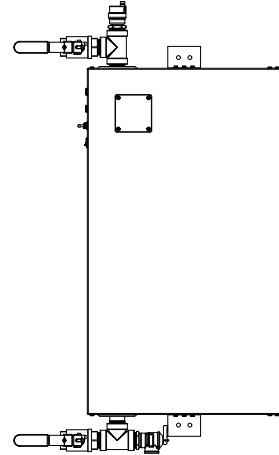


CES Series: CES 48, CES 54, CES 60, CES 72 | NEMA 3

Specifications

Model	CES 48, CES 54, CES 60, CES 72
Phase	3-phase
Inlet/outlet pipe connection	1" female NPT
Heat exchanger material	316L stainless steel
Enclosure rating	NEMA 3 shown, NEMA 4/4X available
Operating pressure range	4 - 150 psi (0.27 - 10.3 bar)
Maximum temperature output	90 °F (32 °C)
Temperature adjustment range	60 - 90 °F (16 - 32 °C)
Temperature adjustment increment	1 °F (1 °C)
Number of heating elements	12
Minimum activation flow	2.0 gpm (7.6 l/m)
Maximum flow at 60 psi	32 gpm (121.1 l/m)



Model	Part Number	Voltage	Phase	kW	Amps	3P Breaker Size (A)	Temperature Rise °F <small>(gpm = kW x 6.83 / Δt)</small>				
							3 gpm	4 gpm	5 gpm	10 gpm	20 gpm
CES 48	CES-048-208D	208	3-phase delta	45.07	125.09	150	>100	77	62	31	15
	CES-048-240D	240	3-phase delta	50.00	120.28	150	>100	86	68	34	17
	CES-048-400D	400	3-phase delta	48.61	70.16	80	>100	85	68	34	17
	CES-048-480D	480	3-phase delta	50.00	60.14	70	>100	86	68	34	17
	CES-048-575D	575	3-phase delta	47.99	48.19	60	>100	82	65	33	16
CES 54	CES-054-208D	208	3-phase delta	54.08	150.11	175	>100	92	74	37	18
	CES-054-240D	240	3-phase delta	54.05	130.02	150	>100	92	74	37	18
	CES-054-400D	400	3-phase delta	58.33	84.20	100	>100	95	76	38	19
	CES-054-480D	480	3-phase delta	54.05	65.01	80	>100	92	74	37	18
CES 60	CES-060-208D	208	3-phase delta	63.09	175.13	200	>100	>100	82	41	21
	CES-060-240D	240	3-phase delta	60.00	144.34	175	>100	>100	82	41	21
	CES-060-400D	400	3-phase delta	66.57	96.08	110	>100	>100	82	41	21
	CES-060-480D	480	3-phase delta	60.00	72.17	80	>100	>100	82	41	21
CES 72	CES-072-208D	208	3-phase delta	72.00	199.85	225	>100	>100	98	49	25
	CES-072-240D	240	3-phase delta	72.00	173.21	200	>100	>100	98	49	25
	CES-072-480D	480	3-phase delta	72.00	86.60	100	>100	>100	98	49	25
	CES-072-575D	575	3-phase delta	72.00	72.29	80	>100	>100	99	49	25

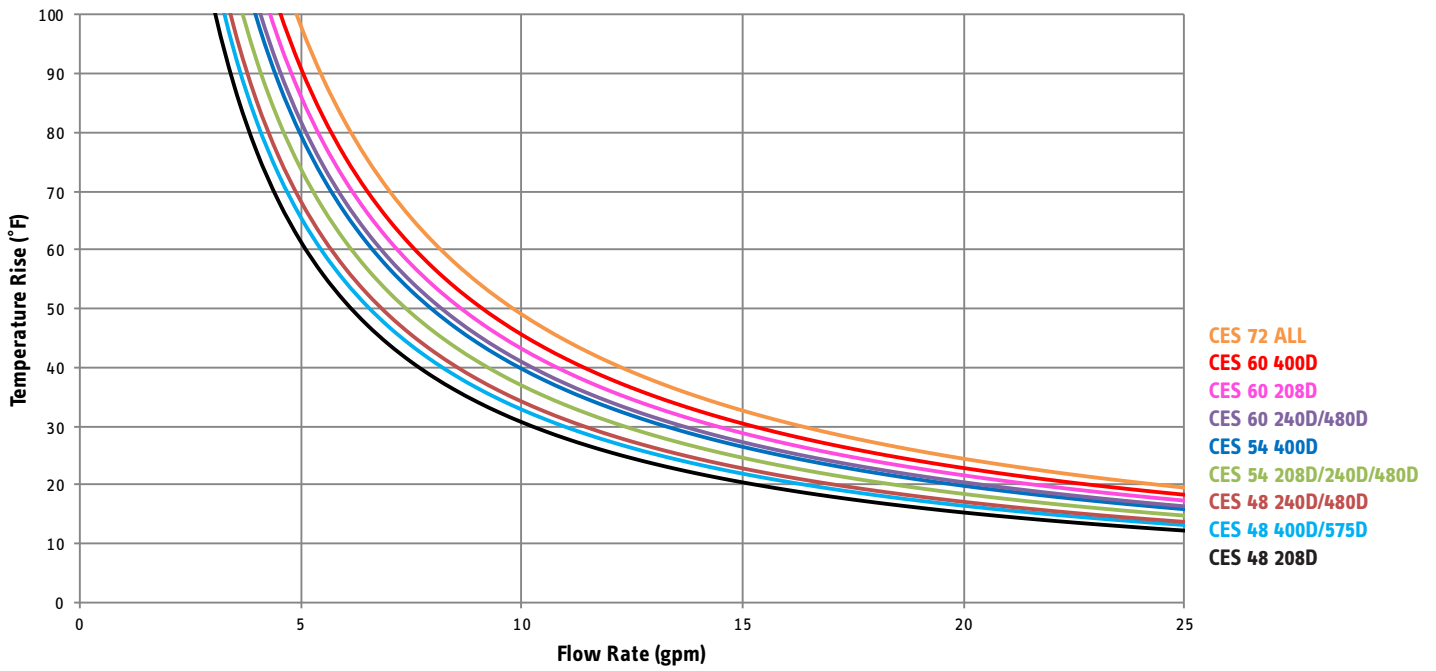


Conforms to ANSI/UL Std. 499
 Certified to CAN/CSA
 Std. C22.2 No.88



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

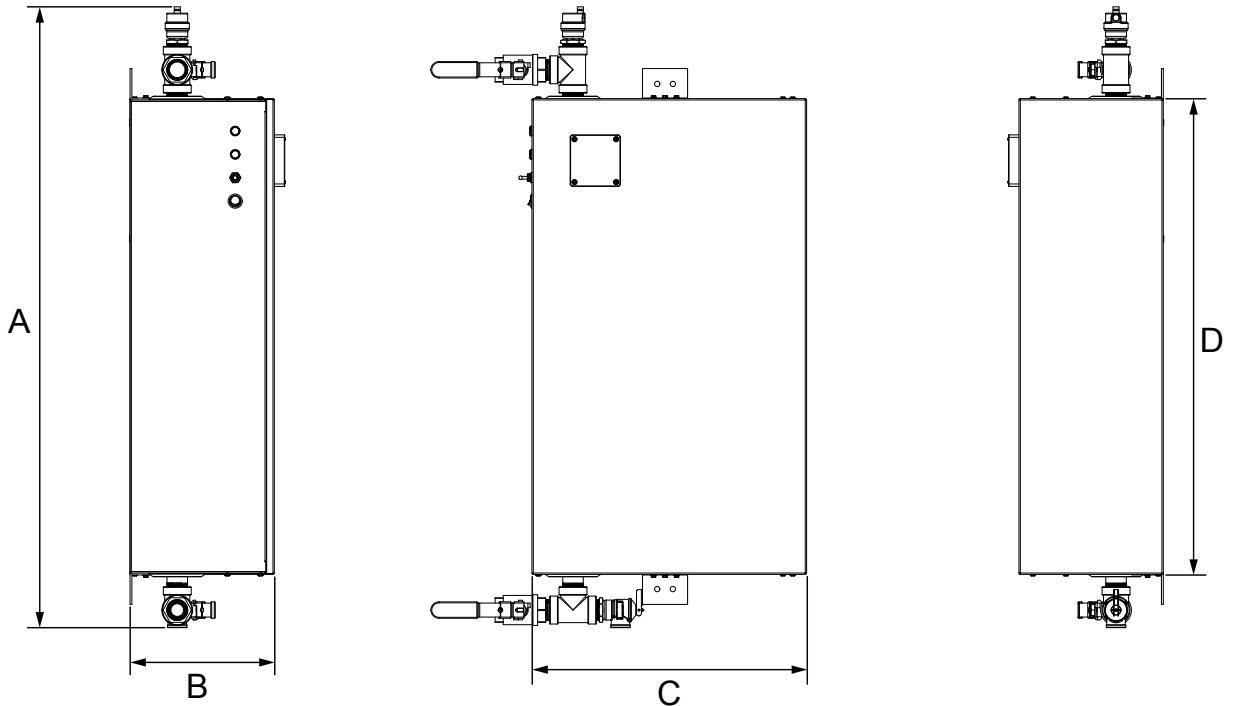
Flow Rate



Dimensions

Dimensions

- A $39\frac{7}{8}$ " (1013 mm)
- B $9\frac{1}{4}$ " (235 mm)
- C $18\frac{5}{8}$ " (473 mm)
- D $30\frac{1}{2}$ " (775 mm)
- E 3" (76 mm)



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