STE Technic

AXIAL FANS

Transformer Cooling Solutions

CE

ISO 9001 QUALITY ASSURANCE

TRANSFORMER AXIAL FAN

STE Technic designs and manufactures air forced cooling solutions for distribution and power transformers. Our axial fans are engineered especially for conditions and environments of power generation, transmission and distribution sites with wide range of options.

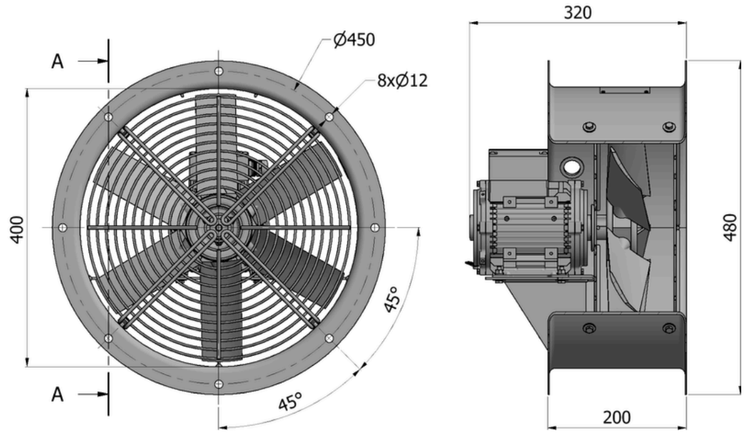
- ENGINEERED FOR TRANSFORMER OPERATION
- FULLY CLOSED MOTOR UP TO IP66
- EASY INSTALLATION
- HIGH CORROSION RESISTANCE
- SAFE OPERATION WITH COMPLETE GUARD GRILLES
- SUITABLE FOR HARSH AMBIENT TEMPERATURES
- WIDE CUSTOMIZATION OPTIONS
- ECO DESIGN COMPATIBLE

Standard	IEC 60034-1, IEC 60335-2-80, ISO 5801
Balance Quality	G6.3 according to ISO 1940-1
Tolerance	Class 2 according to DIN 24166
Mounting Position	Horizontal & Vertical
Motor	Asynchronous motor with aluminum body
Winding Insulation	Class F or H
Winding Temperature Rise	Class B
Operation	Indoor & Outdoor
Corrosion Class	C3 / C4 / C5 / CX - Medium / High / Very High acc. to ISO 12944-2
Fasteners	Stainless Steel

FLOW OPTIMIZED AXIAL FAN

A40C-F

Dimensions



Specification

Number of Poles	4	
Type	A40C-F5	A40C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,2 A / 0,7 A	1,0 A / 0,6 A
Input Power	0,29 kW	0,29 kW
Speed	1440 rpm	1728 rpm
Sound Pressure (L_{PA} 1m/2m)	73 dB(A) / 68 dB(A)	78 dB(A) / 73 dB(A)
Air Flow	1,20 m³/s	1,20 m³/s
Weight (varies by options)	16 kg	

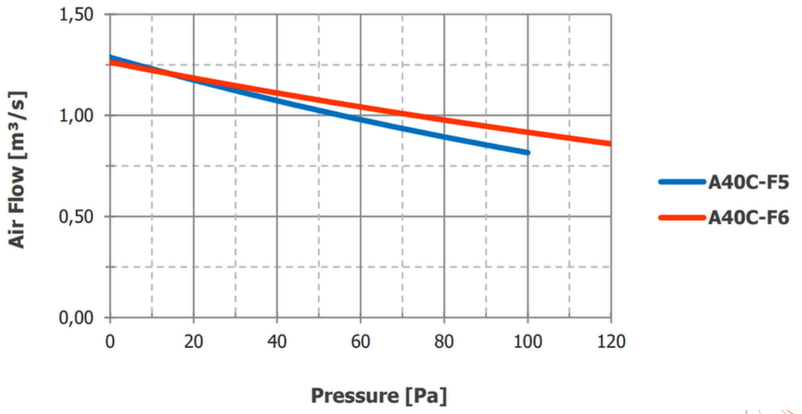
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environmen

Performance



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A40C-B

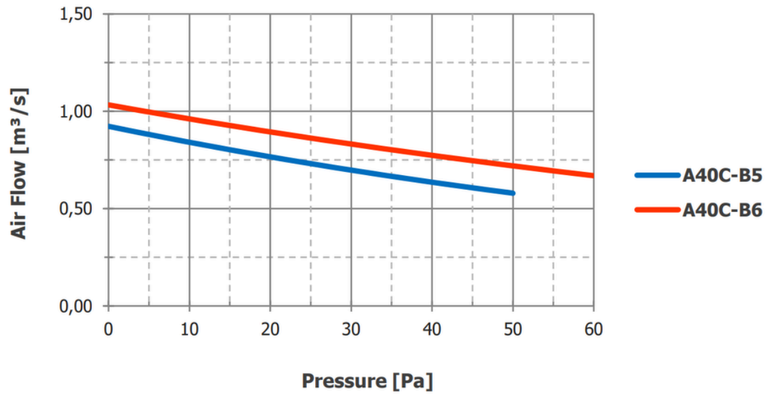
BALANCED PERFORMANCE AXIAL FAN

Specification

Number of Poles	6	
Type	A40C-B5	A40C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,9 A / 0,5 A	0,9 A / 0,5 A
Input Power	0,13 kW	0,19 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	63 dB(A) / 58 dB(A)	68 dB(A) / 63 dB(A)
Air Flow	0,81 m³/s	0,93 m³/s
Weight (varies by options)	16 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



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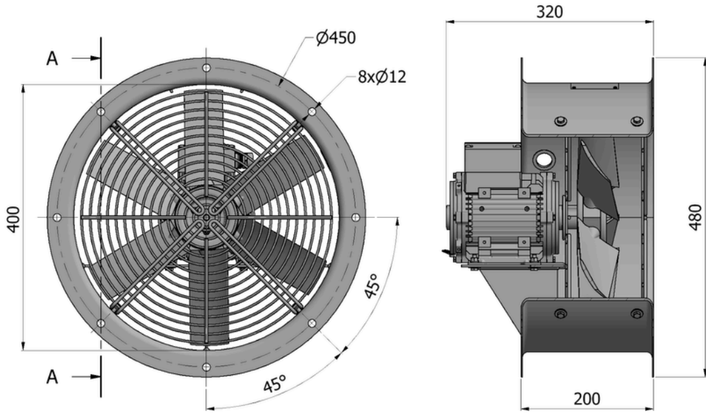

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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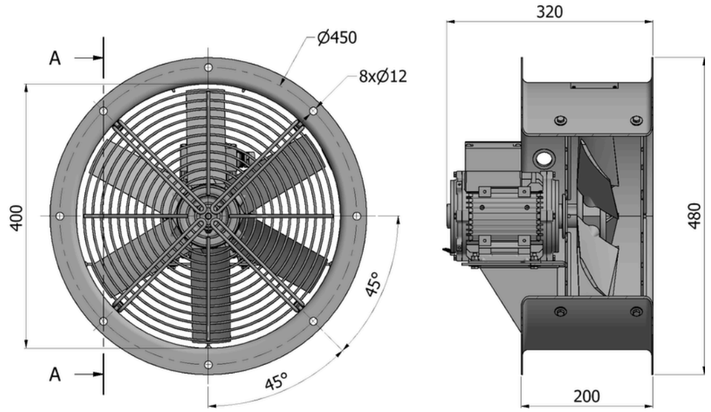
LOW NOISE AXIAL FAN

A40C-S

Dimensions



Specification

Number of Poles	8	
Type	A40C-S5	A40C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,8 A / 0,5 A	0,8 A / 0,4 A
Input Power	0,10 kW	0,13 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	56 dB(A) / 51 dB(A)	61 dB(A) / 56 dB(A)
Air Flow	0,54 m³/s	0,71 m³/s
Weight (varies by options)	17 kg	

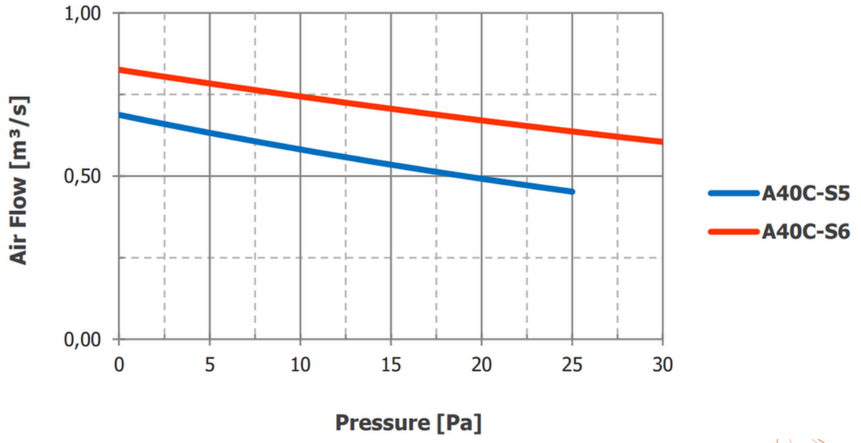
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



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A46C-F

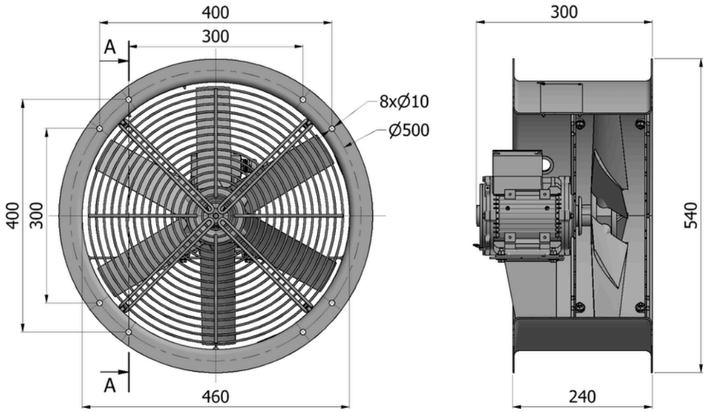
FLOW OPTIMIZED AXIAL FAN

Specification

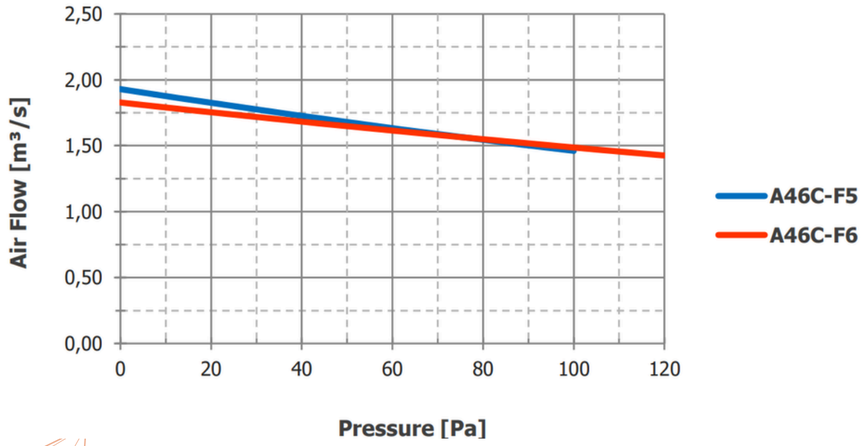
Number of Poles	4	
Type	A46C-F5	A46C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,7 A / 1,0 A	1,4 A / 0,8 A
Input Power	0,46 kW	0,43 kW
Speed	1440 rpm	1728 rpm
Sound Pressure (L_{PA} 1m/2m)	75 dB(A) / 70 dB(A)	80 dB(A) / 75 dB(A)
Air Flow	1,85 m³/s	1,77 m³/s
Weight (varies by options)	19 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Dimensions



Performance



Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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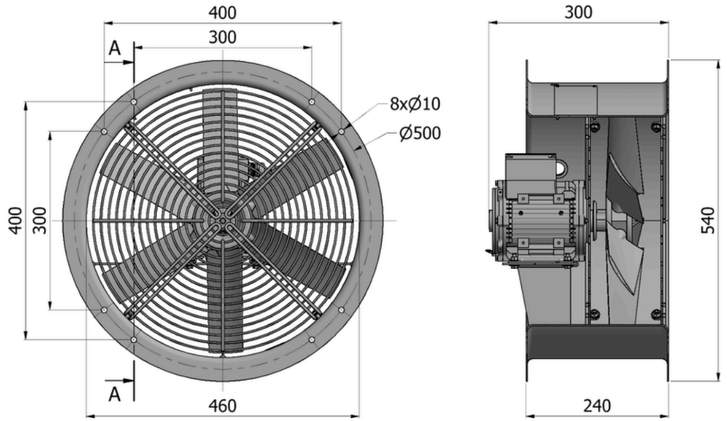
BALANCED PERFORMANCE AXIAL FAN

A46C-B

Dimensions



Specification

Number of Poles	6	
Type	A46C-B5	A46C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,9 A / 0,5 A	1,0 A / 0,6 A
Input Power	0,21 kW	0,28 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{pA} 1m/2m)	64 dB(A) / 59 dB(A)	69 dB(A) / 64 dB(A)
Air Flow	1,24 m³/s	1,44 m³/s
Weight (varies by options)	18 kg	

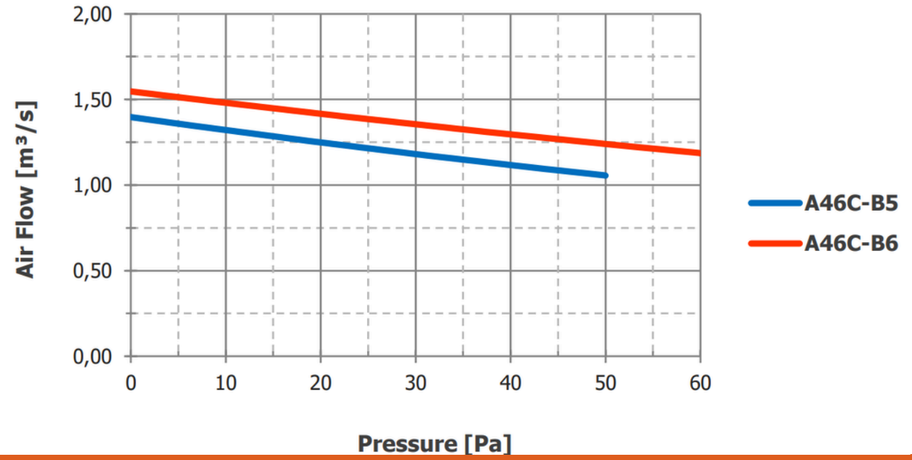
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A46C-S

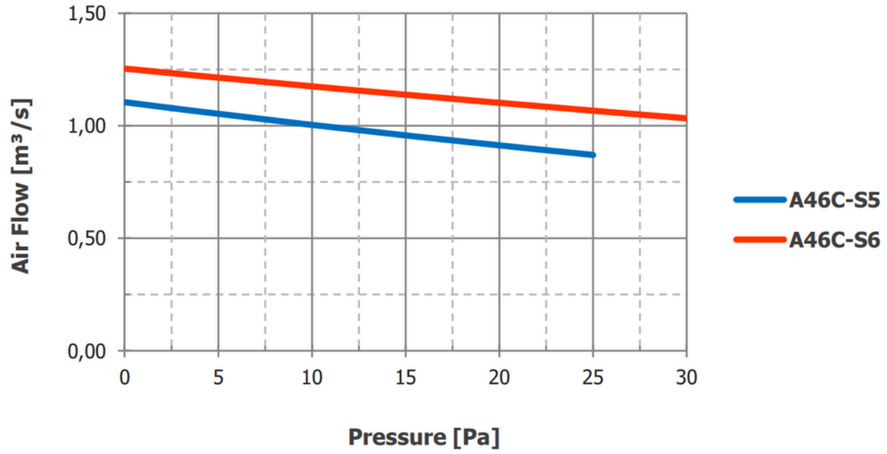
LOW NOISE AXIAL FAN

Specification

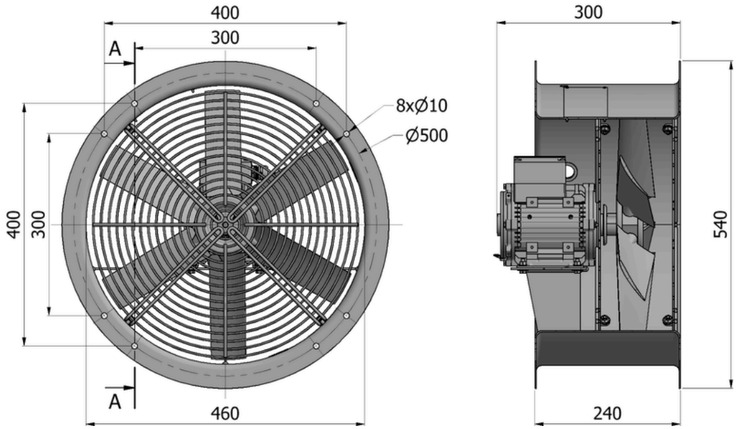
Number of Poles	8	
Type	A46C-S5	A46C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,8 A / 0,5 A	0,8 A / 0,5 A
Input Power	0,13 kW	0,19 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	57 dB(A) / 52 dB(A)	62 dB(A) / 57 dB(A)
Air Flow	0,92 m³/s	1,09 m³/s
Weight (varies by options)	19 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

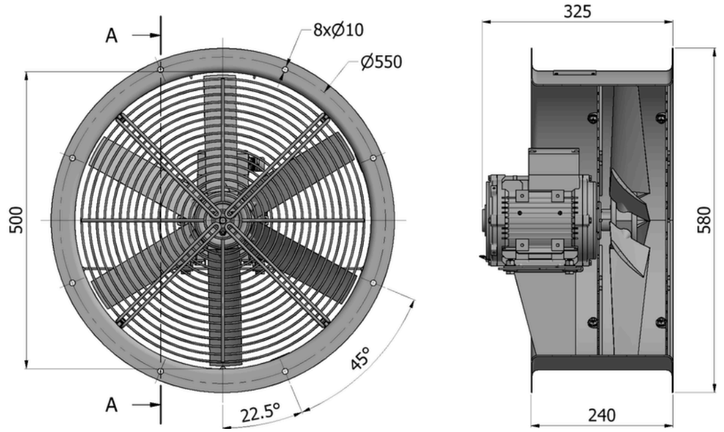
Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

FLOW OPTIMIZED AXIAL FAN

A50C-F

Dimensions



Specification

Number of Poles	4	
Type	A50C-F5	A50C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	2,5 A / 1,4 A	2,2 A / 1,3 A
Input Power	0,63 kW	0,70 kW
Speed	1440 rpm	1728 rpm
Sound Pressure (L_{pA} 1m/2m)	76 dB(A) / 71 dB(A)	81 dB(A) / 76 dB(A)
Air Flow	2,29 m³/s	2,42 m³/s
Weight (varies by options)	23 kg	

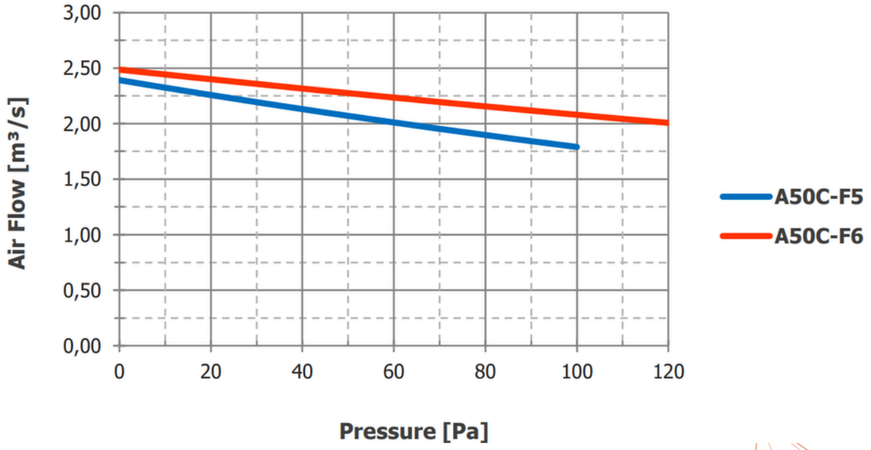
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



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A50C-B

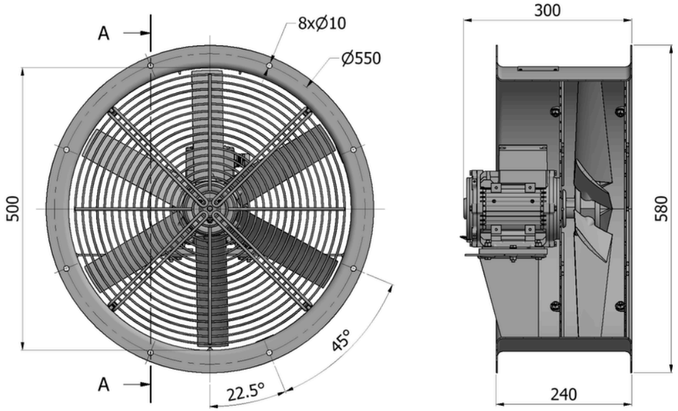
BALANCED PERFORMANCE AXIAL FAN

Specification

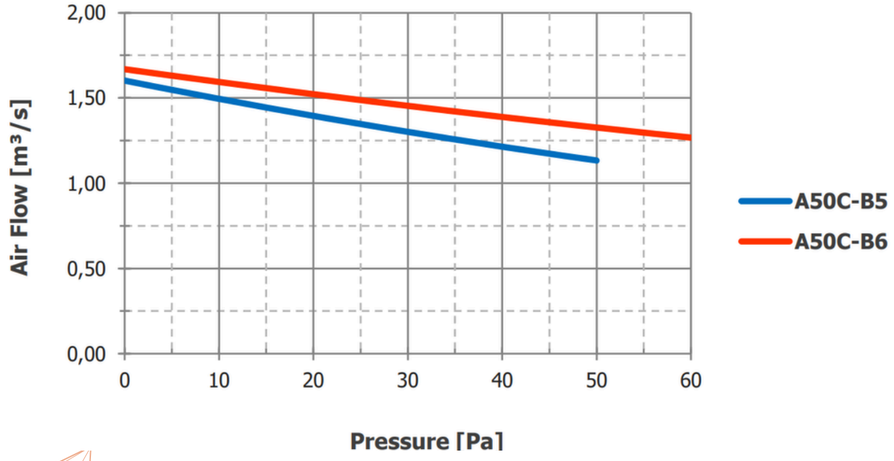
Number of Poles	6	
Type	A50C-B5	A50C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,0 A / 0,5 A	1,0 A / 0,6 A
Input Power	0,22 kW	0,26 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	65 dB(A) / 60 dB(A)	70 dB(A) / 65 dB(A)
Air Flow	1,45 m³/s	1,56 m³/s
Weight (varies by options)	20 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Dimensions



Performance



Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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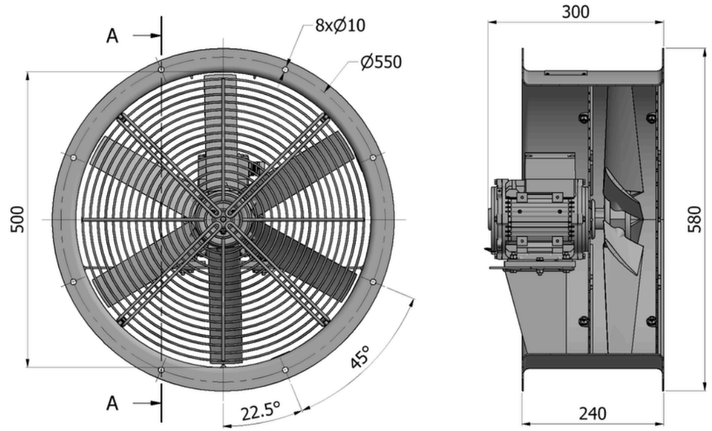
LOW NOISE AXIAL FAN

A50C-S

Dimensions



Specification

Number of Poles	8	
Type	A50C-S5	A50C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,8 A / 0,5 A	0,8 A / 0,5 A
Input Power	0,15 kW	0,20 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{pA} 1m/2m)	58 dB(A) / 53 dB(A)	63 dB(A) / 58 dB(A)
Air Flow	1,14 m³/s	1,28 m³/s
Weight (varies by options)	21 kg	

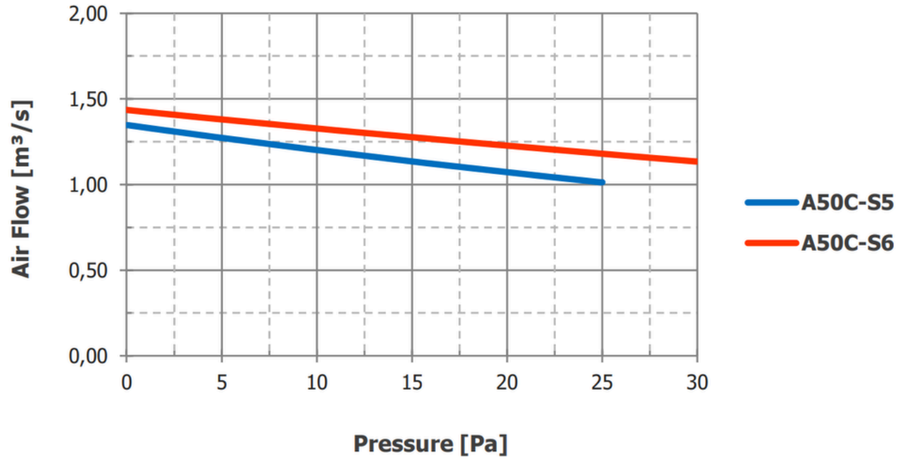
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A50C-U

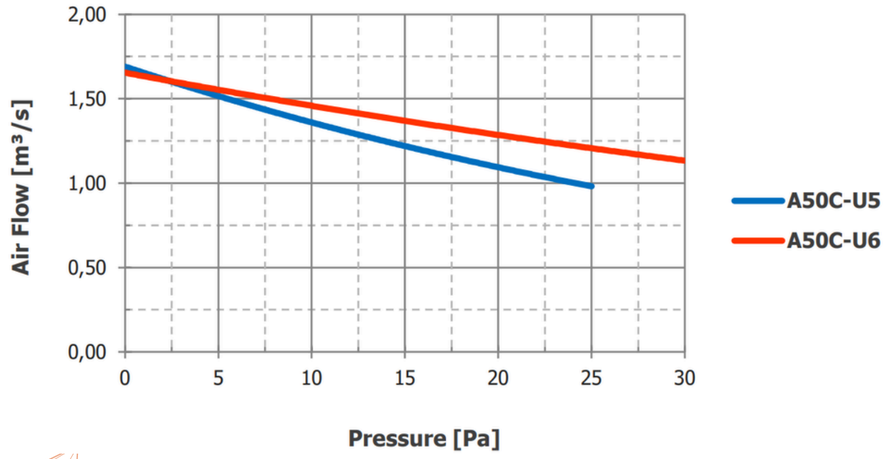
SILENT AXIAL FAN

Specification

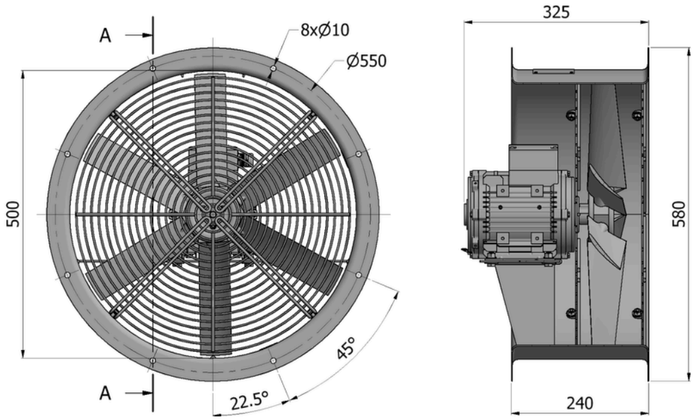
Number of Poles	12	
Type	A50C-U5	A50C-U6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,0 A / 0,5 A	1,0 A / 0,6 A
Input Power	0,13 kW	0,17 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	51 dB(A) / 46 dB(A)	56 dB(A) / 51 dB(A)
Air Flow	1,24 m³/s	1,38 m³/s
Weight (varies by options)	23 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide			
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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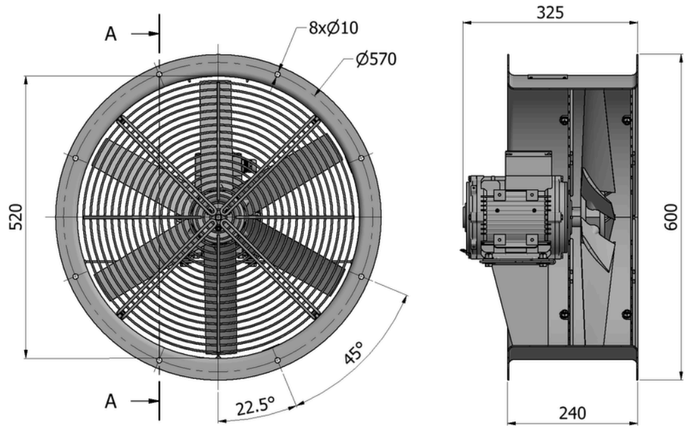
FLOW OPTIMIZED AXIAL FAN

A52C-F

Dimensions



Specification

Number of Poles	4	
Type	A52C-F5	A52C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	2,5 A / 1,4 A	2,8 A / 1,6 A
Input Power	0,66 kW	0,77 kW
Speed	1440 rpm	1728 rpm
Sound Pressure (L_{PA} 1m/2m)	77 dB(A) / 72 dB(A)	82 dB(A) / 77 dB(A)
Air Flow	2,53 m³/s	2,65 m³/s
Weight (varies by options)	23 kg	

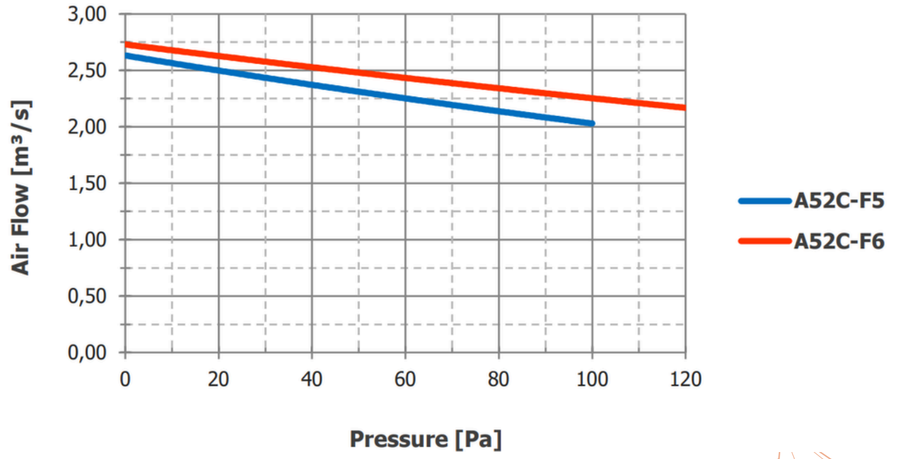
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



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A52C-B

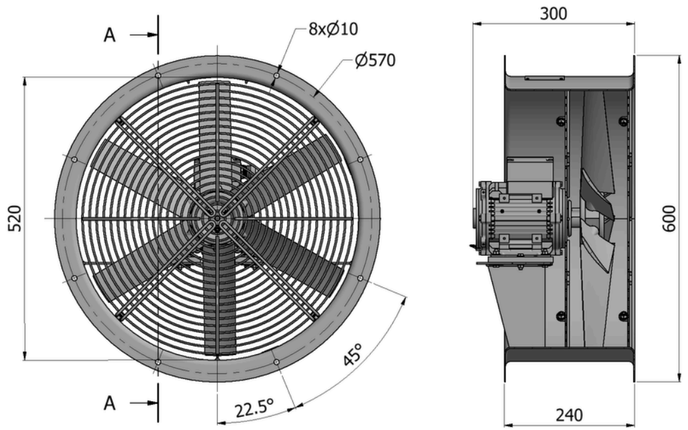
BALANCED PERFORMANCE AXIAL FAN

Specification

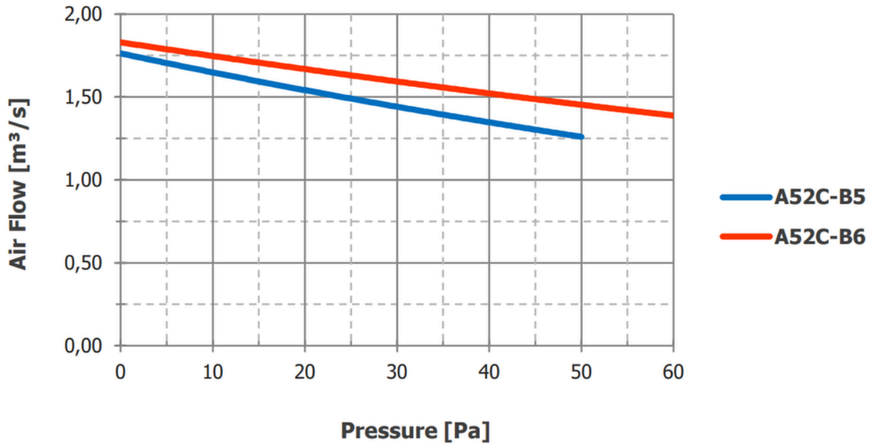
Number of Poles	6	
Type	A52C-B5	A52C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,0 A / 0,6 A	1,2 A / 0,7 A
Input Power	0,24 kW	0,28 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	66 dB(A) / 61 dB(A)	71 dB(A) / 66 dB(A)
Air Flow	1,60 m³/s	1,71 m³/s
Weight (varies by options)	21 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Dimensions



Performance



Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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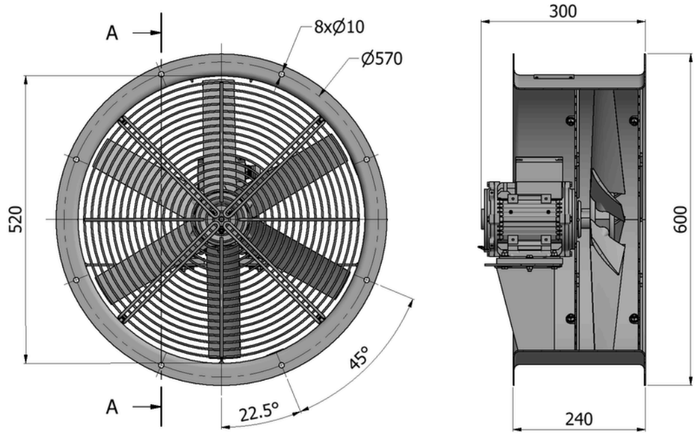
LOW NOISE AXIAL FAN

A52C-S

Dimensions



Specification

Number of Poles	8	
Type	A52C-S5	A52C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	0,8 A / 0,5 A	0,8 A / 0,5 A
Input Power	0,17 kW	0,22 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	60 dB(A) / 55 dB(A)	65 dB(A) / 60 dB(A)
Air Flow	1,27 m³/s	1,41 m³/s
Weight (varies by options)	21 kg	

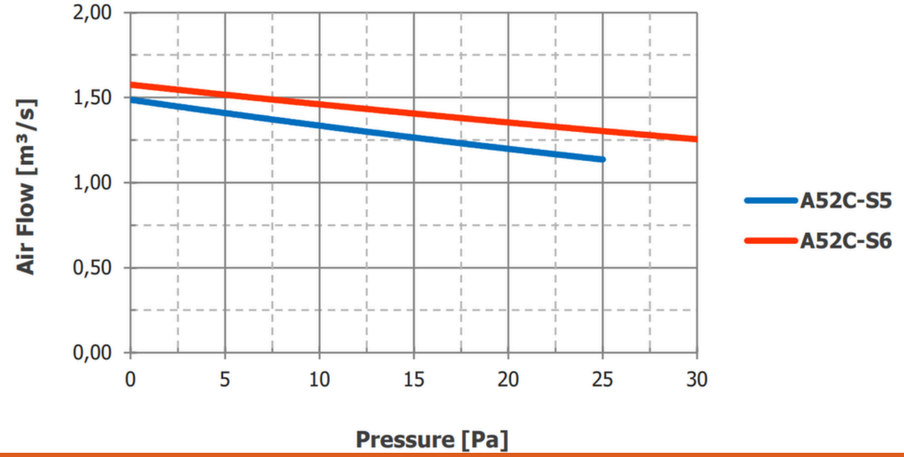
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A52C-U

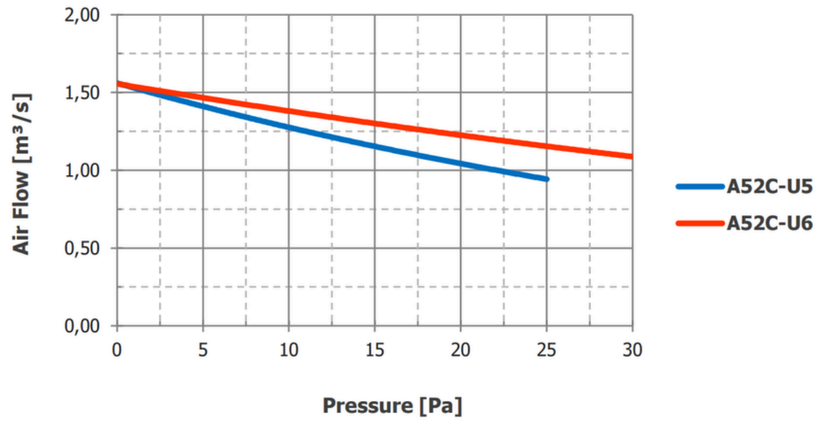
SILENT AXIAL FAN

Specification

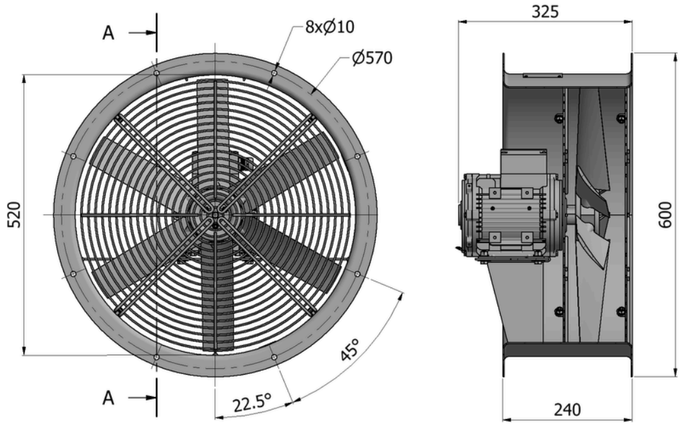
Number of Poles	12	
Type	A52C-U5	A52C-U6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,0 A / 0,6 A	1,0 A / 0,6 A
Input Power	0,14 kW	0,22 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	53 dB(A) / 48 dB(A)	58 dB(A) / 53 dB(A)
Air Flow	1,17 m³/s	1,31 m³/s
Weight (varies by options)	23 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide			
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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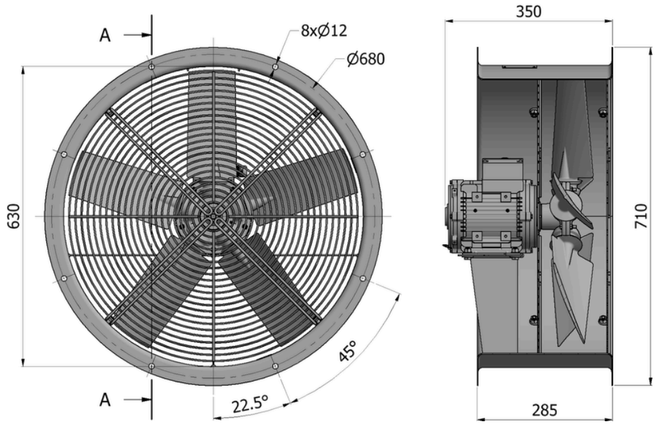
FLOW OPTIMIZED AXIAL FAN

A63C-F

Dimensions



Specification

Number of Poles	4	
Type	A63C-F5	A63C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,2 A / 1,8 A	2,9 A / 1,7 A
Input Power	0,86 kW	0,89 kW
Speed	1440 rpm	1728 rpm
Sound Pressure (L_{PA} 1m/2m)	79 dB(A) / 74 dB(A)	84 dB(A) / 79 dB(A)
Air Flow	3,40 m³/s	3,42 m³/s
Weight (varies by options)	31 kg	

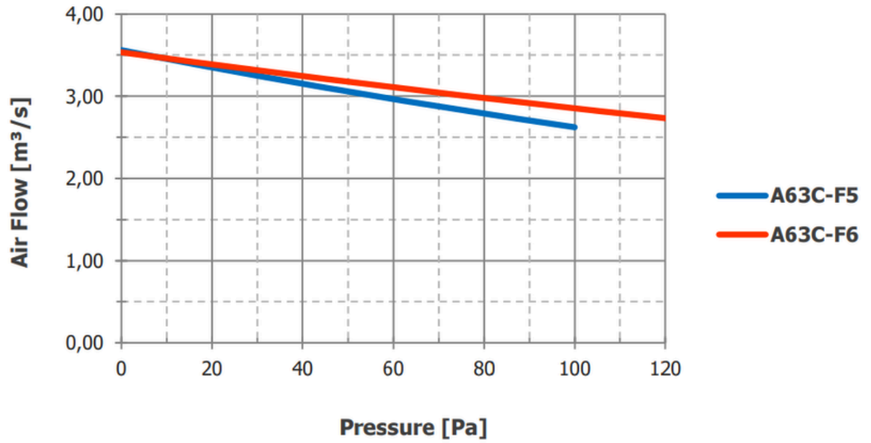
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A63C-B

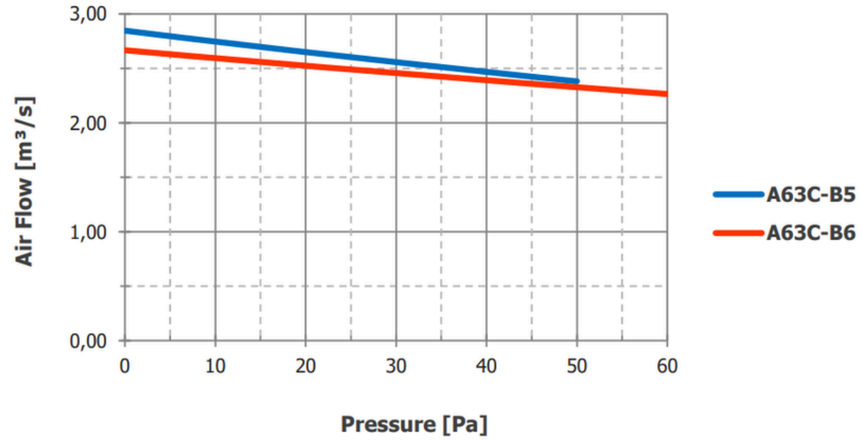
BALANCED PERFORMANCE AXIAL FAN

Specification

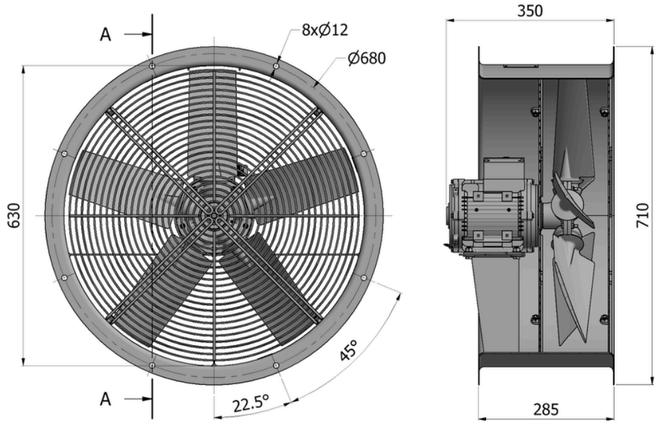
Number of Poles	6	
Type	A63C-B5	A63C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,8 A / 1,1 A	1,7 A / 1,0 A
Input Power	0,48 kW	0,49 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	69 dB(A) / 64 dB(A)	74 dB(A) / 69 dB(A)
Air Flow	2,70 m³/s	2,56 m³/s
Weight (varies by options)	29 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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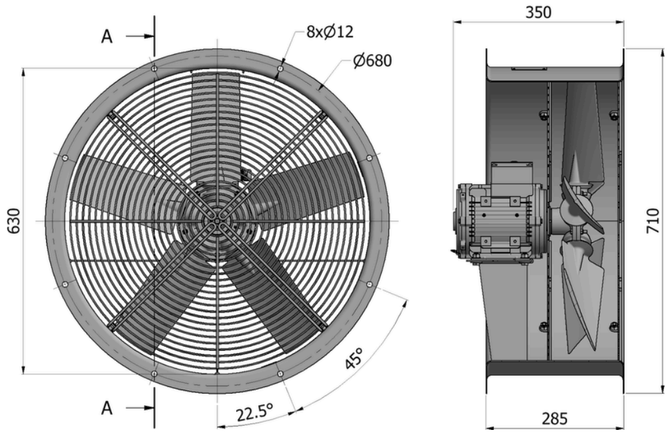
LOW NOISE AXIAL FAN

A63C-S

Dimensions



Specification

Number of Poles	8	
Type	A63C-S5	A63C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	1,5 A / 0,9 A	1,5 A / 0,8 A
Input Power	0,34 kW	0,38 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{pA} 1m/2m)	63 dB(A) / 58 dB(A)	68 dB(A) / 63 dB(A)
Air Flow	2,29 m³/s	2,36 m³/s
Weight (varies by options)	30 kg	

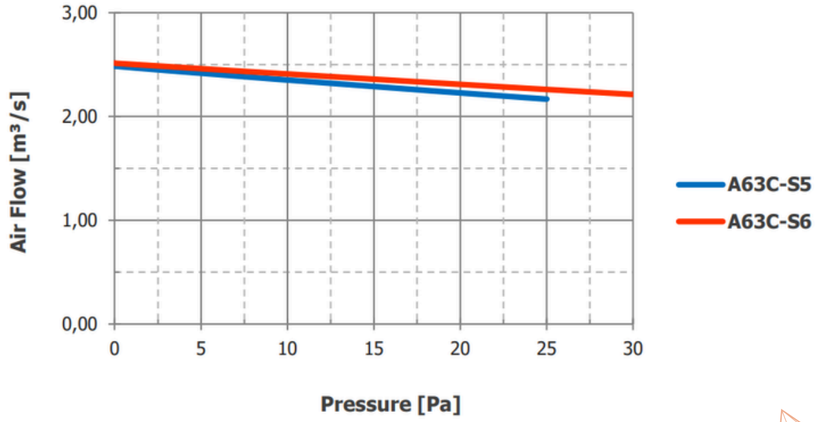
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



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A71C-F

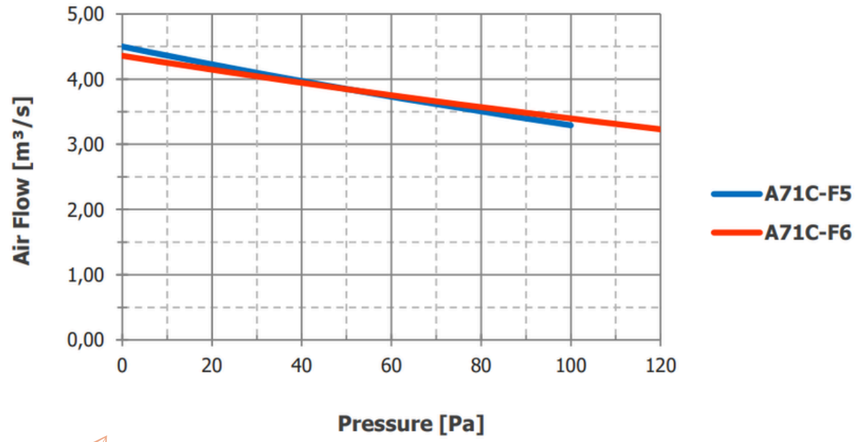
FLOW OPTIMIZED AXIAL FAN

Specification

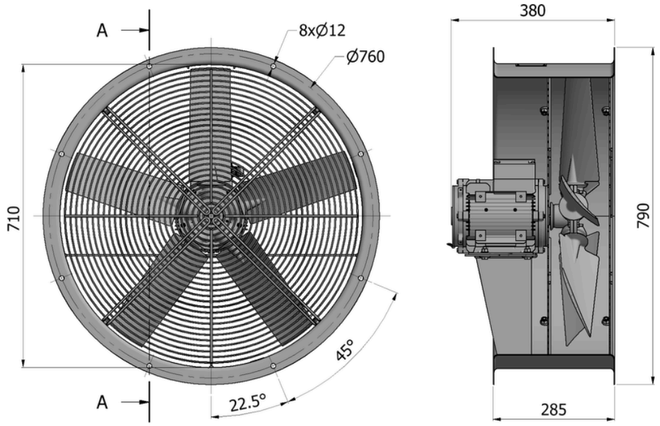
Number of Poles	6	
Type	A71C-F5	A71C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,5 A / 2,0 A	3,2 A / 1,9 A
Input Power	0,93 kW	0,96 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	75 dB(A) / 70 dB(A)	80 dB(A) / 75 dB(A)
Air Flow	4,29 m³/s	4,19 m³/s
Weight (varies by options)	38 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Performance



Dimensions



Configuration

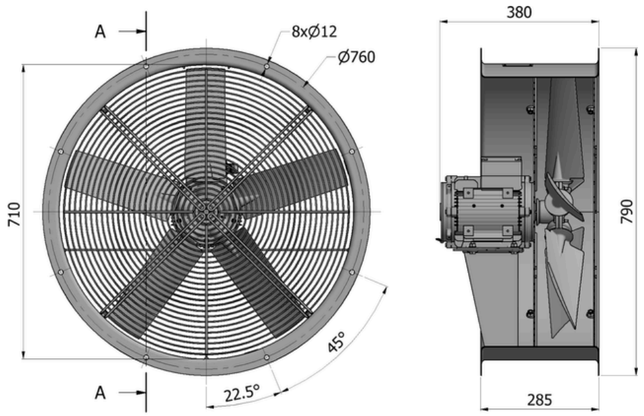
Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

BALANCED PERFORMANCE AXIAL FAN

A71C-B

Dimensions



Specification

Number of Poles	8	
Type	A71C-B5	A71C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	2,2 A / 1,3 A	2,0 A / 1,2 A
Input Power	0,48 kW	0,51 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	68 dB(A) / 63 dB(A)	73 dB(A) / 68 dB(A)
Air Flow	3,23 m³/s	3,27 m³/s
Weight (varies by options)	38 kg	

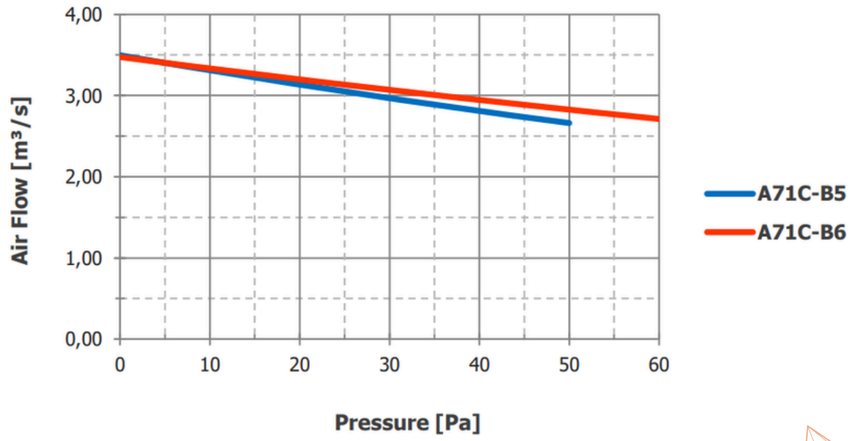
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A71C-S

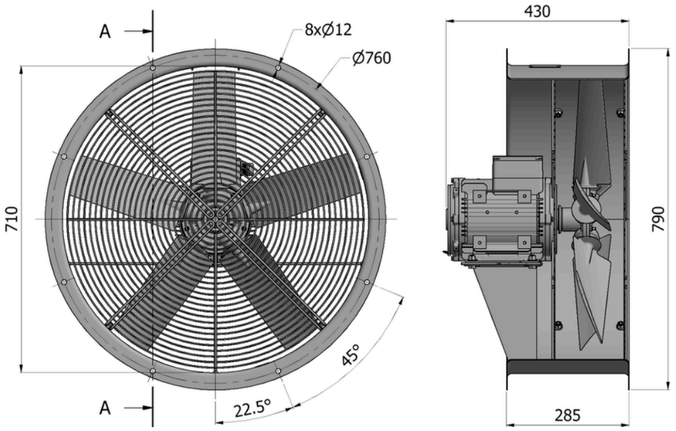
LOW NOISE AXIAL FAN

Specification

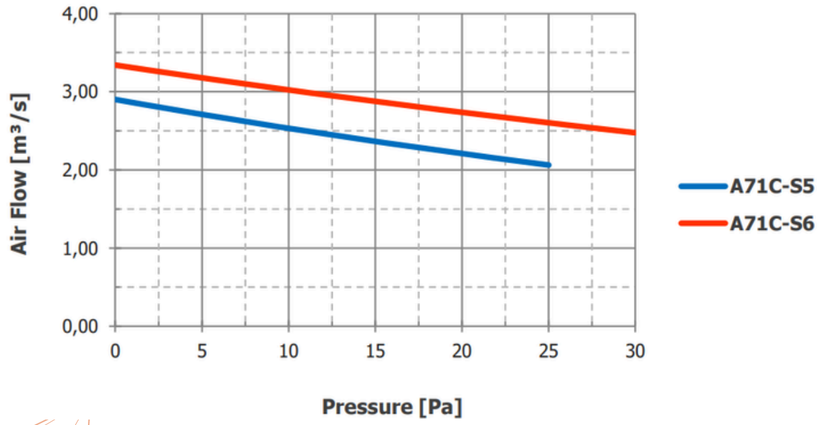
Number of Poles	12	
Type	A71C-S5	A71C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	2,7 A / 1,6 A	2,8 A / 1,6 A
Input Power	0,36 kW	0,52 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	60 dB(A) / 55 dB(A)	65 dB(A) / 60 dB(A)
Air Flow	2,38 m³/s	2,89 m³/s
Weight (varies by options)	47 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Dimensions



Performance



Configuration

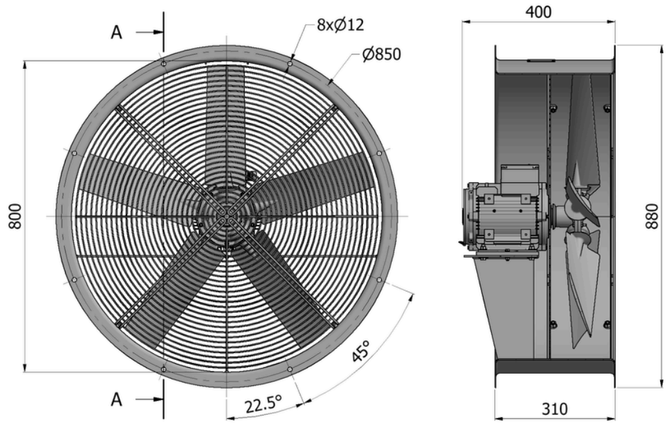
Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

FLOW OPTIMIZED AXIAL FAN

A80C-F

Dimensions



Specification

Number of Poles	6	
Type	A80C-F5	A80C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	4,6 A / 2,7 A	4,5 A / 2,6 A
Input Power	1,24 kW	1,24 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{pA} 1m/2m)	78 dB(A) / 73 dB(A)	83 dB(A) / 78 dB(A)
Air Flow	5,40 m³/s	5,66 m³/s
Weight (varies by options)	50 kg	

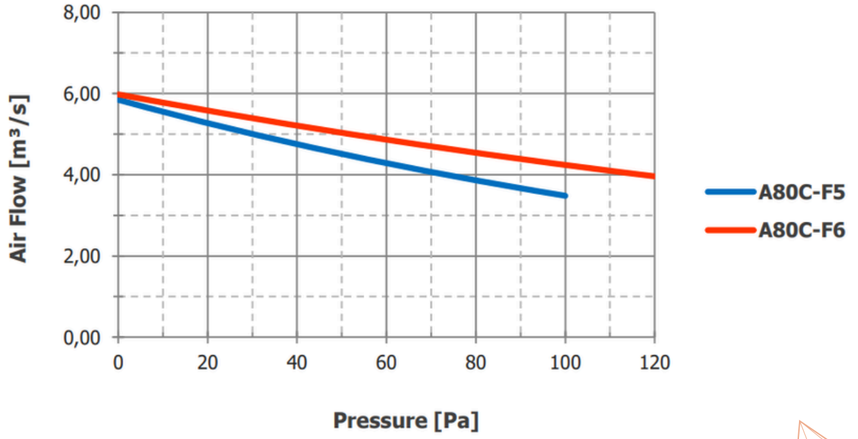
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A80C-B

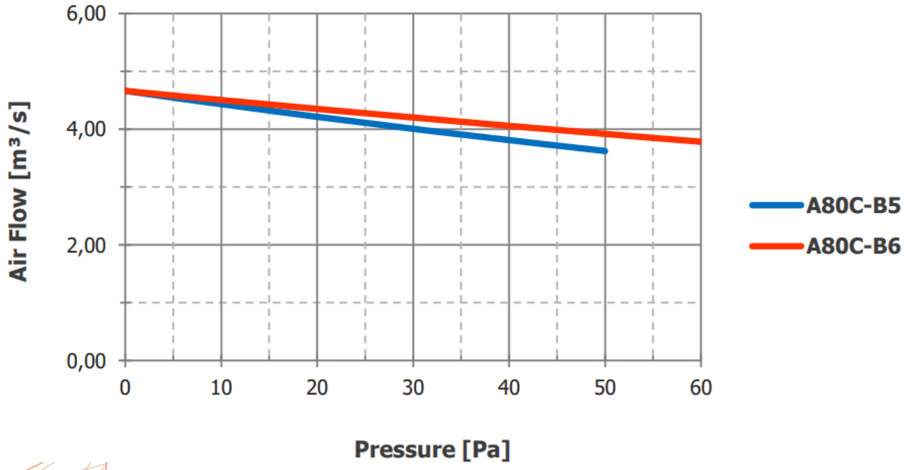
BALANCED PERFORMANCE AXIAL FAN

Specification

Number of Poles	8	
Type	A80C-B5	A80C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,1 A / 1,8 A	2,9 A / 1,7 A
Input Power	0,68 kW	0,73 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	71 dB(A) / 66 dB(A)	76 dB(A) / 71 dB(A)
Air Flow	4,33 m³/s	4,43 m³/s
Weight (varies by options)	49 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



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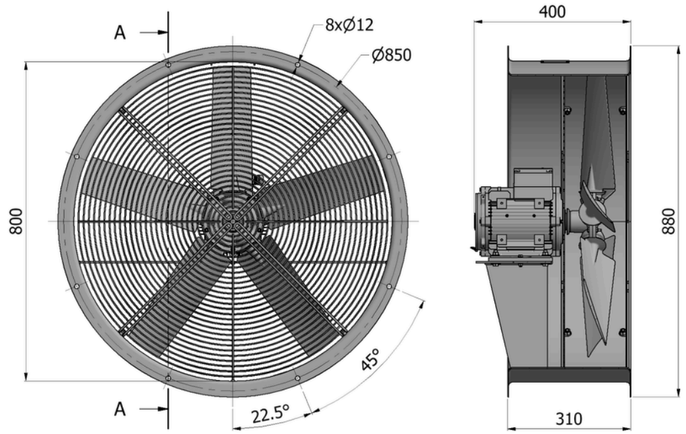


Configuration

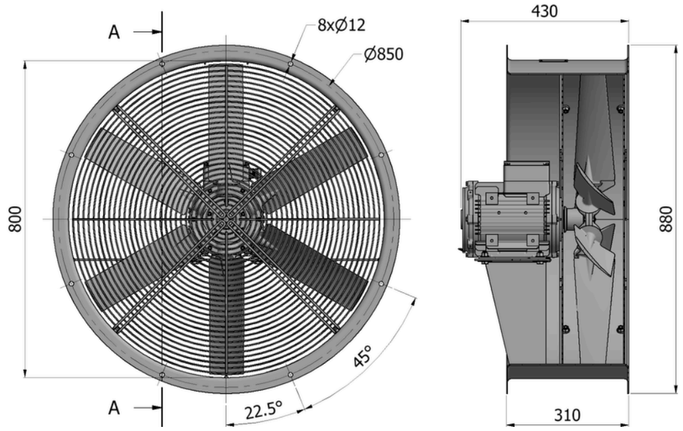
Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

LOW NOISE AXIAL FAN

A80C-S

Dimensions



Specification

Number of Poles	12	
Type	A80C-S5	A80C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	2,8 A / 1,6 A	2,9 A / 1,7 A
Input Power	0,43 kW	0,57 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	62 dB(A) / 57 dB(A)	67 dB(A) / 62 dB(A)
Air Flow	3,30 m³/s	3,79 m³/s
Weight (varies by options)	54 kg	

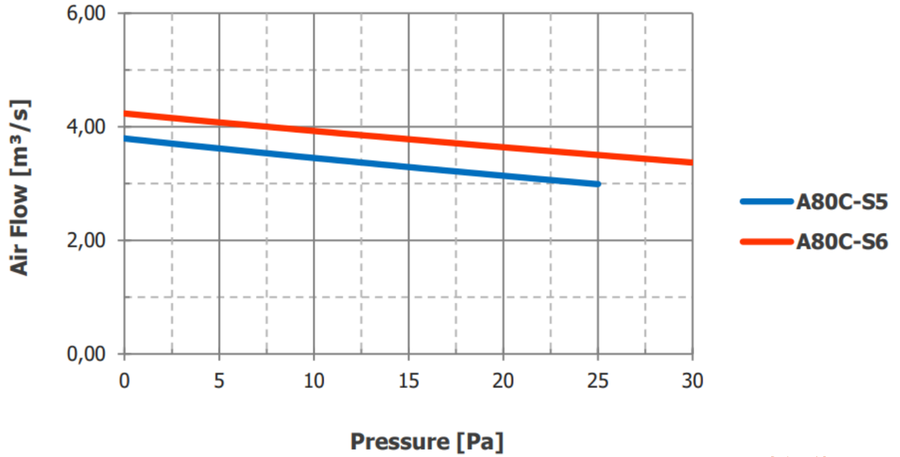
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A90C-F

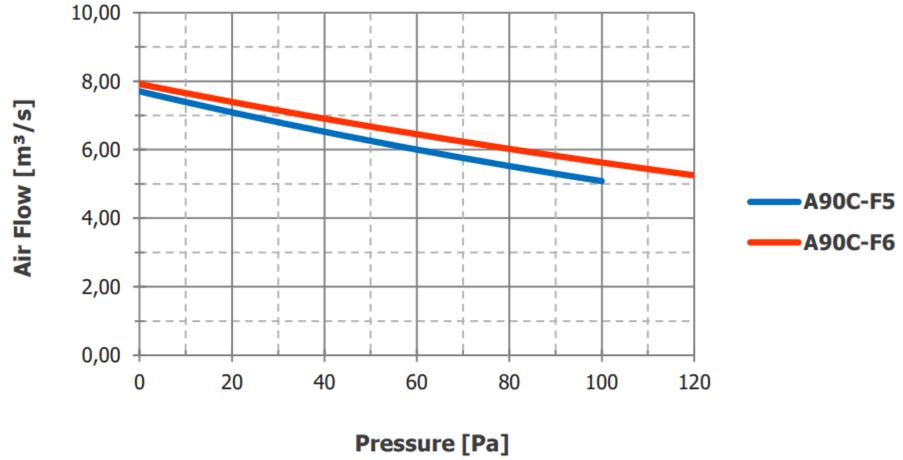
FLOW OPTIMIZED AXIAL FAN

Specification

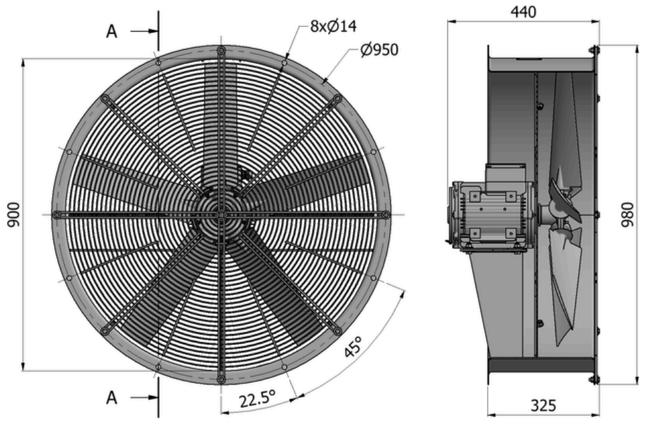
Number of Poles	6	
Type	A90C-F5	A90C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	5,8 A / 3,3 A	5,3 A / 3,1 A
Input Power	1,57 kW	1,63 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	79 dB(A) / 74 dB(A)	84 dB(A) / 79 dB(A)
Air Flow	7,23 m³/s	7,50 m³/s
Weight (varies by options)	60 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Performance



Dimensions



Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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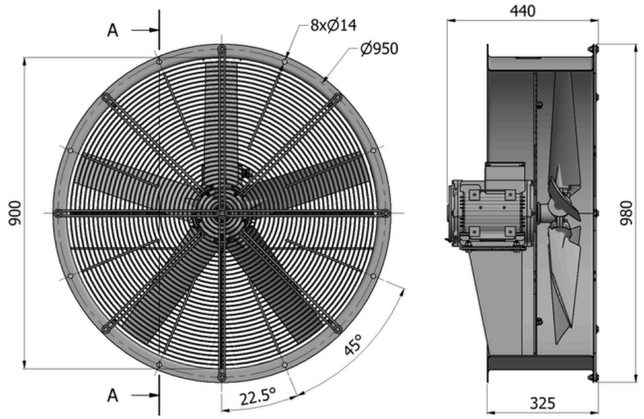
BALANCED PERFORMANCE AXIAL FAN

A90C-B

Dimensions



Specification

Number of Poles	8	
Type	A90C-B5	A90C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	4,0 A / 2,3 A	3,4 A / 2,0 A
Input Power	0,94 kW	0,89 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{pA} 1m/2m)	72 dB(A) / 67 dB(A)	77 dB(A) / 72 dB(A)
Air Flow	5,83 m³/s	5,65 m³/s
Weight (varies by options)	57 kg	

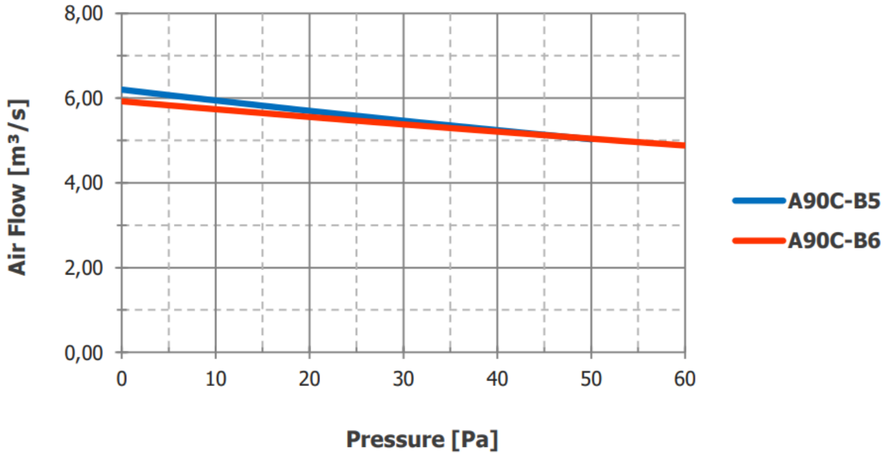
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A90C-S

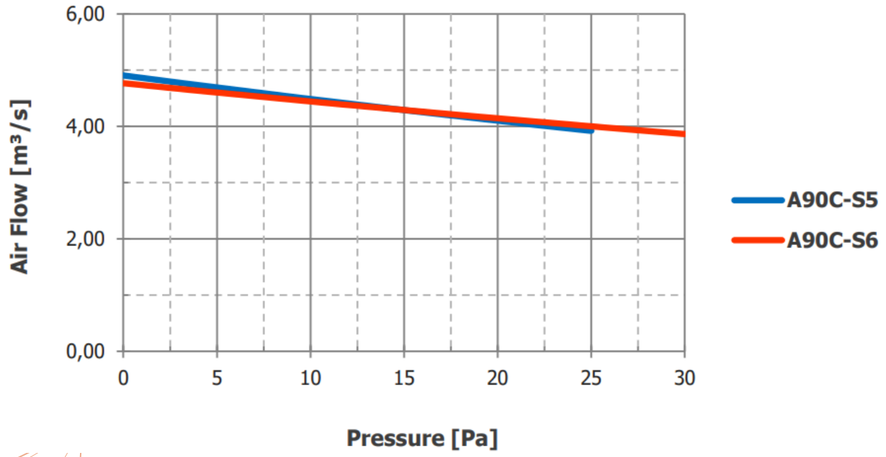
LOW NOISE AXIAL FAN

Specification

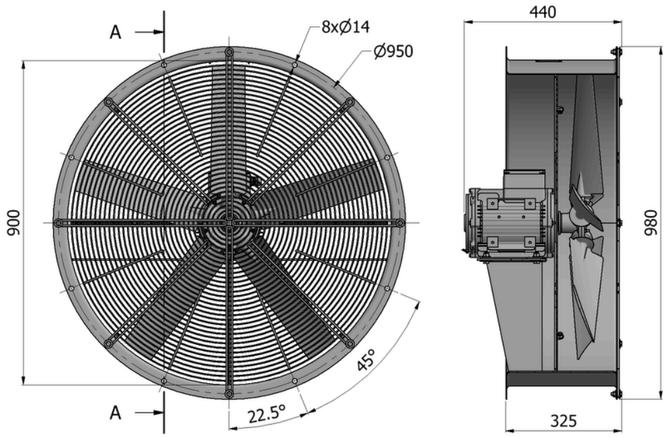
Number of Poles	12	
Type	A90C-S5	A90C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,0 A / 1,7 A	2,9 A / 1,7 A
Input Power	0,54 kW	0,56 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	63 dB(A) / 58 dB(A)	68 dB(A) / 63 dB(A)
Air Flow	4,30 m³/s	4,30 m³/s
Weight (varies by options)	60 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

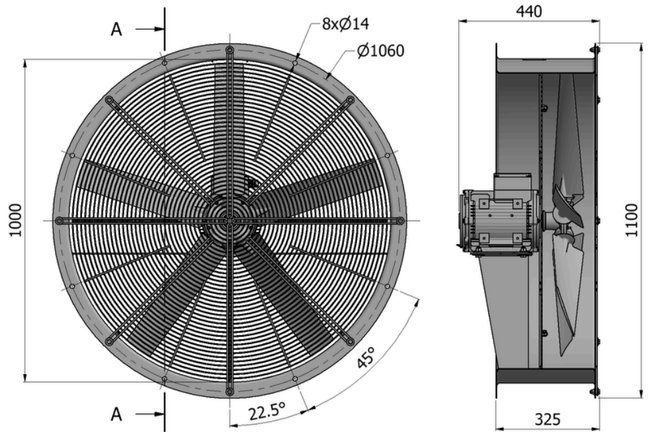
Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

FLOW OPTIMIZED AXIAL FAN

A100C-F

Dimensions



Specification

Number of Poles	6	
Type	A100C-F5	A100C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	6,1 A / 3,5 A	5,4 A / 3,2 A
Input Power	1,72 kW	1,70 kW
Speed	960 rpm	1152 rpm
Sound Pressure (L_{PA} 1m/2m)	80 dB(A) / 75 dB(A)	85 dB(A) / 80 dB(A)
Air Flow	8,77 m³/s	8,68 m³/s
Weight (varies by options)	65 kg	

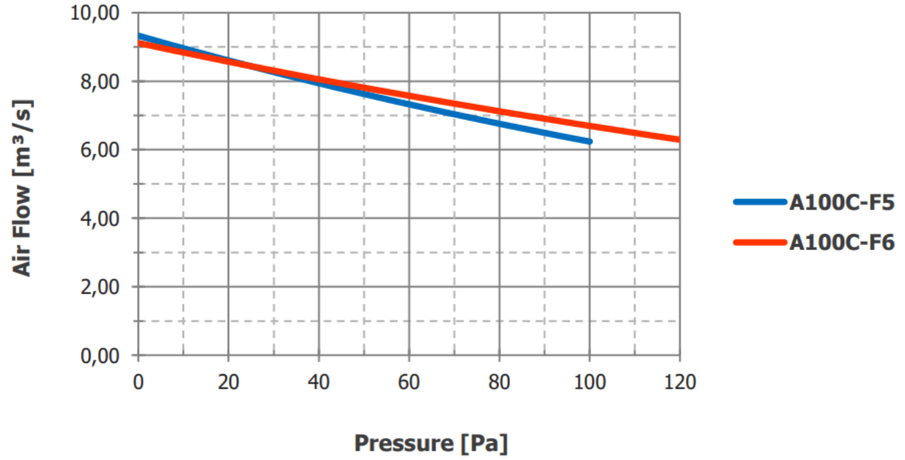
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A100C-B

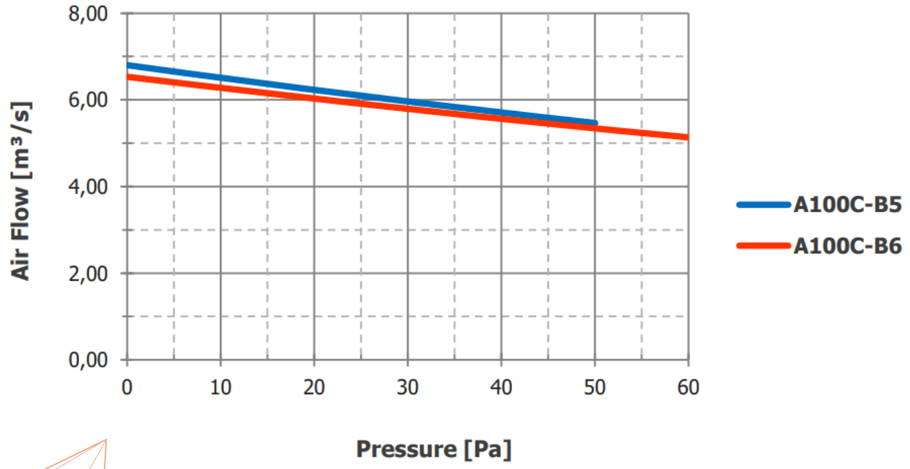
BALANCED PERFORMANCE AXIAL FAN

Specification

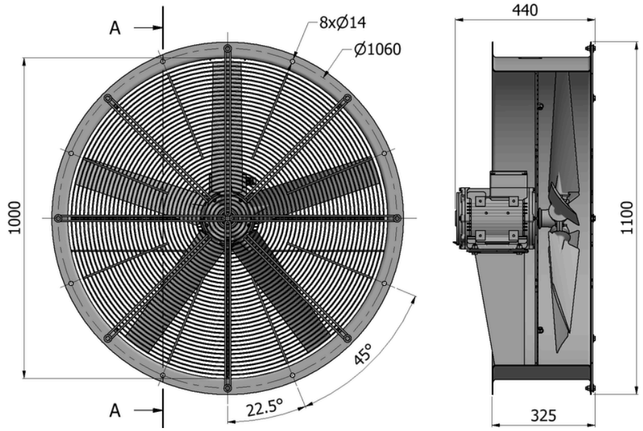
Number of Poles	8	
Type	A100C-B5	A100C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,9 A / 2,2 A	3,5 A / 2,0 A
Input Power	0,90 kW	0,96 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	73 dB(A) / 68 dB(A)	78 dB(A) / 73 dB(A)
Air Flow	6,38 m³/s	6,16 m³/s
Weight (varies by options)	62 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Performance



Dimensions



Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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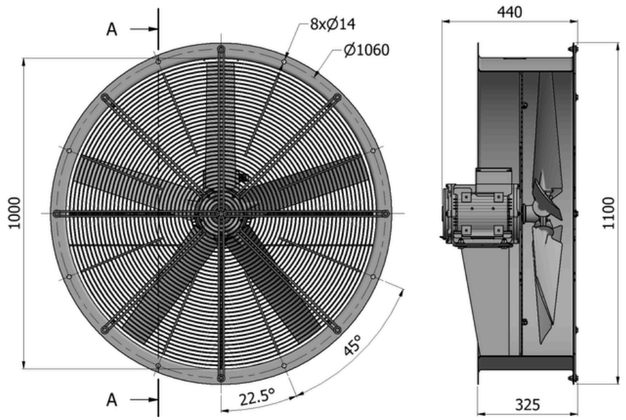
LOW NOISE AXIAL FAN

A100C-S

Dimensions



Specification

Number of Poles	12	
Type	A100C-S5	A100C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,0 A / 1,7 A	2,9 A / 1,7 A
Input Power	0,55 kW	0,59 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	64 dB(A) / 59 dB(A)	69 dB(A) / 64 dB(A)
Air Flow	5,02 m³/s	4,92 m³/s
Weight (varies by options)	65 kg	

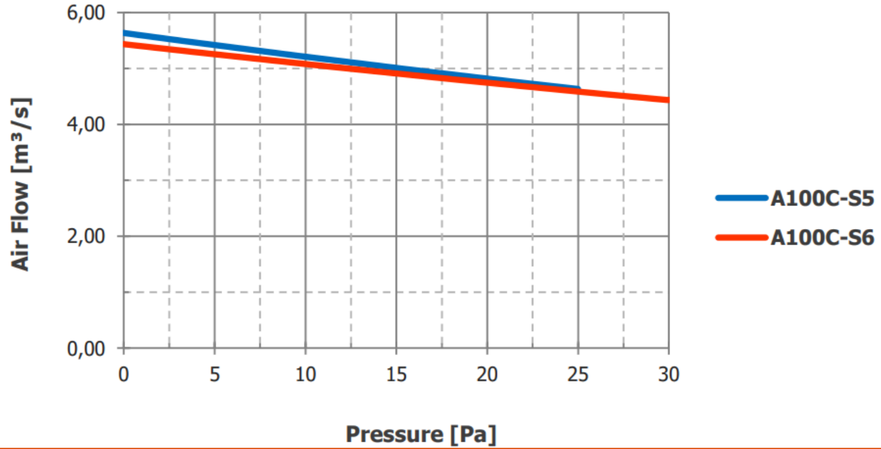
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A125C-F

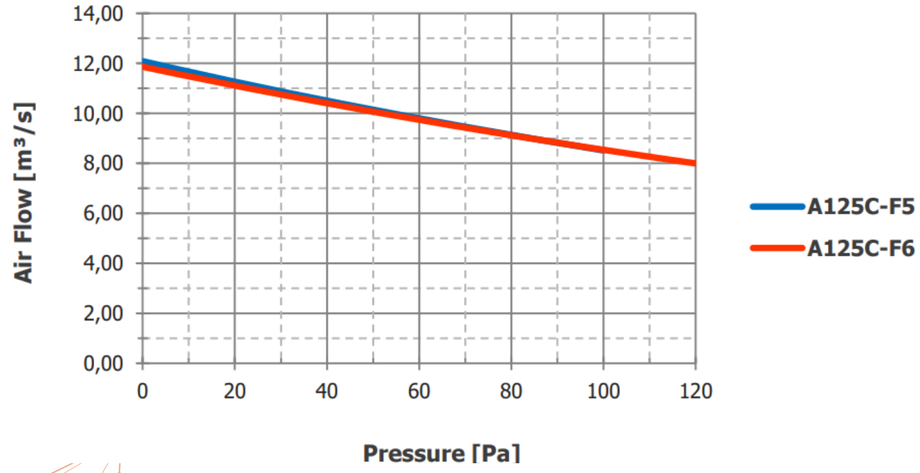
FLOW OPTIMIZED AXIAL FAN

Specification

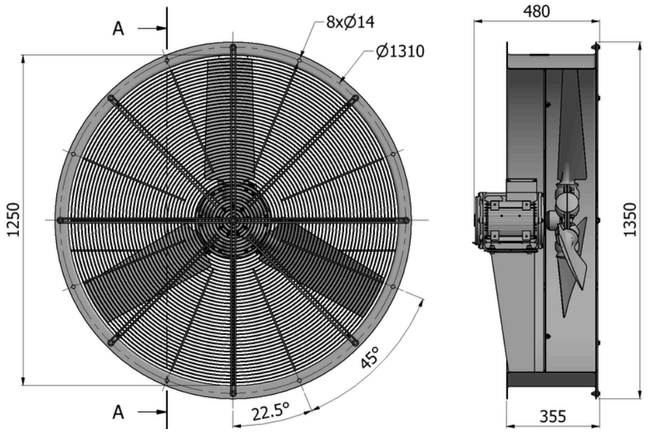
Number of Poles	8	
Type	A125C-F5	A125C-F6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	7,3 A / 4,2 A	6,5 A / 3,8 A
Input Power	1,74 kW	1,87 kW
Speed	720 rpm	864 rpm
Sound Pressure (L_{PA} 1m/2m)	77 dB(A) / 72 dB(A)	82 dB(A) / 77 dB(A)
Air Flow	11,45 m³/s	11,26 m³/s
Weight (varies by options)	95 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configuration

Performance



Dimensions



Configuration

Motor Protection Class	▯ IP55	▯ IP56	▯ IP65	▯ IP66
Wings	▯ GFR Polyamide		▯ Aluminum	
Protection Grids	▯ Rear		▯ Front	
Color (housing,motor,grids)	▯ RAL7031	▯ RAL7032	▯ RAL7033	▯ Other RAL
Operation Ambient (°C)	▯ -25~+60	▯ -25~+70	▯ -40~+60	▯ -40~+70
Corrosion Class	▯ C3	▯ C4	▯ C5	Medium/High
Tropical Environment	▯ No		▯ Yes	
Thermal Protection	▯ No		▯ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

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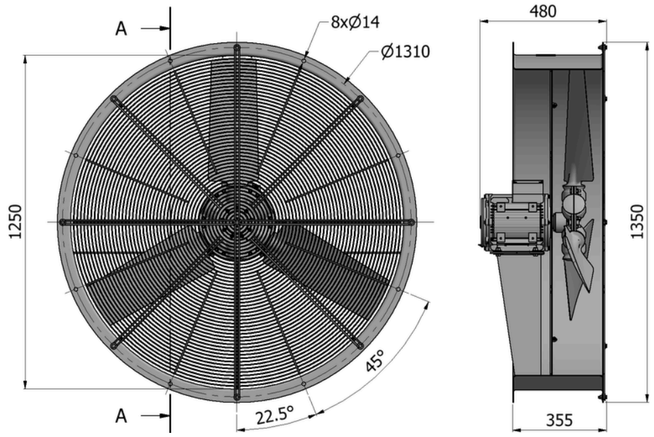
BALANCED PERFORMANCE AXIAL FAN

A125C-B

Dimensions



Specification

Number of Poles	12	
Type	A125C-B5	A125C-B6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	6,7 A / 3,8 A	6,3 A / 3,7 A
Input Power	1,12 kW	1,16 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	70 dB(A) / 65 dB(A)	75 dB(A) / 70 dB(A)
Air Flow	9,00 m³/s	8,94 m³/s
Weight (varies by options)	100 kg	

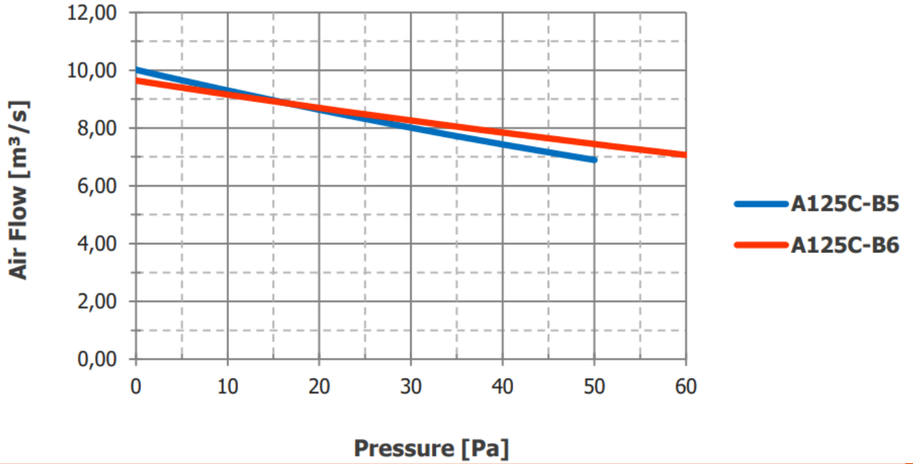
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

Performance



A125C-S

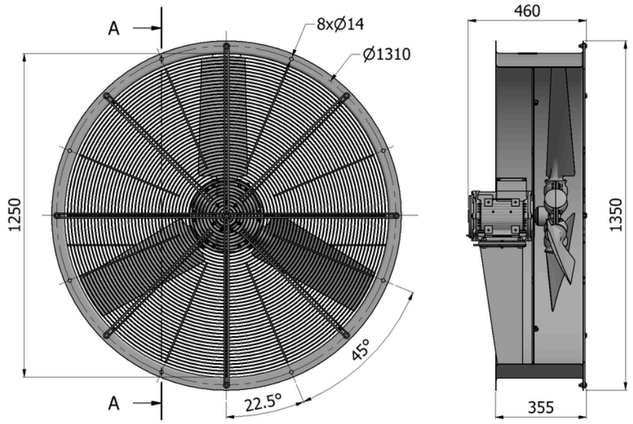
LOW NOISE AXIAL FAN

Specification

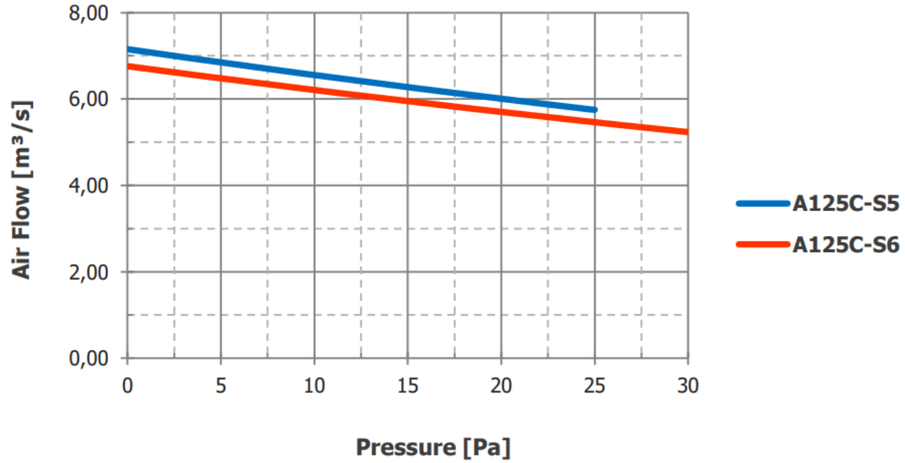
Number of Poles	12	
Type	A125C-S5	A125C-S6
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	220-240V Δ / 380-420V Y	240-280V Δ / 400-480V Y
Nominal Current	3,0 A / 1,7 A	2,9 A / 1,7 A
Input Power	0,54 kW	0,61 kW
Speed	480 rpm	576 rpm
Sound Pressure (L_{PA} 1m/2m)	67 dB(A) / 62 dB(A)	72 dB(A) / 67 dB(A)
Air Flow	6,29 m³/s	5,97 m³/s
Weight (varies by options)	89 kg	

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. SPL values at 2m are calculated by inverse square law. Declared values may change according to the requested options and configurations.

Dimensions



Performance



Configuration

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide		☐ Aluminum	
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60	☐ -25~+70	☐ -40~+60	☐ -40~+70
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High
Tropical Environment	☐ No		☐ Yes	
Thermal Protection	☐ No		☐ Yes	

Thermal protection requires an external control unit or relay to operate. Motor shall be equipped with an embeded space heater for below -25 °C ambient and tropical environment

SPECIAL APPLICATIONS

Hazardous Area

- Axial fans with ATEX certified motors
- Axial fans with IEC-Ex certified motors
- Axial fans with NEMA certified motor

Variable Speed

- Frequency - Voltage control
- Speed - Oil temperature algorithm
- Low power consumption & noise

UL Certified

- Axial fans with monophase UL certified motors
- Axial fans with triphase UL certified motors

CUSTOM SOLUTIONS

STE Technic can provide you solutions based on custom requirements and specifications. It is possible to desing and simulate axial fans with given input values. Please make selections on the below table and provide any additional information and your project specific solution will be submitted to you rapidly.

Wing Span (mm)	○ 400 ○ 460 ○ 500 ○ 520 ○ 630 ○ 710 ○ 800 ○ 900 ○ 1000 ○ 1250
Supply Frequency	○ 50 Hz ○ 60 Hz
Supply Voltage (3 phase)	
Sound Pressure Level	
Air Flow	
Motor Protection Class	○ IP55 ○ IP56 ○ IP65 ○ IP66
Operating Temperature	○ -25 ... +60 °C ○ -40 ... +60 °C ○ -25 ... +70 °C ○ -40 ... +70 °C
Protection Grids	○ At inlet ○ At outlet
Thermal Protection	○ No ○ Yes (requires external relay)
Tropical Environment	○ No ○ Yes (condensing)
Corrosion Class	○ C3 ○ C4 ○ C5 ○ CX ○ Medium ○ High ○ Very High
Color (Motor, Casing, Grids)	RAL Code :

NOTES

NOTES

NOTES

STE Proje Mühendislik Hizmetleri Tic. Ltd. Şti

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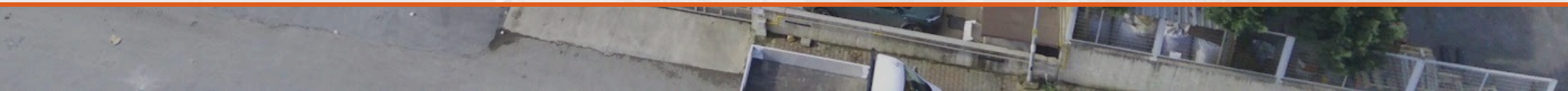

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Cross - Flow Fans

Transformer Cooling Solutions

CE ISO 9001 QUALITY ASSURANCE

CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

STE Technic designs and manufactures air forced cooling solutions for distribution and power transformers. Our cross-flow fans are engineered especially for conditions and environments of power generation, transmission and distribution sites with wide range of options.

Technical Information

- Optimized fan blades adopts advanced aerodynamic design.
- Dynamic balance achieved as G6,3.
- Fan blade is aluminum, casing and optional guards are galvanized steel.
- Fan operation ambient temperature range is -25C ~+60°C.
- Wiring terminal block is mounted on the fan.
- Optional motor and inlet guards can be installed for increased safety.

Standards & Details

Standard ISO 5801, IEC 60034, IEC 60335-2-80

Balance Quality G6,3 according to ISO 1940-1

Tolerance Class 2 according to DIN 24166

Mounting Position Motor on right or motor on left according to order

Motor High efficiency motor

Winding Insulation Class H or Class F

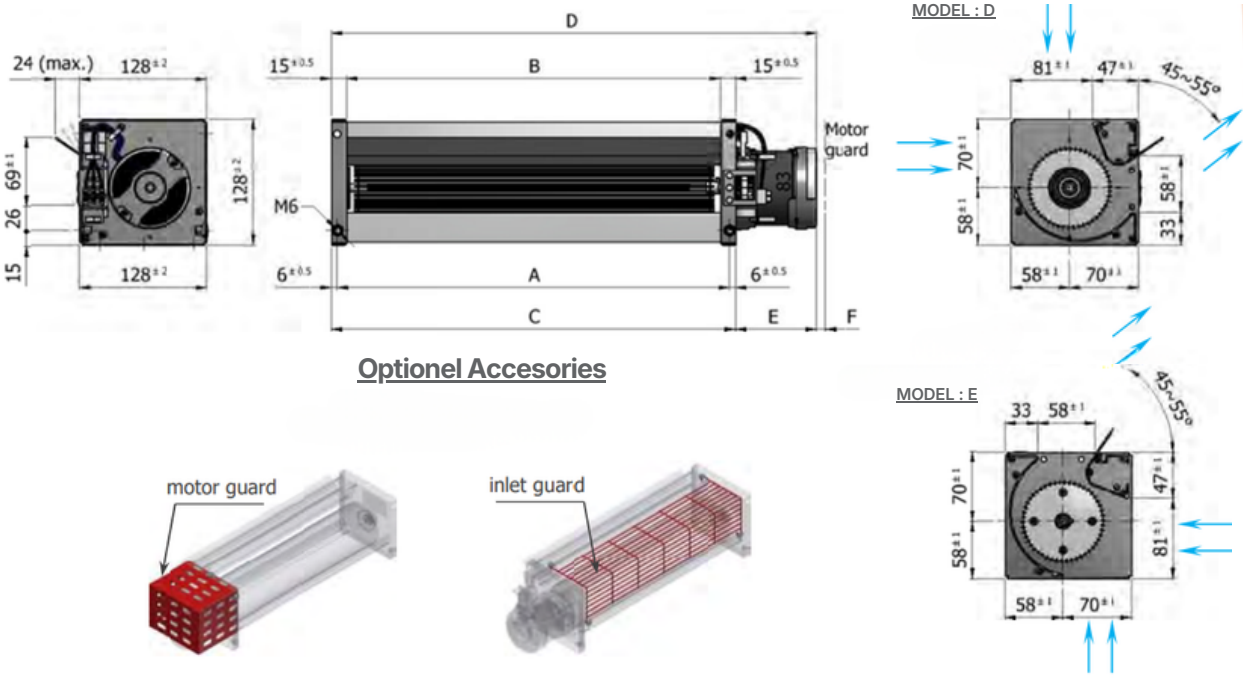
Winding Temperature Rise Class B

Operation Indoor

CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF80 50 HZ OPERATION

Dimensions



Optionel Accesories

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
CF80-180S	214	196	226	301,5	75,5	10
CF80-360S	394	376	406	481,5	75,5	10
CF80-500S	534	516	546	621,5	75,5	10
CF80-180H	214	196	226	306,5	80,5	5
CF80-360H	394	376	406	486,5	80,5	5
CF80-500H	534	516	546	626,5	80,5	5

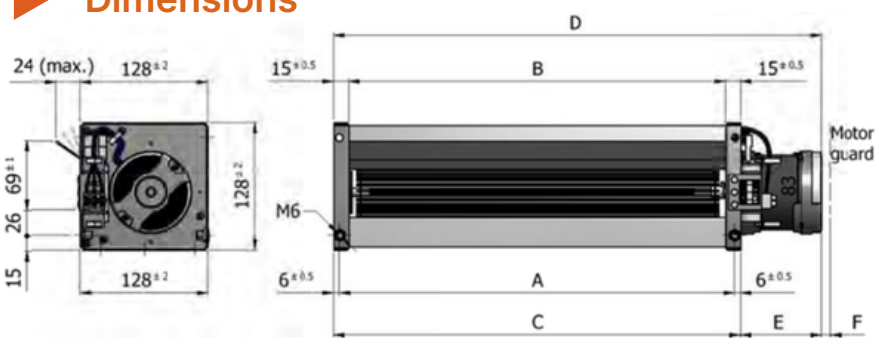
Performance Data

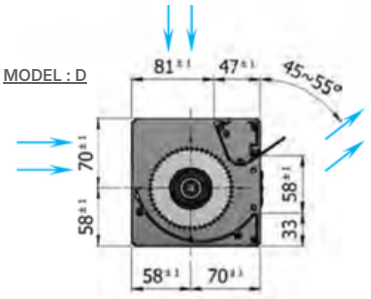
Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m³/h]	Current [A]	Sound LpA@1m [dB(A)]	Weight [kg]
CF80-180S	220~240VAC 50Hz Single Phase	95	2600	480	0,45	60	3,0
CF80-360S		120	2350	880	0,55	60	3,5
CF80-500S		135	2100	1060	0,60	60	4,0
CF80-180H	220~240VAC 50Hz Single Phase	110	2800	580	0,50	62	3,3
CF80-360H		140	2700	1000	0,60	65	3,8
CF80-500H		160	2650	1400	0,66	65	4,3

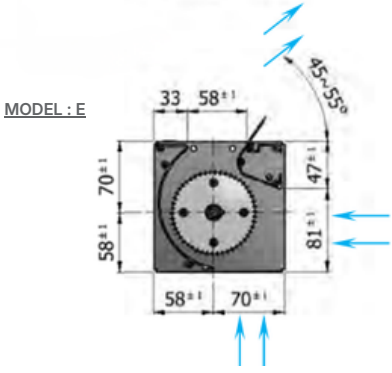
CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF80 60 HZ OPERATION

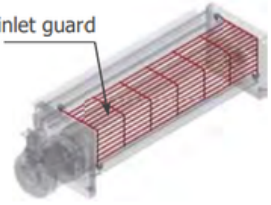
Dimensions







Optionel Accesories



Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
CF80-180H.60	214	196	226	306,5	80,5	5
CF80-360H.60	394	376	406	486,5	80,5	5
CF80-500H.60	534	516	546	626,5	80,5	5

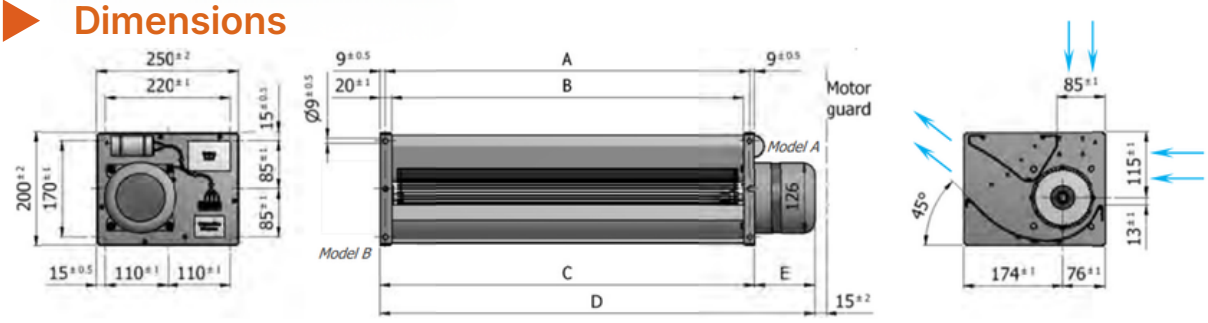
Performance Data

Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m³/h]	Current [A]	Sound LpA@1m [dB(A)]	Weight [kg]
CF80-180H.60	220~240VAC 60Hz Single Phase	145	3200	660	0,65	69	3,3
CF80-360H.60		190	3000	1200	0,85	71	3,8
CF80-500H.60		205	2800	1550	0,90	69	4,3

CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF100 50 HZ OPERATION

Dimensions



Optionel Accesories

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF100-620LN	642	620	660	765	105
CF100-620S	642	620	660	765	105
CF100-620M	642	620	660	805	145
CF100-620H	642	620	660	825	165
CF100-720LN	742	720	760	865	105
CF100-720S	742	720	760	865	105
CF100-720H	742	720	760	905	145
CF100-820LN	842	820	860	965	105
CF100-820S	842	820	860	965	105
CF100-820H	842	820	860	1005	145

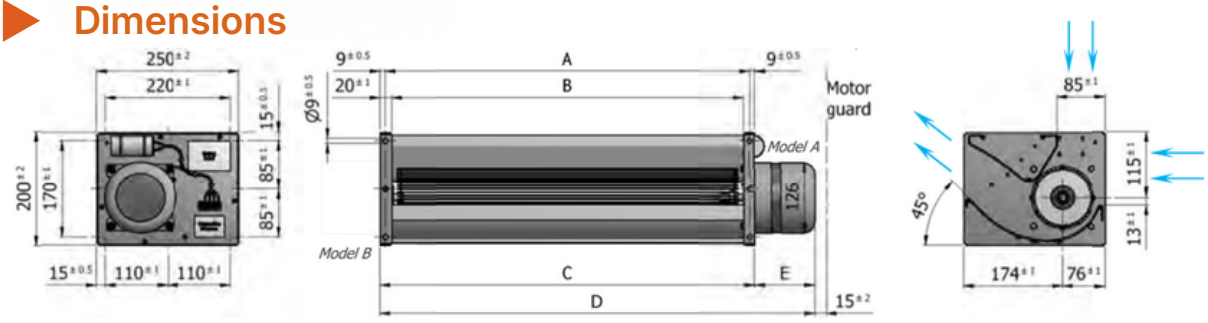
Performance Data

Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m³/h]	Current [A]	Sound LpA@1m [dB(A)]	Weight [kg]
CF100-620LN	220~240VAC 50Hz Single Phase	150	930	1150	0,8	53	8,3
CF100-620S		240	1430	1600	1,6	63	8,3
CF100-620M		470	1900	2200	2,2	69	11,3
CF100-620H		700	2600	2700	3,2	79	12,8
CF100-720LN	220~240VAC 50Hz Single Phase	150	900	1300	0,8	53	8,5
CF100-720S		240	1400	1900	1,6	63	8,5
CF100-720H		490	1900	2500	2,3	69	11,5
CF100-820LN	220~240VAC 50Hz Single Phase	160	930	1500	0,8	53	8,7
CF100-820S		240	1400	2150	1,6	64	8,7
CF100-820H		570	1900	3100	2,5	70	11,7

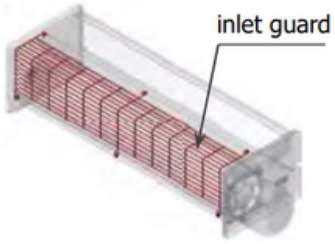
CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

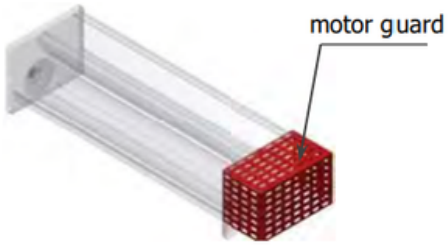
CF 100 60 HZ OPERATION

Dimensions



Optionel Accesories





Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF100-620LN.60	642	620	660	765	105
CF100-620S.60	642	620	660	765	105
CF100-720LN.60	742	720	760	865	105
CF100-720S.60	742	720	760	865	105
CF100-820LN.60	842	820	860	965	105
CF100-820S.60	842	820	860	965	105

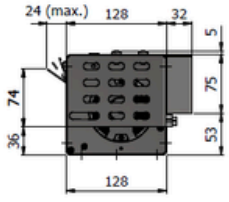
Performance Data

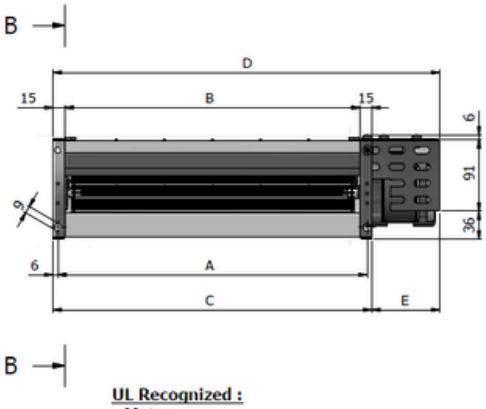
Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m³/h]	Current [A]	Sound LpA@1m [dB(A)]	Weight [kg]
CF100-620LN.60	220~240VAC 60Hz Single Phase	150	1090	1380	0,8	57	8,3
CF100-620S.60		240	1660	1900	1,5	67	8,3
CF100-720LN.60	220~240VAC 60Hz Single Phase	150	1100	1600	0,8	57	8,5
CF100-720S.60		250	1670	2350	1,5	67	8,5
CF100-820LN.60	220~240VAC 60Hz Single Phase	160	1100	1800	0,8	58	8,7
CF100-820S.60		250	1670	2600	1,5	68	8,7

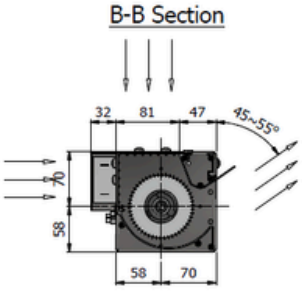
CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF80 UL SERIES

Dimensions







Connection

Green Yellow	Blue	Black White	Brown White
PE	L	N	---

UL Recognized :
- **Motor**
- **Terminal block**
- **Capacitor**
- **Cables**

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF80-180UL 110V	214	196	226	312,5	86,5
CF80-360UL 110V	394	376	406	492,5	86,5
CF80-500UL 110V	534	516	546	632,5	86,5
CF80-180UL 220V	214	196	226	312,5	86,5
CF80-360UL 220V	394	376	406	492,5	86,5
CF80-500UL 220V	534	516	546	632,5	86,5

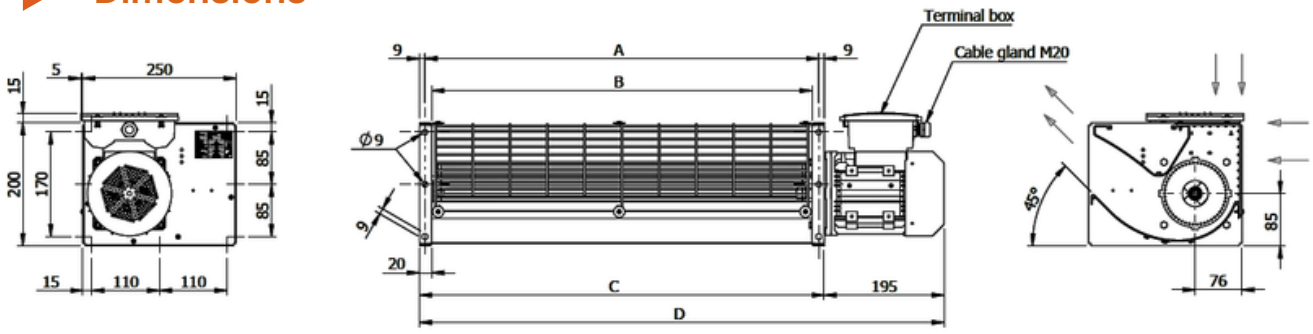
Performance Data

Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m3/h]	Current [A]	Sound Lpa@1m [db(A)]	Weight [kg]
CF80-180UL 110V	110~120VAC 60Hz Single Phase	120	2850	580	1,20	63	6,3
CF80-360UL 110V		140	2800	1100	1,30	65	6,7
CF80-500UL 110V		160	2350	1300	1,55	66	7,0
CF80-180UL 220V	220~240VAC 60Hz Single Phase	120	2850	580	0,60	63	6,3
CF80-360UL 220V		140	2800	1100	0,65	65	6,7
CF80-500UL 220V		160	2350	1300	0,75	66	7,0

CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF100 UL SERIES

Dimensions



Model	A [mm]	B [mm]	C [mm]	D [mm]
CF100-620.UL 110V	642	620	660	855
CF100-720.UL 110V	742	720	760	855
CF100-820.UL 110V	842	820	860	855
CF100-620.UL 220V	642	620	660	855
CF100-720.UL 220V	742	720	760	955
CF100-820.UL 220V	842	820	860	1055

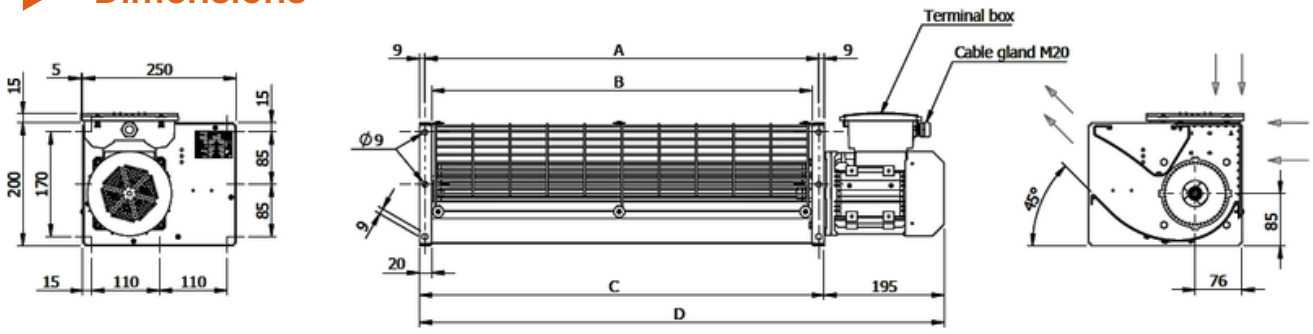
Performance Data

Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m3/h]	Current [A]	Sound Lpa@1m [db(A)]	Weight [kg]
CF100-620.UL 110V	110~120VAC 60Hz Single Phase	300	1750	2200	3,10	68	14,7
CF100-720.UL 110V		310	1750	2600	3,10	69	15,2
CF100-820.UL 110V		340	1750	2900	3,20	70	15,7
CF100-620.UL 220V	220~240VAC 60Hz Single Phase	300	1750	2200	1,40	68	14,7
CF100-720.UL 220V		310	1750	2600	1,50	69	15,2
CF100-820.UL 220V		340	1750	2900	1,50	70	15,7

CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF100 IP55 SERIES

Dimensions



Model	A [mm]	B [mm]	C [mm]	D [mm]
CF100-620.A2K	642	620	660	855
CF100-620.A4K	642	620	660	855
CF100-720.A4K	742	720	760	955
CF100-820.A4K	842	820	860	1055

Performance Data

Model	Supply Power	Input Power [W]	Speed [rpm]	Air Flow [m3/h]	Current [A]	Sound Lpa@1m [db(A)]	Weight [kg]
CF100-620.A2K	220~240VAC 50Hz Single Phase	770	2840	2800	3,30	81	13,0
CF100-620.A4K		240	1440	1600	1,50	68	14,7
CF100-720.A4K		270	1440	1900	1,60	71	15,2
CF100-820.A4K		280	1440	2150	1,60	72	15,7

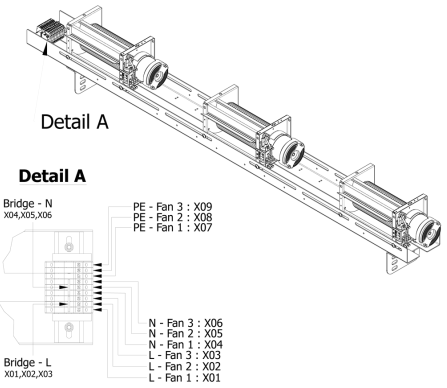
CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF80 BAR ASSY MODEL D

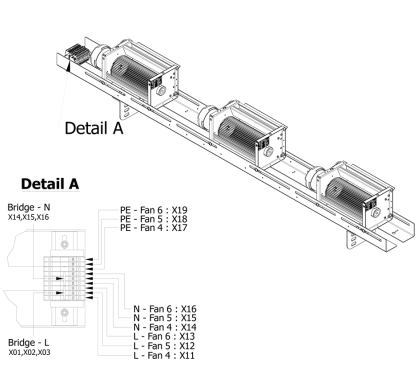
Dimensions

Fans can slide left and right.

Type L



Type R



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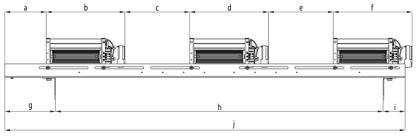

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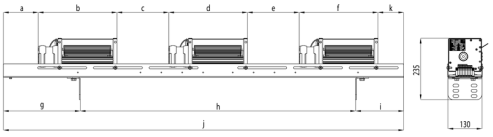


Model	a	b	c	d	e	f	g	h	i	j	k
CF80-180 BAR L	158,7	301,5	248,5	301,5	248,50	301,5	194,2	1255	84,2	1533	-
CF80-180 BAR R	133,2	301,5	198,5	301,5	198,50	301,5	294,2	1055	184,2	1533	98,7
CF80-360 BAR L	278,7	481,5	188,5	481,5	118,5	481,5	454,3	1255	344,3	2053	-
CF80-360 BAR R	203,3	481,5	118,5	481,5	118,5	481,5	454,3	1255	344,2	2053	168,7
CF80-500 BAR L	228,7	621,5	128,5	621,5	128,5	621,5	474,2	1555	364,2	2393	-
CF80-500 BAR R	153,3	621,5	128,5	621,5	128,5	621,5	474,2	1555	364,3	2393	118,7

Fan Model Options

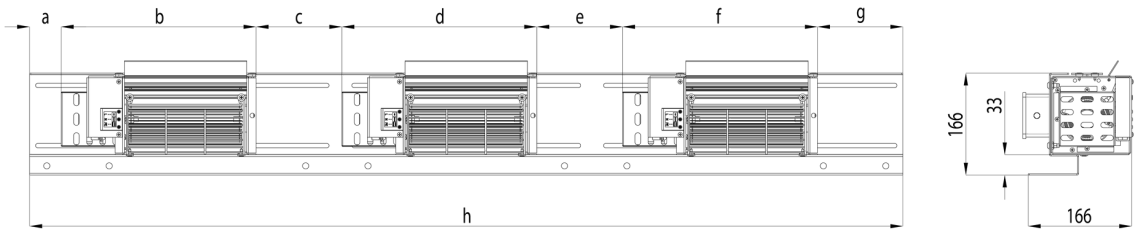
Model	PERFORMANCE DATA				
CF80-180 BAR	CF80-180S	CF80-180H	CF80-180H60	CF80-180UL / 110V	CF80-180UL / 220V
CF80-360 BAR	CF80-360S	CF80-360H	CF80-360H60	CF80-360UL / 110V	CF80-360UL / 220V
CF80-500 BAR	CF80-500S	CF80-500H	CF80-500H60	CF80-500UL / 110V	CF80-500UL / 220V

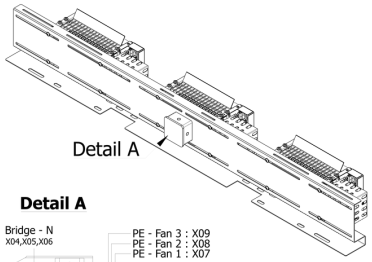
CROSS - FLOW FANS FOR DRY TYPE TRANSFORMERS

CF80 BAR ASSY MODEL E

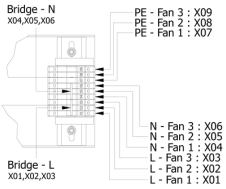
Dimensions

Fans can slide left and right.





Detail A



Model	a	b	c	d	e	f	g	h
CF80-180 BAR FTS1400	50,5	312,5	137,5	312,5	137,50	312,5	194,2	1400
CF80-180 BAR FTS1600	50,5	312,5	237,5	312,5	237,5	312,5	294,2	1600
CF80-360 BAR FTS1800	-	492,5	157,5	492,5	157,5	492,5	454,3	1800
CF80-500 BAR FTS2300	40,5	632,5	117,5	632,5	117,5	632,5	454,3	2300

Fan Model Options

Model	PERFORMANCE DATA				
CF80-180 BAR	CF80-180S	CF80-180H	CF80-180H60	CF80-180UL / 110V	CF80-180UL / 220V
CF80-360 BAR	CF80-360S	CF80-360H	CF80-360H60	CF80-360UL / 110V	CF80-360UL / 220V
CF80-500 BAR	CF80-500S	CF80-500H	CF80-500H60	CF80-500UL / 110V	CF80-500UL / 220V

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ADVANCED
TRANSFORMER
COOLING SOLUTIONS

Innovative cooling solutions developed for modern power transformer applications.

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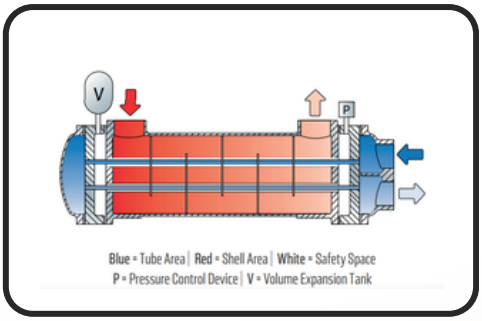
TRANSFORMER COOLING SOLUTIONS

EXTRA SAFETY DOUBLE TUBE HEAT EXCHANGER

Shell & Tube OFWF coolers were designed to dissipate the heat generated by the transformer losses. In order to eliminate the risk of leakage from water to oil,doubletube STE Shell & Tube exchangers are the key solution. Design of the exchangers can be done upon the design of the transformer

There are 2 layer of tubes which creates a space that is filling with water/coolant if there is leakage on the inner tube. With this, it is possible to detect the leakage by sensing the water/coolant or the pressure before it is mixing to the transformer oil.

STE Shell & Tube exchangers are optimized for transformer operation with its extra safety.
To design the **OFWF** coolers; oil temperature rise, oil type, transformer losses, water/coolant type, flow rate, temperature; corrosion class requirement, environmental details has to be given. Also oil pump can be selected and provided by **STE.**



TRANSFORMER COOLING SOLUTIONS

EXTRA SAFETY DOUBLE WALL PLATE HEAT EXCHANGER

Plate Exchanger OFWF coolers were designed to dissipate the heat generated by the transformer losses. STE Double-Wall OFWF Plate Exchangers were designed to prevent mixture of oil and water in case of a leakage by implementing double-wall plates. In case of leakage, water will go through the plates and an alarm might be generated by built-in sensor.

There are 2 layer of wall which creates a space that is filling with water/coolant if there is leakage on the inner wall. With this, it is possible to detect the leakage by sensing the water/coolant or the pressure before it is mixing to the transformer oil.

STE Double Wall Plate Exchangers are optimized for transformer operation with its extra safety.

To design the OFWF coolers; oil temperature rise, oil type, transformer losses, water/coolant type, flow rate, temperature; corrosion class requirement, environmental details has to be given. Also oil pump can be selected and provided by STE.

TRANSFORMER COOLING SOLUTIONS

EXTRA SAFETY BRAZED HEAT EXCHANGER

STE Double-Wall OFWF Brazed Exchangers were designed to prevent mixture of oil and water in case of a leakage by implementing double wall plates. In case of leakage, water will go through the plates and an alarm might be generated by built-in sensor.

There are 2 layer of wall which creates a space that is filling with water/coolant if there is leakage on the inner wall. With this, it is possible to detect the leakage by sensing the water/coolant or the pressure before it is mixing to the transformer oil.

STE brazed heat exchangers are especially designed for renewables and wind turbines due to their compact and space-efficient design.

To design the OFWF coolers; oil temperature rise, oil type, transformer losses, water/coolant type, flow rate, temperature; corrosion class requirement, environmental details has to be given. Also oil pump can be selected and provided by STE.

TRANSFORMER COOLING SOLUTIONS

OFAF - TRANSFORMER OIL TO AIR COOLERS

STE OFAF Coolers were designed to dissipate the heat generated by the transformer losses to air. System can be designed to withstand the challenging environment conditions for a long term lifetime.

By applying STE - OFAF coolers, transformer radiator can be removed and overall size can be reduced. Also oil and tank cost can be decreased.

STE OFAF Coolers might be made of stainless steel, copper or aluminum. To design the OFAF coolers, oil temperature rise, oil type, transformer losses, ambient temperature, corrosion class requirement, environmental details has to be given. Also oil pump can be selected and provided by STE.

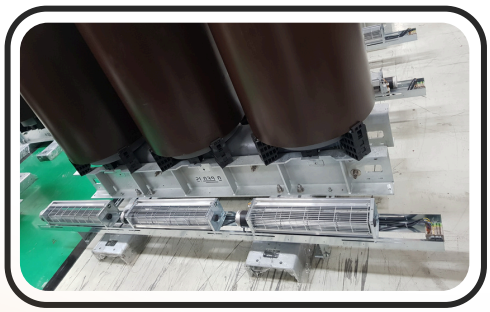
TRANSFORMER COOLING SOLUTIONS

ONAF & ANAF - TRANSFORMER COOLING FANS

STE Fans were designed to dissipate the heat generated by the transformer losses. System can be designed to withstand the challenging environment conditions for a long term lifetime.

Axial fans are used on oil-immersed and power transformers by mounting on radiators to improve heat transfer, increase cooling efficiency, and enable higher power loading while maintaining safe operating temperatures.

Cross flow fans are used in dry-type transformers to improve air circulation, enabling more effective cooling and better heat distribution, which helps maintain safe operating temperatures and supports higher loading capacity.



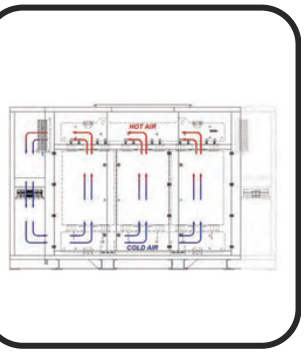
TRANSFORMER COOLING SOLUTIONS

AFWF - DRY TYPE TRANSFORMER WATER COOLERS

STE AFWF Coolers were designed to dissipate the heat generated by the transformer losses. System can be designed to withstand the challenging environment conditions for a long term lifetime. Leakage dedection system can be integrated for increased safety.

By using STE AFWF coolers dry type transformers can achieve up to IP55 protection class with a totally closed enclosure independent from the environment. Only supply of coolant and energy, transformers can be operated in harsh conditions like offshore, marine, mines and tropical areas.

STE AFWF Coolers might be made of stainless steel, titanium, copper or aluminum. As coolant; water, sea water, glycol added water, etc. can be used. To design the AFWF coolers, transformer losses, ambient temperature, corrosion class requirement, environmental details has to be given. Also coolant flow rate, temperature and pressure levels has to be decided.



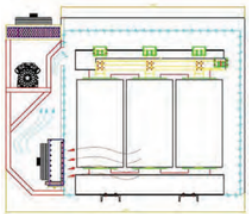
TRANSFORMER COOLING SOLUTIONS

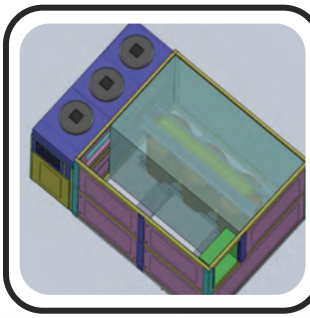
AFRF – DRY TYPE TRANSFORMER REFRIGERANT COOLING

STE AFRF Coolers were designed to dissipate the heat generated by the transformer losses. System can be designed to withstand the challenging environment conditions for a long term lifetime.

By using STE patented AFRF coolers dry type transformers can achieve upto IP55 protection class with a totally closed enclosure independent from the environment. Without supply of anything, transformers can be operated in harsh conditions like o shore, marine, mines and tropical. It is a self opretad standalone system

STE AFRF coolers might be made of stainless steel, copper or aluminum. To design the AFRF coolers, transformer losses, ambient temperature, corrosion class requirement, environmental details has to be given.





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EC MOTOR DRIVEN COOLING FAN

ADVANCED EC FAN TECHNOLOGY

The global industrial landscape demands efficiency, intelligence, and unwavering resilience. At STE Technic, we merge years of fluid dynamics expertise with the future of motor technology: Electronically Commutated (EC). Our advanced EC Axial Fan Series isn't just a component; it's an intelligent air management system, designed to redefine performance in the most challenging applications—from transformer cooling application to data center cooling and industrial process ventilation.

UNMATCHED **EFFICIENCY & DIRECTIVE** COMPLIANCE

Electronic Control (EC)

Integrated electronics enable infinitely variable speed control (0-10V), ensuring the fan runs at the precise level needed, drastically reducing power consumption and noise.

Highest Efficiency

Achieve up to 70% energy savings compared to conventional AC motor fans, delivering a remarkable return on investment.

ERP Directive Compliance

Fully compliant and often exceeding the latest ERP (Energy-Related Products) Directives. This ensures future-proof operation, legal conformity, and significant carbon footprint reduction for your entire system.

Low Noise

By intelligently adjusting to lower, demand-matched speeds, our EC fans drastically reduce aerodynamic noise, ensuring whisper-quiet operation and eliminating the need for costly external soundproofing.

Certification: Our EC motors has UL certification and CE marking. Complies to EN60335-1 and IEC60034-1

ROBUSTNESS & RESILIENCE FOR THE EXTREMES

IP Protection	Available with up to IP66 protection, making the series impervious to dust, moisture, and high-pressure water jets.
Wide Temperature Range	Engineered to operate flawlessly in ambient temperatures from -40°C to +70°C, handling frozen climates and intense heat with equal reliability.
High Corrosion Endurance	Up to C5-High Durability corrosion class is applicable.

STE Technic

Axial Fan Series

Axial Fans – Ø500 mm

The Ø500 mm EC axial fan series is designed to deliver high-efficiency airflow performance with electronically controlled brushless motor technology. Compact in size and flexible in operation, the series provides reliable cooling performance for a wide range of industrial applications.

A50C-3EC

Ø500 mm / 3-Phase

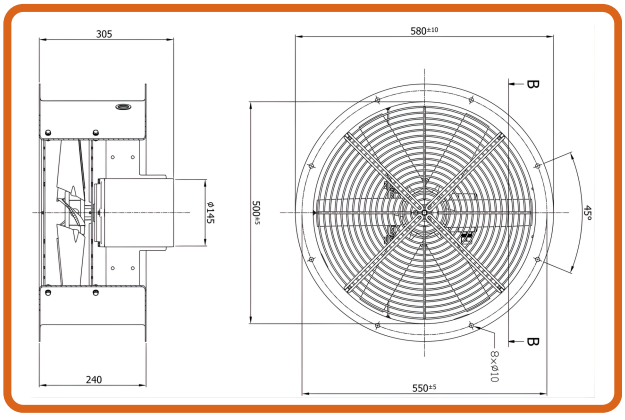
Compact and efficient EC fan solution for single-phase operating requirements.

Air Performance

Supply DC Voltage	Speed	Current	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	1,3 A	724 W	9380 m3/h	79 db(A)
7,8 V	1440 rpm	0,8 A	372 W	7560 m3/h	74 db(A)
5,1 V	960 rpm	0,3 A	124 W	4800 m3/h	64 db(A)
3,7 V	720 rpm	0,2 A	48 W	3500 m3/h	55 db(A)
2,9 V	576 rpm	0,2 A	20 W	2900 m3/h	52 db(A)
2,3 V	480 rpm	0,1 A	15 W	2100 m3/h	48 db(A)
1,7 V	360 rpm	0,1 A	10 W	1400 m3/h	44 db(A)

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Dimensions



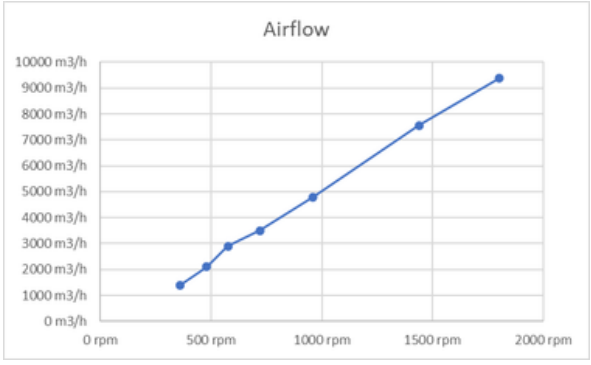
Motor Protection Class

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide	☐ Aluminum		
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60		☐ -40~+60	
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High

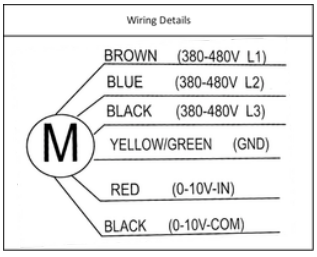
Ec Motor Specifations

EC Motor Power	0,75kW	
Type	A50C-3EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	380-480V	380-480V

Airflow Curve



Wiring Details



STE Technic

Axial Fan Series

Axial Fans – Ø500 mm

The Ø500 mm EC axial fan series is designed to deliver high-efficiency airflow performance with electronically controlled brushless motor technology. Compact in size and flexible in operation, the series provides reliable cooling performance for a wide range of industrial applications.

A50C-1EC

Ø500 mm / 1-Phase

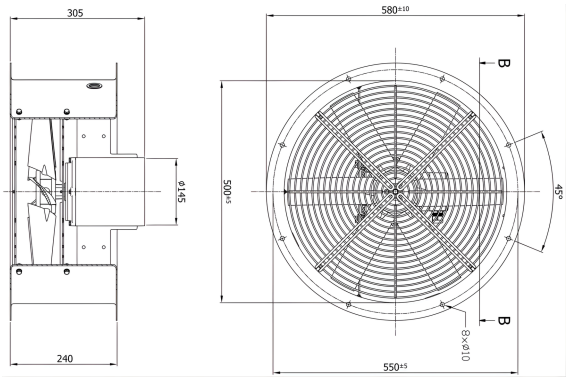
Designed for efficient airflow performance in three-phase industrial cooling applications.

Air Performance

Supply DC Voltage	Speed	Current@115V	Current@230V	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	8,0 A	4,3 A	756 W	9380 m3/h	79 db(A)
7,8 V	1440 rpm	4,3 A	2,3 A	384 W	7560 m3/h	74 db(A)
5,3 V	960 rpm	1,6 A	0,9 A	128 W	4800 m3/h	64 db(A)
4,0 V	720 rpm	0,8 A	0,5 A	60 W	3500 m3/h	55 db(A)
3,2 V	576 rpm	0,6 A	0,4 A	36 W	2900 m3/h	52 db(A)
2,6 V	480 rpm	0,4 A	0,3 A	28 W	2100 m3/h	49 db(A)
2,0 V	360 rpm	0,3 A	0,2 A	16 W	1400 m3/h	46 db(A)

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Dimensions



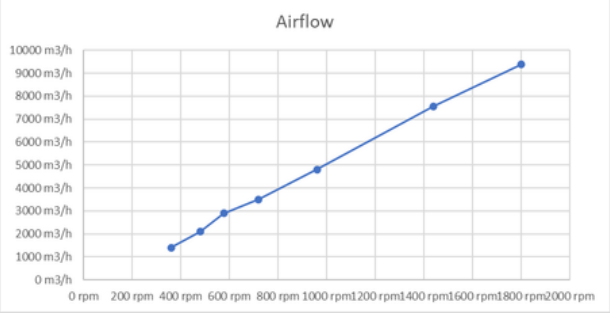
Motor Protection Class

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide	☐ Aluminum		
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60		☐ -40~+60	
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High

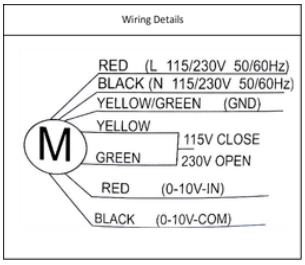
Ec Motor Specifations

EC Motor Power	0,75kW	
Type	A50C-1EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (1phase)	115/230V	115/230V

Airflow Curve



Wiring Details



Axial Fans – Ø710 mm

The Ø710 mm EC axial fan series is developed for applications requiring higher airflow capacity and reliable cooling performance. With advanced EC motor technology, the series delivers efficient operation, intelligent speed control and dependable performance in demanding industrial environments.

A71C-3EC

Ø710 mm / 3-Phase

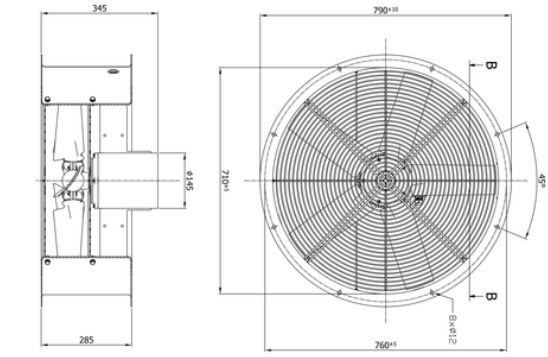
Designed for stable and efficient airflow performance in demanding industrial applications.

Air Performance

Supply DC Voltage	Speed	Current	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	1,2 A	632 W	13250 m3/h	84 db(A)
7,8 V	1440 rpm	0,7 A	332 W	10600 m3/h	76 db(A)
5,1 V	960 rpm	0,3 A	104 W	6750 m3/h	65 db(A)
3,7 V	720 rpm	0,2 A	36 W	4950 m3/h	58 db(A)
2,9 V	576 rpm	0,2 A	15 W	3390 m3/h	55 db(A)
2,3 V	480 rpm	0,1 A	10 W	2650 m3/h	52 db(A)
1,7 V	360 rpm	0,1 A	8 W	2100 m3/h	47 db(A)

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Dimensions



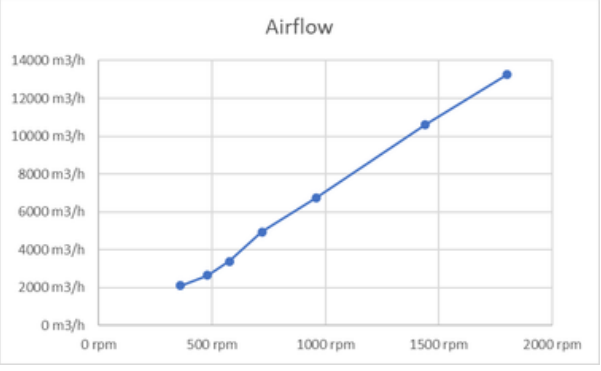
Motor Protection Class

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide	☐ Aluminum		
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60		☐ -40~+60	
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High

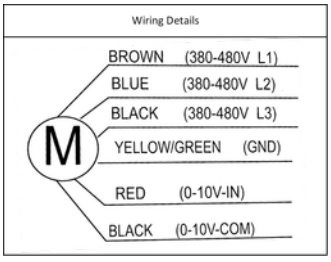
Ec Motor Specifations

EC Motor Power	0,75kW	
Type	A71C-3EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	380-480V	380-480V

Airflow Curve



Wiring Details



Axial Fans – Ø710 mm

The Ø710 mm EC axial fan series is developed for applications requiring higher airflow capacity and reliable cooling performance. With advanced EC motor technology, the series delivers efficient operation, intelligent speed control and dependable performance in demanding industrial environments.

A71C-1EC

Ø710 mm / 1-Phase

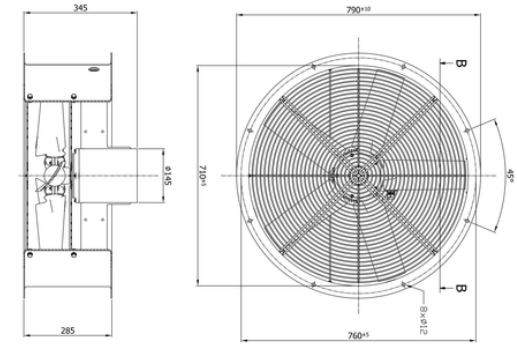
Reliable EC fan solution for flexible and energy-efficient cooling requirements.

Air Performance

Supply DC Voltage	Speed	Current@115V	Current@230V	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	7,9 A	4,7 A	692 W	13250 m3/h	84 db(A)
7,8 V	1440 rpm	4,2 A	2,7 A	348 W	10600 m3/h	76 db(A)
5,1 V	960 rpm	1,6 A	1,0 A	112 W	6750 m3/h	65 db(A)
3,7 V	720 rpm	0,9 A	0,6 A	56 W	4950 m3/h	58 db(A)
2,9 V	576 rpm	0,6 A	0,4 A	36 W	3390 m3/h	55 db(A)
2,3 V	480 rpm	0,4 A	0,3 A	24 W	2650 m3/h	52 db(A)
1,7 V	360 rpm	0,3 A	0,2 A	20 W	2100 m3/h	47 db(A)

Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Dimensions



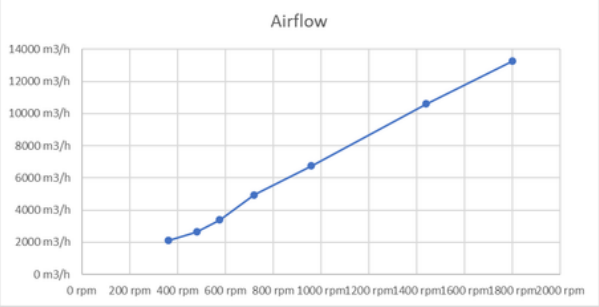
Motor Protection Class

Motor Protection Class	☐ IP55	☐ IP56	☐ IP65	☐ IP66
Wings	☐ GFR Polyamide	☐ Aluminum		
Protection Grids	☐ Rear		☐ Front	
Color (housing,motor,grids)	☐ RAL7031	☐ RAL7032	☐ RAL7033	☐ Other RAL
Operation Ambient (°C)	☐ -25~+60		☐ -40~+60	
Corrosion Class	☐ C3	☐ C4	☐ C5	Medium/High

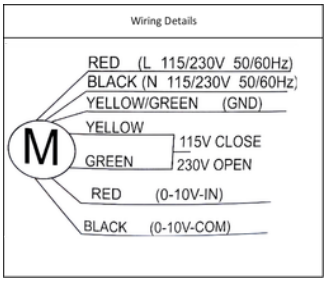
Ec Motor Specifations

EC Motor Power	0,75kW	
Type	A71C-1EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (1phase)	115/230V	115/230V

Airflow Curve



Wiring Details



Cross Flow Fans Series

CF100-620-1EC

620 mm Length

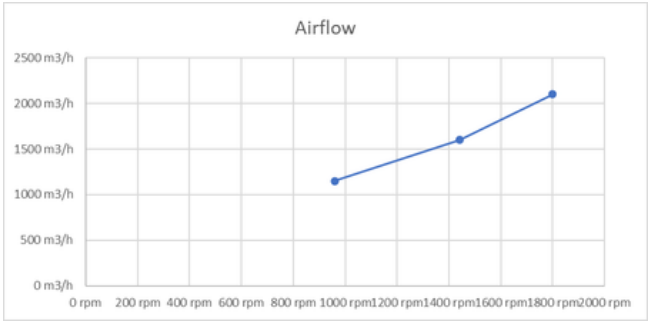
Efficient airflow performance for confined and space-sensitive applications.

The EC cross flow fan series is designed to provide efficient and uniform airflow distribution in compact cooling systems. With electronically controlled motor technology, the series offers reliable operation, energy efficiency and adaptable performance across different size options.

Ec Motor Specifations

EC Motor Power	0,37kW	
Type	CF100-620-1EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	115/230V	115/230V

Airflow Curve

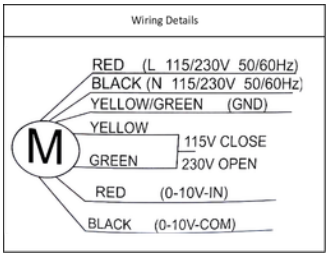


Operating Performance

Supply DC Voltage	Speed	Current@115V	Current@230V	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	2,5 A	1,5 A	184 W	2100 m3/h	69 db(A)
8,0 V	1440 rpm	1,4 A	1,0 A	100 W	1600 m3/h	63 db(A)
5,4 V	960 rpm	0,7 A	0,5 A	36 W	1150 m3/h	53 db(A)

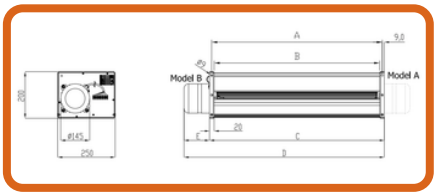
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Wiring Details



DIMENSIONS

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF100-620-1EC	642	620	660	805	145
CF100-720-1EC	742	720	760	905	145
CF100-820-1EC	842	820	860	1005	145



MAX AIRFLOW
2100 m2/h

SOUND PRESSURE
53 -69 dB(A)

POWER INPUT
36-184 W

SPEED RANGE
960-1800 rpm

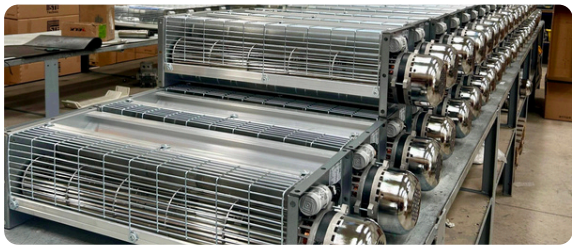
Cross Flow Fans Series

CF100-720-1EC

720 mm Length

Balanced and reliable performance across versatile system requirements.

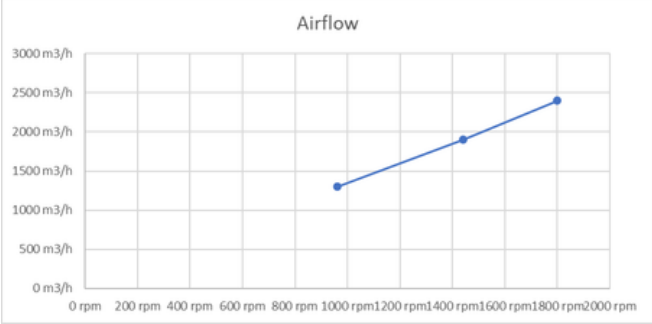
The EC cross flow fan series is designed to provide efficient and uniform airflow distribution in compact cooling systems. With electronically controlled motor technology, the series offers reliable operation, energy efficiency and adaptable performance across different size options.



Ec Motor Specifations

EC Motor Power	0,37kW	
Type	CF100-720-1EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	115/230V	115/230V

Airflow Curve

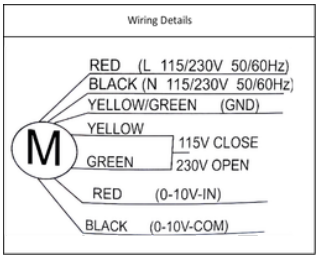


Operating Performance

Supply DC Voltage	Speed	Current@115V	Current@230V	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	2,7 A	1,6 A	196 W	2400 m3/h	69 db(A)
8,5 V	1440 rpm	1,6 A	1,0 A	110 W	1900 m3/h	63 db(A)
5,5 V	960 rpm	0,7 A	0,5 A	40 W	1300 m3/h	53 db(A)

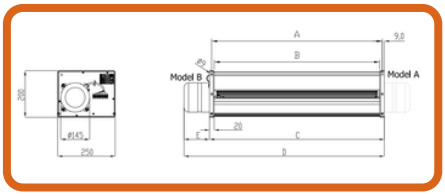
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Wiring Details



DIMENSIONS

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF100-620-1EC	642	620	660	805	145
CF100-720-1EC	742	720	760	905	145
CF100-820-1EC	842	820	860	1005	145



MAX AIRFLOW
2400 m³/h

SOUND PRESSURE
53 – 69 dB(A)

POWER INPUT
40 – 196 W

SPEED RANGE
960 – 1800 rpm

Cross Flow Fans Series

CF100-820-1EC

820 mm Length

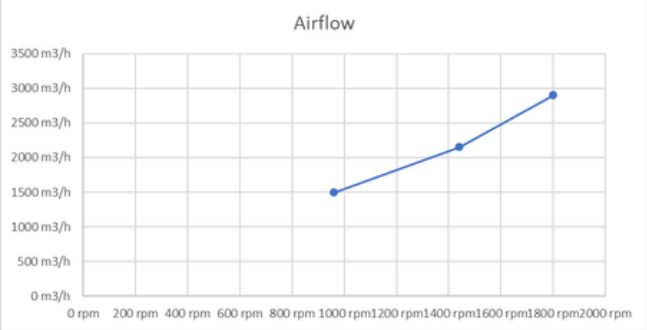
Enhanced airflow distribution for larger and more demanding systems.

The EC cross flow fan series is designed to provide efficient and uniform airflow distribution in compact cooling systems. With electronically controlled motor technology, the series offers reliable operation, energy efficiency and adaptable performance across different size options.

Ec Motor Specifations

EC Motor Power	0,37kW	
Type	CF100-720-1EC	
Frequency (±2%)	50 Hz	60 Hz
Supply Voltage (3phase)	115/230V	115/230V

Airflow Curve

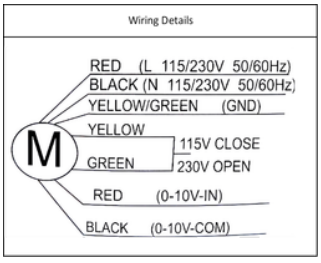


Operating Performance

Supply DC Voltage	Speed	Current@115V	Current@230V	Input	Airflow	Sound Pressure @1m
10,0 V	1800 rpm	3,2 A	1,8 A	252 W	2900 m3/h	72 db(A)
8,5 V	1440 rpm	1,8 A	1,2 A	144 W	2150 m3/h	67 db(A)
5,5 V	960 rpm	0,8 A	0,6 A	54 W	1500 m3/h	56 db(A)

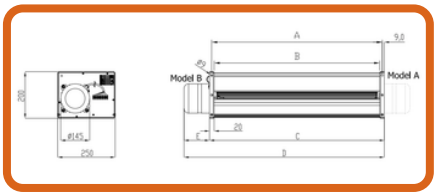
Air flow and sound pressure level (SPL) are given for free blowing operation with inlet&outlet guard grids. SPL values at 1m are measured from side of the fan. Declared values may change according to the requested options and configurations.

Wiring Details



DIMENSIONS

Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
CF100-620-1EC	642	620	660	805	145
CF100-720-1EC	742	720	760	905	145
CF100-820-1EC	842	820	860	1005	145



MAX AIRFLOW
2900 m³/h

SOUND PRESSURE
56 – 72 dB(A)

POWER INPUT
54 – 252 W

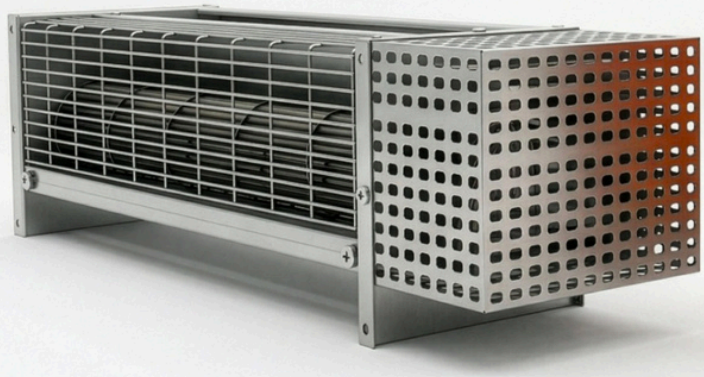
SPEED RANGE
960 – 1800 rpm

STE Technic

Cross Flow
Fans Series

STE Technic

Axial Fan Series



STE Technic

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