
Convection Heater Explosion-Proof type CF1

Sinus Jevi CF1 are for hazardous locations heating, rely on the CF1 heater for the most dependable, trouble-free service available. The CF1 heaters are manufactured to satisfy the demanding requirements of the oil and gas drilling industry. The unique design features and rugged, quality construction details that have made CF1 heaters the choice of the oil and gas industry are also appreciated by other heavy-duty industries throughout the world.



SINUS JEVI Ω



Liquids



Gasses



Solids



Spaces



Resistors

CF1 are for hazardous locations heating, rely on the CF1 heater for the most dependable, trouble-free service available. The CF1 heaters are manufactured to satisfy the demanding requirements of the oil and gas drilling industry. The harsh operating conditions of this application require the utmost in heater reliability.

The unique design features and rugged, quality construction details that have made CF1 heaters the choice of the oil and gas industry are also appreciated by other heavy-duty industries throughout the world. The CF1 ProVector explosion-proof heater offers the following outstanding features and benefits:



FEATURE	BENEFIT
sloped-top cabinet	• prevents objects from being set on top which restrict airflow
no exposed copper or brass	• corrosion resistant, suitable for H ² S environments
high-velocity airflow	• heats up area faster with better heat distribution
14-gauge steel cabinet,	• rugged reliability and unsurpassed corrosion resistant
available with stainless steel construction	
one of the shortest cabinet lengths available	• smaller profile utilizes less wall and floor space
optional built-in thermostat	• reduced field installation costs
incoloy 840 heating elements	• longer life expectancy
radial-embossed aluminium plate fins	• reduced fin warping for better heat transfer capabilities
galvanized steel mounting brackets	• quick installation
approvals (group A, B, C, D, IIA, IIB & IIC available (IP55 moisture ingress protection)	• industry first approvals for built-in thermostat with group A, B, C, D, IIA, IIB, IIC ratings

General specifications for all CF1 models

Nominal Wattage	0.75 - 2.69 & 3.03 kW	3.03 & 3.33 - 4.03 kW	4.76 - 6.3 kW
Net Weight	58.1 lbs	83.5 lbs	95.6 lbs
	26.4 kg	37.9 kg	43.4 kg
Shipping weight	65.4 lbs	92.5 lbs	108.4 lbs
	29.7 kg	42.0 kg	49.2 kg
Approvals	CE ⚡ II2 G Ex d IIA, IIB, IIC T2 - T4		
Enclosures	Cast or extruded aluminium supplied with either a bolt on cover or two screwed on covers. Suitable for either a Defender or XT thermostat.		
Mounting brackets	Two, 14-gauge (0.075") (1.90 mm) galvanized steel or stainless brackets.		
Heating elements	Two incoloy 840 sheathed elements.		
Optional built-in thermostat	Explosion-proof room thermostat, available with IP55 rating and suitable for Class I, Div. 1 & 2, Group A, B, C, D and Class I, Zone 1 & 2 Group IIA, IIB, IIC		
Cabinet material	14 Ga. (0.075") (1.90 mm) epoxy powder coated steel. Rear panel is galvanized or optional AISI 304 material with stainless steel mounting hardware.		
Temperature code rating	Temperature Code T2A - 280°C (536°F) & T3 - 200°C (392°C) & T4 - 135°C (275°F)		
Hazardous location classifications	Defender housing Class I, Div. 1 & 2 Groups B, C & D; Zones 1 & 2, Groups IIA, IIB + H2		
Optional Built-in Thermostat	Flame-proof. 2°C to 28°C (36°F to 82°F)		
Without built-in thermostat	X-max housing Class I, Div. 1 & 2, Groups A, B, C & D; Zones 1 & 2, Groups IIA, IIB + H2		
With built-in thermostat	XCT thermostat: Class I, Div. 1 & 2, Groups C & D; Zones 1 & 2, Groups IIA & IIB XT thermostat: Class I, Div. 1 & 2, Groups A, B, C & D; Zones 1 & 2 Groups IIA, IIB & IIC		
Temperature limitations	Operational: -45°C to 40°C (-49°F to 104°F)		
	Storage: -45°C to 80°C (-49°F to 176°F), optional up to 149°C (300°F) available		

Specifications for IIB models

Model	Voltage	Nominal Wattage	Phase	Unit Current	Temperature Coding	Article number
CF1-220150-010-T4-IIB	220 V	1.00 kW	1	4.60 A	T4	Q220 151 010
CF1-220150-015-T3-IIB	220 V	1.50 kW	1	6.90 A	T3	Q220 151 015
CF1-220150-030-T2-IIB	220 V	3.00 kW	1	13.8 A	T2	Q220 151 030
CF1-220150-040-T3-IIB	220 V	4.00 kW	1	18.3 A	T3	Q220 151 040
CF1-220150-064-T2-IIB*	220 V	6.40 kW	1	29.0 A	T2	Q220 151 064
CF1-230150-011-T4-IIB	230 V	1.10 kW	1	4.80 A	T4	Q230 151 011
CF1-230150-017-T3-IIB	230 V	1.70 kW	1	7.20 A	T3	Q230 151 017
CF1-230150-030-T3-IIB	230 V	3.00 kW	1	13.0 A	T3	Q230 151 030
CF1-230150-033-T2-IIB	230 V	3.30 kW	1	14.4 A	T2	Q230 151 033
CF1-230150-044-T2-IIB	230 V	4.40 kW	1	19.2 A	T2	Q230 151 044
CF1-230150-070-T2-IIB*	230 V	7.00 kW	1	30.3 A	T2	Q230 151 070
CF1-240150-012-T4-IIB	240 V	1.20 kW	1	5.00 A	T4	Q240 151 012
CF1-240150-018-T3-IIB	240 V	1.80 kW	1	7.50 A	T3	Q240 151 018
CF1-240150-036-T2-IIB	240 V	3.60 kW	1	15.0 A	T2	Q240 151 036
CF1-240150-030-T3-IIB	240 V	3.00 kW	1	12.5 A	T3	Q240 151 030
CF1-240150-048-T2-IIB	240 V	4.80 kW	1	20.0 A	T2	Q240 151 048
CF1-240150-076-T2-IIB	240 V	7.60 kW	1	31.7 A	T2	Q240 151 076
CF1-254150-030-T3-IIB	254 V	3.00 kW	1	11.8 A	T3	Q254 151 030
CF1-380150-0075-T4-IIB	380 V	0.75 kW	1	2.00 A	T4	Q380 151 075
CF1-380150-011-T4-IIB	380 V	1.10 kW	1	3.00 A	T4	Q380 151 011
CF1-380150-023-T3-IIB	380 V	2.30 kW	1	5.90 A	T3	Q380 151 023
CF1-380150-030-T3-IIB	380 V	3.00 kW	1	7.90 A	T3	Q380 151 030
CF1-380150-048-T2-IIB	380 V	4.80 kW	1	12.5 A	T2	Q380 151 048
CF1-400150-0083-T4-IIB	400 V	0.83 kW	1	2.10 A	T4	Q400 151 083
CF1-400150-013-T4-IIB	400 V	1.30 kW	1	3.10 A	T4	Q400 151 013
CF1-400150-025-T3-IIB	400 V	2.50 kW	1	6.30 A	T3	Q400 151 025
CF1-400150-033-T3-IIB	400 V	3.30 kW	1	8.30 A	T3	Q400 151 033
CF1-400150-053-T2-IIB	400 V	5.30 kW	1	13.2 A	T2	Q400 151 053
CF1-400150-0090-T4-IIB	400 V	0.90 kW	1	2.20 A	T4	Q400 151 009
CF1-415150-014-T4-IIB	415 V	1.40 kW	1	3.20 A	T4	Q415 151 014
CF1-415150-027-T2-IIB	415 V	2.70 kW	1	6.50 A	T2	Q415 151 027
CF1-415150-036-T3-IIB	415 V	3.60 kW	1	8.70 A	T3	Q415 151 036
CF1-415150-057-T2-IIB	415 V	5.70 kW	1	13.7 A	T2	Q415 151 057

*An optional built-in thermostat is not available as it exceeds current capacity.
To order a heater with a built-in room thermostat, add a "T" suffix to the article number.

Specifications for IIC models

Model	Voltage	Nominal Wattage	Phase	Unit Current	Temperature Coding	Article number
CF1-220150-010-T4-IIC	220 V	1.00 kW	1	4.60 A	T4	Q220 150 010
CF1-220150-015-T3-IIC	220 V	1.50 kW	1	6.90 A	T3	Q220 150 015
CF1-230150-011-T4-IIC	230 V	1.10 kW	1	4.80 A	T4	Q230 150 011
CF1-230150-017-T3-IIC	230 V	1.70 kW	1	7.20 A	T3	Q230 150 017
CF1-230150-030-T3-IIC	230 V	3.00 kW	1	13.0 A	T3	Q230 150 030
CF1-240150-012-T4-IIC	240 V	1.20 kW	1	5.00 A	T4	Q240 150 012
CF1-240150-018-T3-IIC	240 V	1.80 kW	1	7.50 A	T3	Q240 150 018
CF1-240150-030-T3-IIC	240 V	3.00 kW	1	12.5 A	T3	Q240 150 030
CF1-254150-030-T3-IIC	254 V	3.00 kW	1	11.8 A	T3	Q254 150 030
CF1-380150-0075-T4-IIC	380 V	0.75 kW	1	2.00 A	T4	Q380 150 075
CF1-380150-011-T4-IIC	380 V	1.10 kW	1	3.00 A	T4	Q380 150 011
CF1-380150-030-T3-IIC	380 V	3.00 kW	1	7.90 A	T3	Q380 150 030
CF1-380150-036-T3-IIC	380 V	3.60 kW	1	9.00 A	T3	Q380 150 036
CF1-400150-0083-T4-IIC	400 V	0.83 kW	1	2.10 A	T4	Q400 150 083
CF1-400150-013-T4-IIC	400 V	1.30 kW	1	3.10 A	T4	Q400 150 013
CF1-400150-033-T3-IIC	400 V	3.30 kW	1	8.30 A	T3	Q400 150 033
CF1-400150-036-T3-IIC	400 V	3.60 kW	1	9.00 A	T3	Q400 150 036
CF1-400150-0090-T4-IIC	400 V	0.90 kW	1	2.20 A	T4	Q400 150 009
CF1-415150-014-T4-IIC	415 V	1.40 kW	1	3.20 A	T4	Q415 150 014
CF1-415150-036-T3-IIC	415 V	3.60 kW	1	8.70 A	T3	Q415 150 036

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SINUS JEVI

Sinus is one of the pioneers in the field of explosion proof heating equipment, today we are still operating at the forefront. We manufacture according to ATEX as well as IECEx and EAC directives.

For the production of Ex-proof equipment a PQAN (Product Quality Assurance Notification) is issued by TUV-Nord. Our ISO-9001 and ISO-14001 systems are also monitored by this organisation.

NIBE