

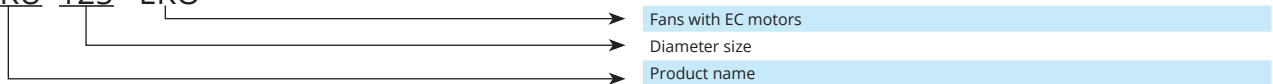
AKU EKO



CIRCULAR DUCT FANS

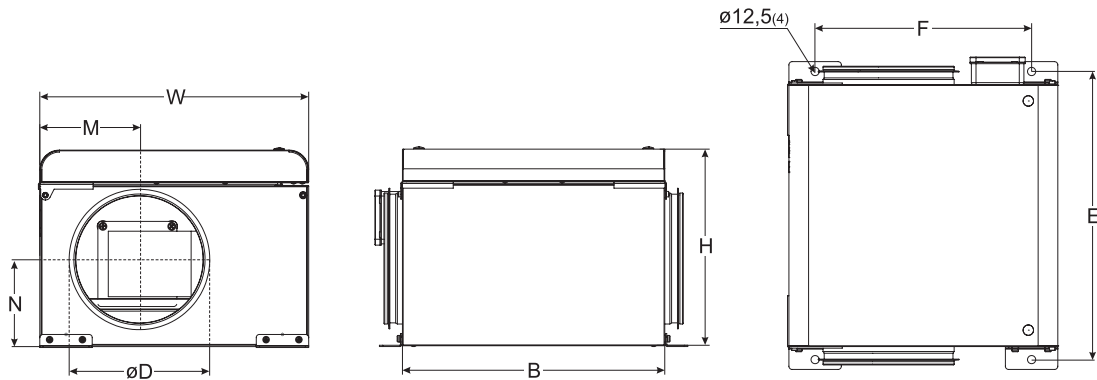
Features	<ul style="list-style-type: none"> › Diameter - 125 mm to 315 mm; › Airflow up to 1640 m³/h; › Easily mounted in any position; › Backward-curved impeller; › Fan speed 100% controllable via 0-10 V signal; › Energy efficient; › Acoustically insulated.
Power supply	230V/50Hz/1f.
Temperature range	From -25°C up to 55°C/60°C.
Sizes	125, 160, 200, 250, 315.
Construction	<ul style="list-style-type: none"> › Casing: galvanized sheet steel; › Acoustic and thermal wall insulation – 50mm; › Fan: centrifugal impeller and external rotor motor; › Motor protection integrated into motor electronics; › Motor protection class: IP44/ IP54 (AKU EKO 315 only); › Terminal box protection class: IP55.
Installation	<ul style="list-style-type: none"> › Mounting with ducts: Spiro, flexible aluminium or plastic. › Device can only be used indoors. › Not suitable for polluted air or volatile and explosive gases.
Speed control options	<ul style="list-style-type: none"> › 10 kΩ potentiometer; › External signal 0-10 VDC/PWM from user controller. › Can be connected directly to optional constant pressure sensors, CO₂, RH or an on/off switch.

AKU 125 EKO



Accessories

0-10V speed controller	Mounting clamp	Guard grille	Back draft shutter	Circular duct silencer	Filter cassette
MTP010 p. 128	AP p. 189	AGO p. 181	RSK p. 177	AKS p. 174	FD p. 169



Type	Dimensions [mm]							
	B	W	H	M	N	øD	E	F
AKU 125 EKO	400	410	325	205	165,5	125	440	330
AKU 160 EKO	550	485	340	149	193	160	590	405
AKU 200 EKO	600	545	425	170	259,5	200	640	465
AKU 250 EKO	600	545	425	194	234,5	250	640	465
AKU 315 EKO	437	595	475	297,5	238	315	477	515

Type	Accessories								
	MTP010	Stouch	AP AGO	RSK	AKS	FD FDI	EKA AVS	S-RCO2-F2 S-KCO2	S-RFF-U-D-F2 S-KFF-U
AKU 125 EKO	MTP010	+	125	125	125	125	125	+	+
AKU 160 EKO	MTP010	+	160	160	160	160	160	+	+
AKU 200 EKO	MTP010	+	200	200	200	200	200	+	+
AKU 250 EKO	MTP010	+	250	250	250	250	250	+	+
AKU 315 EKO	MTP010	+	315	315	315	315	315	+	+

Humidity sensor

CO2 sensor



Filter cassette

Electric duct heater

Heating coil

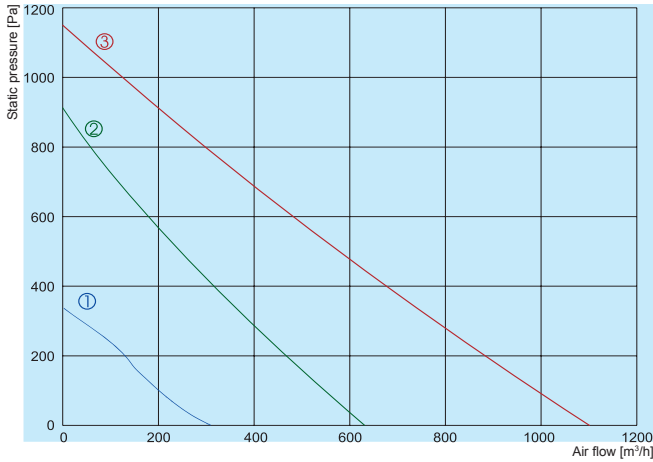
Controller

Humidity sensor

CO2 sensor



AKU EKO



- ① — AKU 125 EKO
- ② — AKU 160 EKO
- ③ — AKU 200 EKO

		125 EKO	160 EKO	200 EKO
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230	~1, 230
Power consumption	[kW]	0,053	0,114	0,195
Current	[A]	0,4	0,99	1,45
Speed	[min ⁻¹]	4480	3490	3380
Max. airflow	[m³/h]	308	630	1100
Min./Max. air temperature	[°C]	-20/50	-25/60	-25/45
Weight	[kg]	12,3	19,0	25,0
Wiring diagram		No. 1	No. 1	No. 3
Protection class:	motor	IP-44	IP-44	IP-44
	terminal box	IP-55	IP-55	IP-55
Impeller		backwards curved	backwards curved	backwards curved
Inlet		single	single	single
Comply with ERP		2016	2018	2018

125 EKO

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	59	41	54	56	45	45	40	44
Outlet	65	43	58	62	57	57	52	49
Surrounding	47	28	43	44	36	34	31	29

Measured at 207 m³/h, 95 Pa

160 EKO

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	65	49	63	60	49	51	48	46
Outlet	74	52	68	70	67	64	61	58
Surrounding	54	36	52	49	42	41	38	36

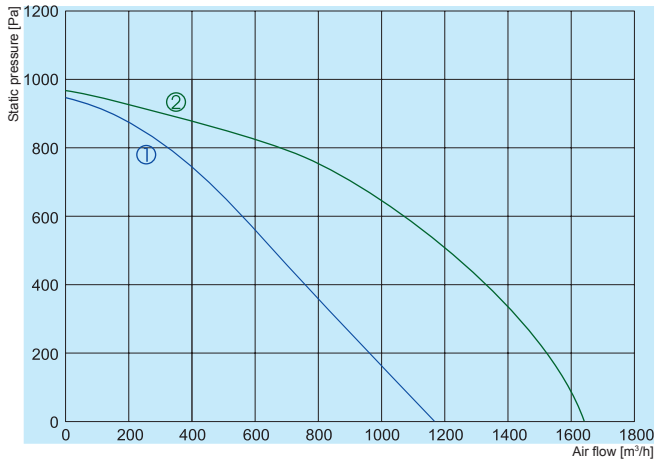
Measured at 413 m³/h, 211 Pa

200 EKO

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	68	52	66	60	56	54	51	52
Outlet	80	56	74	76	74	69	64	63
Surrounding	58	39	56	52	49	45	41	42

Measured at 805 m³/h, 170 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.



- ① — AKU 250 EKO
- ② — AKU 315 EKO

		250 EKO	315 EKO
Voltage/Frequency	[V/Hz]	~1, 230	~1, 230
Power consumption	[kW]	0,213	0,400
Current	[A]	1,69	3,00
Speed	[min ⁻¹]	3220	3400
Max. airflow	[m ³ /h]	1167	1642
Min./Max. air temperature	[°C]	-20/60	-25/55
Weight	[kg]	25,0	31,0
Wiring diagram		No. 1	No. 2
Protection class:	motor	IP-44	IP-54
	terminal box	IP-55	IP-55
Impeller		backward curved	backward curved
Inlet		single	single
Comply with ERP		2018	2018

CIRCULAR DUCT FANS

250 EKO

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	73	57	70	64	66	59	53	52
Outlet	84	62	77	80	78	73	68	64
Surrounding	63	45	60	56	56	49	44	42

Measured at 1049 m³/h, 120 Pa

315 EKO

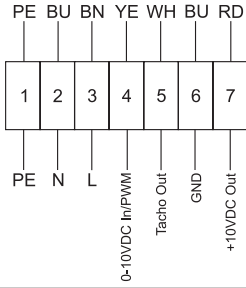
	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	76	59	73	67	68	65	58	55
Outlet	87	64	75	84	81	76	72	67
Surrounding	65	47	61	60	58	54	48	45

Measured at 1553 m³/h, 120 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

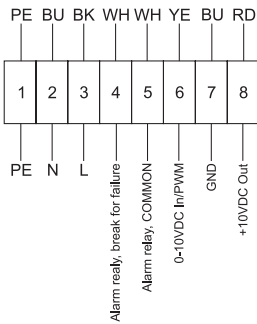
The company reserves the right to make changes of technical data without prior notice

Wiring diagram No. 1 (1~230V)



- PE - yellow-green
- BU - blue
- BN - brown
- YE - yellow
- WH - white
- RD - red
- BN/BK - brown/black

Wiring diagram No. 2 (1~230V)



Wiring diagram No. 3 (1~230V)

