NOREN™
THERMAL SOLUTIONS

PRODUCT CATALOG

ECO-COOL
ECO-FLOW
STANDARD COLOR

MAKING THE WORLD A COOLER PLACE

Contact Us
(512) 595-5700
sales@norenthermal.com

NOREN™
THERMAL SOLUTIONS

ABOUT US

For more than 50 years, Noren Thermal Solutions has delivered innovative thermal management solutions based on heat pipe technology, helping prevent electronic components from overheating. All of our products are designed and assembled in the USA, using the expertise and knowledge of our engineering and design staff.

You can rely on the high quality that represents us and our ability to solve heat transfer challenges with cutting-edge designs and technology. Our thermal solution-oriented philosophy, coupled with customer service and satisfaction, has earned us the freedom to think outside the box.

We are currently doing business worldwide and growing as an eco-friendly industry. We pride ourselves on delivering exceptional customer service with each thermal solution.

Mission Statement: Noren Thermal Solution is committed to engineering and manufacturing quality solutions for a variety of thermal challenges in an atmosphere of excellence.

Quality Policy Statement: Encompassing an attitude of continual improvement, Noren Products Incorporated is committed to teaming with our employees in an ethical business environment to provide innovative product solutions for our customers.

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ECO-COOL is part of Noren Thermal Solutions' new line of high-quality, low-cost heat exchangers using heat sink technology. Hot air within the enclosure is circulated through the internal fins by fans. The increase in temperature causes the heat to transfer from the internal to the external fins. External fans circulate cooler ambient air around the external fins to dissipate the heat.

ECO-COOL

DROP-IN UNITS

Noren Eco-Cool Drop-In heat exchangers are designed to attach to the side of the door of the electrical enclosures. The unit occupies space both inside and outside of the enclosure.

FLUSH-MOUNT UNITS

Noren Flush-Mount heat exchangers are designed to attach to the side or door of electrical enclosures. Unlike the Drop-In unit, the Flush Mount units do not protrude into the enclosure.

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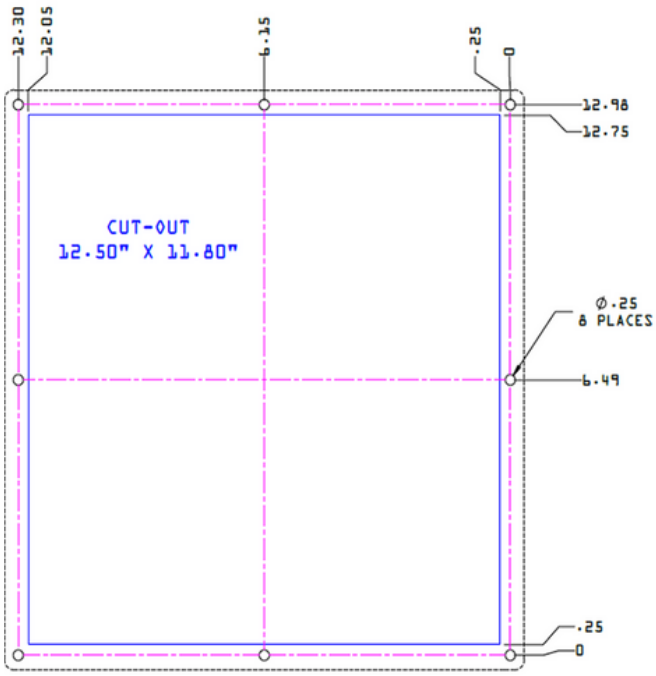
HEAT EXCANGER ECO COOL ECX-200

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-200	22 lbs	3,350	49	980	0.72	2-6"	14"Hx13"Wx9"D

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	0.72
230 VAC	0.36
24 VDC	2.64
48 VDC	1.20

ECX-200
Eco-Cool Heat Exchanger
Air to Air Drop-In Model

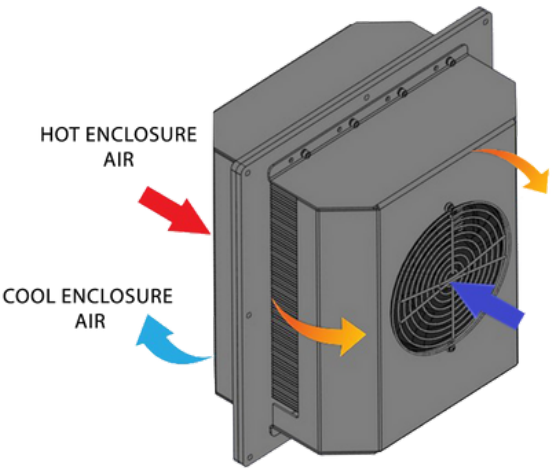
c UL us LISTED
UL File #SA9567

MADE IN USA

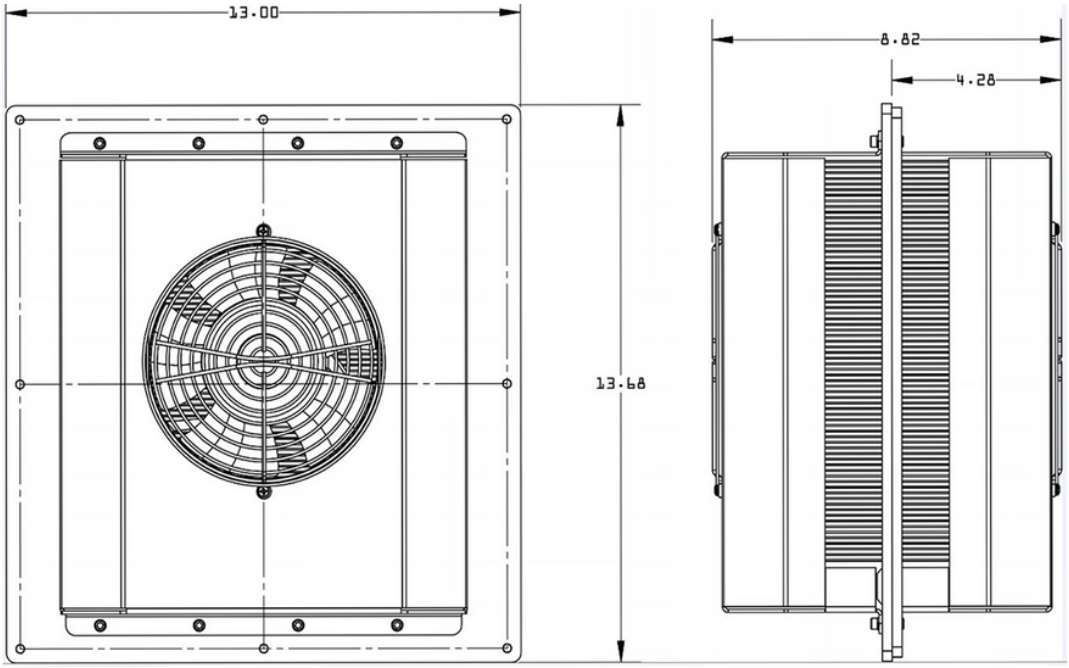
ISO 9001:2015 CERTIFIED

ECO-COOL - DROP IN ECX-200 PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-200 Rated cooling: 980 Watts at 20°C ΔT (49 W/°C) mounted to an uninsulated 72" X 36" X 24" cabinet
3. Housing is aluminum (Standard color)
4. Equipped with a mounting gasket to maintain an airtight seal
5. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
6. Available with VAC (115 & 230) (Frequency 50/60) VDC (24 & 48) fans. DC-powered units include a junction box; consult the website.
7. Unit may be mounted vertically (as shown)
8. Drop-In and Flush mount versions available
9. For design, quote, and sizing assistance: call ***(512) 595-5700***



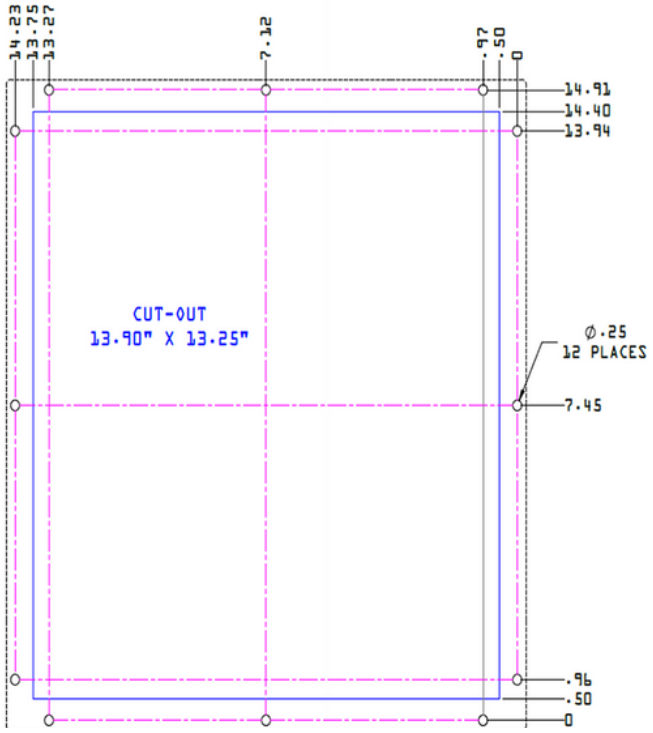
DIMENSIONS AND MOUNTING (INCHES)



HEAT EXCHANGER ECO COOL ECX-200F

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-200F	25 lbs	3,350	49	980	0.72	2-6"	16"Ax15"Lx9.5"P

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	0.72
230 VAC	0.36
24 VDC	2.64
48 VDC	1.20

ECX-200F
Eco-Cool Heat Exchanger
Air to Air Flush Mount Model

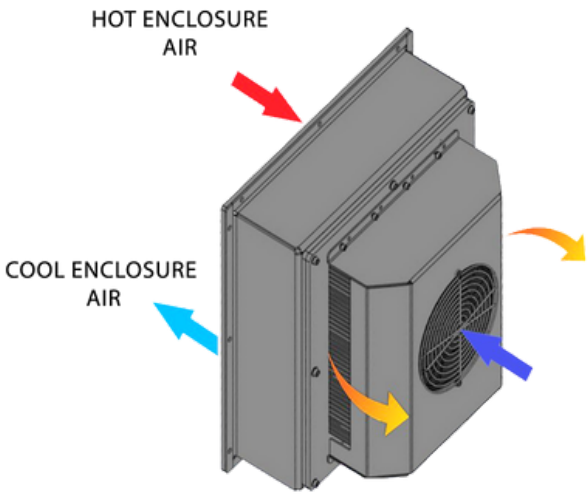
c UL us LISTED
UL File #SA9567

MADE IN USA

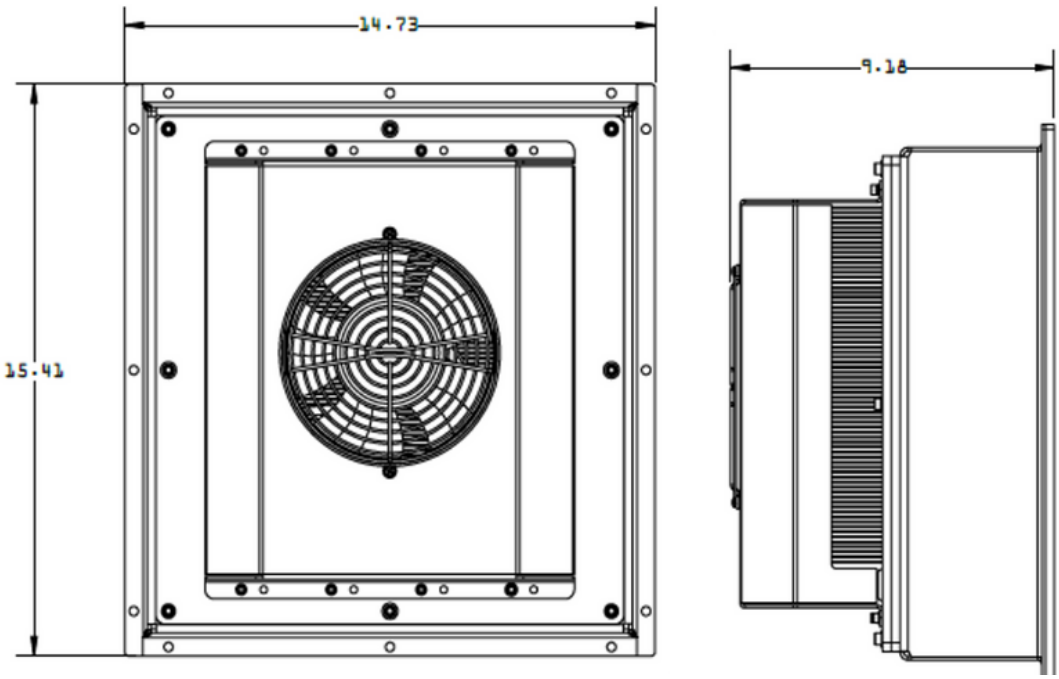
ISO 9001:2015 CERTIFIED

ECO COOL - FLUSH MOUNT ECX-200F PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-200F Rated cooling: 980 Watts at 20°C ΔT. (49 W/°C), mounted to an uninsulated 72" X 36" X 24" cabinet
3. Housing is aluminum (Standard color)
4. Equipped with a mounting gasket to maintain an airtight seal
5. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
6. Available with VAC (115 & 230) (Frequency 50/60 Hz). VDC (24 & 48) fans. DC-powered units include a junction
box; consult the website
7. Unit may be mounted vertically (as shown)
8. Drop-In and Flush mount versions available
9. For design, quote, and sizing assistance:
call ***(512) 595-5700***



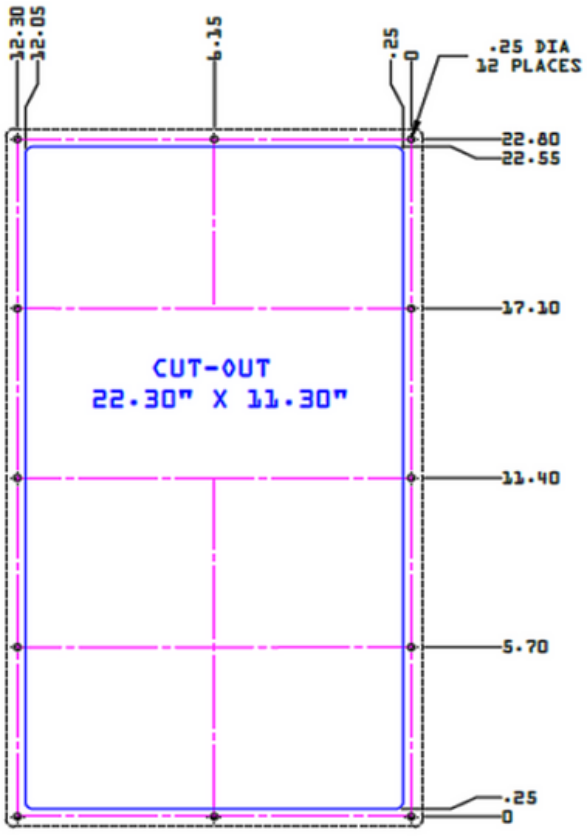
DIMENSIONS AND MOUNTING (INCHES)



HEAT EXCHANGER ECO COOL ECX-400

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-400	34 lbs	3,960	66	1320	1.96	4-6"	23.5"Hx13"Wx8.3"D

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	1.96
230 VAC	1.04
24 VDC	8.08
48 VDC	4.04

ECX-400
Eco-Cool Heat Exchanger
Air to Air Drop-In Model

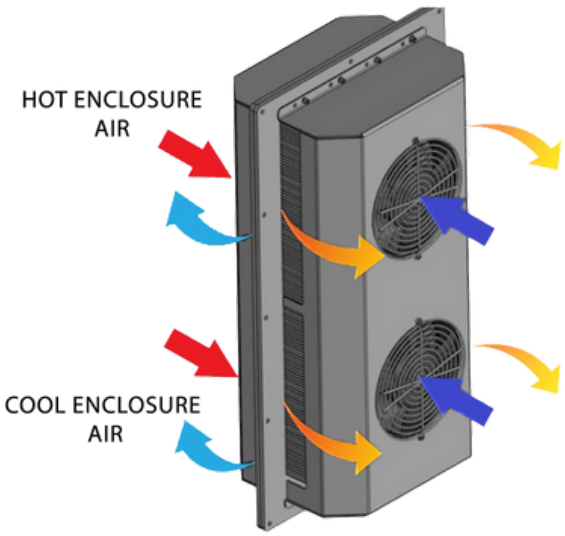
c UL us LISTED
UL File #SA9567

MADE IN USA

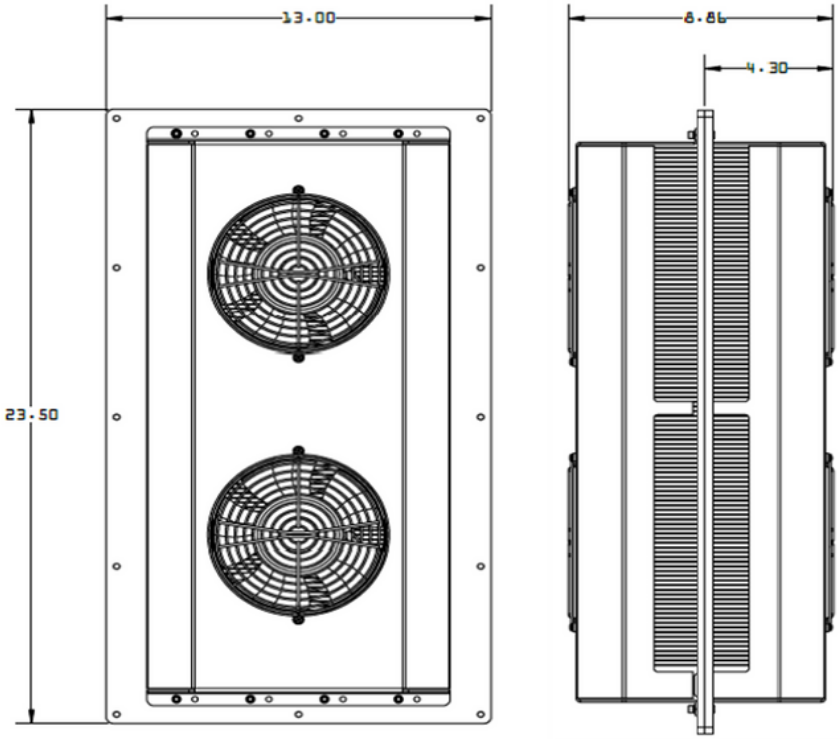
ISO 9001:2015 CERTIFIED

ECO COOL - DROP IN ECX-400 PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-400 Rated cooling: 1320 Watts at 20°C ΔT. (66 W/°C), mounted to an uninsulated (72" X 36" X 24" cabinet)
3. Extend 4.3" into the cabinet
4. Housing is aluminum (Standard color)
5. Equipped with a mounting gasket to maintain an airtight seal
6. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
7. Available with VAC (115 and 230) (Frequency 50/60 Hz). VDC (24 and 48) fans. DC-powered units include a junction box, consult the website
8. Unit may be mounted vertically (as shown)
9. Flush mount version available
10. For design, quote, and sizing assistance: call ***(512) 595-5700***



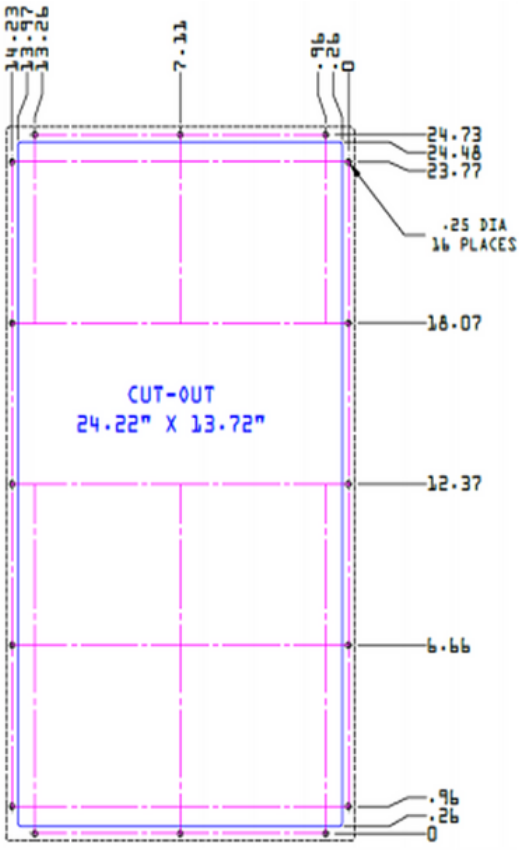
DIMENSIONS AND MOUNTING (INCHES)



HEAT EXCHANGER ECO COOL ECX-400F

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-400F	34 lbs	3,960	66	1320	1.96	4-6"	25.23"Hx14"Wx9.18 "D

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	1.96
230 VAC	1.04
24 VDC	8.08
48 VDC	4.04

ECX-400F
Eco-Cool Heat Exchanger
Air to Air Flush Mount Model

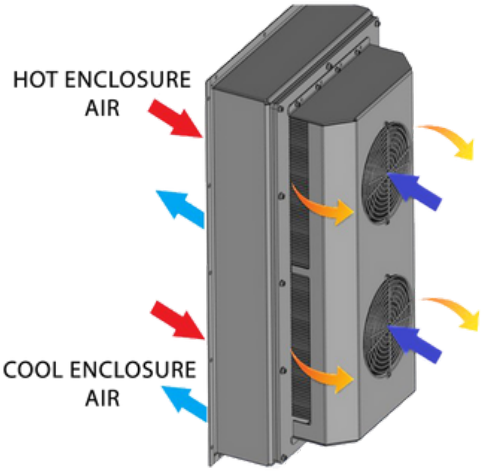
c UL us LISTED
UL File #SA9567

MADE IN USA

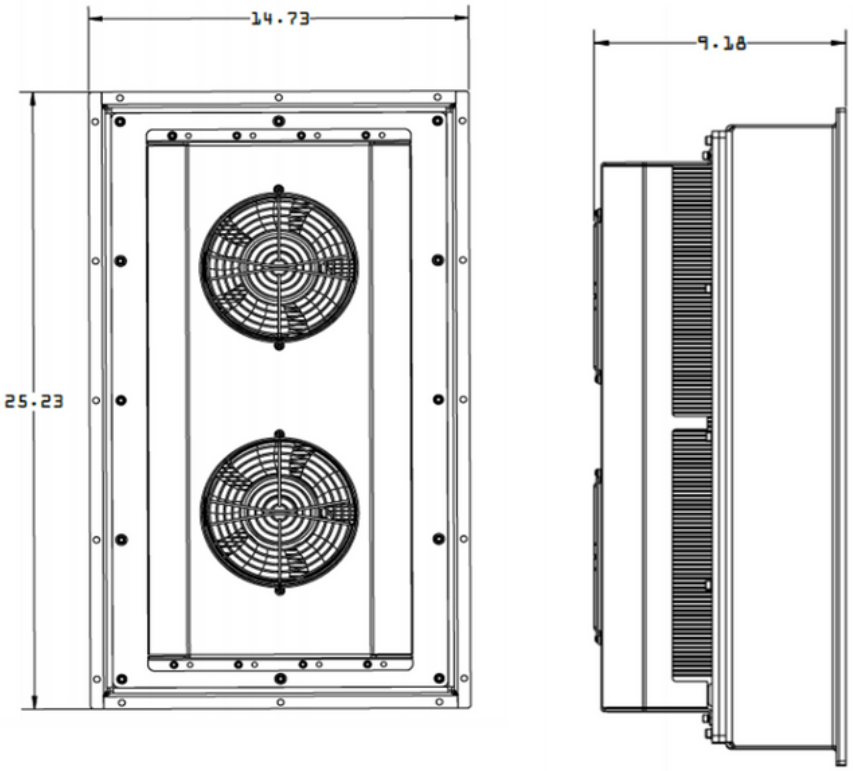
ISO 9001:2015 CERTIFIED

FLUSH MOUNT - ECO COOL ECX-400F PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-400F Rated cooling: 1320 Watts at 20°C ΔT) (66 W/°C, mounted to an uninsulated 72" X 36" X 24" cabinet)
3. Housing is aluminum (Standard color)
4. Equipped with a mounting gasket to maintain an airtight seal
5. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
6. Available with VAC (115 & 230) (Frequency 50/60 Hz). VDC (24 & 48) fans DC powered units include junction box; consult the website
7. Unit may be mounted vertically (as shown)
8. Drop-In and Flush mount versions available
9. For design, quote, and sizing assistance: call ***(512)595-5700***



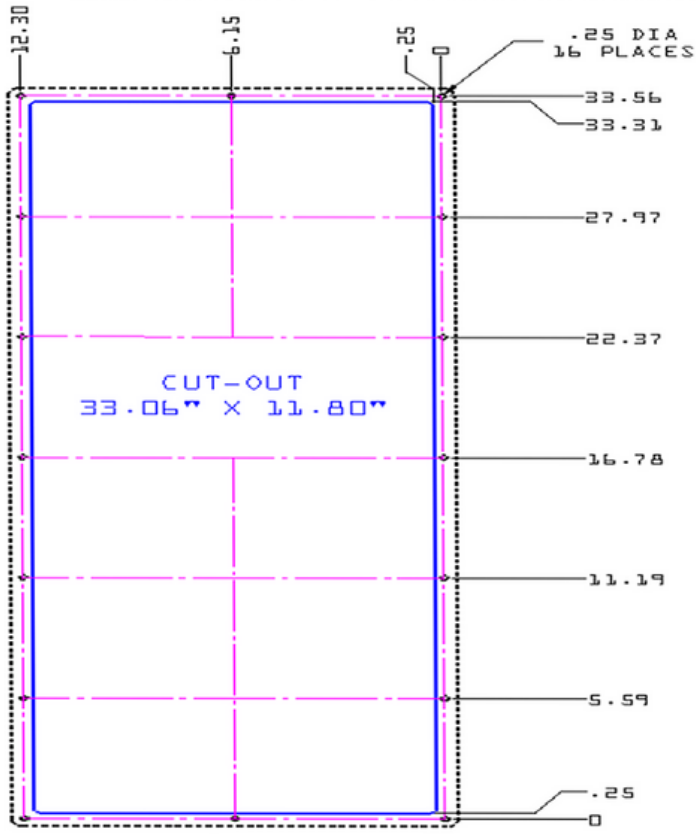
DIMENSIONS AND MOUNTING (INCHES)



HEAT EXCHANGER ECO COOL ECX-600

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-600	51 lbs	5,100	80	1700	2.94	6-6"	34.26"Hx13"Wx9"D

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	2.94
230 VAC	1.56
24 VDC	12.12
48 VDC	6.06

ECX-600
Eco-Cool Heat Exchanger
Air to Air Drop- In Model

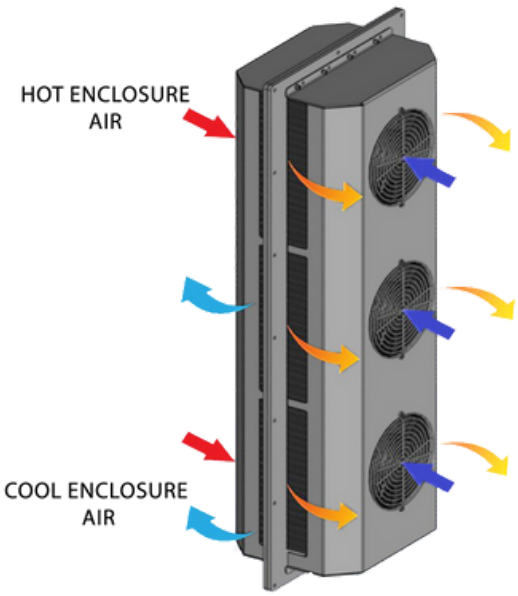
c UL us LISTED
UL File #SA9567

MADE IN USA

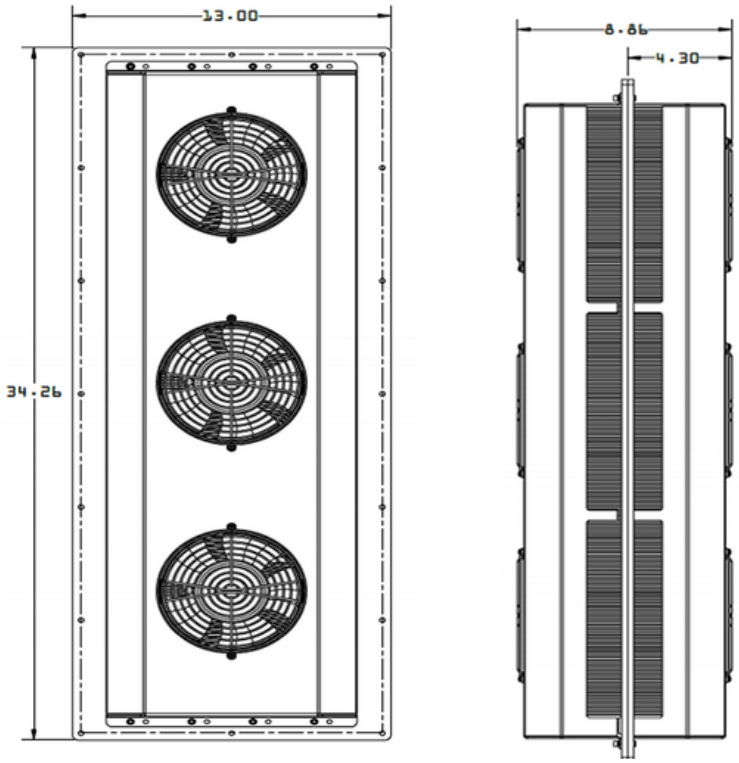
ISO 9001:2015 CERTIFIED

ECO-COOL - DROP IN ECX-600 PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-600 Rated cooling: 1700 Watts at 20°C ΔT. (80 W/°C), mounted to an uninsulated 72" X 36" X 24" cabinet
3. Extend 4.3" into the cabinet
4. Housing is aluminum (Standard color)
5. Equipped with a mounting gasket to maintain an airtight seal
6. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
7. Available with VAC (115 & 230) (Frequency 50/60 Hz). VDC (24 & 48) fans. DC-powered units include a junction box; consult the website
8. Unit may be mounted vertically (as shown)
9. Drop-In and Flush mount versions available
10. For design, quote, and sizing assistance: call ***(512)595-5700***



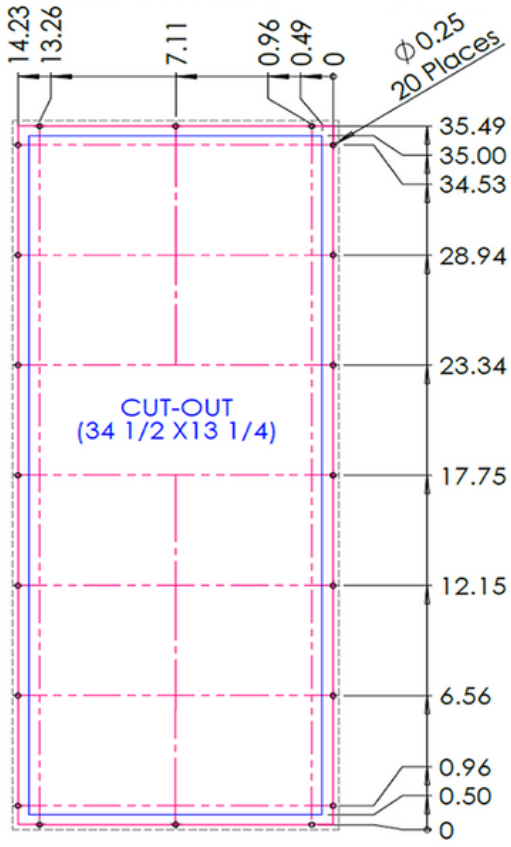
DIMENSIONS AND MOUNTING (INCHES)



HEAT EXCHANGER ECO COOL ECX-600F

Model	Weight (lbs)	Rating @ 20°C ΔT (BTU/hr)	Efficiency (Watts/°C)	Rating AT 20°C ΔT Watts cooling	Amps current Draw at 115 volts AC	Fan size	Dimensions-Inches (HxWxD)
ECX-600F	51 lbs	5,100	80	1700	2.94	6-6"	34.99"Hx14.73"Wx 9.18"D

CUT OUT AND HOLE PATTERN (INCHES)



VOLTAGE	NOMINAL CURRENT (AMPS)
115 VAC	2.94
230 VAC	1.56
24 VDC	12.12
48 VDC	6.06

ECX-600F
Eco-Cool Heat Exchanger
Air to Air Flush Mount Model

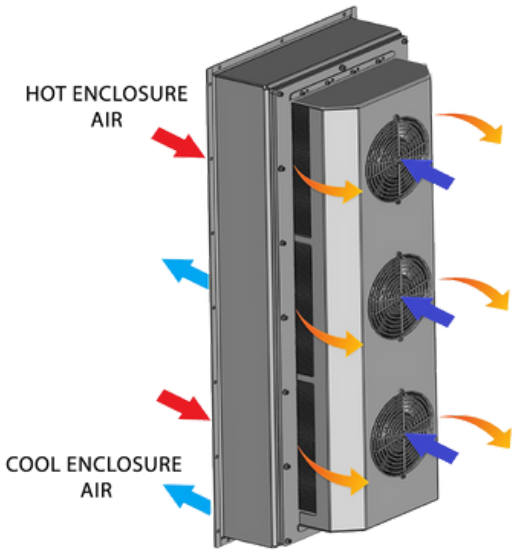
c UL us LISTED
UL File #SA9567

MADE IN USA

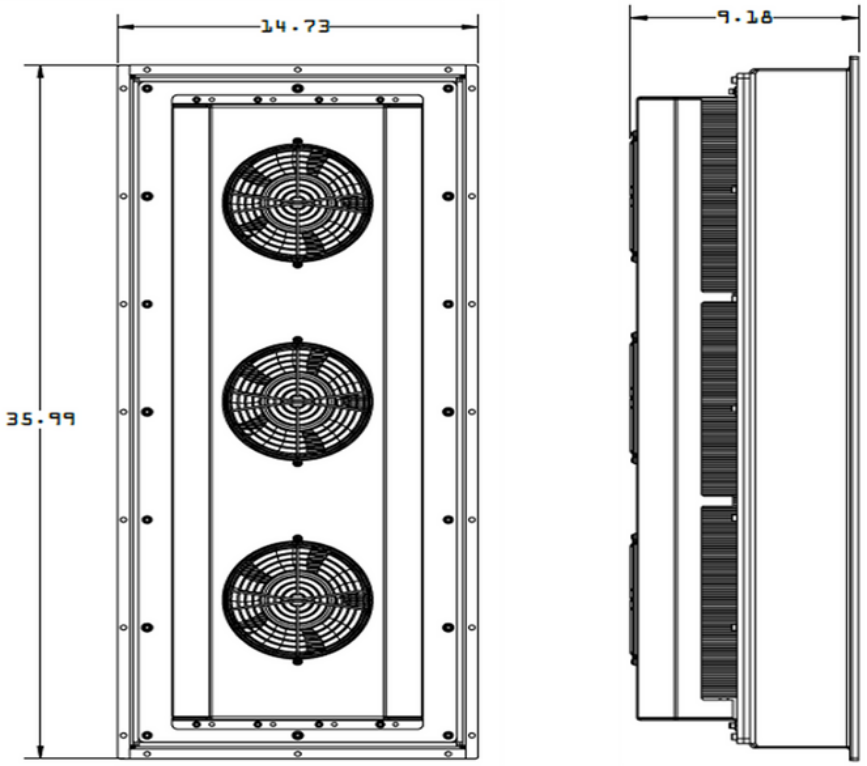
ISO 9001:2015 CERTIFIED

FLUSH MOUNT - ECO COOL CC600F PRODUCT SPECIFICATIONS

1. UL Listed for Type 12 and 4 environments
2. ECX-400F Rated cooling: 1320 Watts at 20°C ΔT) (66 W/°C, mounted to an uninsulated 72" X 36" X 24" cabinet)
3. Housing is aluminum (Standard color)
4. Equipped with a mounting gasket to maintain an airtight seal
5. Internal 6-ft power cord with a 3-prong plug is standard for AC-powered units
6. Available with VAC (115 & 230) (Frequency 50/60 Hz). VDC (24 & 48) fans DC powered units include junction box; consult the website
7. Unit may be mounted vertically (as shown)
8. Drop-In and Flush mount versions available
9. For design, quote, and sizing assistance: call ***(512)595-5700***



DIMENSIONS AND MOUNTING (INCHES)



NOREN™
THERMAL SOLUTIONS

Our Eco-Flow Dual Filter Fan system achieves high efficiency; they are created in all sizes, assuring a solution for the smallest and largest electrical enclosures. Every Eco-Flow system is easy to install, offers optimal energy efficiency, and requires minimal or no maintenance. This application continuously pushes heated air out of the enclosure while pulling cooler air in and can be used in a variety of different configurations to accommodate most enclosures.

ECO-FLOW

A SIMPLE INSTALLATION

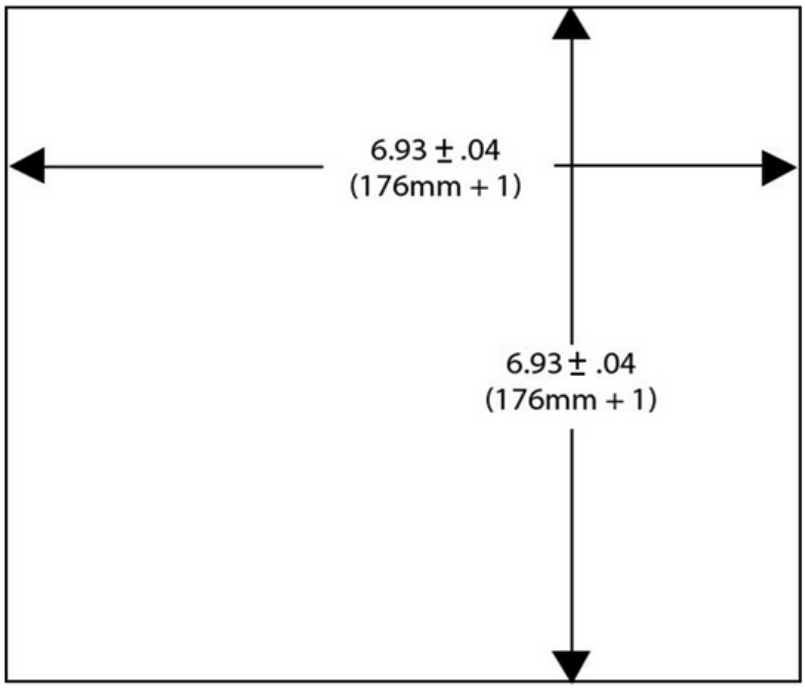
Noren's Eco-Flow Dual Filter Fan units are easy enough to install on your own, with no special tools required. However, we strongly recommend following the installation instructions for your specific Eco-Flow unit.

NOREN™
THERMAL SOLUTIONS

ECO FLOW DUAL FILTER FAN - ECF 40-24

Model	Weight (lbs)	Amps current Draw at 24 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-40-24	1.5 lbs	0.6	1x4"	8.03x8.03x4.10

CUT OUT DIAGRAM (INCHES)

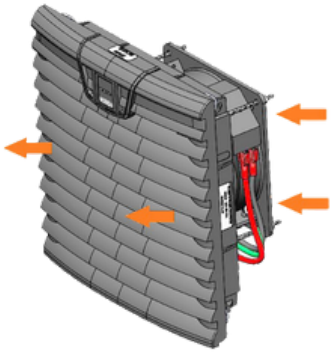


Eco Flow Dual Filter Fan
ECF 40-24
Plastic Filter Fan Kit

MADE IN USA

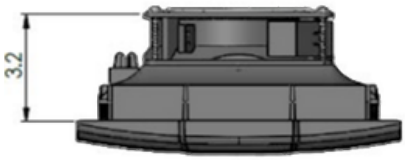
ISO 9001:2015 CERTIFIED

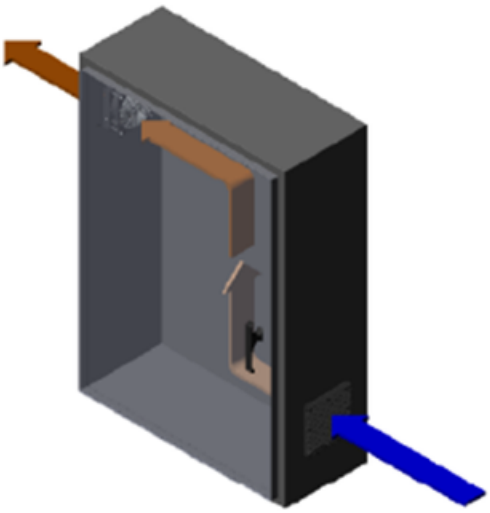
ECO FLOW DUAL FILTER FAN - ECF 40-24
PRODUCT SPECIFICATIONS

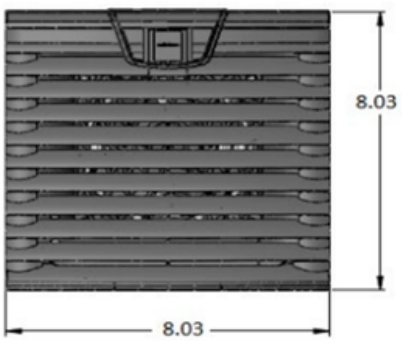


1. Fan specifications: ball Bearing fan,
Voltage 24V, Amps 0.60A, Power ~15W, Noise 49dB,
Max static pressure 0.49 H2O inch
2. CFM through the filter 68 cfm/116m3/h
3. Frame material: ABS Fireproof material of UL94 V-0,
UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature:
-10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction,
resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC,
48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



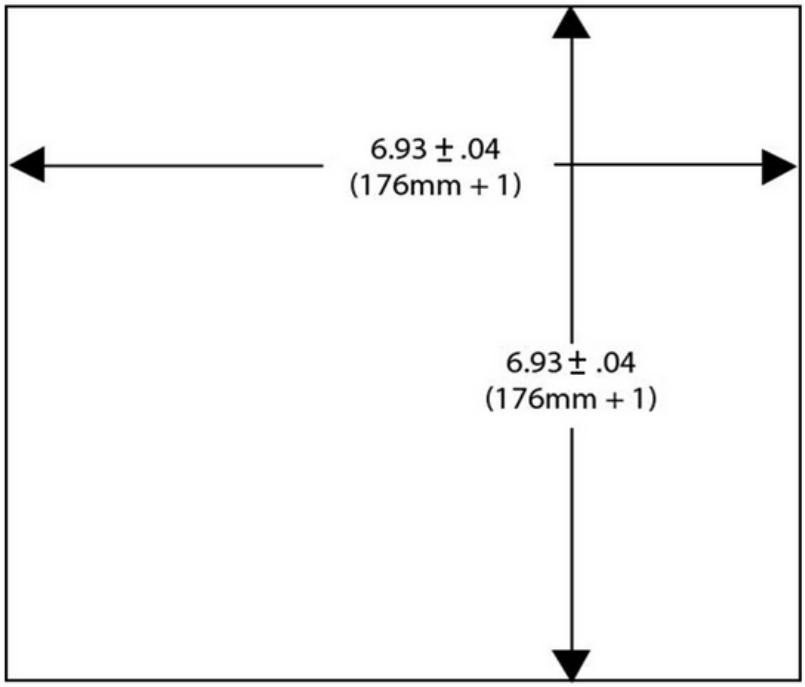




ECO FLOW DUAL FILTER FAN - ECF 40-48

Model	Weight (lbs)	Amps current Draw at 48 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-40-48	1.5 lbs	0.33	1x4"	8.03x8.03x4.10

CUT OUT DIAGRAM (INCHES)

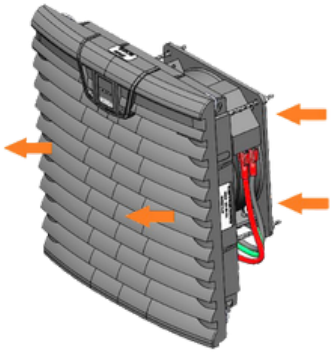


Eco Flow Dual Filter Fan
ECF 40-48
Plastic Filter Fan Kit

MADE IN USA

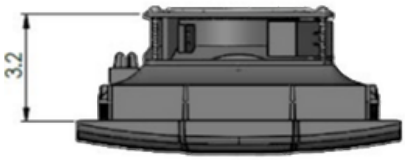
ISO 9001:2015 CERTIFIED

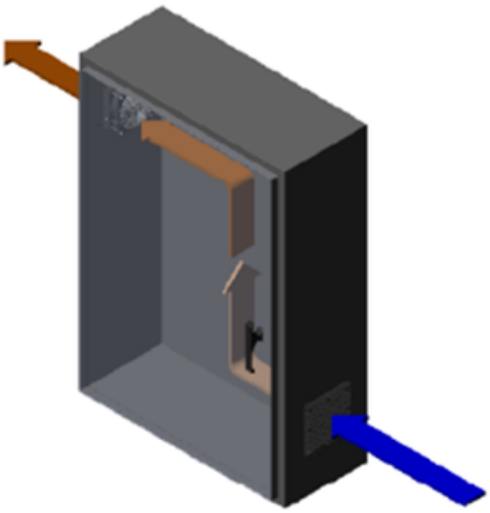
ECO FLOW DUAL FILTER FAN - ECF 40-48
PRODUCT SPECIFICATIONS

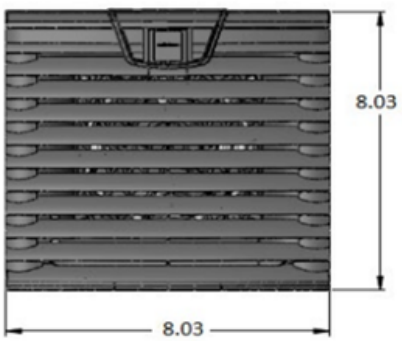


1. Fan specifications: ball Bearing fan,
Voltage 48V, Amps 0.33A, Power ~16W, Noise 49dB,
Max static pressure 0.49 H2O inch
2. CFM through the filter 66 cfm/112m3/h
3. Frame material: ABS Fireproof material of UL94 V-0,
UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature:
-10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction,
resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC,
48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



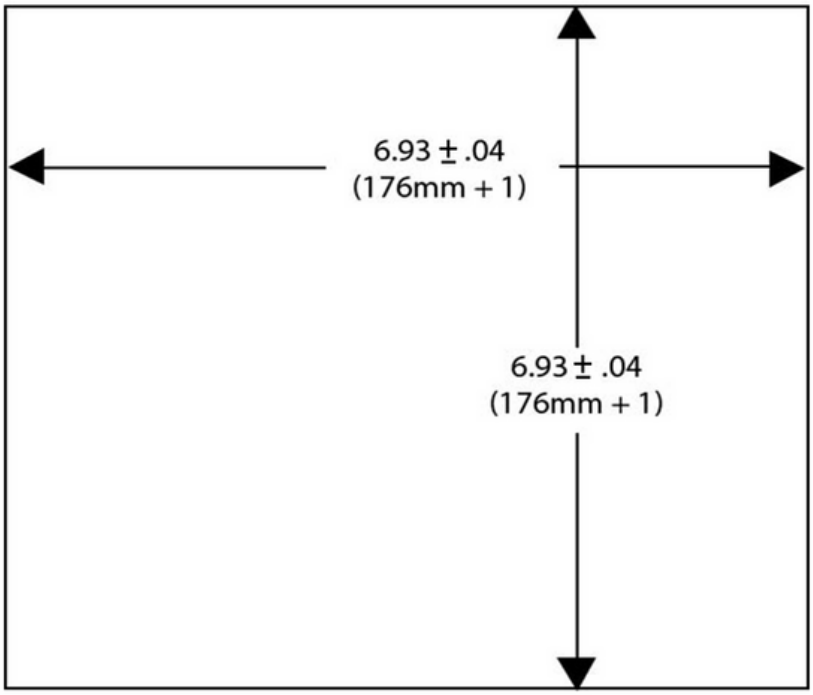




ECO FLOW DUAL FILTER FAN - ECF 40-115

Model	Weight (lbs)	Amps current Draw at 115 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-40-115	1.8 lbs	0.16	1x4"	8.03x8.03x4.10

CUT OUT DIAGRAM (INCHES)

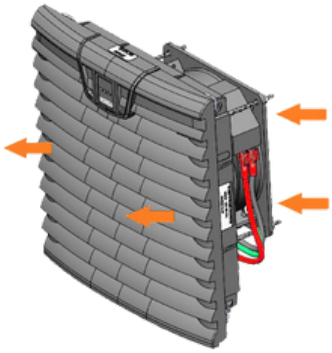


Eco Flow Dual Filter Fan
ECF 40-115
Plastic Filter Fan Kit

MADE IN USA

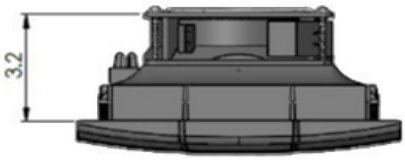
ISO 9001:2015 CERTIFIED

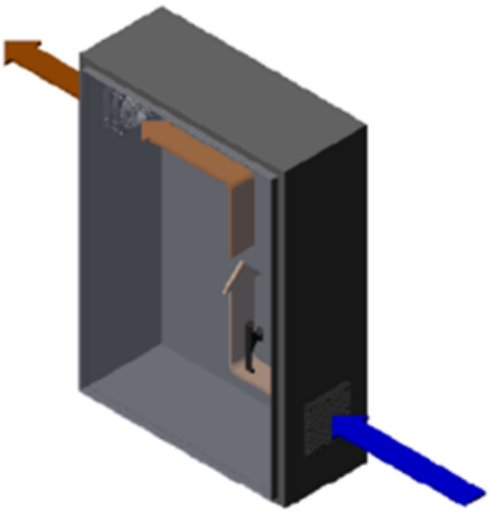
ECO FLOW DUAL FILTER FAN - ECF 40-115
PRODUCT SPECIFICATIONS

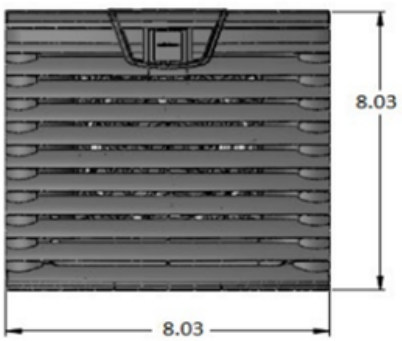


1. Fan specifications: ball Bearing fan, Voltage 115V, Amps 0.16A, Power ~12W, Freq 60Hz, Noise 46dB, Max static pressure 0.35 H2O inch
2. CFM through the filter 59 cfm/100m3/h
3. Frame material: ABS Fireproof material of UL94 V-0, UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature: -10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction, resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC, 48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



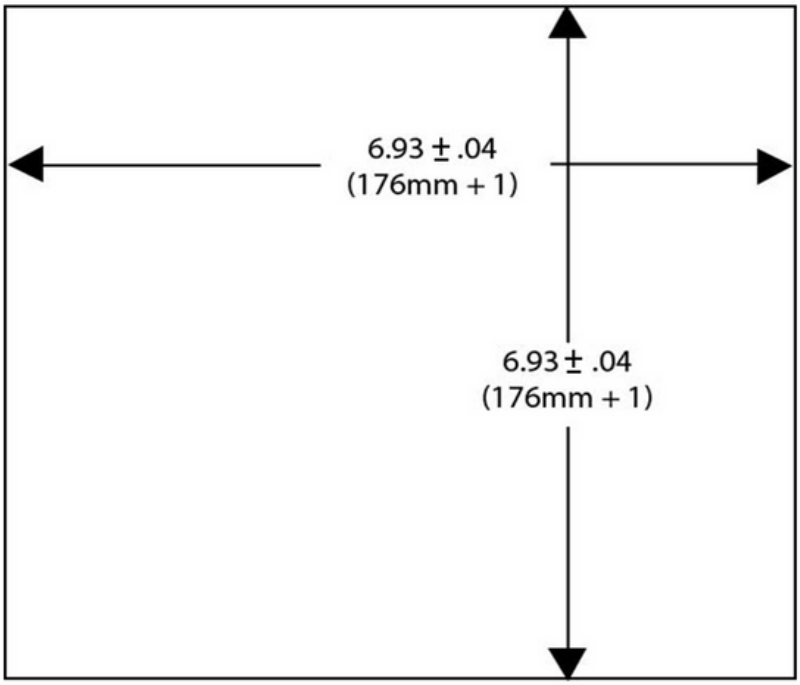




ECO FLOW DUAL FILTER FAN - ECF 40-230

Model	Weight (lbs)	Amps current Draw at 230 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-40-230	1.8 lbs	0.08	1x4"	8.03x8.03x4.10

CUT OUT DIAGRAM (INCHES)

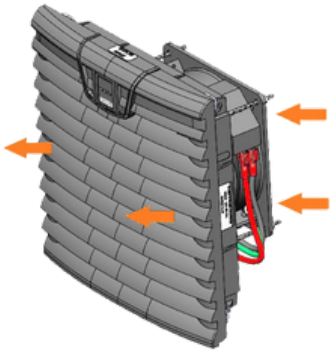


Eco Flow Dual Filter Fan
ECF 40-230
Plastic Filter Fan Kit

MADE IN USA

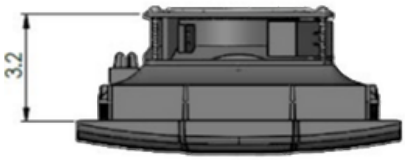
ISO 9001:2015 CERTIFIED

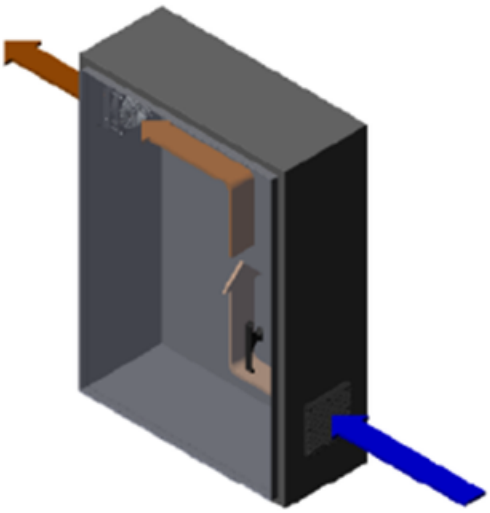
ECO FLOW DUAL FILTER FAN - ECF 40-230
PRODUCT SPECIFICATIONS

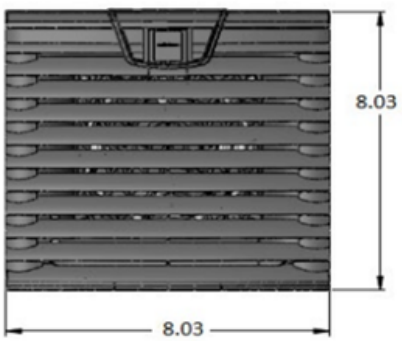


1. Fan specifications: ball Bearing fan,
Voltage 230V, Amps 0.08A, Power ~15W, Freq 60Hz,
Noise 46dB, Max static pressure 0.35 H2O inch
2. CFM through the filter 59 cfm/100m3/h
3. Frame material: ABS Fireproof material of UL94 V-0,
UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature:
-10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction,
resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC,
48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



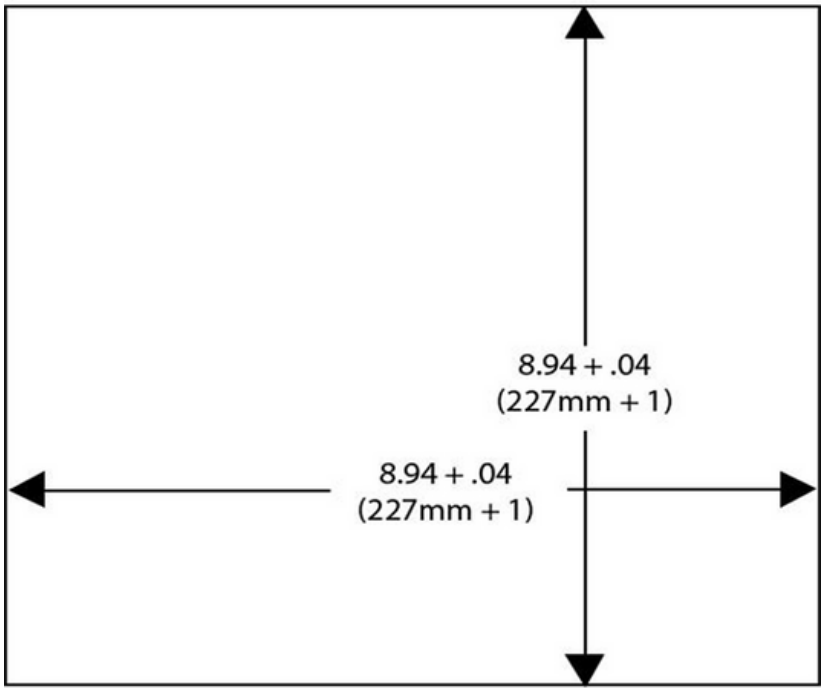




ECO FLOW DUAL FILTER FAN - ECF 60-24

Model	Weight (lbs)	Amps current Draw at 24 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-60-24	2.9 lbs	0.16	1x6"	10.03x10. 03 x4.7

CUT OUT DIAGRAM (INCHES)

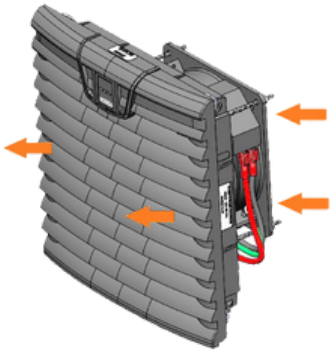


Eco Flow Dual Filter Fan
ECF 60-24
Plastic Filter Fan Kit

MADE IN USA

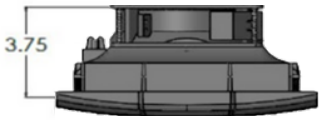
ISO 9001:2015 CERTIFIED

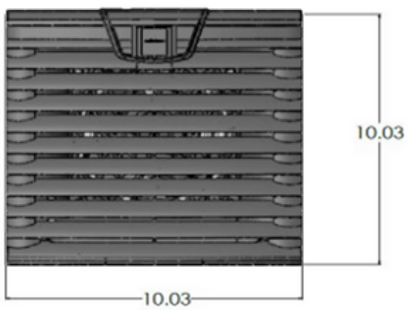
ECO FLOW DUAL FILTER FAN - ECF 60-24
PRODUCT SPECIFICATIONS

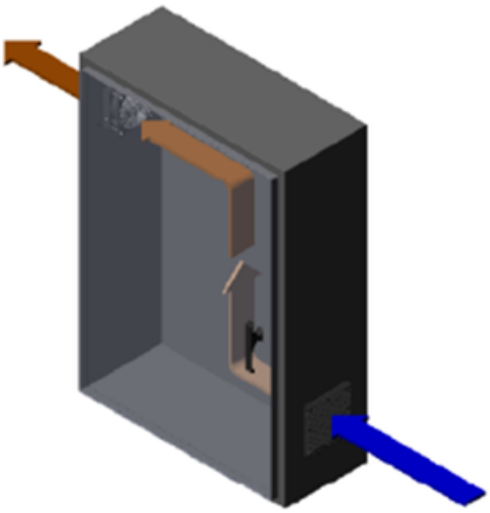


1. Fan specifications: ball Bearing fan, Voltage 24V, Amps 1.20A, Power ~29W, Noise 63dB, Max static pressure 0780 H2O inch
2. CFM through the filter 115 cfm/195m3/h
3. Frame material: ABS Fireproof material of UL94 V-0, UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature: -10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction, resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC, 48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



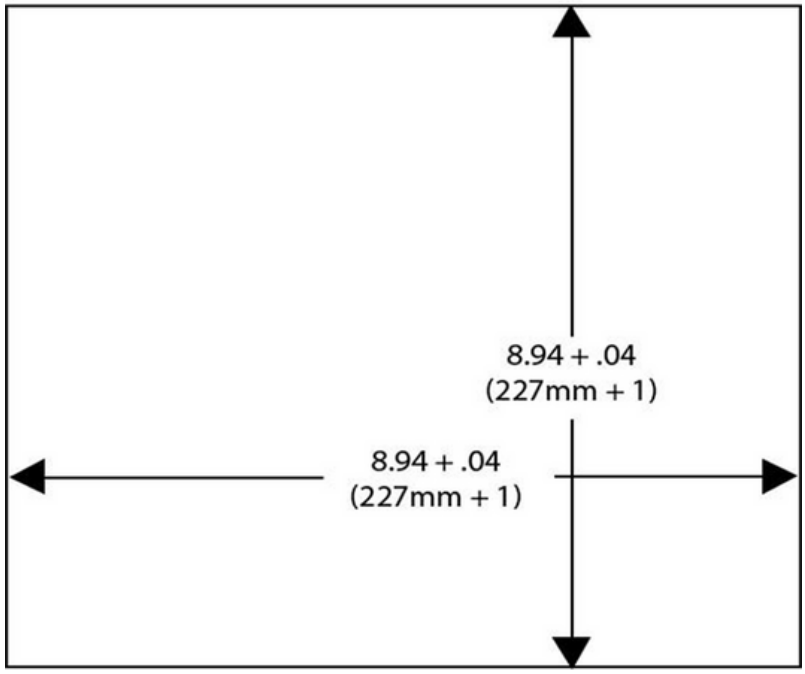




ECO FLOW DUAL FILTER FAN - ECF 60-48

Model	Weight (lbs)	Amps current Draw at 48 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-60-48	2.9 lbs	0.8	1x6"	10.03x10.03x 4.10

CUT OUT DIAGRAM (INCHES)

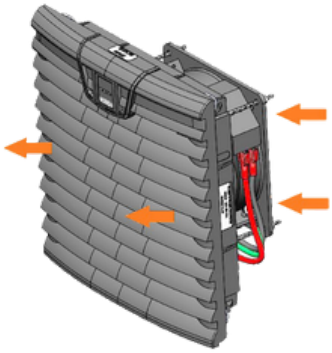


Eco Flow Dual Filter Fan
ECF 60-48
Plastic Filter Fan Kit

MADE IN USA

ISO 9001:2015 CERTIFIED

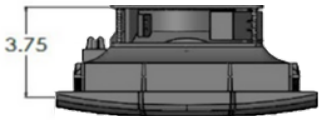
ECO FLOW DUAL FILTER FAN - ECF 60-48
PRODUCT SPECIFICATIONS

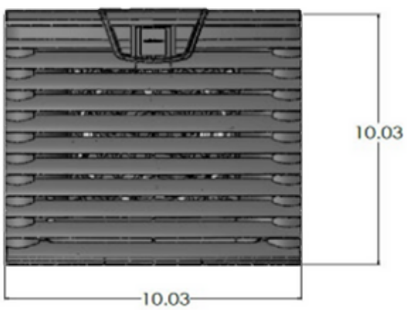


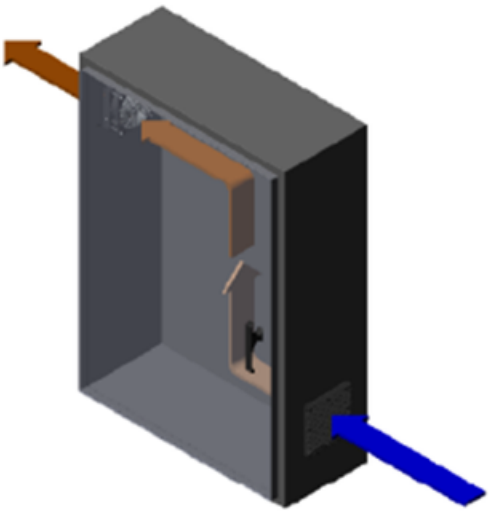
1. Fan specifications: ball Bearing fan, Voltage 48V, Amps 0.80A, Power ~39W, Noise 63dB, Max static pressure 0.90 H2O inch
2. CFM through the filter 91 cfm/155m3/h
3. Frame material: ABS Fireproof material of UL94 V-0, UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature: -10 to 70 C°/-40 to 70 C°

6. Filter material: Synthetic fiber with progressive construction, resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC, 48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



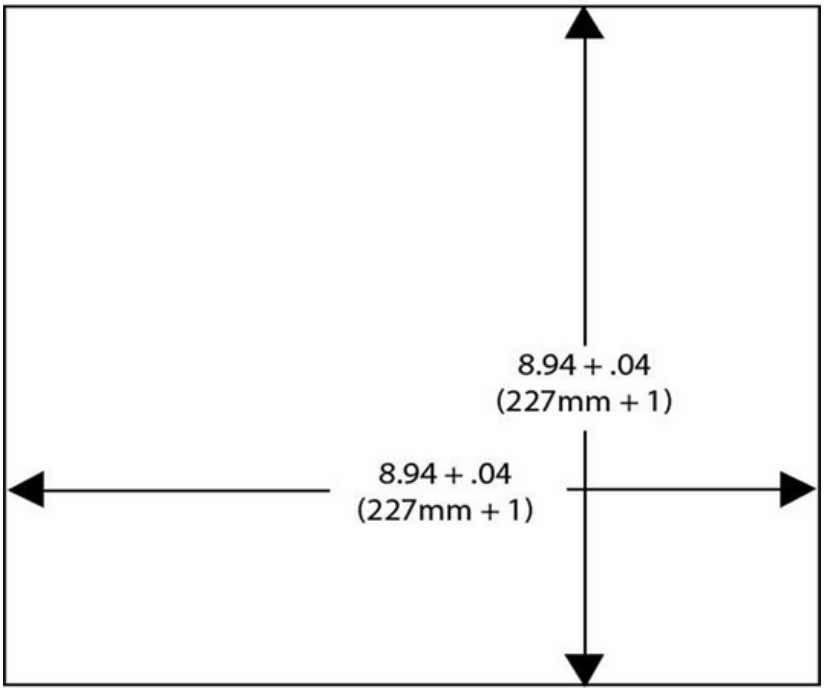




ECO FLOW DUAL FILTER FAN - ECF 60-115

Model	Weight (lbs)	Amps current Draw at 115 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-60-115	2.7 lbs	0.23	1x6"	10.03x10.03x4.20

CUT OUT DIAGRAM (INCHES)

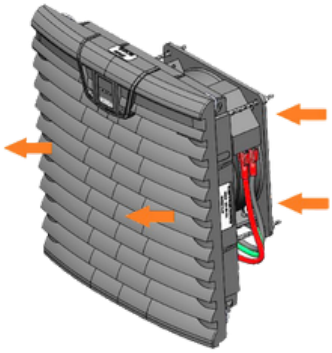


Eco Flow Dual Filter Fan
ECF 60-115
Plastic Filter Fan Kit

MADE IN USA

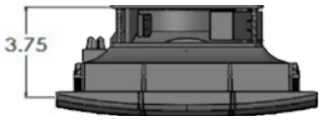
ISO 9001:2015 CERTIFIED

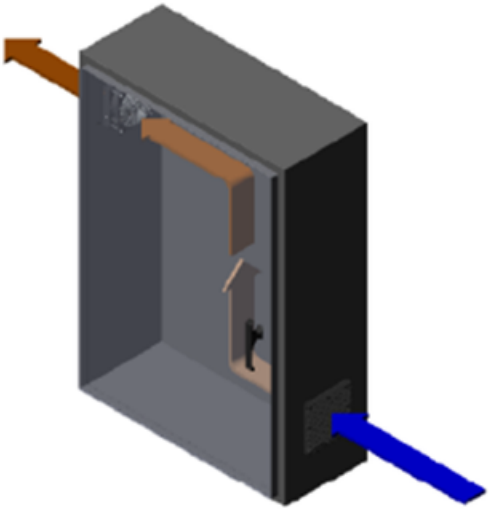
ECO FLOW DUAL FILTER FAN - ECF 60-115
PRODUCT SPECIFICATIONS

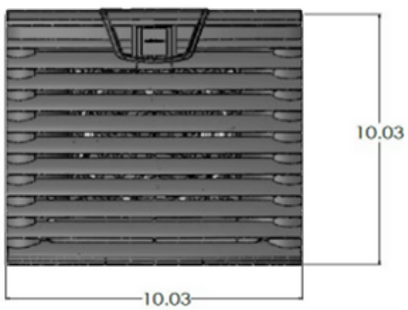


1. Fan specifications: ball Bearing fan,
Voltage 115V, Amps 0.36A, Power ~32W, Noise 56dB,
Max static pressure 0.86 H2O inch
2. CFM through the filter 91 cfm/155m3/h
3. Frame material: ABS Fireproof material of UL94 V-0,
UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature:
-10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction,
resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC,
48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)



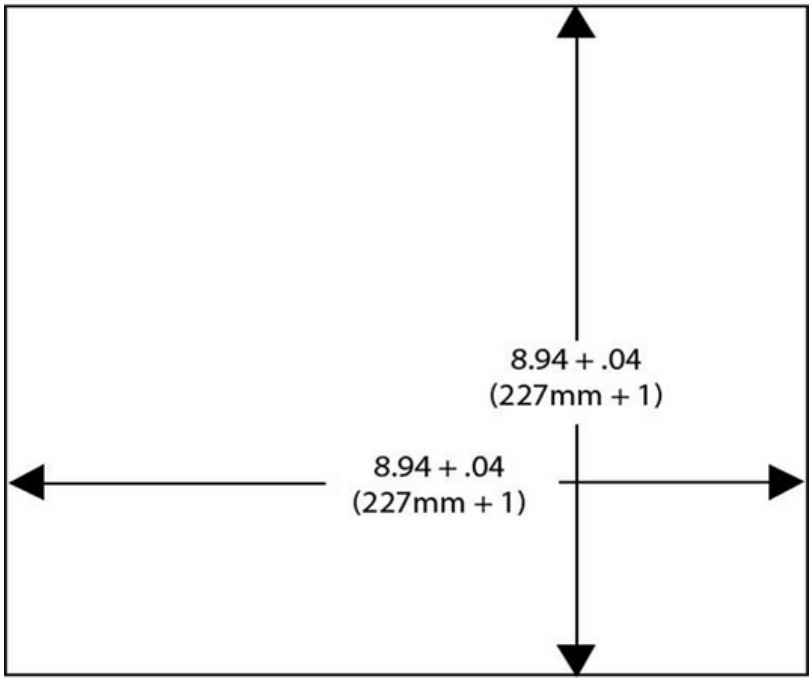




ECO FLOW DUAL FILTER FAN - ECF 60-230

Model	Weight (lbs)	Amps current Draw at 230 volts DC	Fan size	Dimensions-Inches (HxWxD)
ECF-60-230	2.7 lbs	0.11	1x6"	10.03x10.03x4.20

CUT OUT DIAGRAM (INCHES)



Eco Flow Dual Filter Fan
ECF 60-230
Plastic Filter Fan Kit

MADE IN USA

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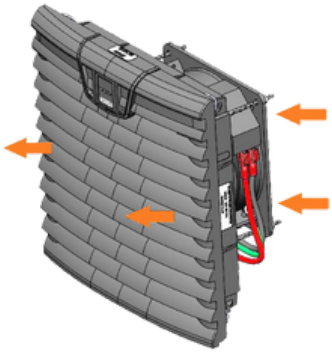
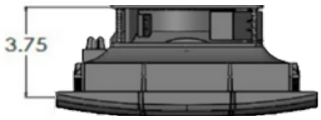
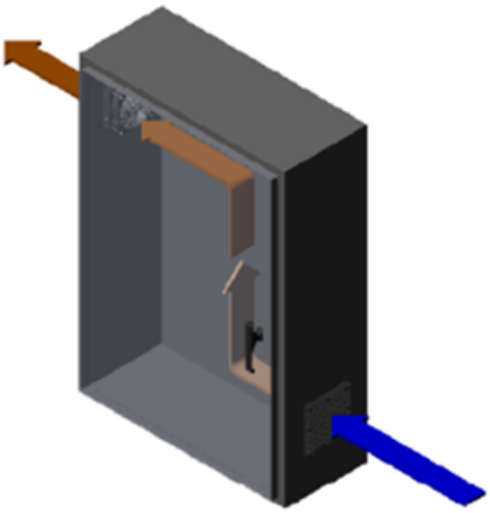
ECO FLOW DUAL FILTER FAN - ECF 60-230
PRODUCT SPECIFICATIONS

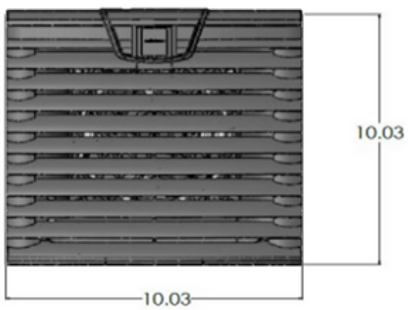


1. Fan specifications: ball Bearing fan,
Voltage 230V, Amps 0.11A, Power ~26W, Noise 58dB,
Max static pressure 0.75 H2O inch
2. CFM through the filter 91 cfm/155m3/h
3. Frame material: ABS Fireproof material of UL94 V-0,
UL light resistance according to UL746C(f1)
4. Standard color
5. Operating temperature/storage temperature:
-10 to 70 C°/-40 to 70 C°
6. Filter material: Synthetic fiber with progressive construction,
resistant to 100C°, moisture resistant to 100% RH, and reusable
7. Connection Type: Terminal
8. Rated Protection IP54
9. Ask for accessories. Available in different Voltages: 24DC,
48 DC, 115 AC, and 230 AC
10. For design, quote, and sizing assistance: call ***(512)595-5700***

DIMENSIONS AND MOUNTING (INCHES)







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