



alaskon

AIR MOVEMENT PRODUCTS & EXPERTISE

EC Axial Fan Catalogue

Low Noise Fans with EC External Motors



Maximum efficiency
— Minimum power



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“LOWEST WHOLE-OF-LIFE COST
FOR GREATEST FUNCTIONALITY
AND SIMPLICITY”



Education Facilities



Indoor Air Quality



Clean-Room Ventilation



Data Centre Ventilation

**Highest motor efficiency available (IE4). Delivers lowest running costs. Integrated speed control.
No VSD required. No VSD's, means no harmonic noise generation delivering the lowest motor sound levels.**

EC FANS, DELIVERING...

- Ease of Commissioning.
- No motor data input into VSD required.
- Screened power cable not required.
- Delivers cost savings plus no power cable length limitations.
- Phase protection included.
- No overload required.
- Closed loop control capability without remote control modules delivers cost savings and ease of installation.
- Cooler running temperature delivers longer bearing life.
- Faster Nominal speeds than AC equivalents deliver greater flexibility to handle on-site installation variations.
- In-built thermal control. Real-time management of fan speed to control any thermal issues.
- Ease of adjustment during commissioning to ensure specified fan duties are met.
- Integrated motorised impeller delivers minimum operational vibration.
- Automatically correct fan rotation regardless of power supply orientation.

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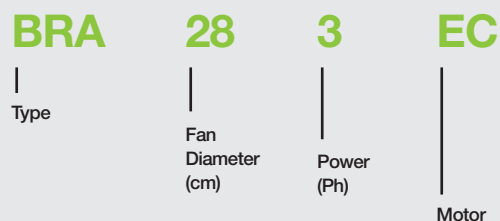
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Model number description



EC Axial Fans

The energy saver amongst fans

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Alaskon reserves the right to alter technical specifications without prior notice.

SPECIFICATION

INLINE AXIAL EC FAN

Sizes (mm)

300, 400, 500, 630, 800, 1000mm diameter.

Fan Performance

The fan is of low noise and high static efficiency design. The impeller is designed to give excellent performance characteristic with high static pressure development without stalling.

Impellers

Ziehl-Abegg FE2owlet – ECblue with axial aerofoil section and owlet edge. The impellers are manufactured from composite material and balanced according to ISO1940.

Motors

Ziehl-Abegg third generation EC motors. Motor enclosure to feature IP54 protection . Motor winding insulation are to incorporate thermal class 155 as standard. All models supplied with basic controller on-board activation via external speed setting 0-10v/PWM. The three phase models have premium plug-in controller available as option. Motor bearings are to be of maintenance free ball bearing design. Auto-reset thermal contacts are provided as standard.

Casing

Casing of the fans are of galvanised steel, with flange connection to suit either flexible duct or galvanised steel ductwork.



Ziehl-Abegg

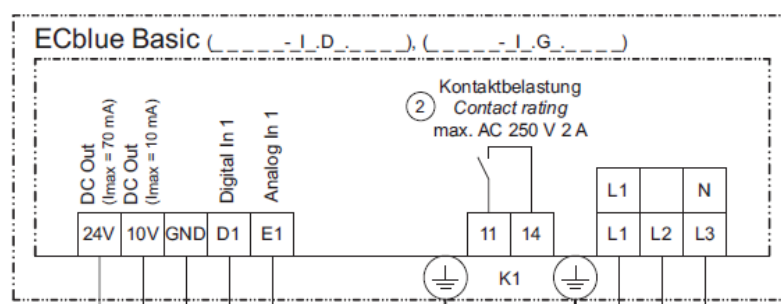
FE2owlet EC blue external rotor

Control Wiring Diagram

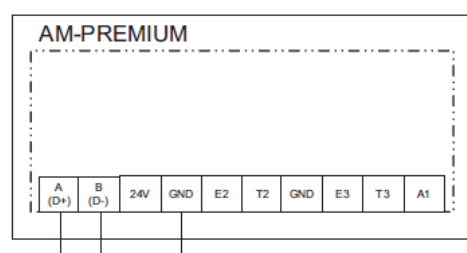
Single Phase

10V	10 V DC Out ($I_{max} = 10 \text{ mA}$)	RD
D1	D1 Digital In 1	GN
GND	GND	BU
A2	A2 Operation Out OC	GY
E1	E1 Analog In 1	YE
A1	A1 Status Out OC	WH

Three Phase



Premium module (For Three Phase model only)



Test Procedures

Performance Data – Established from tests in accordance with ISO5801:1997.

Sound levels – Established from tests in accordance with ISO3745.



electronically commutated
highly efficient
low sound aerofoil impeller

01 / BAX-EC

- Inline duct mounted fan with flange connection.
- Galvanised sheet steel casing.
- Acoustically optimised axial impeller.
- Integrated electrical protection.
- EC motor interfaced for easy control.
- Correct rotation and airflow direction assured.

BAX301-EC

INLINE AXIAL EC FAN

Impeller

- Size:** 300 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 44
- Power:** 0.15 kW
- Power Supply:** 230V/1PH/50Hz
- Speed:** 1900 RPM
- FLC:** 1.15 A
- Control I/O:**
 - 1 x Analogue Input E1
 - 1 x Status output A1
 - 1 x Operation output A2
 - 1 x 10V DC output

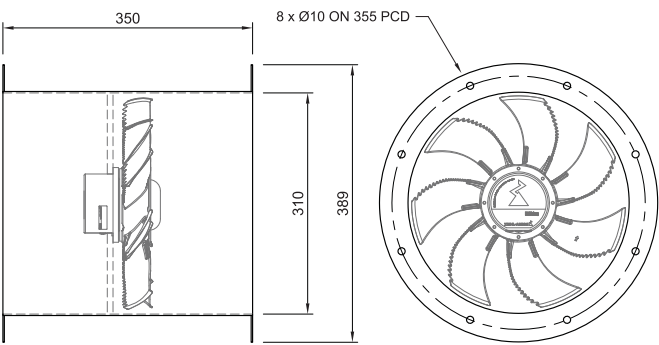
Fan

- Case:** Galvanised Metal
- Weight:** 12 kg
- Max. Temp:** 60 °C

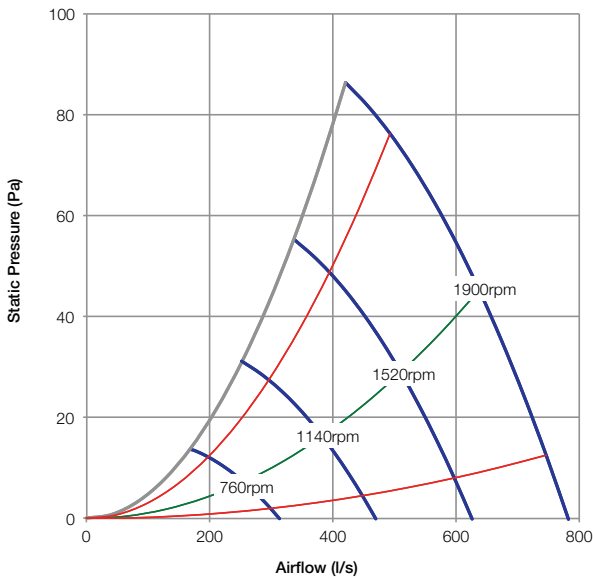
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1900	86	0.15	1.15
1520	55	0.077	0.55
1140	31	0.036	0.28
760	14	0.015	0.15

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
67	65	63	64	64	67	65	57	51
64	63	60	59	60	62	58	49	45
60	56	57	56	54	55	48	40	39
55	47	45	44	46	43	34	32	28

BAX401-EC

INLINE AXIAL EC FAN

Impeller

Size: 400 mm
Type: Axial Aerofoil
Material: High Performance Composite Material

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 0.45 kW
Power Supply: 230V/1PH/50Hz
Speed: 1805 RPM
FLC: 2.40 A
Control I/O: 1 x Analogue Input E1
 1 x Status output A1
 1 x Operation output A2
 1 x 10V DC output

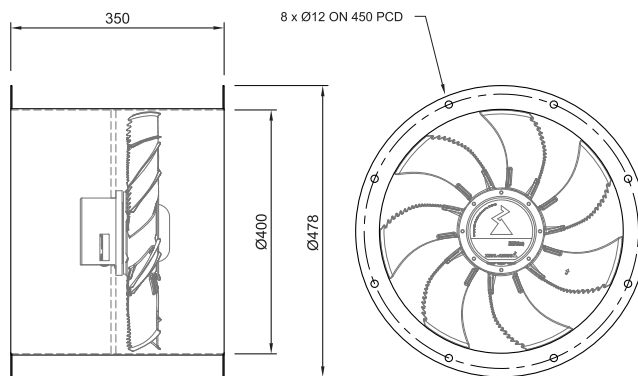
Fan

Case: Galvanised Metal
Weight: 38 kg
Max. Temp: 60 °C

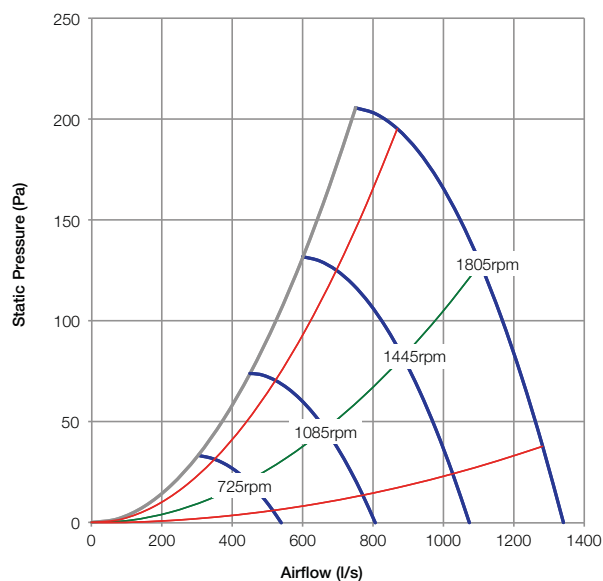
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1805	206	0.45	2.4
1445	132	0.20	0.96
1085	74	0.09	0.49
725	33	0.04	0.23

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
64	66	71	68	66	67	64	57	50
61	68	63	61	62	62	58	51	46
56	65	56	55	56	56	50	41	41
58	52	51	45	47	46	38	28	34

BAX503-EC

INLINE AXIAL EC FAN

Impeller

- Size:** 500 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 54
- Power:** 1.00 kW
- Power Supply:** 400V/3PH/50Hz
- Speed:** 1550 RPM
- FLC:** 1.70 A
- Control I/O:**
 - 1 x Digital Input D1
 - 1 x Analogue Input E1
 - 1 x Status contact output K1
 - 1 x 10V DC output
 - 1 x 24V DC output

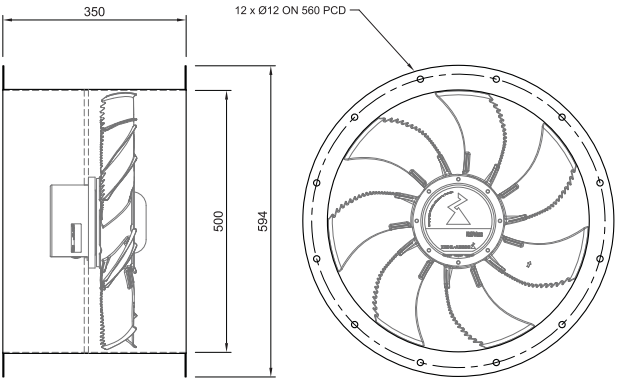
Fan

- Case:** Galvanised Metal
- Weight:** 43 kg
- Max. Temp:** 60 °C

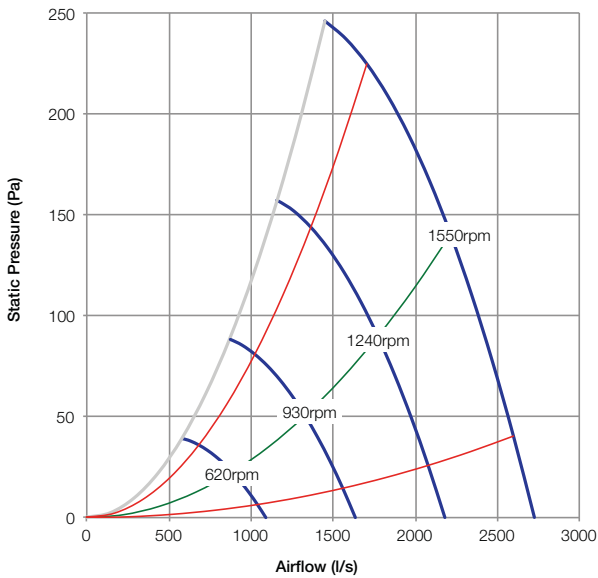
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	252	1.00	1.7
1240	161	0.47	0.86
930	91	0.21	0.51
620	40	0.07	0.28

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
79	77	74	71	74	73	68	62	57
76	74	67	66	70	68	63	56	53
75	68	62	61	64	63	55	48	47
73	60	54	55	56	52	45	34	39

BAX633-EC-L

INLINE AXIAL EC FAN

Impeller

Size: 630 mm
Type: Axial Aerofoil
Material: High Performance Composite Material

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 1.25 kW
Power Supply: 400V/3PH/50Hz
Speed: 1200 RPM
FLC: 2.00 A
Control I/O: 1 x Digital Input D1
 1 x Analogue Input E1
 1 x Status contact output K1
 1 x 10V DC output
 1 x 24V DC output

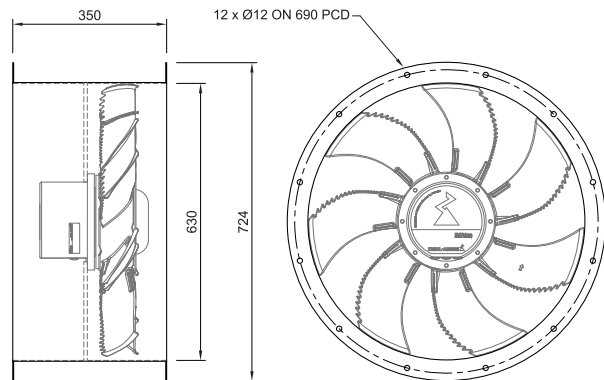
Fan

Case: Galvanised Metal
Weight: 58 kg
Max. Temp: 60 °C

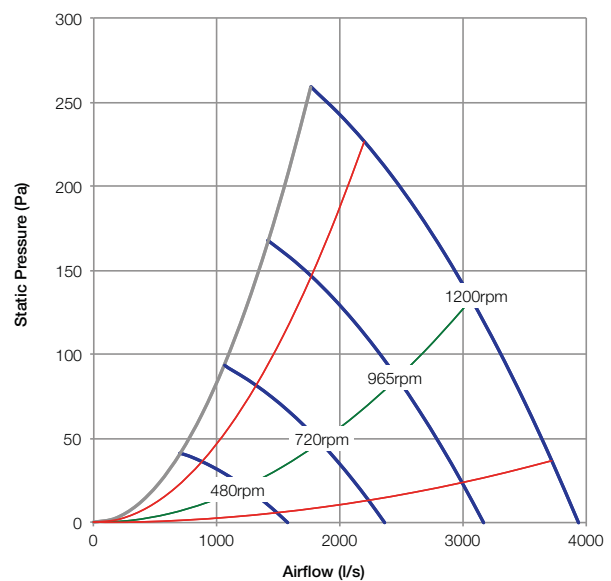
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1200	259	1.25	2
965	167	0.54	0.95
720	93	0.24	0.55
480	41	0.08	0.27

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
76	74	74	67	70	70	65	59	54
71	77	71	63	69	67	59	53	52
74	64	66	59	63	60	52	45	46
76	55	57	53	62	49	40	31	42

BAX633-EC

INLINE AXIAL EC FAN

Impeller

Size: 630 mm
Type: Axial Aerofoil
Material: Aluminium

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 3.70 kW
Power Supply: 400V/3PH/50Hz
Speed: 1600 RPM
FLC: 5.9 A
Control I/O: 1 x Digital Input D1
1 x Analogue Input E1
1 x Status contact output K1
1 x 10V DC output
1 x 24V DC output

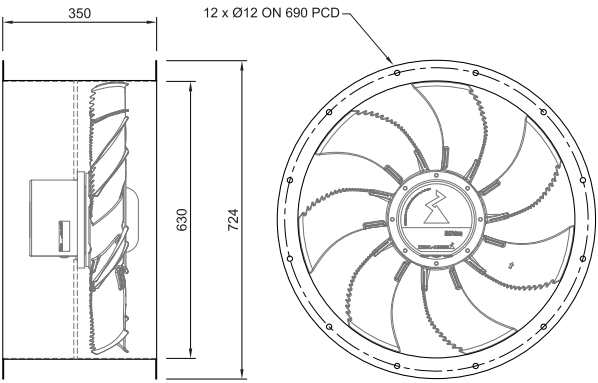
Fan

Case: Galvanised Metal
Weight: 60 kg
Max. Temp: 60 °C

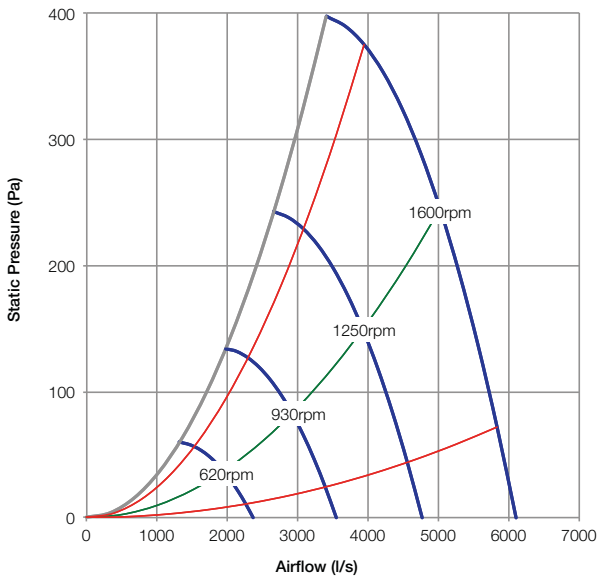
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1600	397	3.70	5.9
1250	242	1.72	2.67
930	134	0.75	1.26
620	60	0.25	0.59

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
79	79	80	80	81	82	78	71	66
76	77	73	74	76	76	70	64	60
79	69	67	67	70	69	62	57	53
77	60	59	60	63	59	51	46	45

BAX803-EC

INLINE AXIAL EC FAN

Impeller

Size: 800 mm
Type: Axial Aerofoil
Material: Aluminium

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 3.10 kW
Power Supply: 400V/3PH/50Hz
Speed: 1105 RPM
FLC: 4.80 A
Control I/O: 1 x Digital Input D1
 1 x Analogue Input E1
 1 x Status contact output K1
 1 x 10V DC output
 1 x 24V DC output

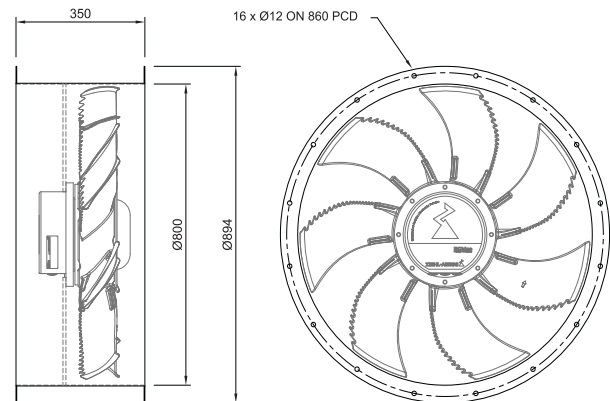
Fan

Case: Galvanised Metal
Weight: 65 kg
Max. Temp: 60 °C

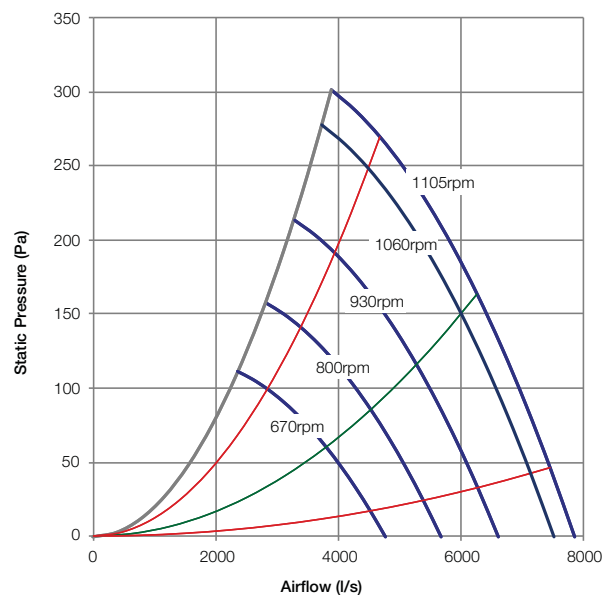
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1105	301	3.10	4.8
1060	277	2.60	3.9
930	214	1.80	2.8
800	158	1.10	1.8
670	111	0.70	1.1

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

Sound Pressure Level dBA at 3m

63	125	250	500	1k	2k	4k	8k	
81	79	75	74	74	72	69	65	58
79	79	75	73	73	71	68	64	57
77	80	72	69	69	68	65	61	54
74	70	69	65	66	64	61	57	50
71	67	66	64	62	60	57	51	46

BAX1003-EC

INLINE AXIAL EC FAN

Impeller

Size: 1000 mm
Type: Axial Aerofoil
Material: Aluminium

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 2.50 kW
Power Supply: 400V/3PH/50Hz
Speed: 850 RPM
FLC: 4.00 A
Control I/O: 1 x Digital Input D1
1 x Analogue Input E1
1 x Status contact output K1
1 x 10V DC output
1 x 24V DC output

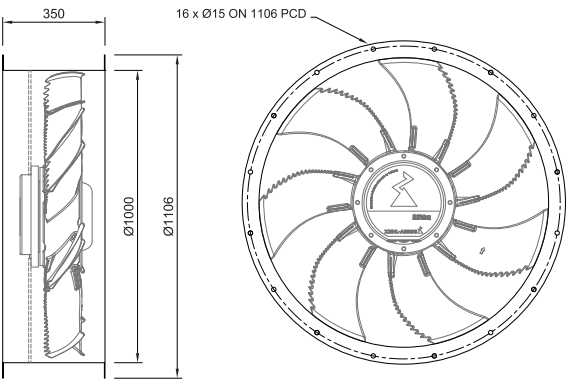
Fan

Case: Galvanised Metal
Weight: 75 kg
Max. Temp: 60 °C

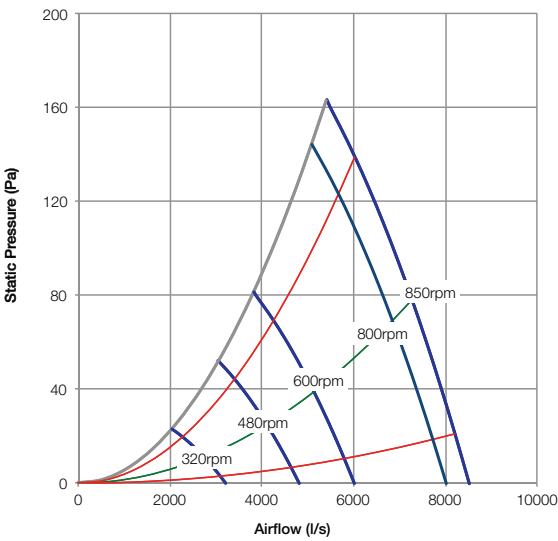
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
850	163	2.50	4
800	144	1.82	2.81
600	81	0.78	1.3
480	52	0.40	0.79
320	23	0.14	0.39

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
87	81	78	74	73	71	66	63	57
86	81	76	74	72	69	65	62	56
75	75	67	64	64	61	57	53	48
75	70	62	59	58	55	51	46	42
67	62	53	49	49	46	41	33	33



electronically commutated
highly efficient
low sound aerofoil impeller

02 / BRA-EC

- Roof mounted axial fan for curb mounting.
- UV stabilized polymer cowling.
- Acoustically optimised axial impeller.
- Integrated electrical protection.
- EC motor interfaced for easy control.
- Correct rotation and airflow direction assured.

BRA301-EC

ROOF EXTRACT AXIAL EC FAN



Impeller

- Size:** 300 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 44
- Power:** 0.15 kW
- Power Supply:** 230V/1PH/50Hz
- Speed:** 1900 RPM
- FLC:** 1.15 A
- Control I/O:**
 - 1 x Analogue Input E1
 - 1 x Status output A1
 - 1 x Operation output A2
 - 1 x 10V DC output

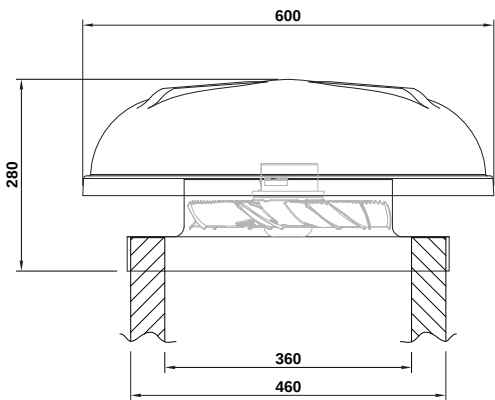
Fan

- Cowl:** Polymer UV Stabilised
- Base:** Galvanised Metal
- Weight:** 11 kg
- Max. Temp:** 60 °C

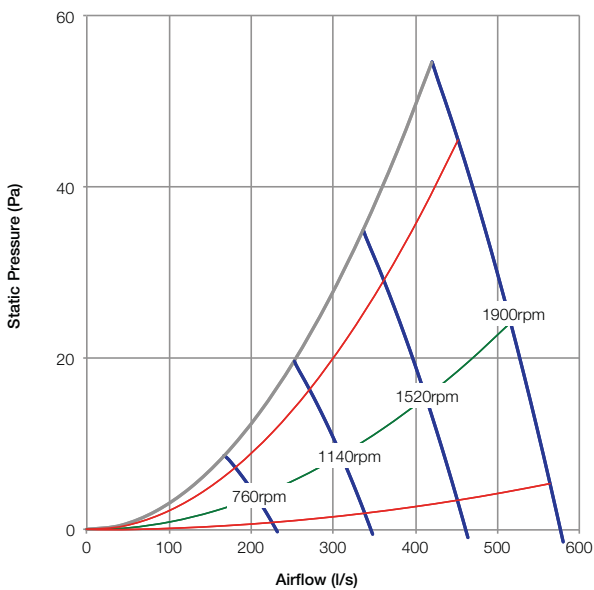
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1900	55	0.15	1.15
1520	35	0.08	0.55
1140	20	0.04	0.28
760	9	0.02	0.15

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
67	65	63	64	64	67	65	57	51
64	63	60	59	60	62	58	49	45
60	56	57	56	54	55	48	40	39
55	47	45	44	46	43	34	32	28

BRA401-EC

ROOF EXTRACT AXIAL EC FAN

Impeller

Size:	400 mm
Type:	Axial Aerofoil
Material:	High Performance Composite Material

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	0.45 kW
Power Supply:	230V/1PH/50Hz
Speed:	1550 RPM
FLC:	2.40 A
Control I/O:	1 x Analogue Input E1 1 x Status output A1 1 x Operation output A2 1 x 10V DC output

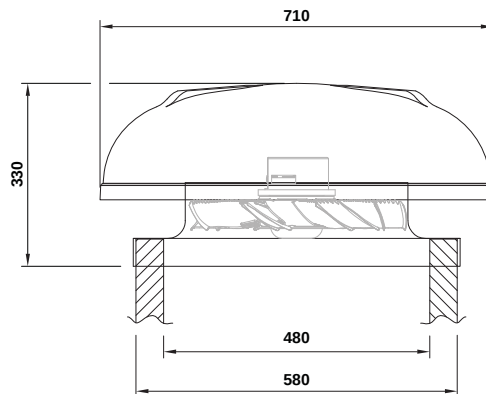
Fan

Cowl:	Polymer UV Stabilised
Base:	Galvanised Metal
Weight:	36 kg
Max. Temp:	50 °C

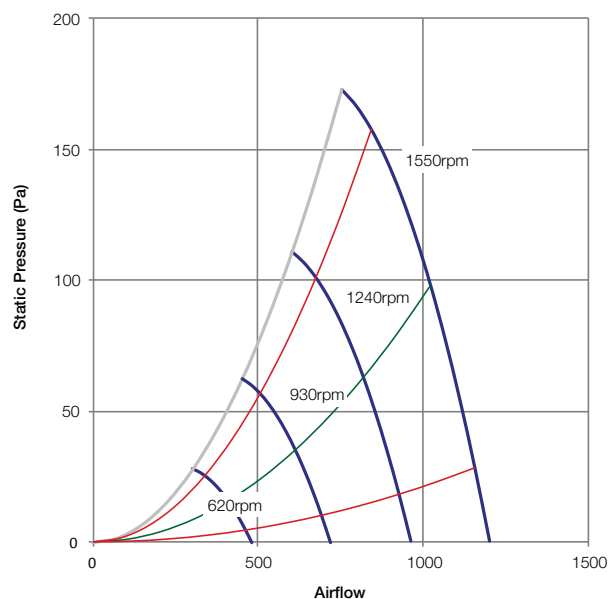
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	173	0.45	2.4
1240	111	0.20	0.96
930	62	0.09	0.49
620	28	0.04	0.23

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
64	66	71	68	66	67	64	57	50
61	68	63	61	62	62	58	51	46
56	65	56	55	56	56	50	41	41
58	52	51	45	47	46	38	28	34

BRA503-EC

ROOF EXTRACT AXIAL EC FAN

Impeller

- Size:** 500 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 54
- Power:** 1.00 kW
- Power Supply:** 400V/3PH/50Hz
- Speed:** 1550 RPM
- FLC:** 1.70 A
- Control I/O:**
 - 1 x Digital Input D1
 - 1 x Analogue Input E1
 - 1 x Status contact output K1
 - 1 x 10V DC output
 - 1 x 24V DC output

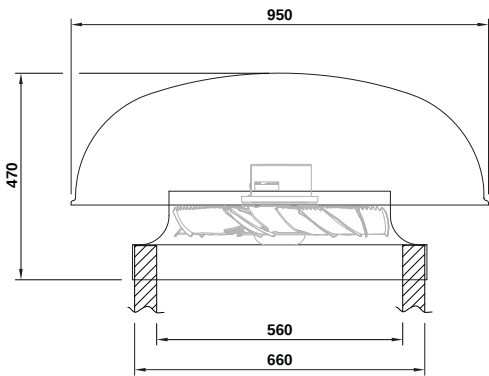
Fan

- Cowl:** Polymer UV Stabilised
- Base:** Galvanised Metal
- Weight:** 46 kg
- Max. Temp:** 60 °C

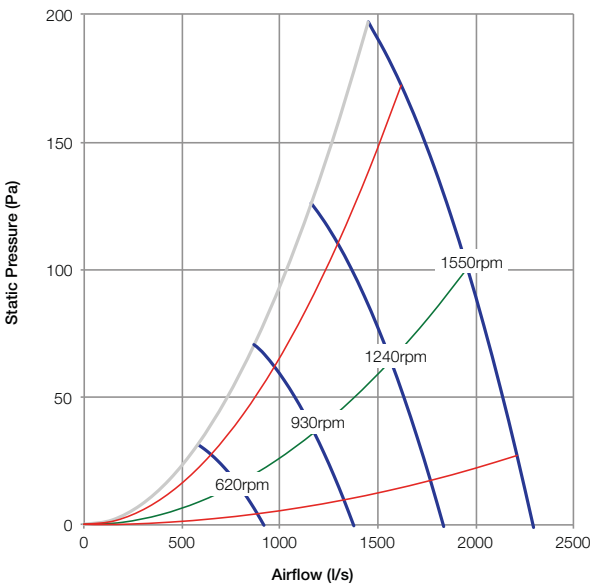
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	197	1.00	1.7
1240	126	0.47	0.86
930	71	0.21	0.51
620	32	0.07	0.28

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
79	77	74	71	74	73	68	62	57
76	74	67	66	70	68	63	56	53
75	68	62	61	64	63	55	48	47
73	60	54	55	56	52	45	34	39

BRA633-EC-L

ROOF EXTRACT AXIAL EC FAN



Impeller

Size:	630 mm
Type:	Axial Aerofoil
Material:	High Performance Composite Material

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	1.25 kW
Power Supply:	400V/3PH/50Hz
Speed:	1200 RPM
FLC:	2.00 A
Control I/O:	1 x Digital Input D1 1 x Analogue Input E1 1 x Status contact output K1 1 x 10V DC output 1 x 24V DC output

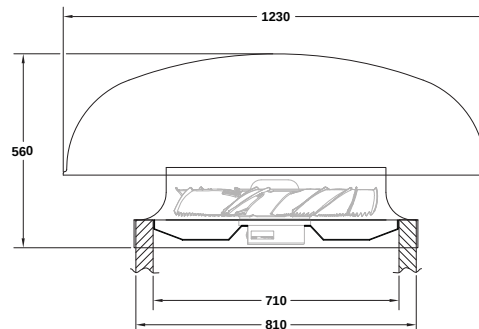
Fan

Cowl:	Polymer UV Stabilised
Base:	Polymer UV Stabilised
Weight:	65 kg
Max. Temp:	60 °C

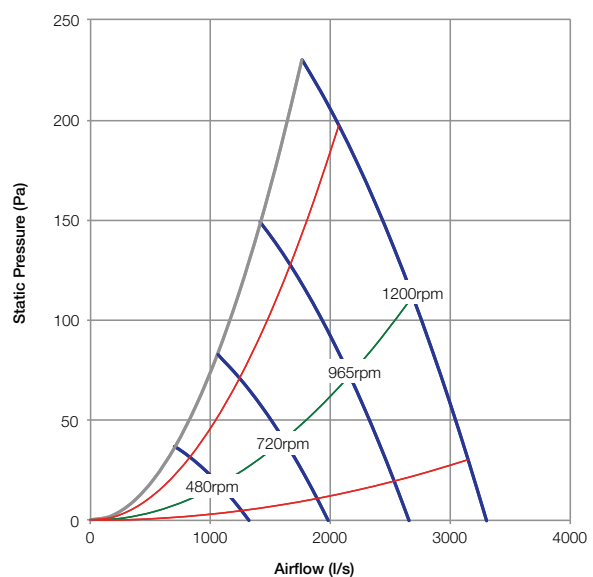
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1200	230	1.25	2
965	149	0.54	0.95
720	83	0.24	0.55
480	37	0.08	0.27

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
76	74	74	67	70	70	65	59	54
71	77	71	63	69	67	59	53	52
74	64	66	59	63	60	52	45	46
76	55	57	53	62	49	40	31	42

BRA803-EC

ROOF EXTRACT AXIAL EC FAN



Impeller

Size: 800 mm
Type: Axial Aerofoil
Material: Aluminium

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 3.10 kW
Power Supply: 400V/3PH/50Hz
Speed: 1105 RPM
FLC: 4.80 A
Control I/O: 1 x Digital Input D1
 1 x Analogue Input E1
 1 x Status contact output K1
 1 x 10V DC output
 1 x 24V DC output

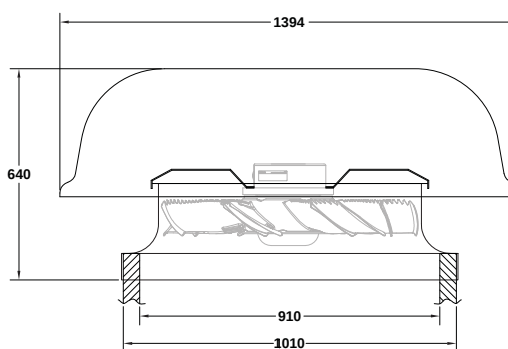
Fan

Cowl: Polymer UV Stabilised
Base: Galvanised Metal
Weight: 75 kg
Max. Temp: 60 °C

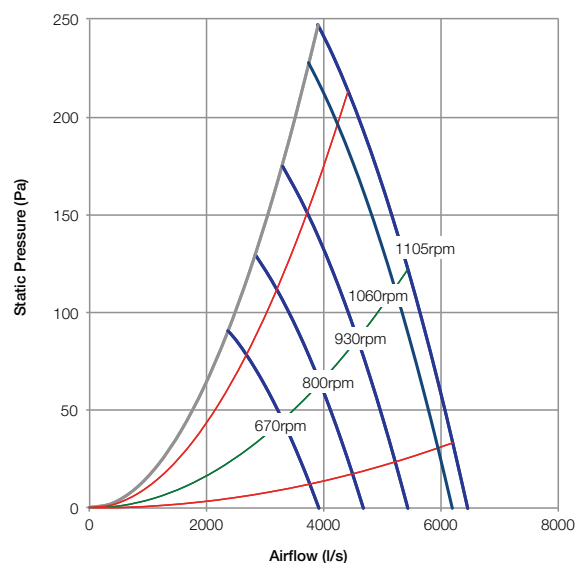
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1105	247	3.10	4.8
1060	227	2.60	3.9
930	175	1.80	2.8
800	130	1.10	1.8
670	91	0.70	1.1

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

63	125	250	500	1k	2k	4k	8k	
81	79	75	74	74	72	69	65	58
79	79	75	73	73	71	68	64	57
77	80	72	69	69	68	65	61	54
74	70	69	65	66	64	61	57	50
71	67	66	64	62	60	57	51	46

Sound Pressure Level dBA at 3m



electronically commutated
highly efficient
low sound aerofoil impeller

03 / BRA-S-EC

- Roof mounted axial fan for curb mounting.
- UV stabilized polymer cowling.
- Acoustically optimised axial impeller.
- Integrated electrical protection.
- EC motor interfaced for easy control.
- Correct rotation and airflow direction assured.

BRA301S-EC

ROOF SUPPLY AXIAL EC FAN

Impeller

- Size:** 300 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 44
- Power:** 0.15 kW
- Power Supply:** 230V/1PH/50Hz
- Speed:** 1900 RPM
- FLC:** 1.15 A
- Control I/O:**
 - 1 x Analogue Input E1
 - 1 x Status output A1
 - 1 x Operation output A2
 - 1 x 10V DC output

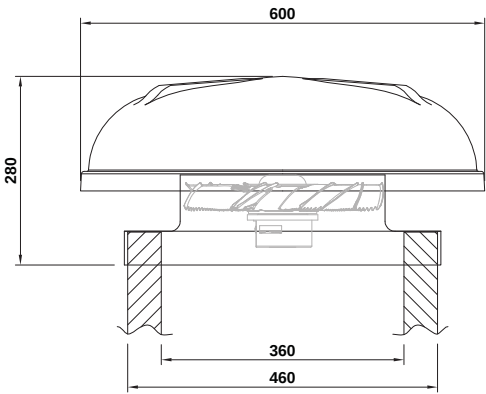
Fan

- Cowl:** Polymer UV Stabilised
- Base:** Galvanised Metal
- Weight:** 11 kg
- Max. Temp:** 60 °C

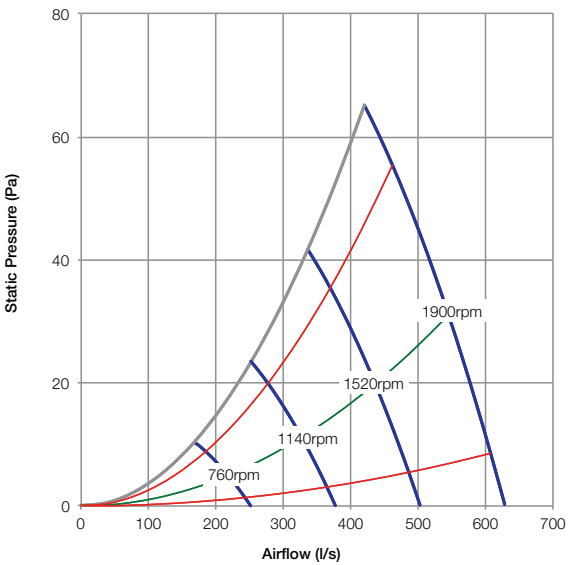
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1900	65	0.15	1.15
1520	42	0.08	0.55
1140	23	0.04	0.28
760	10	0.02	0.15

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
67	65	63	64	64	67	65	57	51
64	63	60	59	60	62	58	49	45
60	56	57	56	54	55	48	40	39
55	47	45	44	46	43	34	32	28

BRA401S-EC

ROOF SUPPLY AXIAL EC FAN

Impeller

Size:	400 mm
Type:	Axial Arefoil
Material:	High Performance Composite Material

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	0.45 Kw
Power Supply:	230V/1PH/50Hz
Speed:	1550 RPM
FLC:	2.40 A
Control I/O:	1 x Analogue Input E1 1 x Status output A1 1 x Operation output A2 1 x 10V DC output

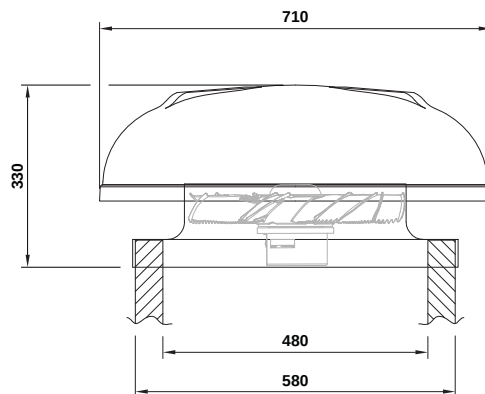
Fan

Cowl	Polymer UV Stabilised
Base	Galvanised Metal
Weight	36 Kg
Max. Temp:	50 °C

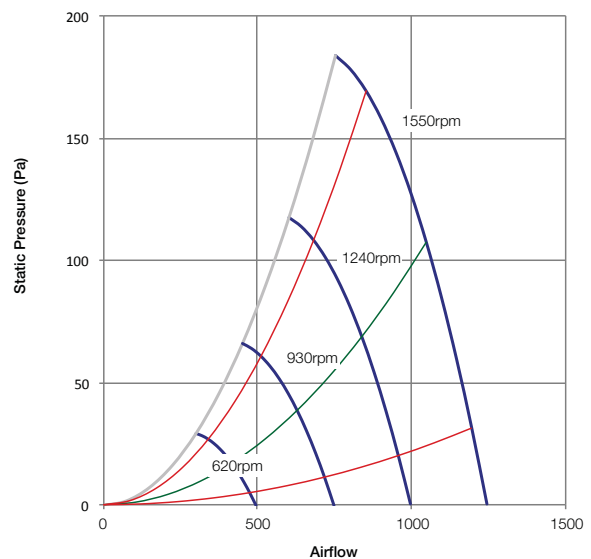
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	184	0.45	2.4
1240	118	0.20	0.96
930	66	0.09	0.49
620	29	0.04	0.23

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

Sound Pressure Level dBA at 3m

63	125	250	500	1k	2k	4k	8k	
64	66	71	68	66	67	64	57	50
61	68	63	61	62	62	58	51	46
56	65	56	55	56	56	50	41	41
58	52	51	45	47	46	38	28	34

BRA503S-EC

ROOF SUPPLY AXIAL EC FAN

Impeller

- Size:** 500 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 54
- Power:** 1.00 kW
- Power Supply:** 400V/3PH/50Hz
- Speed:** 1550 RPM
- FLC:** 1.70 A
- Control I/O:**
 - 1 x Digital Input D1
 - 1 x Analogue Input E1
 - 1 x Status contact output K1
 - 1 x 10V DC output
 - 1 x 24V DC output

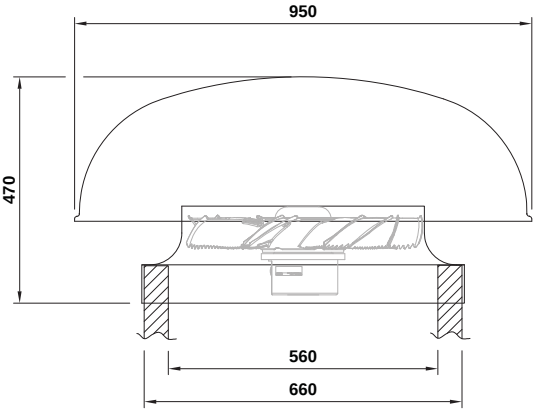
Fan

- Cowl** Polymer UV Stabilised
- Base** Galvanised Metal
- Weight** 55 kg
- Max. Temp:** 60 °C

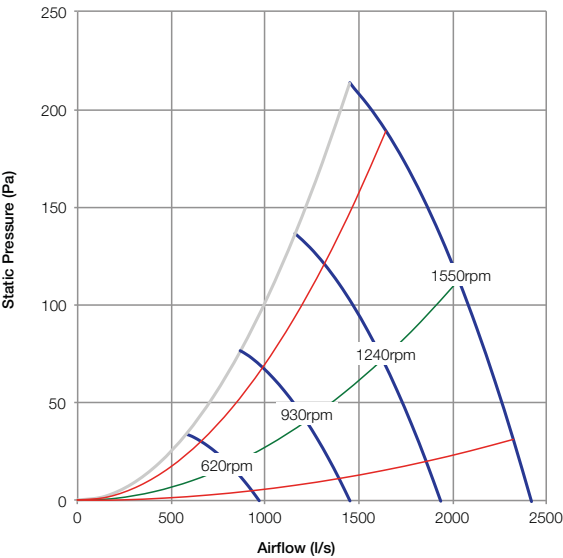
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	213	1.00	1.7
1240	137	0.47	0.86
930	77	0.21	0.51
620	34	0.07	0.28

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
79	77	74	71	74	73	68	62	57
76	74	67	66	70	68	63	56	53
75	68	62	61	64	63	55	48	47
73	60	54	55	56	52	45	34	39

BRA633S-EC-L

ROOF SUPPLY AXIAL EC FAN



Impeller

Size:	630 mm
Type:	Axial Aerofoil
Material:	High Performance Composite Material

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	1.25 kW
Power Supply:	400V/3PH/50Hz
Speed:	1200 RPM
FLC:	2.00 A
Control I/O:	1 x Digital Input D1 1 x Analogue Input E1 1 x Status contact output K1 1 x 10V DC output 1 x 24V DC output

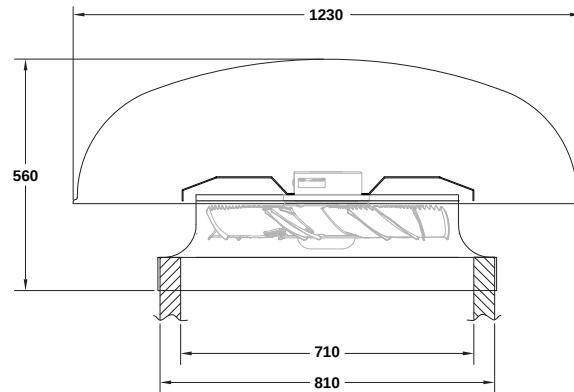
Fan

Cowl	Polymer UV Stabilised
Base	Galvanised Metal
Weight	65 kg
Max. Temp:	60 °C

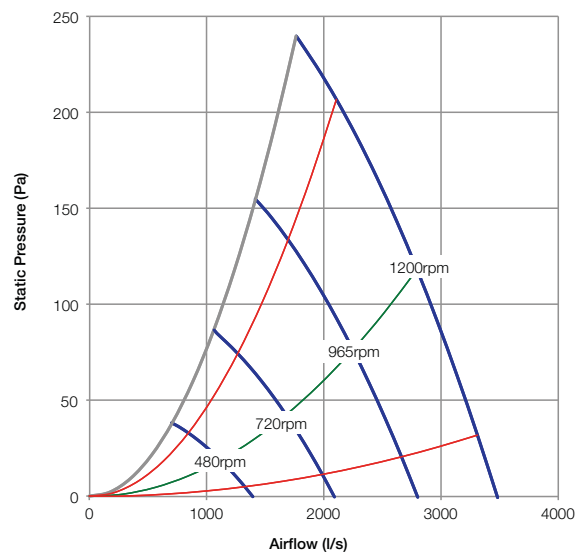
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1200	240	1.25	2
965	155	0.54	0.95
720	86	0.24	0.55
480	38	0.08	0.27

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

Sound Pressure Level dBA at 3m

63	125	250	500	1k	2k	4k	8k	
76	74	74	67	70	70	65	59	54
71	77	71	63	69	67	59	53	52
74	64	66	59	63	60	52	45	46
76	55	57	53	62	49	40	31	42

BRA803S-EC

ROOF SUPPLY AXIAL EC FAN

Impeller

Size:	800 mm
Type:	Axial Aerofoil
Material:	Aluminium

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	3.10 kW
Power Supply:	400V/3PH/50Hz
Speed:	1105 RPM
FLC:	4.80 A
Control I/O:	1 x Digital Input D1 1 x Analogue Input E1 1 x Status contact output K1 1 x 10V DC output 1 x 24V DC output

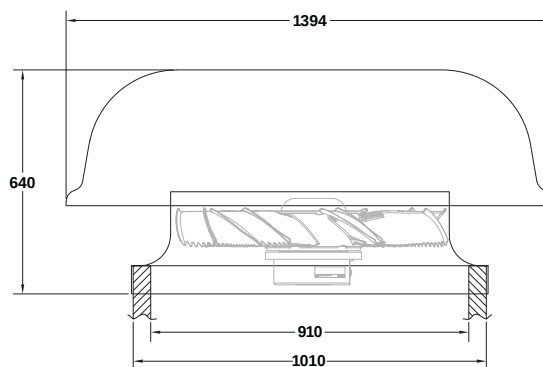
Fan

Cowl	Polymer UV Stabilised
Base	Galvanised Metal
Weight	75 kg
Max. Temp:	60 °C

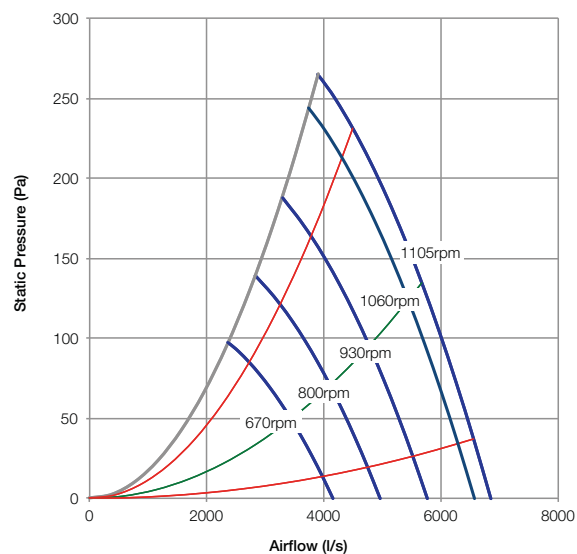
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1105	265	3.10	4.8
1060	244	2.60	3.9
930	188	1.80	2.8
800	139	1.10	1.8
670	98	0.70	1.1

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

Sound Pressure Level dBA at 3m

63	125	250	500	1k	2k	4k	8k	
81	79	75	74	74	72	69	65	58
79	79	75	73	73	71	68	64	57
77	80	72	69	69	68	65	61	54
74	70	69	65	66	64	61	57	50
71	67	66	64	62	60	57	51	46



electronically commutated
highly efficient
low sound aerofoil impeller

04 / BAP-EC

- Plate mounted axial flow fan.
- Acoustically optimised axial impeller.
- Integrated electrical protection.
- EC motor interfaced for easy control.
- Correct rotation and airflow direction assured.

BAP301-EC

PLATE AXIAL EC FAN

Impeller

- Size:** 300 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 44
- Power:** 0.15 kW
- Power Supply:** 230V/1PH/50Hz
- Speed:** 1900 RPM
- FLC:** 1.15 A
- Control I/O:**
 - 1 x Analogue Input E1
 - 1 x Status output A1
 - 1 x Operation output A2
 - 1 x 10V DC output

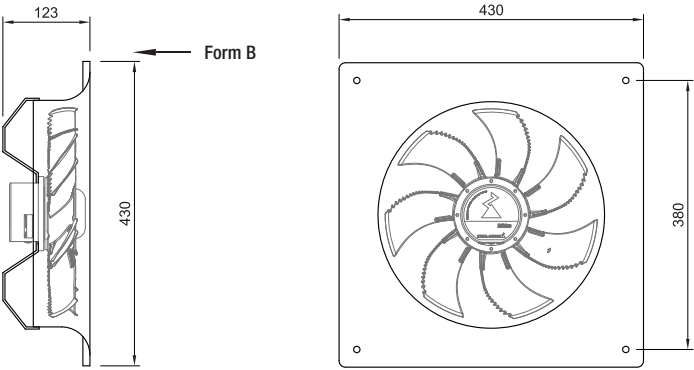
Fan

- Plate** Powder Coated Steel
- Weight** 12 kg
- Max. Temp:** 60 °C

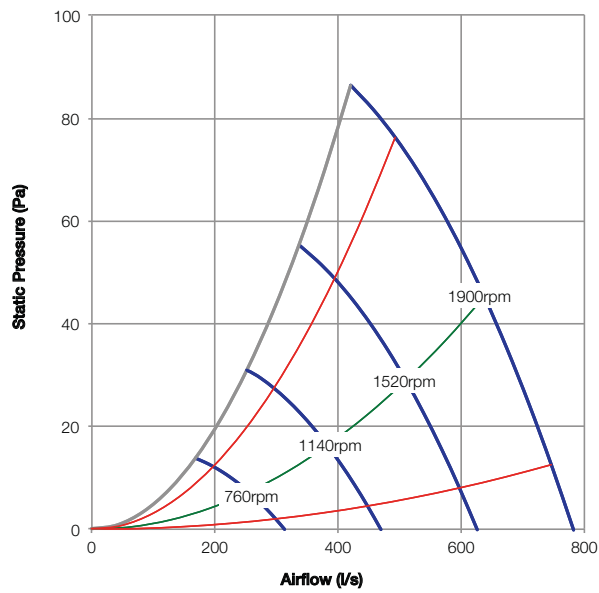
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1900	86	0.15	1.15
1520	55	0.077	0.55
1140	31	0.036	0.28
760	14	0.015	0.15

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
67	65	63	64	64	67	65	57	50
64	63	60	59	60	62	58	49	46
60	56	57	56	54	55	48	40	41
55	47	45	44	46	43	34	32	34

BAP401-EC

PLATE AXIAL EC FAN

Impeller

Size: 400 mm
Type: Axial Aerofoil
Material: High Performance Composite Material

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 0.45 kW
Power Supply: 230V/1PH/50Hz
Speed: 1805 RPM
FLC: 2.40 A
Control I/O: 1 x Analogue Input E1
 1 x Status output A1
 1 x Operation output A2
 1 x 10V DC output

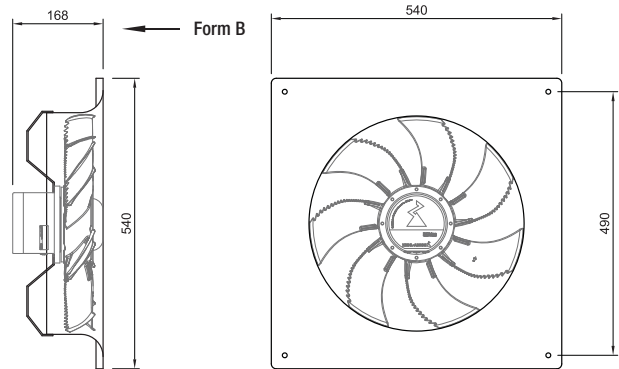
Fan

Plate Powder Coated Steel
Weight 27 kg
Max. Temp: 60 °C

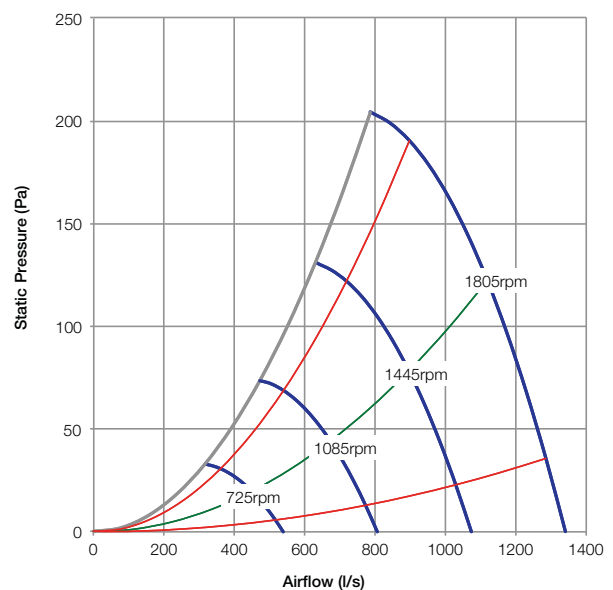
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1805	204	0.45	2.4
1445	131	0.20	0.96
1085	74	0.09	0.49
725	33	0.04	0.23

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
64	66	71	68	66	67	64	57	50
61	68	63	61	62	62	58	51	46
56	65	56	55	56	56	50	41	41
58	52	51	45	47	46	38	28	34

BAP503-EC

PLATE AXIAL EC FAN

Impeller

Size:	500 mm
Type:	Axial Aerofoil
Material:	High Performance Composite Material

Motor

Type:	High Efficiency EC
IP Rating:	54
Power:	1.00 kW
Power Supply:	400V/3PH/50Hz
Speed:	1550 RPM
FLC:	1.70 A
Control I/O:	1 x Digital Input D1 1 x Analogue Input E1 1 x Status contact output K1 1 x 10V DC output 1 x 24V DC output

Fan

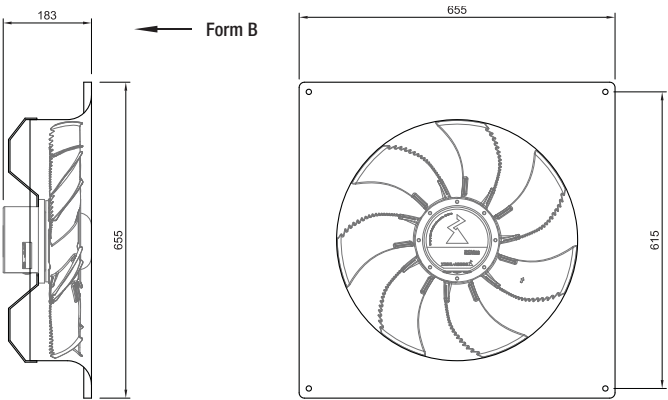
Plate	Powder Coated Steel
Weight	43 kg
Max. Temp:	60 °C

Nominal Data

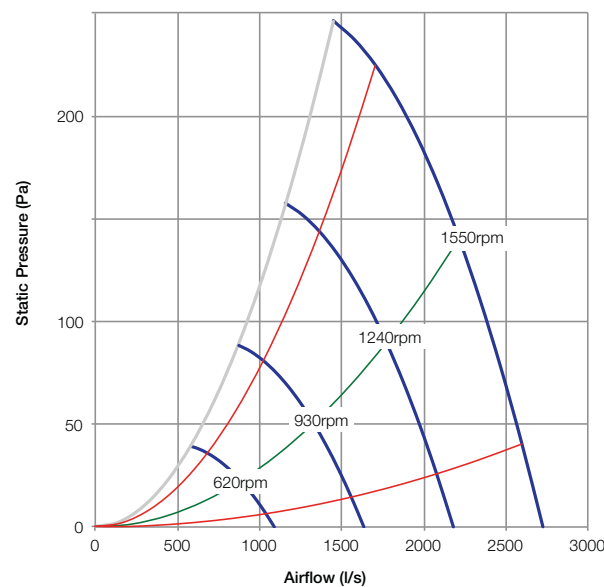
Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1550	246	1.00	1.7
1240	158	0.47	0.86
930	89	0.21	0.51
620	39	0.07	0.28



Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
79	77	74	71	74	73	68	62	57
76	74	67	66	70	68	63	56	53
75	68	62	61	64	63	55	48	47
73	60	54	55	56	52	45	34	39

Fan Performance

BAP633-EC-L

PLATE AXIAL EC FAN

Impeller

- Size:** 630 mm
- Type:** Axial Aerofoil
- Material:** High Performance Composite Material

Motor

- Type:** High Efficiency EC
- IP Rating:** 54
- Power:** 1.25 kW
- Power Supply:** 400V/3PH/50Hz
- Speed:** 1200 RPM
- FLC:** 2.00 A
- Control I/O:**
 - 1 x Digital Input D1
 - 1 x Analogue Input E1
 - 1 x Status contact output K1
 - 1 x 10V DC output
 - 1 x 24V DC output

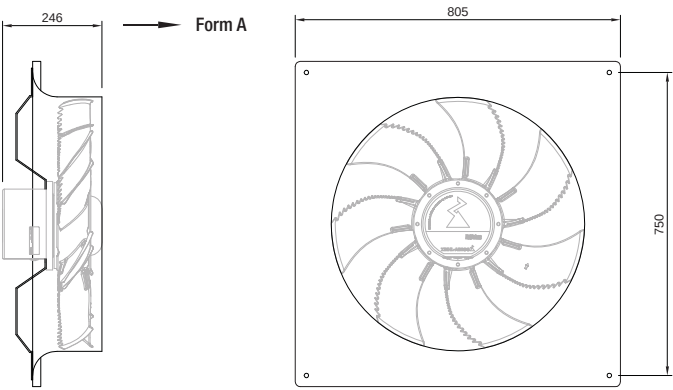
Fan

- Plate** Powder Coated Steel
- Weight** 58 kg
- Max. Temp:** 60 °C

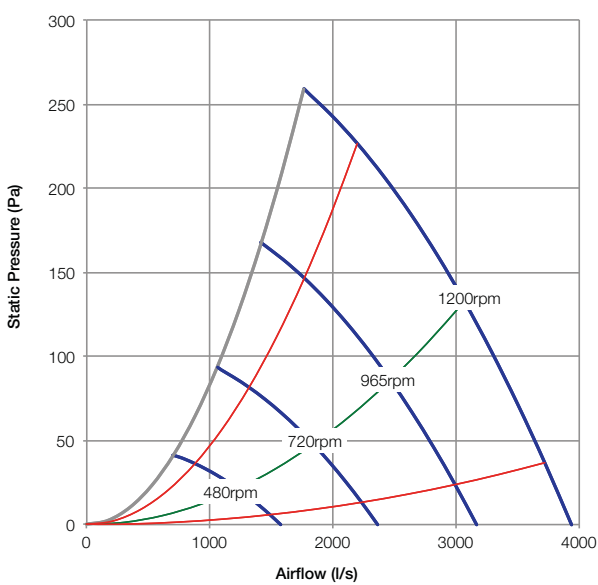
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1200	259	1.25	2
965	167	0.54	0.95
720	93	0.24	0.55
480	41	0.08	0.27

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw								Sound Pressure Level dBA at 3m
63	125	250	500	1k	2k	4k	8k	
76	74	74	67	70	70	65	59	54
71	77	71	63	69	67	59	53	52
74	64	66	59	63	60	52	45	46
76	55	57	53	62	49	40	31	42

BAP803-EC

PLATE AXIAL EC FAN

Impeller

Size: 800 mm
Type: Axial Aerofoil
Material: Aluminium

Motor

Type: High Efficiency EC
IP Rating: 54
Power: 3.10 kW
Power Supply: 400V/3PH/50Hz
Speed: 1105 RPM
FLC: 4.80 A
Control I/O: 1 x Digital Input D1
 1 x Analogue Input E1
 1 x Status contact output K1
 1 x 10V DC output
 1 x 24V DC output

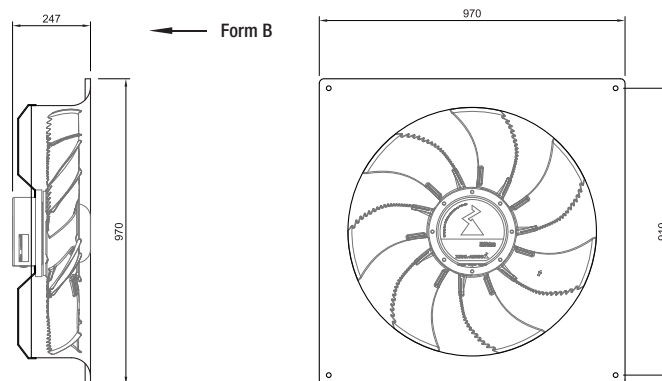
Fan

Plate Powder Coated Steel
Weight 65 kg
Max. Temp: 60 °C

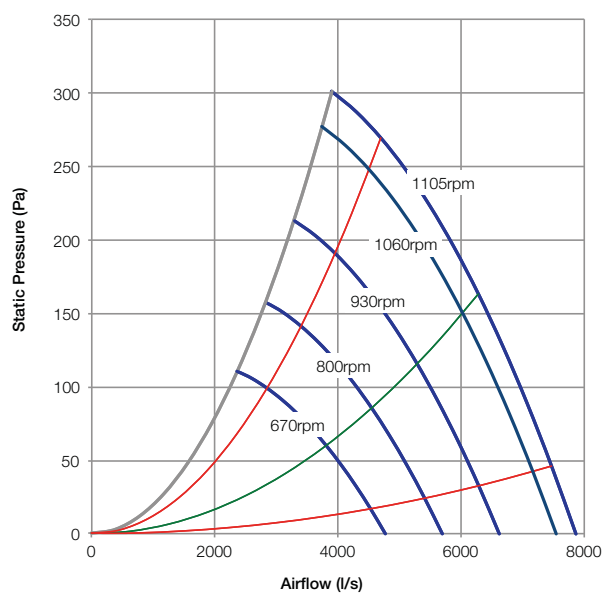
Nominal Data

Speed (RPM)	Peak Pressure (Pa)	Running Power (kW)	Motor Running Current (A)
1105	301	3.10	4.8
1060	277	2.60	3.9
930	214	1.80	2.8
800	158	1.10	1.8
670	111	0.70	1.1

Dimensions



Fan Performance



Sound Power Level SWL dB re 1pw

63	125	250	500	1k	2k	4k	8k	
81	79	75	74	74	72	69	65	58
79	79	75	73	73	71	68	64	57
77	80	72	69	69	68	65	61	54
74	70	69	65	66	64	61	57	50
71	67	66	64	62	60	57	51	46

Sound Pressure Level dBA at 3m



air conditioning

refrigeration

clean room technology

05 / CONTROL MODULES

- Intelligent control modules.
- Simple installation.
- Easy commissioning.
- Modbus network compatibility.
- Extensive sensor range.

MPR300

DIFFERENTIAL PRESSURE SWITCH

High-precision differential pressure switch for monitoring differential pressure and negative pressure of gaseous, non-corrosive media in air ducts, air intakes or extraction equipment.

The desired switching point (changeover contact as NO or NC contact) is set by means of the rotary switch (scale 0,2 to 3 mbar).



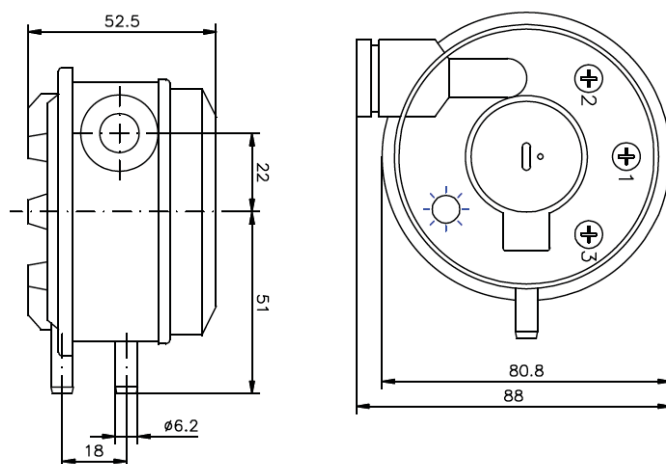
Examples of applications

- Pressure control for central extraction systems and variable air volume systems (VVS) .
- Flow monitoring for warm-air heaters.
- Frost protection for heat exchangers.
- Vee-belt and filter monitoring.
- Controlling and monitoring gas boilers and OEM applications.

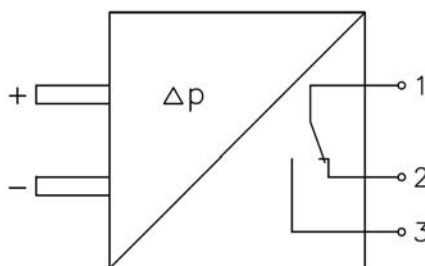
Features / Benefits

- Measurement range: 20-300 Pa.
- Housing protection IP 54.
- Switch over contact load: 250 VAC, 5A.
- Ideal installation position: vertical.
- Pressure port " + / - " for $\varnothing$ 6.2 mm tubing.
- Max. ambient temperature -30 to +75 °C.
- Permissible storage temperature -40 to +85 °C.
- Pressure connection:
P1 for higher pressure.
P2 for lower pressure.
- Connection nozzles: 6,2 mm, adapter 1/8".
- Membrane silicon LSR.

Dimensions



Connection / Wiring



AM-Modbus-W

COMMUNICATION MODULE FOR EC FANS

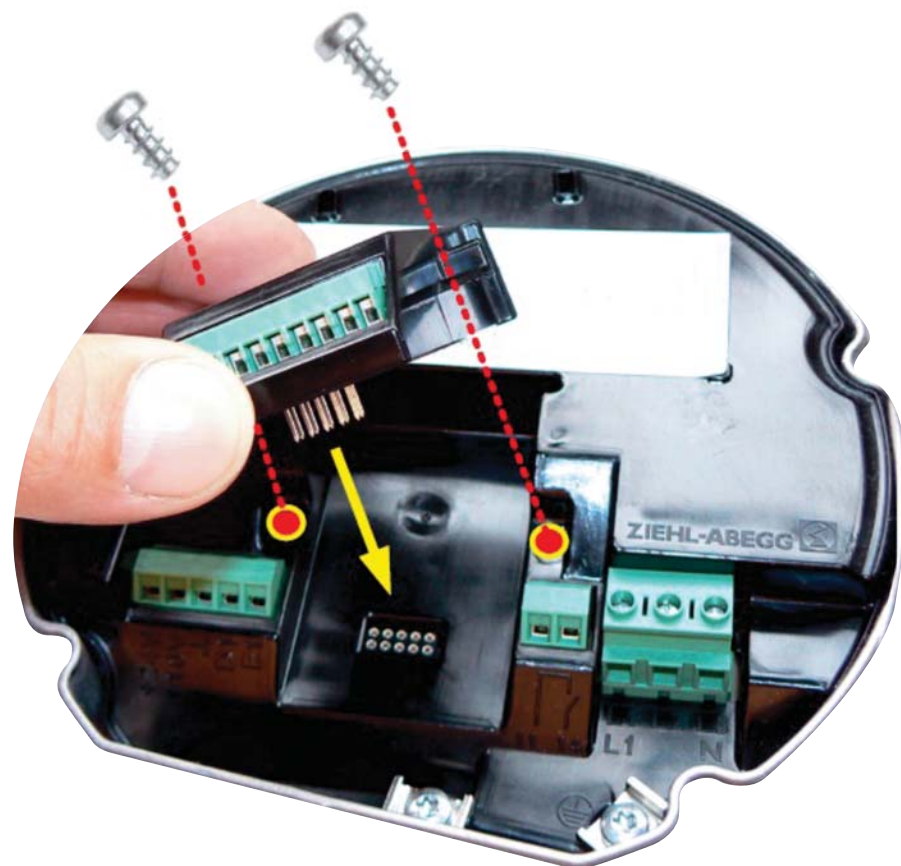
Features / Benefits

Adding the "AM-Modbus" module to a basic fan delivers the following functions:

1. The module can be put in temporarily for programming of desired functions during start-up or for diagnosis.
2. A MODBUS network of several ECblue fans can be built up or the fans can be integrated into existing MODBUS-RTU networks.
3. Programming can be achieved over a radio link using the hand held AG-247NW.

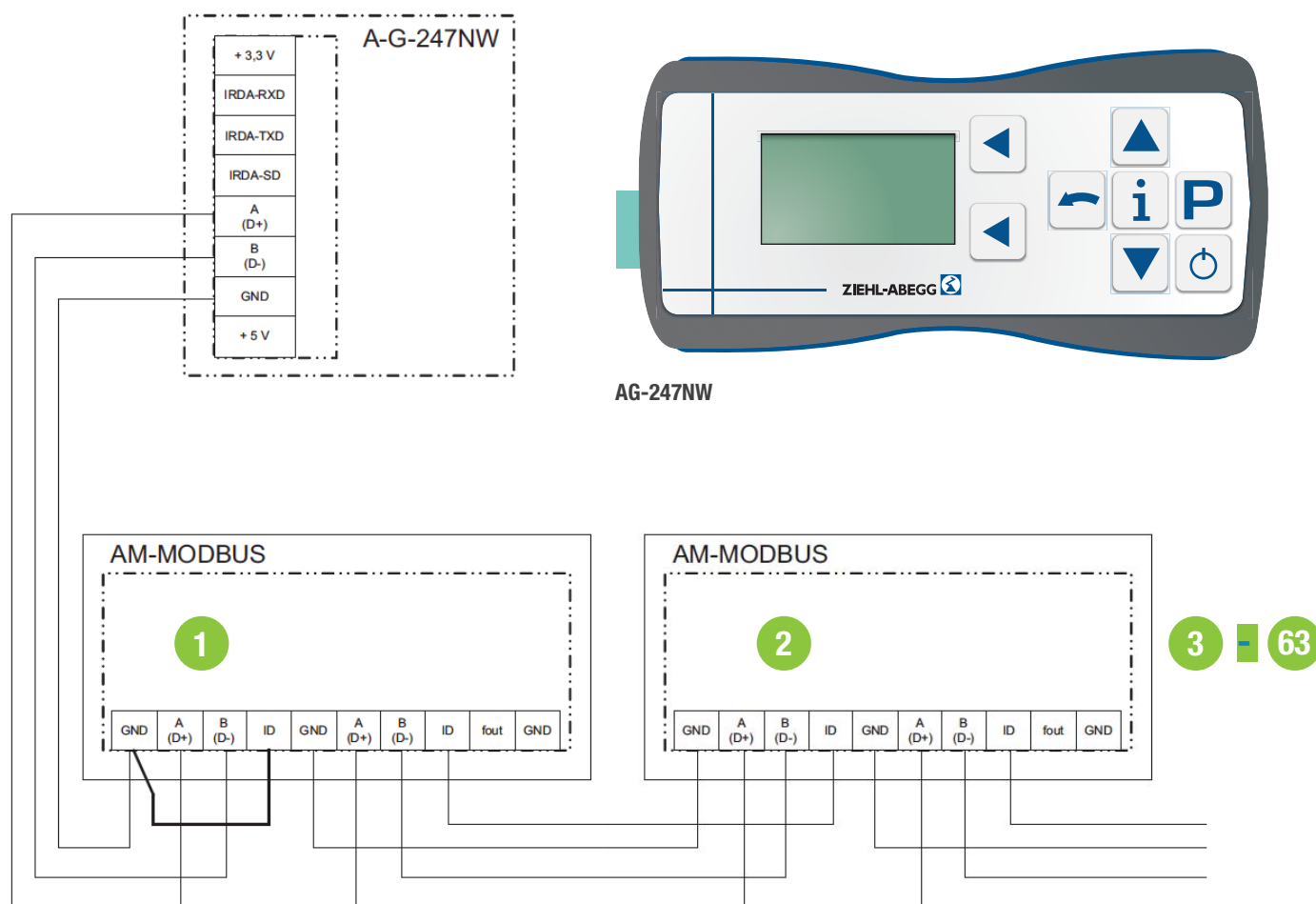
Installing / Guide

Plug in to EC Fans.



Connection / Wiring

Connection example for MODBUS device with automatic addressing.



Note:

- Available connections: 1-63.

AM-Premium-W

CONTROL MODULE FOR EC FANS

Features / Benefits

Adding the "AM-Premium-W" module to a basic fan delivers the following functions:

1. AM-premium is a plug in module for an EC fan to extend I/O interface and set up a desired operation.
2. It enables sensors to be connected directly to the EC fan.
3. It provides MODBUS interface allowing integration into existing MODBUS-RTU networks.
4. Programming can be achieved over a radio link using the hand held AG-247NW.

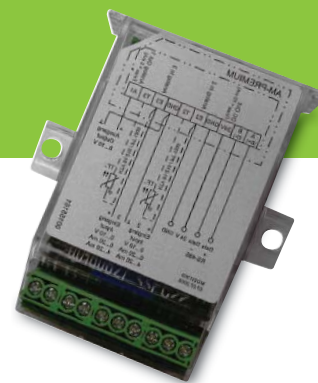
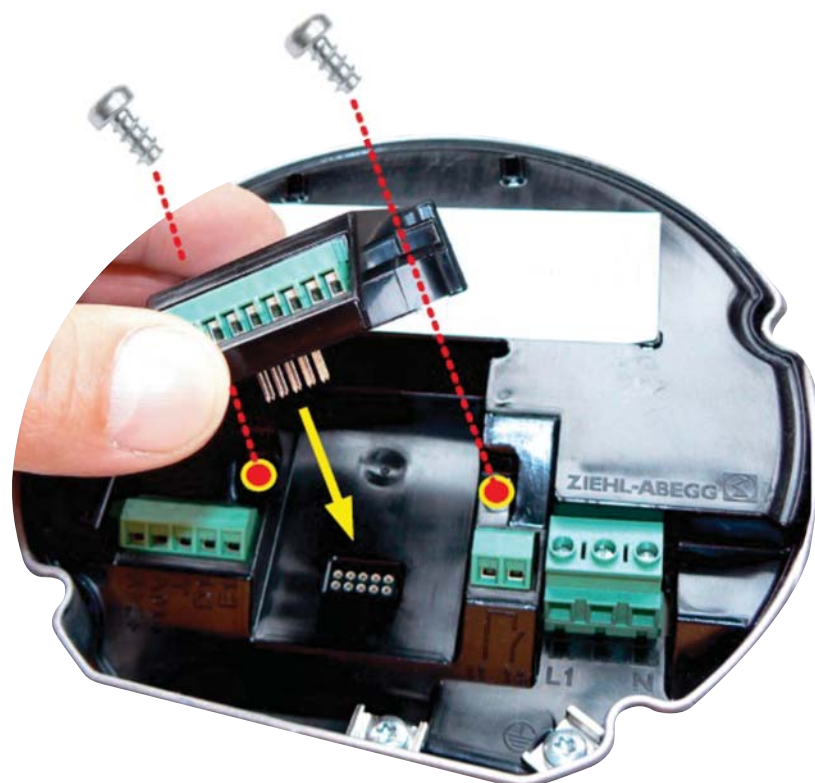
I/O

With AM-Premium module the following I/O can be used:

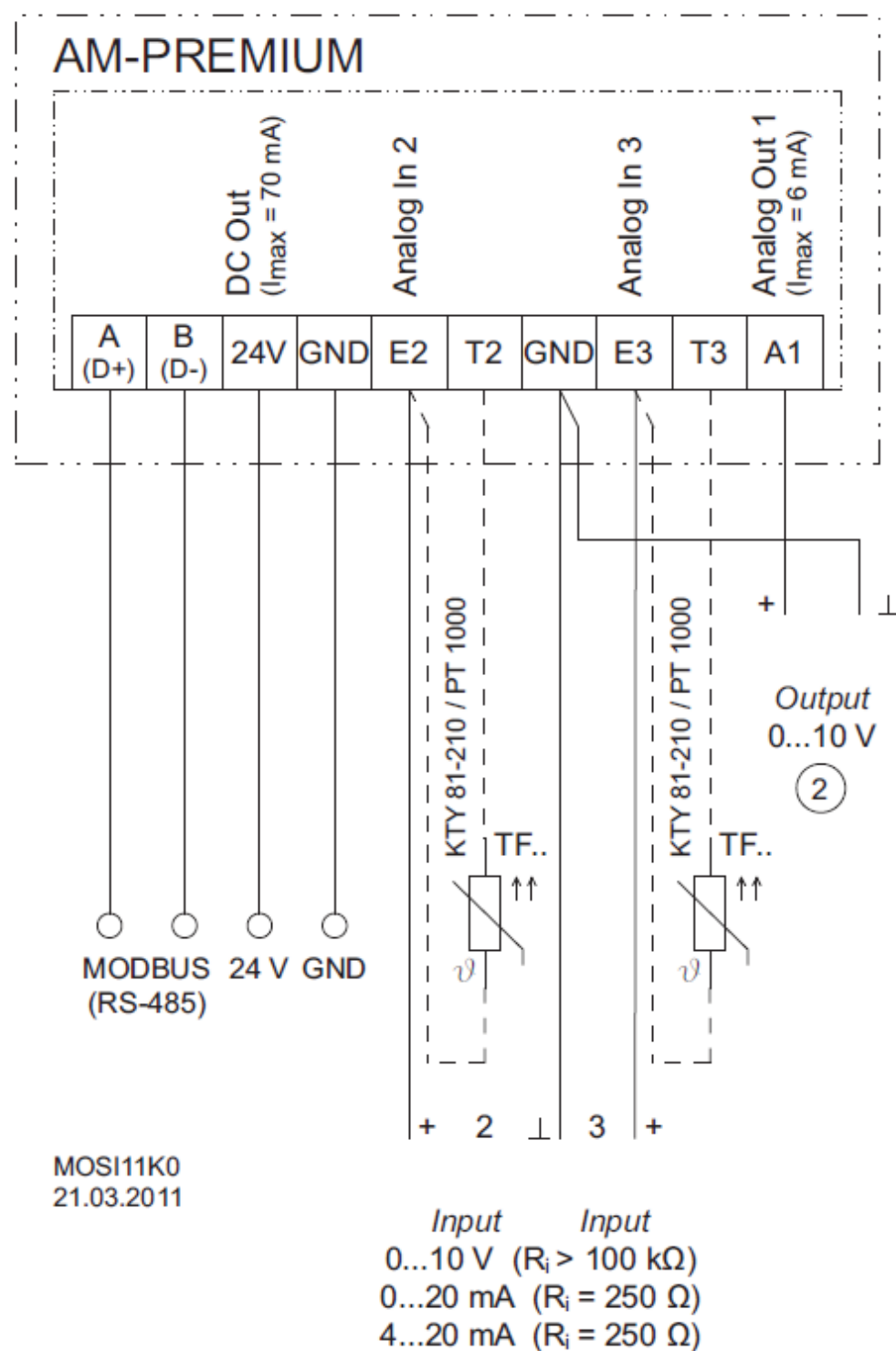
- | | |
|-------------------------|-------------------------|
| 1. 2 x Digital input. | 5. 1 x 24VDC output. |
| 2. 2 x Analogue Input. | 6. 1 x 10VDC output. |
| 3. 2 x Sensors input. | 7. 1 x Relay output. |
| 4. 1 x Analogue output. | 8. 1 x MODBUS (RS-485). |

Installing / Guide

Plug in to EC Fans.



Connection / Wiring



TEMPERATURE SENSORS

PASSIVE TEMPERATURE SENSORS

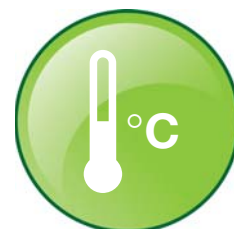
Available versions

Contact, room, immersion, living space, and duct sensors for registration of the temperature value and for control of fans by means of a Ziehl-Abegg control units.

The silicon PTC element changes its resistance depending on the ambient temperature.

$$R_{25^{\circ}\text{C}} = 2.0 \text{ k } \Omega \text{ (KTY81-210)}.$$

TF temperature sensors are passive sensors; they do not need any voltage supply.



TFR 00089846
Room sensors



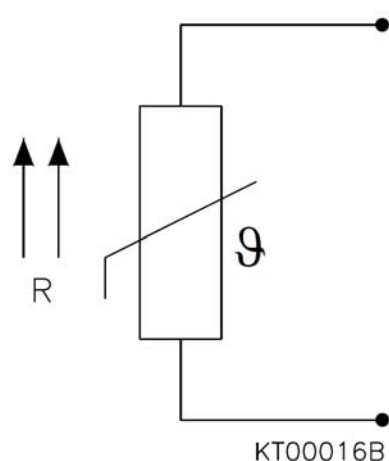
TFT 00154797
Immersion sensors



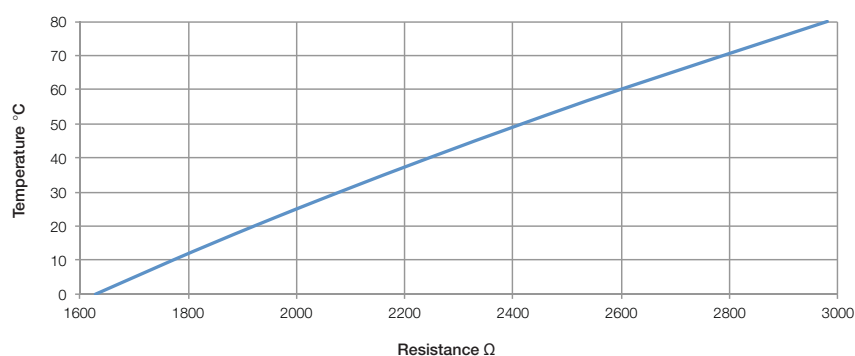
TFA 00153407
Contact sensors

Type	Art No.	Protection Class	Details
TFR	00089846	IP 54	Housing dimensions W x H x D: 75 x 75 x 37mm
TFR-E	00153406	-	Sensor element from TFR
TFT	00154797	IP 43	Ø 7 x 50mm Cable 1.9m
TFT (XL)	384027	IP 43	Ø 7 x 50mm Cable 4m
TFA	00153407	IP 67	Ø 7 x 50mm Cable 2m
TFW	00154798	IP 20	Housing dimensions W x H x D: 84 x 84 x 22mm
TFK	384022	IP 65	Housing dimensions W x H x D: 84 x 84 x 22mm Sensing element Ø 7 x 135mm

Connection / Wiring



Temperature vs Resistance Graph



DSG

DIFFERENTIAL PRESSURE SENSOR

For non-aggressive, gaseous mediums (air conditioning). For detection of the air pressure in air ducts (differential air pressure). Depending on the detected value, the speed of Ziehl-Abegg fans is controlled by means of a Ziehl-Abegg control unit. Dependent on the control unit, the air pressure or air volume flow can be regulated.

The differential pressure sensor is supplied with 24V from a Ziehl-Abegg control unit. Through the output of a 0-10V signal, the measured value is transmitted to the Ziehl-Abegg control unit. The DSG / MPG are active sensors.

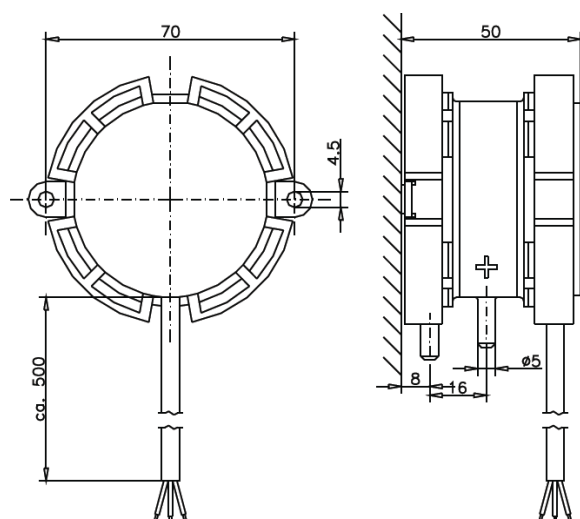


Features / Benefits

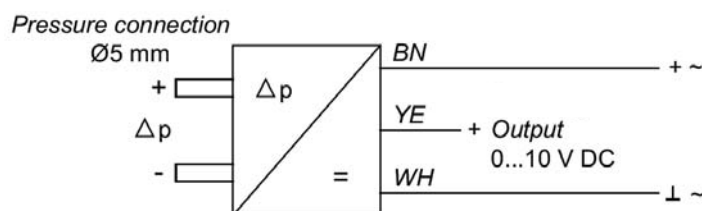
- Protection class IP 65.
- Connection sockets (" + / - ") Ø 5mm.
- 0.5m connection cable.
- Ideal installation position: vertical.

Type	Art No.	Protection Class	Details
DSG50	00155595	0 – 50	Versions with integrated digital display or versions with test certificate on request
DSG200	00150229	0 – 200	
DSG500	00150230	0 – 500	
DSG1000	00150231	0 – 1000	
DSG2000	00150684	0 – 2000	
DSG4000	00150685	0 – 4000	
DSG6000	00150694	0 – 6000	

Dimensions



Connection / Wiring



Voltage supply
15-30 V DC
24V AC 15 %

MAL

AIR VELOCITY SENSORS



For non-aggressive, gaseous media (air conditioning / clean room technology).

Depending on the detected air velocity, the speed of Ziehl-Abegg fans is controlled by means of a Ziehl-Abegg control unit.

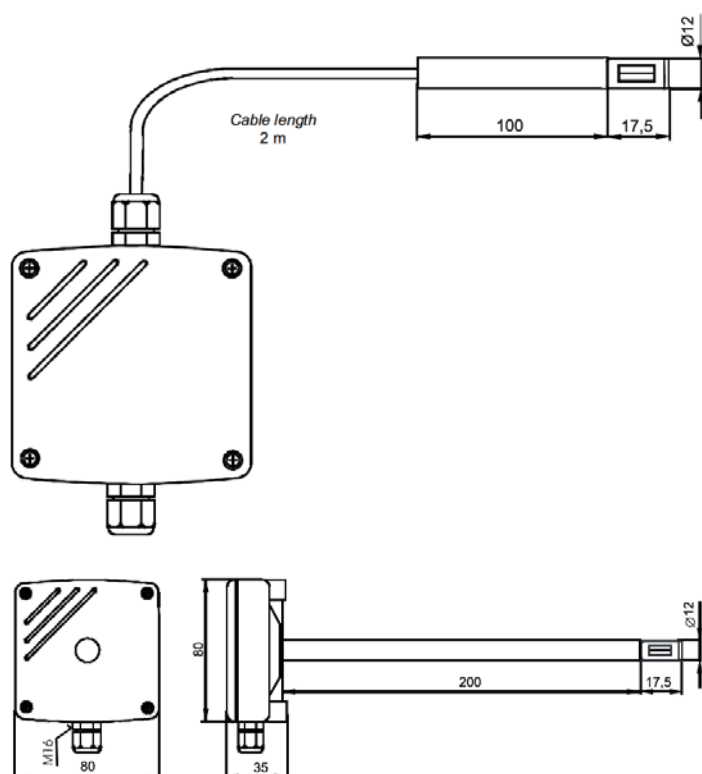
The MAL differential pressure sensors are supplied with 24V from a Ziehl-Abegg control unit.

Through the output of a 0-10V signal (proportional to measuring range), the measured value is transmitted to the Ziehl-Abegg control unit. The MAL sensors are active sensors.

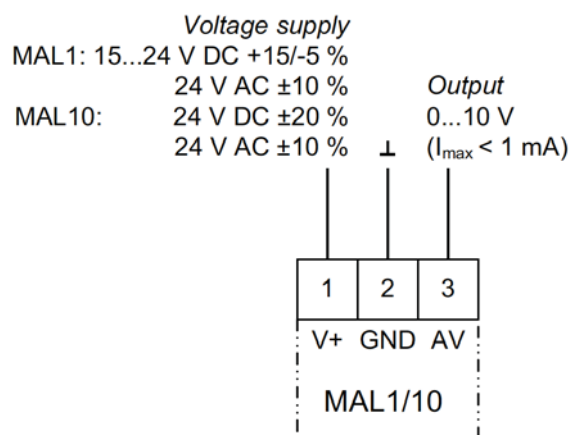


Type	Art No.	Protection Class	Measuring Range	Details
MAL 1	384008	IP 40	0-1 m/s	-
MAL 1	384019	IP 40	0-1 m/s	with test certificate
MAL 1 - X	384018	IP 40	0-1 m/s	with sensing element split via the cable (2m)
MAL 1 - X	384021	IP 40	0-1 m/s	with sensing element split via the cable (2m) with test certificate
MAL 10	384009	IP 40	0-10 m/s	

Dimensions



Connection / Wiring

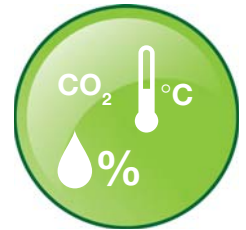


MCFTG-3AV

CO₂, HUMIDITY, TEMPERATURE SENSOR

Combined sensor for the measurement of CO₂ concentration, relative humidity and temperature. Example applications: Office buildings, conference rooms, churches and classrooms, with measured values displayed.

The CO₂ concentration, humidity and temperature can be measured separately or combined. Depending on the detected value, the speed of Ziehl-Abegg fans, is controlled by a means of a Ziehl-Abegg control unit. The sensor is supplied with 24V from a mains adapter. For each measured variable one 0-10V output is available which communicates the value. The value is also shown rotationally on the integrated display.



Features / Benefits

Measurement range: CO₂: 0-2000 ppm.

Humidity: 10-90 %.

Temperature: 0 to +50 °C.

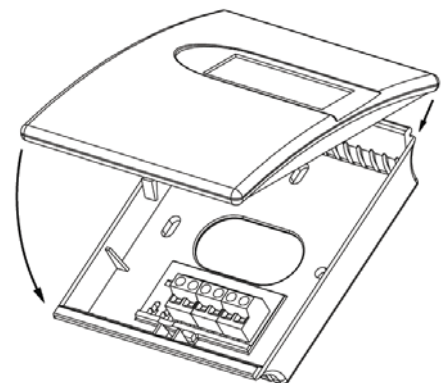
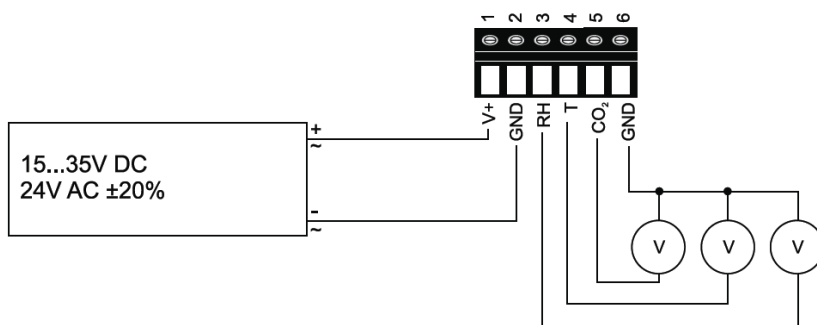
- 3 analogue outputs: For each measuring range 0-10V.
- Housing protection class IP 20.
- Housing dimensions (WxHxD) 85x100x26 mm.



Accessory

Step Power - Art. no: 380067

Connection / Wiring



UNIcon CXE/AV(E)

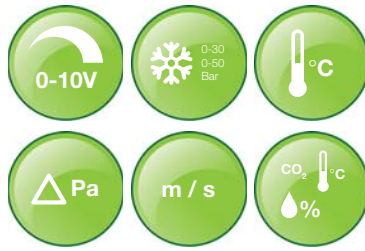
UNIVERSAL CONTROL MODULE

All Ziehl-Abegg sensors can be evaluated with the CXE/AV(E) control module. Control is carried out in relation to the entered target value through triggering of external speed controllers using a 0-10V signal (2 x 0-10V outputs are integrated). The control module is available in different versions, for different power supplies. Operation as close loop controller.



Applications

- Air conditioning.
- Clean room technology.
- Refrigeration.
- Special applications.



Acquisition of the value and control to the target value selectively with following sensors:

- Pressure sensors MBG refrigerant pressure 0-30 / 0-50 bar.
- Temperature sensors TF +27 to +75 °C.
- Temperature sensor MTG-120V +10 to +120 °C.
- Differential pressure sensor DSG 0-6000 Pa / air volume m³/h.
- Air velocity sensors MAL 0-1 / 0-10 m/s.
- Sensors with output signal: 0-10V / 0-20 mA / 4-20 mA.

Target value (e.g. air humidity, concentration of toxins, CO2, etc.) depending on sensor measurement range.

Input for sensors or speed preset

- Pressure sensors refrigeration.
- Temperature sensors.
- Differential pressure sensor.
- Air velocity sensors.
- Combined sensor CO2 / humidity / temperature with mains adapter.

Features

Multifunctional plaintext display, various menu languages can be selected.

- Integrated process control: air pressure, air velocity, air volume, temperature, refrigerant pressure, etc.
- Simple start-up operation through selectable, preset operating modes.
- Connection facility for 2 sensors.
- When one sensor is connected, external target-value preset possible via 0-10V.
- Voltage supply for auxiliary devices (24V, max. 120 mA), e.g. for sensors.
- 2 outputs 0-10V for activation of a subsequent speed controller.
- 2 digital outputs (relay) programmable (e.g. status signals, threshold values).
- 5 digital inputs programmable (e.g. enable function, target value 1/2, controller output limitation, automatic/manual switch over, heating/cooling switch over).
- Integration into BUS system via RS485 interface, MODBUS-RTU.

Expansion Possibility: Clock

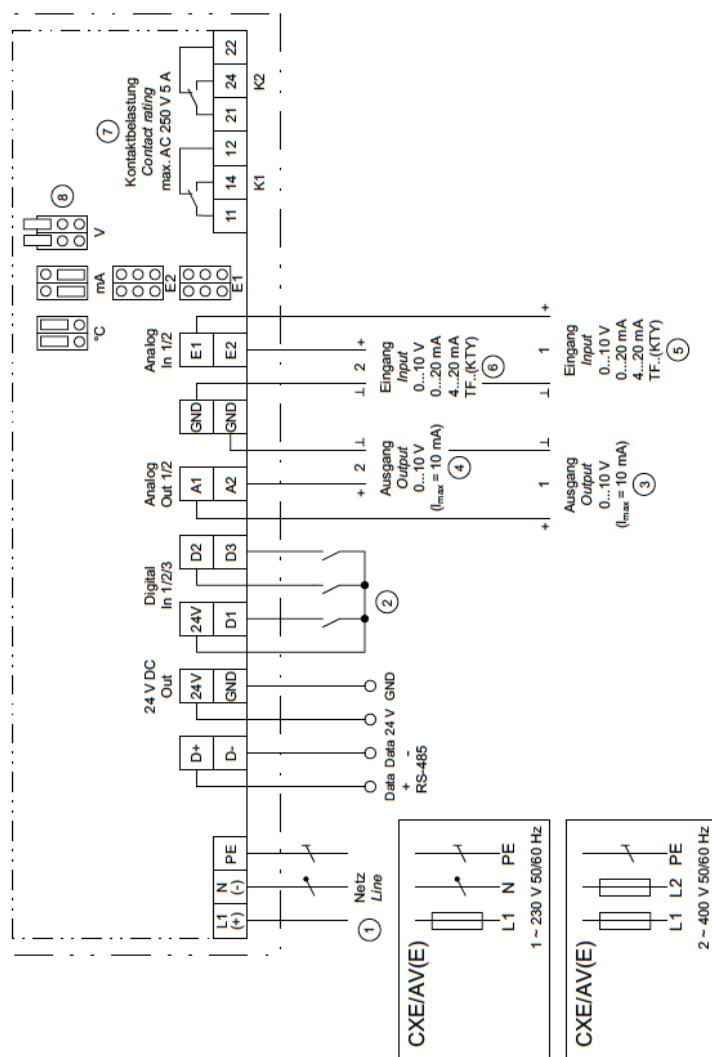
The control modules CXE/AV(E) can be extended with the Z-Modul RTC, art. no. 380056, to get the function of a real time clock.

Nominal Data

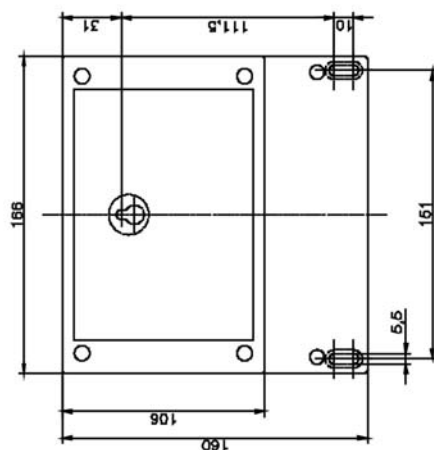
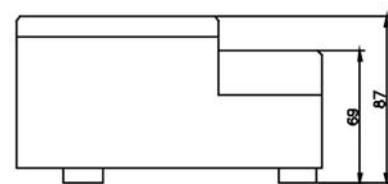
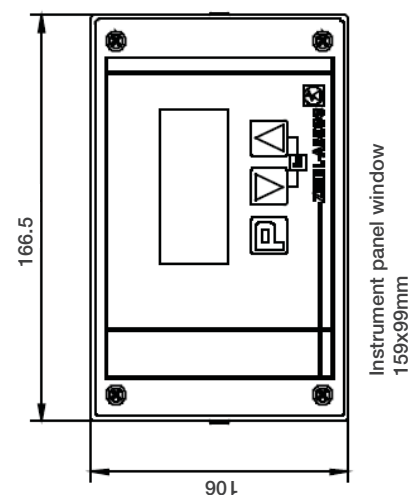
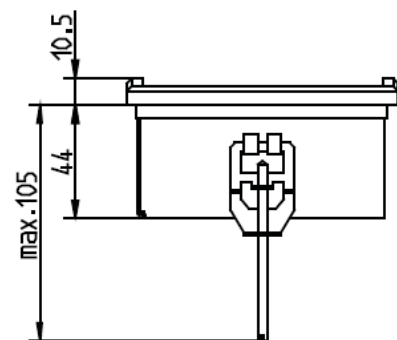
	Type	Art No.	Protection Class	Weight
1 ~ 230V 50/60Hz	CXE/AV	320019	IP 54	0.9
	CXE/AVE	320020	IP 54*	0.8
48V DC 24V AC	CXG-48AV	320025	IP 54	0.6
	CXG-48AVE	320026	IP 54*	0.5
24V DC	CXG-24AV	320023	IP 54	0.6
	CXG-24AVE	320024	IP 54*	0.5
2 ~ 400V 50/60Hz	CXE/AV	320045	IP 54	0.9

*Front side built in

Connection / Wiring



Dimensions



UNIcon CXE/AVC(E)

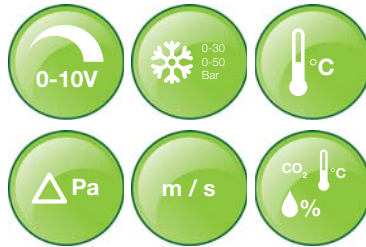
WITH PROGRAMMABLE CLOCK AND TIMER

All Ziehl-Abegg sensors can be evaluated with the CXE/AVC(E) control module. Control is carried out in relation to the entered target value through triggering of external speed controllers using a 0-10V signal. (2 x 0-10V outputs are integrated).



Operation as close loop controller applications

- Air conditioning.
- Clean room technology.
- Refrigeration.
- Special applications.



Acquisition of the value and control to the target value selectively with following sensors:

- Pressure sensor MBG - refrigerant pressure 0-30 / 0-50 bar.
- Temperature sensors TF +27 to +75 °C.
- Temperature sensor MTG-120V +10 to +120 °C.
- Differential pressure sensor DSG 0-6000 Pa / air volume m³/h.
- Air velocity sensors MAL 0-1 / 0-10 m/s.
- Sensors with output signal: 0-10V / 0-20 mA / 4-20 mA. Target value (e.g. air humidity, concentration of toxins, CO2, etc depending on sensor measurement range).

Input for sensors or speed preset

- Pressure sensors refrigeration.
- Temperature sensors.
- Differential pressure sensor.
- Air velocity sensors.
- Combined sensor CO2/humidity /temperature with mains adapter.

Features

Multifunctional plaintext display, various menu languages can be selected.

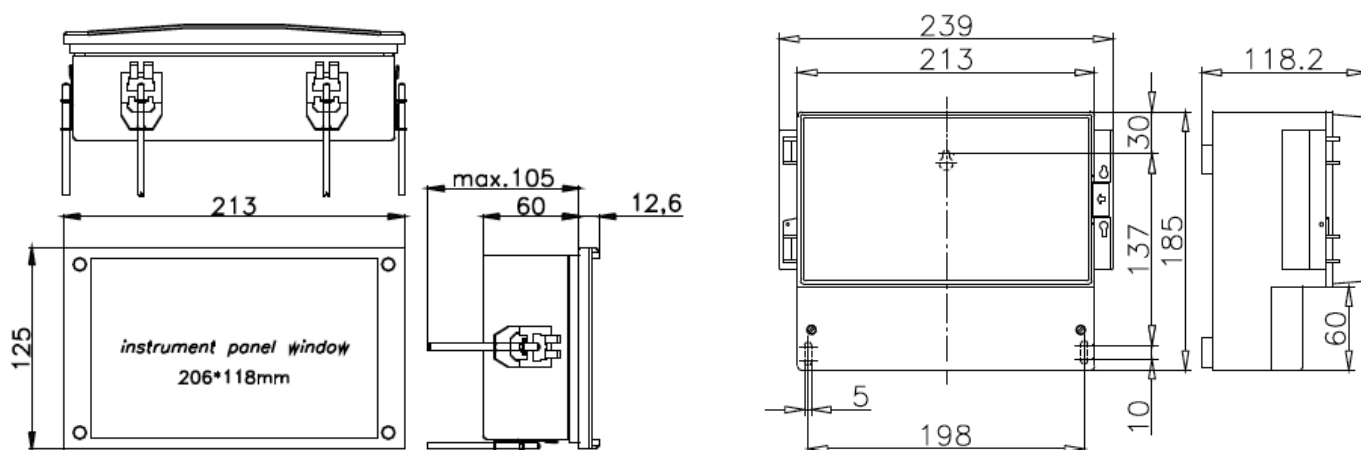
- Integrated clock, timer function programmable.
- Integrated process control: Air pressure, air velocity, air volume, temperature, refrigerant pressure, etc.
- Simple start-up operation through selectable, preset operating modes.
- Connection facility for 2 sensors.
- When one sensor is connected, external target-value preset possible via 0-10V.
- Voltage supply for auxiliary devices (24V, max 120 mA) e.g. for sensors.
- 2 outputs 0-10V for activation of a subsequent speed controller.
- 2 digital outputs (relay) programmable (e.g. status signals, threshold values).
- 5 digital inputs programmable (e.g. enable function, target value 1/2, controller output limitation, automatic/manual switch over, heating/cooling switch over).
- Integration into BUS system via RS485 interface, MODBUS-RTU.

Nominal Data

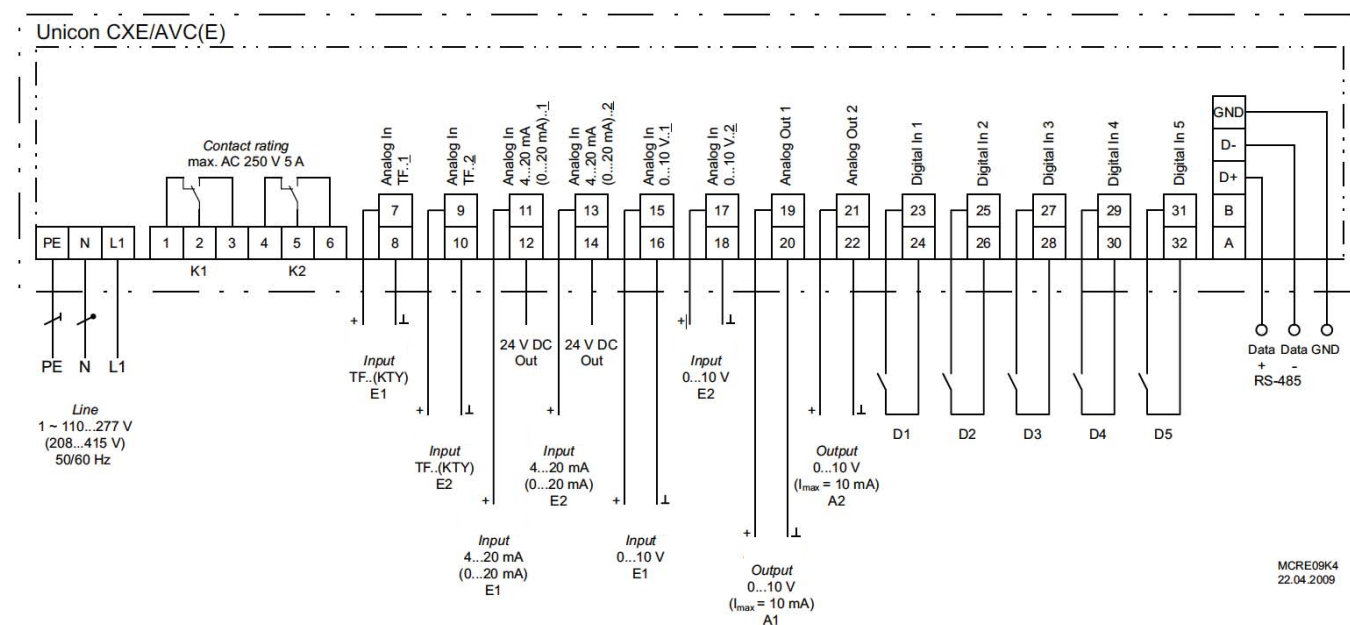
	Type	Art No.	Protection Class	Weight (kg)
1~ 230V 50/60Hz	CXE/AVC	320006	IP 54	1.05
	CXE/AVCE	320008	IP 54*	0.85
2~ 400V 50/60Hz	CXE/AVC	320007	IP 54	1.05

*Front side built in

Dimensions



Connection / Wiring



UNIcon CTG-150AV

TEMPERATURE CONTROL MODULE

Temperature control for e.g. extraction systems, warm-air heaters, air curtain installations, liquid-cooling, chillers.

- The measured value at the sensor is compared with the adjusted target value, and the controlled value is deduced from this. Controlled output (0-10V) e.g. for activating a speed controller for fans. Fans with integrated controller and input 0-10V can be activated directly.
- Voltage input (10-24V DC) for switch over between Setpoint 1 and Setpoint 2 (e.g. for day / night, summer / winter).
- Alternatively the device can be operated as a temperature sensor. Output 0-10V in this mode proportional to the adjusted measuring range (max. -50 to +150 °C).
- Input for temperature sensor type TF (KTY81-210) or PT1000.



TFR 00089846
Room sensors



TFT 00154797
Immersion sensors

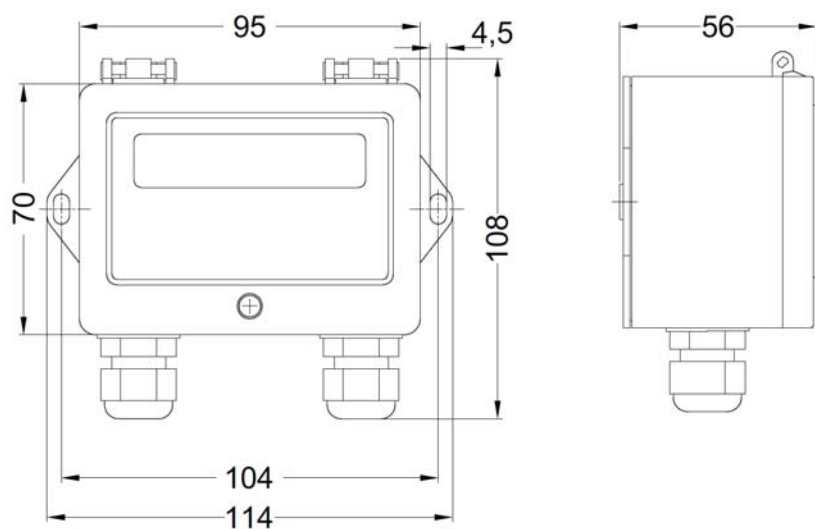


TFA 00153407
Contact sensors

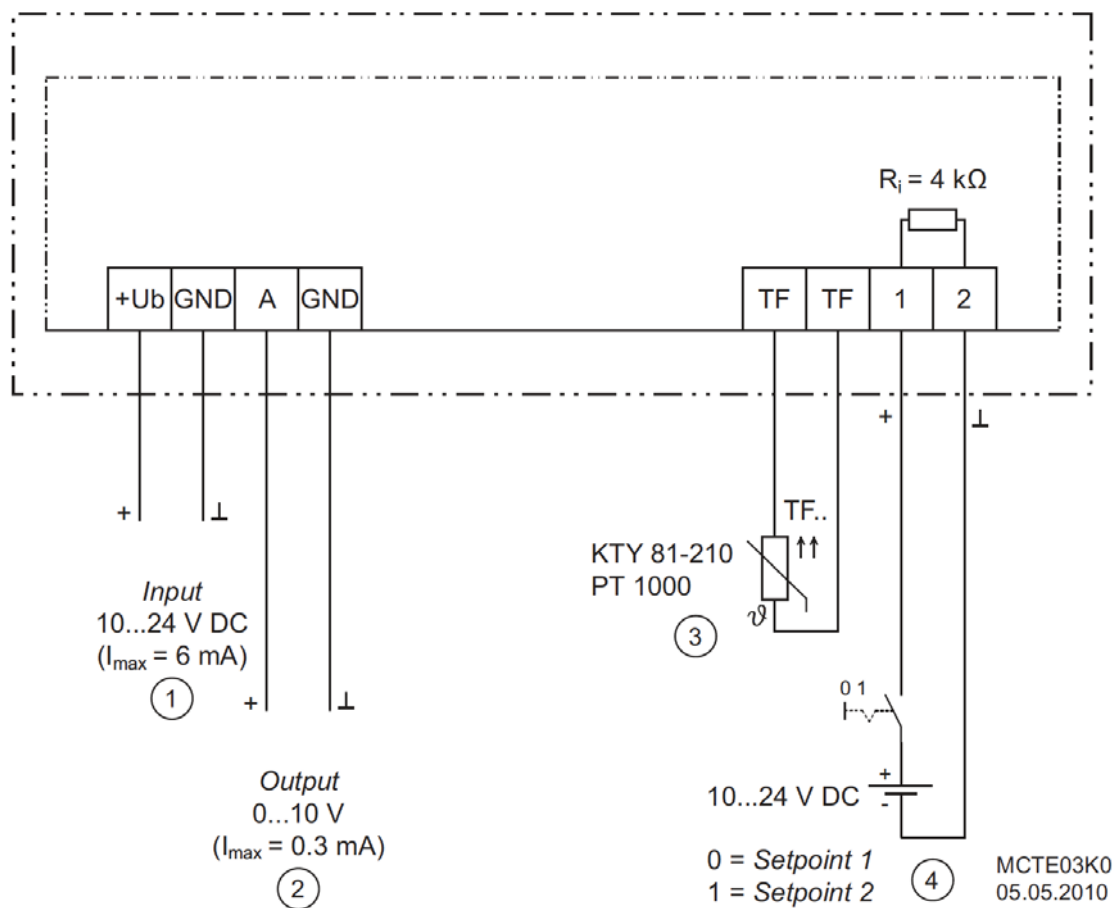
Features / Benefits

- Measuring range -50 to +150 °C.
- Voltage supply 10V to 24V DC electronically protected against faulty polarization.
- Current consumption approx. 6 mA.
- Output voltage (0-10V), $I_{max} = 0.3 \text{ mA}$ (short-circuit proof).
- LC Display double-row (max. 16 digits each) Housing cover ABS, bottom Polyamid PA 6.6 fire protection classification UL 94 HB.
- Protection class IP54 according EN 60529.
- Weight approx. 200 g.
- Permissible ambient temperature -10 to +50 °C.
- Permissible rel. humidity 85 % no condensation.
- Interference emission according to EN 61000-6-3.
- Interference immunity EN 61000-6-2.
- Possible settings by three internal keys.
- Mode: sensor, control module.
- Kind of sensor: KTY81-210 or PT1000, sensor offset.
- Minimal and maximal output voltage (0-10V).
- For operation control module: Setpoint 1, Setpoint 2, Pband, Switch-over control function ("Heating" / "Cooling"), Minimum rate of air ON / OFF.

Dimensions



Connection / Wiring



UNIcon CPG-200AV

PRESSURE CONTROL MODULE

The differential pressure (non-aggressive gas) to be measured acts upon a spring supported silicone membrane. Function when the pressure at the "+" connection exceeds the pressure at the "-" connection. A range from 50 Pa to 6000 Pa is covered by 3 models. With each model four calibrated measuring ranges are programmable.

- For operation as pressure sensor the device supplies an output signal (0-10V proportional to the measuring range).
- For operation as air volume sensor the device supplies an output signal (0-10V proportional to the air volume measuring range. Function in combination with axial fans and measuring device in the inlet duct. The controller calculates the air volume of the fan from the K-factor and pressure differential between the suction side and the inlet cone of the fan.
- For operation as control module for pressure or volume the purpose of the device is to reach and maintain the target value set. To accomplish this, the measured value (sensor value) is compared with the adjusted target value, and the controlled value is deduced from this. Voltage input (10-24V DC) for switch over between Setpoint 1 and Setpoint 2 (e.g. for day / night, summer / winter). Controlled output (0-10V) e.g. for activating a speed controller for fans or an EC-fan directly.

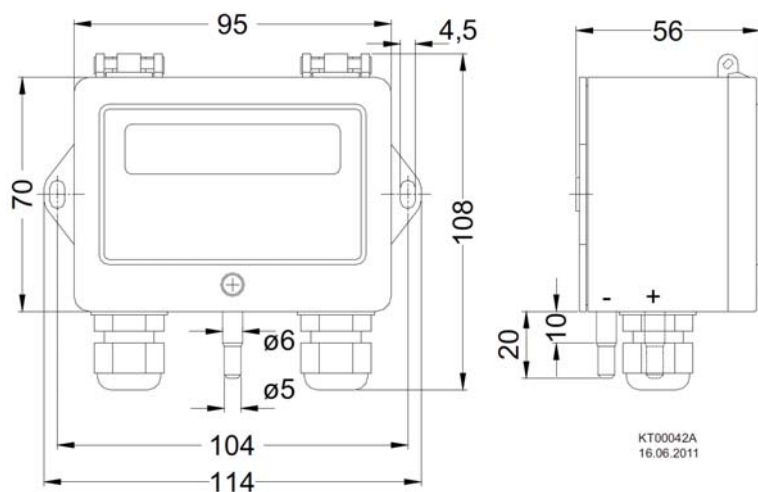


Features / Benefits

- Voltage supply 10V-24V DC electronically protected against faulty polarization.
- Current consumption approx. 6 mA.
- Output voltage 0-10V, I_{max} = 0,3 mA.
- Connection sockets "+, -": tubing $\varnothing$ 5 / 6 mm.
- LC display double-row (max. 16 digits each).
- Housing cover ABS, bottom Polyamid PA 6.6 fire protection classification UL 94 HB.
- Use position: vertical (measuring depends on position).
- Protection class IP54 according EN 60529.
- Weight approx. 250 g.
- Permissible ambient temperature -10 to +50 °C.
- Overload protection 0.2 bar.
- Static pressure max. 0.2 bar.
- Interference emission according to EN 61000-6-3.
- Interference immunity according to EN 61000-6-2.
- Zero point deviation: < +/- 0.5 %.
- Final value deviation: < +/- 0.5 %.
- Linearity deviation: < +/- 0.25 %.
- Resolution: < 0.1 %.
- Hysteresis: < 1.0 %.
- Possible settings by three internal keys.
- Mode: sensor, control module.
- Measuring range:
 - CPG-200AV: 0...50 / 100 / 150 / 200 Pa.
 - CPG-1000AV: 0...200 / 300 / 500 / 1000 Pa.
 - CPG-6000AV: 0...2000 / 3000 / 4000 / 6000 Pa.
- Air volume measuring range max. 65000 m³/h (depends on selected pressure measuring range and K-Factor).
- Minimal and maximal output voltage (0-10V).
- Sensor offset, K-Factor for air volume measuring.
- For operation control module: Setpoint 1, Setpoint 2, Pband.

Fault limits (data for pressure sensor max. measuring range).

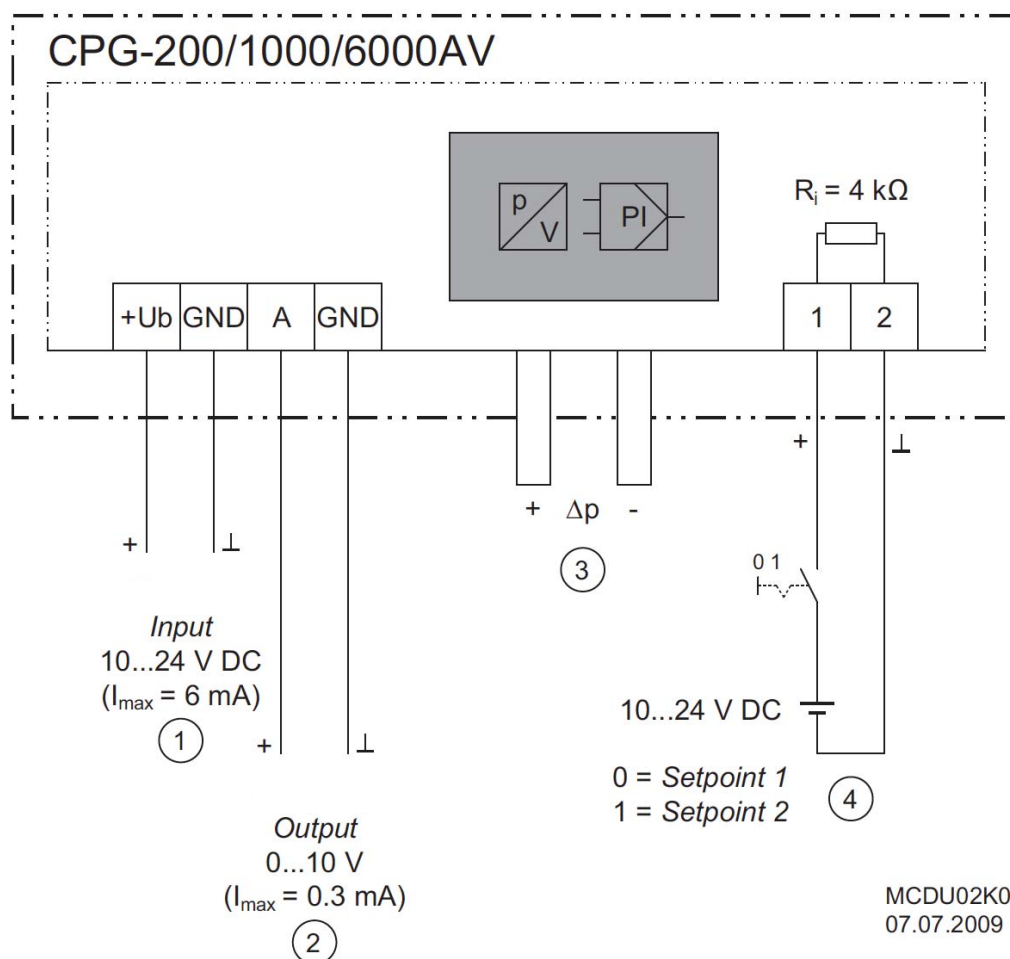
Dimensions



Part Number

	CPG-200AV	CPG-1000AV	CPG-6000AV
Part No.	320042	320043	320044

Connection / Wiring



EC Axial Fans

The energy saver amongst fans

The new economic solution since the middle of the 80's, Ziehl-Abegg has been performing pioneering work in the development and manufacture of efficient EC external rotor motors for fans. Nearly 30 years later, a new era is dawning in EC technology: ECblue. ECblue is Ziehl-Abegg's third generation of EC motors.

This latest EC technology is setting new standards for control, efficiency and reliability. Ingeniously simple functionality, compact, cutting-edge technology, and user-friendly – these are the main criteria we set for the development of the ECblue series. Meet ECblue and convince yourself of the result! Maximum efficiency – Minimum power consumption. Nowadays, saving energy is more important than ever. Energy costs are exploding; the global climate is changing. Fans with ECblue technology will help lower your operating costs.

Our environment will also appreciate the low power consumption of the ECblue fans – after all, the cleanest energy is the energy that doesn't need to be generated in the first place! Dependability and reliability are the basic prerequisites for a quality product from Ziehl-Abegg, so the new ECblue energy-saving motors were tested under extreme conditions. Whether they were exposed to shock or vibration tests, constant loads under extreme temperatures or salt-fog tests – the ECblue fans passed all the tests brilliantly. We are 100% convinced of the reliability of the ECblue fans.

Maximum efficiency —
Minimum power consumption.
Nowadays, saving energy is
more important than ever.



Notes



Alaskon - Air Movement Products & Expertise



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