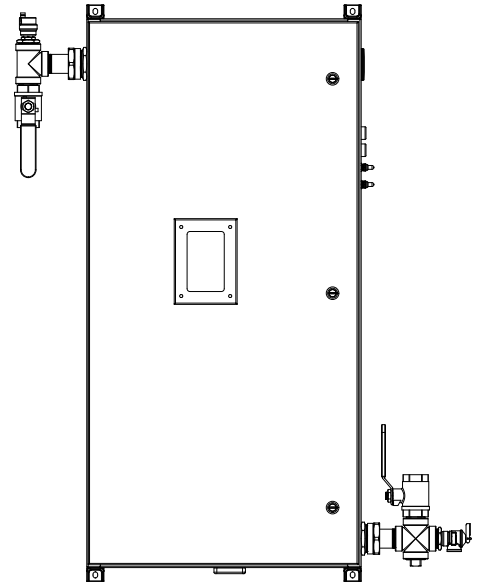


CERO Series: CERO 81, CERO 90, CERO 108, CERO 144 | NEMA 3/4/4X

Specifications

Model	CERO 81, CERO 90, CERO 108, CERO 144
Phase	3-phase
Inlet/outlet pipe connection	CERO 81-108: 1" female NPT CERO 144: 1 1/4" female NPT
Heat exchanger material	316L stainless steel
Enclosure rating	NEMA 3 standard, NEMA 4/4X available
Operating pressure range	4 - 150 psi (0.27 - 10.3 bar)
Maximum temperature output	185 °F (85 °C)
Temperature adjustment range	60 - 185°F (16 - 85°C)
Temperature adjustment increment	1 °F (1 °C)
Number of heating elements	CERO 81-108: 18 CERO 144: 24
Minimum activation flow	2.0 gpm (7.6 l/m)
Maximum flow at 60 psi	40 gpm (151.4 l/m)



Model	Part Number	Voltage	Phase	kW	Amps	3P Breaker Size (A)	Temperature Rise °F (gpm = kW x 6.83 / Δt)				
							5 gpm	10 gpm	15 gpm	20 gpm	40 gpm
CERO 81	CERO-81-240D	240	3-phase delta	81.07	195.04	225	>100	55	37	28	14
	CERO-81-400D	400	3-phase delta	75.00	108.25	125	>100	51	34	26	13
	CERO-81-480D	480	3-phase delta	81.07	97.52	110	>100	55	37	28	14
CERO 90	CERO-90-480D	480	3-phase delta	99.91	120.17	150	>100	68	45	34	17
CERO 108	CERO-108-400D	400	3-phase delta	99.85	144.12	175	>100	68	45	34	17
	CERO-108-480D	480	3-phase delta	108.00	129.90	150	>100	74	49	37	18
	CERO-108-575D	575	3-phase delta	108.00	108.44	125	>100	74	49	37	18
CERO 144	CERO-144-400D	400	3-phase delta	133.14	192.17	225	>100	91	60	45	23
	CERO-144-480D	480	3-phase delta	144.00	173.21	200	>100	98	66	49	25
	CERO-144-575D	575	3-phase delta	144.00	144.59	175	>100	98	66	49	25



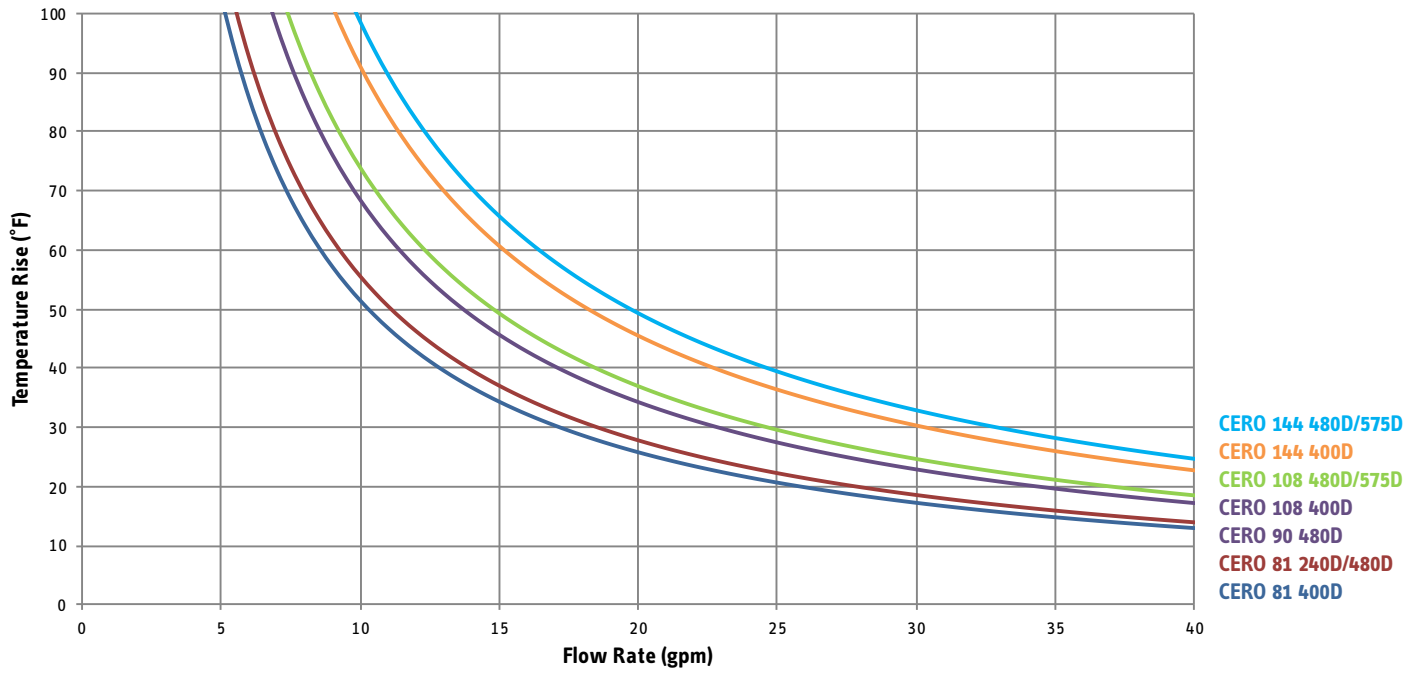
Conforms to ANSI/UL Std. 499
Certified to CAN/CSA
Std. C22.2 No.88



6 years against leakage /
2 years against defects in
workmanship & materials

rev. 12.2019 Due to our continuous process of engineering and technological advancement, specifications may change without notice.

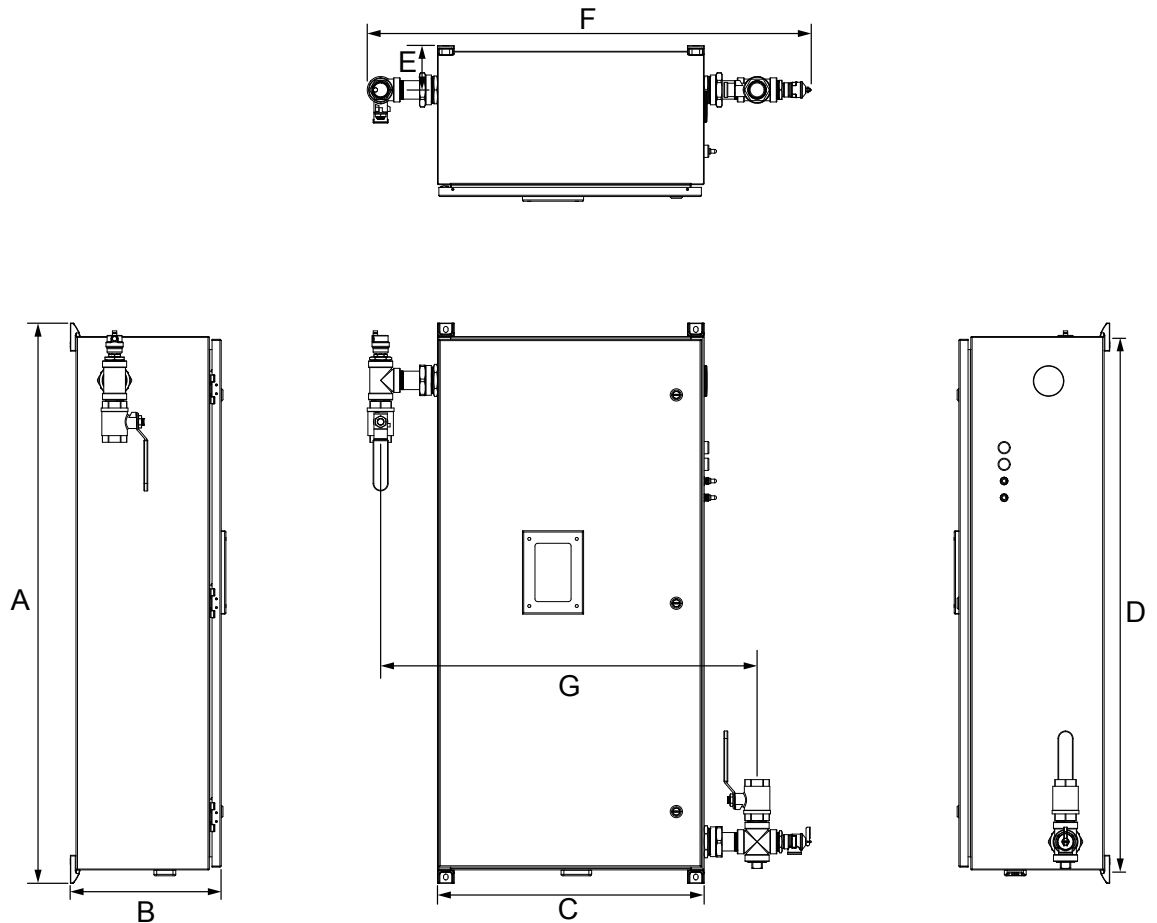
Flow Rate



Dimensions

Dimensions

- A $50 \frac{3}{8}$ " (1280 mm)
- B $13 \frac{5}{8}$ " (346 mm)
- C 24 " (610 mm)
- D 48 " (1219 mm)
- E 4 " (102 mm)
- F $40 \frac{5}{8}$ " (1032 mm)
- G $34 \frac{1}{4}$ " (860 mm)



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