3 U97EM-024KK-3 U97EQ-012KK-4 U97EQ-024KK-4 U97HL-024KM-4 U97HL-024KK-4 U97LM-005KK-1

Micronel Outlet Port U97XX-048A3

Port to extend outlet

The outlet port can be used to extend the outlet opening on the blower. The port, made of plastics, must be placed over the blower outlet.

Properties

- Outlet extension
- Made from plastics
- Simple and quick assembly

Order Specification

Part No.	Product Type	Size
U97XX-048A3	Micronel Outlet Port U97XX-048A3	Ø25 mm, 56 x 37 mm

Suitable blowers	Micronel Radial Blower	U97DR-012KK-4 U97DR-024KK-4 U97EM-012KK-3 U97EM-024KK-3 U97EQ-012KK-4 U97EQ-024KK-4 U97HL-024KM-4 U97HL-024KK-4 U97LM-005KK-1

Micronel Inlet Port U97XX-500A9

Port to extend intlet

The inlet port can be used to extend the inlet opening on the blower. The port, made of plastics, must be placed over the blower intlet.

Properties

- Inlet extension
- Firm hold, inlet extension is screwed to the blower

Order Specification

Part No.	Product Type	Size
U97XX-500A9	Micronel Inlet Port U97XX-500A9	Ø 38 mm, 56 x 30 mm

Suitable blowers	Micronel Radial Blower	U97DR-012KK-4 U97DR-024KK-4 U97EM-012KK-3 U97EM-024KK-3 U97EQ-012KK-4 U97EQ-024KK-4 U97HL-024KM-4 U97HL-024KK-4 U97LM-005KK-1

All data are subject to change without advanced notice.
© 2024 by Micronel AG. All rights reserved.

Micronel AG
Zürcherstrasse 51
CH - 8317 Tagelswangen

T +41 52 355 16 16
info@micronel.com
www.micronel.com

20.12.2024 / Rev.-Nr. 15 / EN