Cooling Systems
for Power Transformers

marangoni · MEISER

Since 1944
More than **80 years** of history

1940s

Mr. José Marangoni, was founded the company, carrying out minor repairs. In 1944, the company began manufacturing **power transformers.**

1950s

The Marangoni industry is **consolidated**, with the **expansion** of its product portfolio for the Brazilian market.

1960s

Marangoni establishes itself as a trusted supplier and **manufacturing benchmark in Brazil** and across South America.

1970s

Marangoni expands its operations by producing cooling systems for power transformers—radiators, cooling fans, and butterfly valves. During this period, **Brown Boveri acquires a 30% stake** in the company.

1980s

The new metalworking division is inaugurated, laying the foundation for the company's current production plants. Around the same time, **Marangoni becomes part of the ABB Group.**

1990s

Invited by Siemens, Marangoni opened it's first international branch **Marangoni Andina**, in Bogota, **Colombia**. It later repurchased its shares from ABB, returning to **full Brazilian ownership.**

2000s

Marangoni implemented **ISO 9001** and a corporate governance program. Following another invitation from Siemens, a new unit, **Marangoni DOO.**, was established in **Croatia**.

The **galvanizing** plant was launched in 2006, and the **road safety plant** in 2007.

2010s

Marangoni entered a **joint venture with Meiser**, a German company, establishing **Marangoni·Meiser** to specialize in metal grating.

In partnership **with Road Steel**, part of **Gonvarri Industries** (Spain company), the company expanded its production and supply of road safety systems.

ISO 14001 was implemented as part of its commitment to environmental management.

2020s

The "Skunk Works" department was created as a core innovation hub dedicated to the development and promotion of new Technologies.

Marangoni formed a partnership with a Ukrainian startup to manufacture and sell the **Mosqitter Brazil**—an eco-friendly pest control solution.

TODAY

In 2025, the company expanded internationally with the establishment of **Marangoni·Meiser USA**, headquartered in **Indianapolis, IN**, with the goal of serving power transformer manufacturers across the **United States.**

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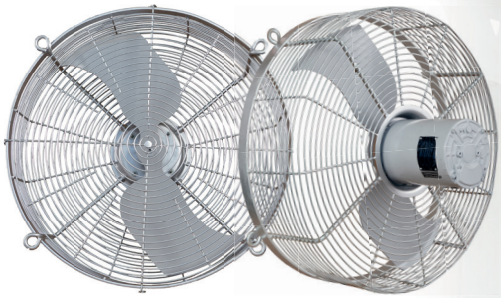
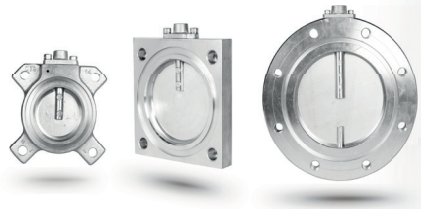
Radiators



Cooling Fans



Butterfly Valves

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COOLING FANS

General Characteristics and Requirements

Service conditions:	According to IEC 60076-1 and IEEE C57.12.00 or unusual service conditions agreed between the purchaser and supplier.
Standard:	IEC 60076-22-6 and IEEE C57.12.36 or unusual service conditions agreed between the purchaser and supplier.
Duty Type:	Continuous operation S1
Mounting Position:	Horizontal and Vertical.
Corrosion Class:	C4 acc. to ISO 12944-2 or another special requests.
Overall Dimension:	See detail in datasheets and drawings.
Technical Parameters:	See the datasheets.

MOTOR CONSTRUCTION

Motor:	According to NEMA MG 1 (UL Certification); 1-phase or 3-phase motor with internal automatic reset overload protections sensing both temperature and current.
Frame:	NEMA 48 with stainless steel shaft Total enclosed motor
Winding Insulation:	Class F
Winding Temperature Rise:	Class B for longer motor life acc. to IEC 60085
Max Ambient Temperature:	+131˚F (+55˚C) or another special requests.
Motor degree protection:	IP54 enclousure according to IEC 60529 or another special requests
Final Coat Standard:	ANSI 70 GRAY
Bearings:	Double sealed ball bearings
Connection Hole:	1/2" NPT
Drain Plugs:	The motor includes strategically positioned drain holes for both horizontal and vertical operation, according to instructions supplied with each fan.

Model	RPM	CFM(1)	dB(A)
CF19	850	2758	51.5
	1140	2936	56
	1750	4806	63.5
CF19+	1140	6230	64
CF23	850	4225	52
	1140	6094	58.5
	1750	8156	66.5
CF26	850	4010	47.5
	1140	6164	56.5
	1750	8355	68
CF27	850	5419	50.9
	1140	7294	60
	1750	10510	71.5

+ (plus): optimized air flow - better performance.

FAN BLADE

Blade:	Each blade assembly is manufactured as a single piece of aluminum

GUARDS AND HOUSING

Protection:	Acc. to IEC 60529 IP20 and OSHA requirements.
Finishing:	Hot-Dip Galvanizing ASTM A123 and/or EN 1461 or Stainless Steel in special requests

CFM(1): Actual AirFlow in CFM as measured with Horizontal Airflow on discharge side of one tranformer radiator.

SOUND PRESSURE: Values represent the average of 5 readings obtained at 2 meters with free discharge and do not include any corrections.

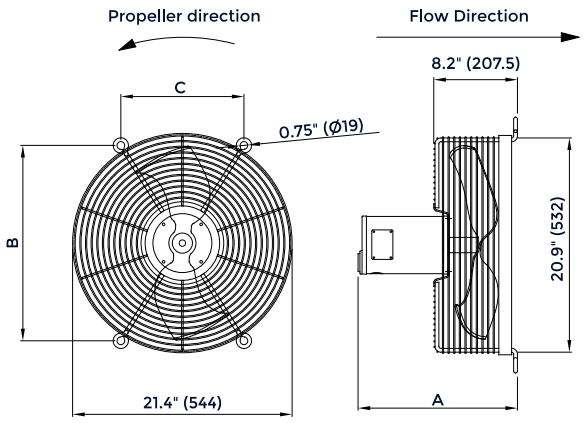
NOTICE: The performance data provided represents typical values and is not guaranteed. Variations may occur due to standard manufacturing tolerances.

COOLING FANS CF19 and CF19+

General Characteristics and Requirements

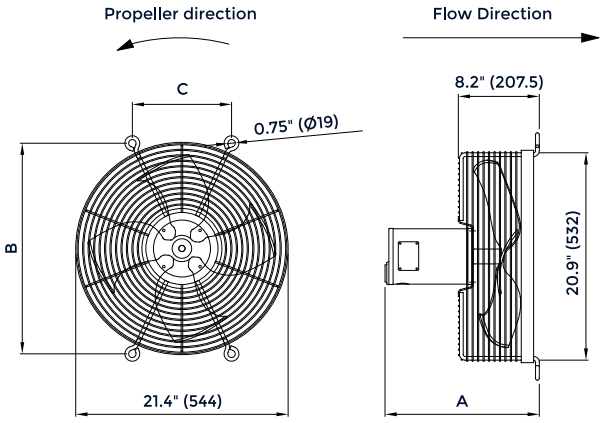
Part Number	Freq. (Hz)	Phase	Voltage (V)	Air Flow CFM (1)	Sound Pressure db(A)	Poles	Speed	Power HP (kW)	Dimension "A"
CF19 4115P01	60	1	115-120 /208-240	2758	51.5	8	850	1/8 (.09kW)	14.9" (379)
CF19 4115P03	60	1	115-120 /208-240	2936	56	6	1140	1/6 (.12kW)	14.9" (379)
CF19 4115P06	60	1	115-120 /208-240	4806	63.5	4	1750	1/4 (.19kW)	14.1" (359)
CF19+ 4116P01	60	1	115-120 /208-240	6230	64	6	1140	1/3 (.25kW)	15.5" (394)
CF19 4115P02	60	3	208-240 /460-480	2758	51.5	8	850	1/8 (.09kW)	14.9" (379)
CF19 4115P04	60	3	208-240 /460-480	2936	56	6	1140	1/6 (.12kW)	13.7" (349)
CF19 4115P05	60	3	575-600	2936	56	6	1140	1/6 (.12kW)	13.7" (349)
CF19 4115P07	60	3	208-240 /460-480	4806	63.5	4	1750	1/2 (.37kW)	14.9" (379)
CF19 4115P08	60	3	575-600	4806	63.5	4	1750	1/2 (.37kW)	14.9" (379)
CF19+ 4116P02	60	3	208-240 /460-480	6230	64	6	1140	1/3 (.25kW)	14.9" (379)
CF19+ 4116P03	60	3	575-600	6230	64	6	1140	1/3 (.25kW)	14.9" (379)

CF19



Dimensions	Inch (mm)
Dimension "B"	19" (483)
Dimension "C"	12" (305)
Ø External	21.4" (544)
Ø Holes	0.75" (19)

CF19+



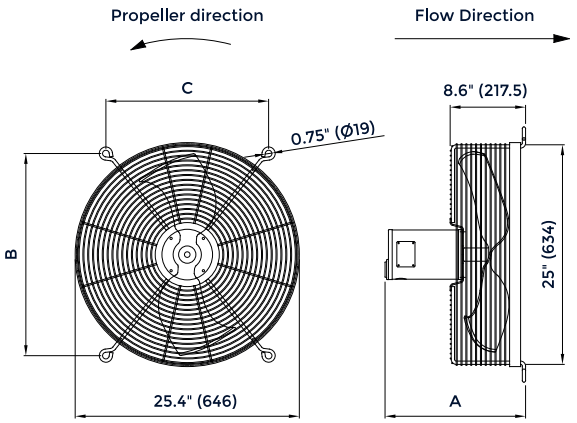
Dimensions	Inch (mm)
Dimension "B"	21.25" (540)
Dimension "C"	10" (254)
Ø External	21.4" (544)
Ø Holes	0.75" (19)

COOLING FANS CF23

General Characteristics and Requirements

Part Number	Freq. (Hz)	Phase	Voltage (V)	Air Flow CFM (1)	Sound Pressure db(A)	Poles	Speed	Power HP (kW)	Dimension "A"
CF23 4117P01	60	1	115-120 /208-240	4225	52	8	850	1/8 (.09kW)	15.3" (389)
CF23 4117P03	60	1	115-120 /208-240	6094	58.5	6	1140	1/6 (.12kW)	15.3" (389)
CF23 4117P06	60	1	115-120 /208-240	8156	66,5	4	1750	1/2 (.37kW)	15.3" (389)
CF23 4117P02	60	3	208-240 /460-480	4225	52	8	850	1/8 (.09kW)	15.3" (389)
CF23 4117P04	60	3	208-240 /460-480	6094	58.5	6	1140	1/6 (.12kW)	14.1" (359)
CF23 4117P05	60	3	575-600	6094	58.5	6	1140	1/6 (.12kW)	14.1" (359)
CF23 4117P07	60	3	208-240 /460-480	8156	66.5	4	1750	1/2 (.37kW)	15.3" (389)
CF23 4117P08	60	3	575-600	8156	66.5	4	1750	1/2 (.37kW)	15.3" (389)

CF23



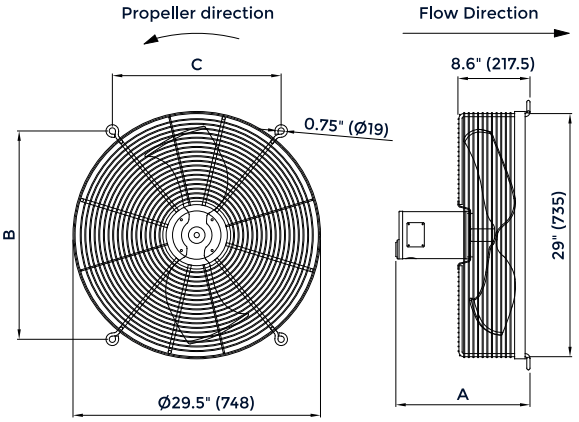
Dimensions	Inch (mm)
Dimension "B"	23" (584)
Dimension "C"	18.5" (470)
Ø External	25.4" (646)
Ø Holes	0.75" (19)

COOLING FANS CF26

General Characteristics and Requirements

Part Number	Freq. (Hz)	Phase	Voltage (V)	Air Flow CFM (1)	Sound Pressure db(A)	Poles	Speed	Power HP (kW)	Dimension "A"
CF26 4119P01	60	1	115-120 /208-240	4010	47.5	8	850	1/8 (.09kW)	15.3" (389)
CF26 4119P03	60	1	115-120 /208-240	6164	56.5	6	1140	1/6 (.12kW)	15.3" (389)
CF26 4119P06	60	1	115-120 /208-240	8355	68	4	1750	1/2 (.37kW)	15.3" (389)
CF26 4119P02	60	3	208-240 /460-480	4010	47.5	8	850	1/8 (.09kW)	15.3" (389)
CF26 4119P04	60	3	208-240 /460-480	6164	56.5	6	1140	1/6 (.12kW)	14.1" (359)
CF26 4119P05	60	3	575-600	6164	56.5	6	1140	1/6 (.12kW)	14.1" (359)
CF26 4119P07	60	3	208-240 /460-480	8355	68	4	1750	1/2 (.37kW)	15.3" (389)
CF26 4119P08	60	3	575-600	8355	68	4	1750	1/2 (.37kW)	15.3" (389)

CF26



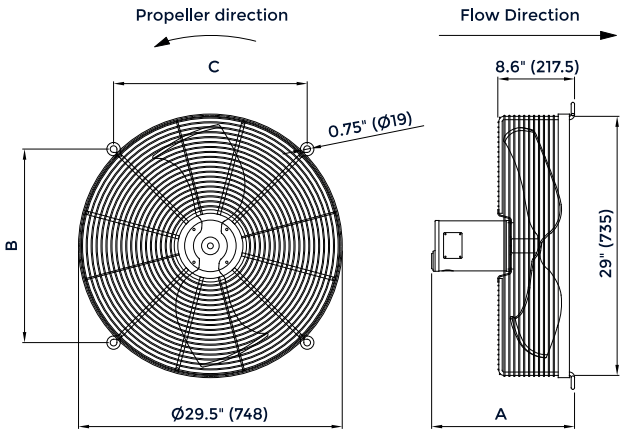
Dimensions	Inch (mm)
Dimension "B"	24.75" (629)
Dimension "C"	20.06" (510)
Ø External	29.5" (748)
Ø Holes	0.75" (19)

COOLING FANS CF27

General Characteristics and Requirements

Part Number	Freq. (Hz)	Phase	Voltage (V)	Air Flow CFM (1)	Sound Pressure db(A)	Poles	Speed	Power HP (kW)	Dimension "A"
CF27 4120P01	60	1	115-120 /208-240	5419	50.9	8	850	1/8 (.09kW)	15.3" (389)
CF27 4120P03	60	1	115-120 /208-240	7294	60	6	1140	1/3 (.25kW)	15.9" (404)
CF27 4120P06	60	1	115-120 /208-240	10510	71.5	4	1750	1 (.75kW)	15.9" (404)
CF27 4120P02	60	3	208-240 /460-480	5419	50.9	8	850	1/8 (.09kW)	15.3" (389)
CF27 4120P04	60	3	208-240 /460-480	7294	60	6	1140	1/3 (.25kW)	15.3" (389)
CF27 4120P05	60	3	575-600	7294	60	6	1140	1/3 (.25kW)	15.3" (389)
CF27 4120P07	60	3	208-240/ 460-480	10510	71.5	4	1750	1 (.75kW)	15.9" (404)
CF27 4120P08	60	3	575-600	10510	71.5	4	1750	1 (.75kW)	15.9" (404)

CF27



Dimensions	Inch (mm)
Dimension "B"	21.6" (549)
Dimension "C"	21.6" (549)
Ø External	29.5" (748)
Ø Holes	0.75" (19)

OUR MANUFACTURING FACILITIES

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