

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

Specifications

<b>Model</b>	CES Plus 48 kW, CES Plus 54 kW, CES Plus 60 kW, CES Plus 72 kW
<b>Phase</b>	3-phase
<b>Inlet/outlet pipe connection</b>	1" female NPT
<b>Heat exchanger material</b>	316L stainless steel
<b>Enclosure rating</b>	NEMA 3 shown, NEMA 4/4X available
<b>Operating pressure range</b>	4-145 psi (0.28-10 bar)
<b>Maximum temperature output</b>	90 °F (32 °C)
<b>Temperature adjustment range</b>	60-90 °F (16-32 °C)
<b>Temperature adjustment increment</b>	1 °F (1 °C)
<b>Number of heating elements</b>	12
<b>Minimum activation flow</b>	3.75 gpm (14.2 l/m), DN 25 flowmeter
<b>Maximum flow at 60 psi</b>	40 gpm (151.4 l/m)



Model	Part Number	Voltage	Phase	kW	Amps	3P Breaker Size (A)	Temperature Rise °F				
							3 gpm	4 gpm	5 gpm	10 gpm	20 gpm
CES Plus 48 kW	CESPLUS-048-208	208	3-phase delta	45.07	125.09	150	>100	77	62	31	15
	CESPLUS-048-240	240	3-phase delta	50.00	120.28	150	>100	85	68	34	17
	CESPLUS-048-480	480	3-phase delta	50.00	60.14	70	>100	85	68	34	17
	CESPLUS-048-575	575	3-phase delta	47.99	48.19	60	>100	82	66	33	16
CES Plus 54 kW	CESPLUS-054-208	208	3-phase delta	54.08	150.11	175	>100	92	74	37	18
	CESPLUS-054-240	240	3-phase delta	54.05	130.02	150	>100	92	74	37	18
	CESPLUS-054-480	480	3-phase delta	54.05	65.01	80	>100	92	74	37	18
CES Plus 60 kW	CESPLUS-060-208	208	3-phase delta	63.09	175.13	200	>100	>100	86	43	22
	CESPLUS-060-240	240	3-phase delta	60.00	144.34	175	>100	>100	82	41	21
	CESPLUS-060-480	480	3-phase delta	60.00	72.17	80	>100	>100	82	41	21
CES Plus 72 kW	CESPLUS-072-208D	208	3-phase delta	72.00	199.85	225	>100	>100	98	49	25
	CESPLUS-072-240D	240	3-phase delta	72.00	173.21	200	>100	>100	98	49	25
	CESPLUS-072-480D	480	3-phase delta	72.00	86.60	100	>100	>100	98	49	25
	CESPLUS-072-575D	575	3-phase delta	72.00	72.29	80	>100	>100	98	49	25



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

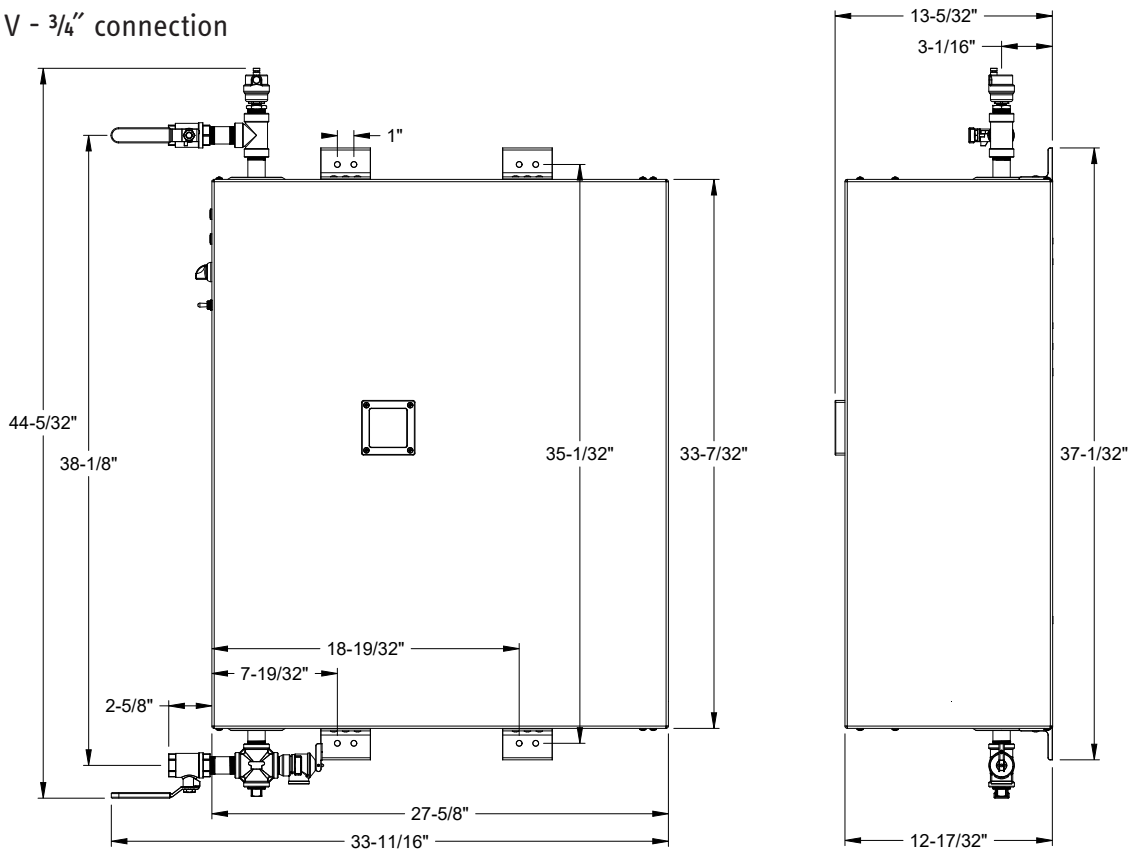


6 years against leakage /  
2 years against defects in  
workmanship & materials

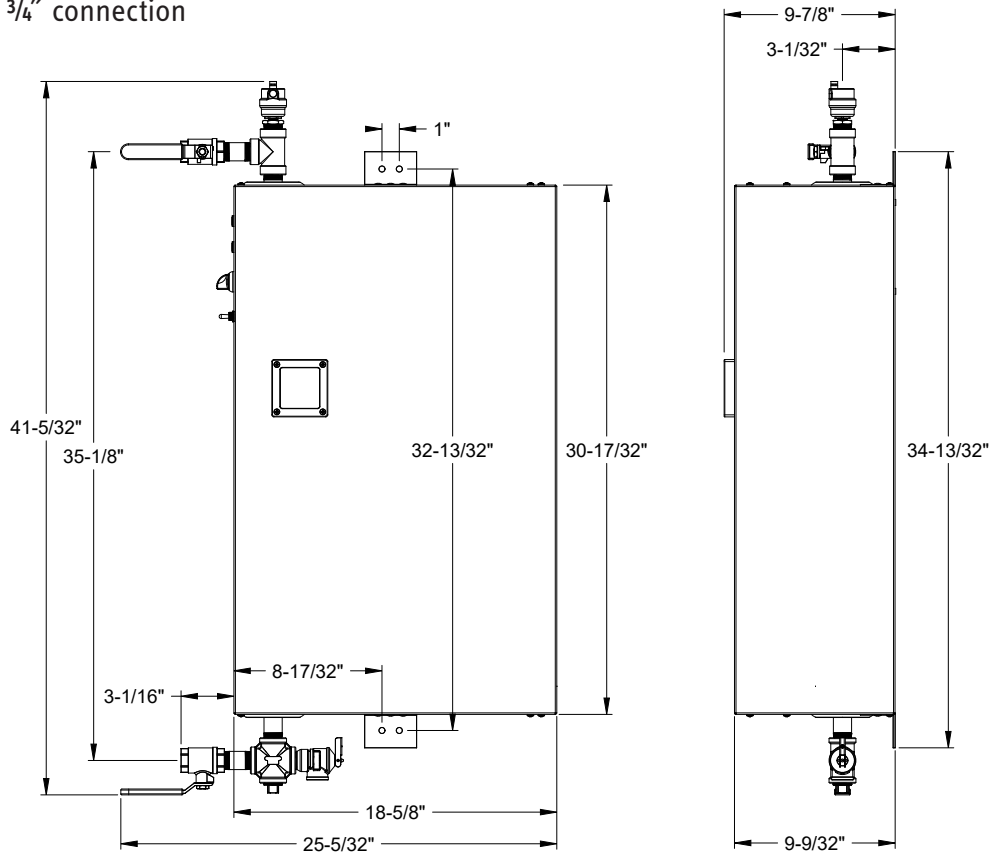
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# Dimensions

## 208/240 V - 3/4" connection

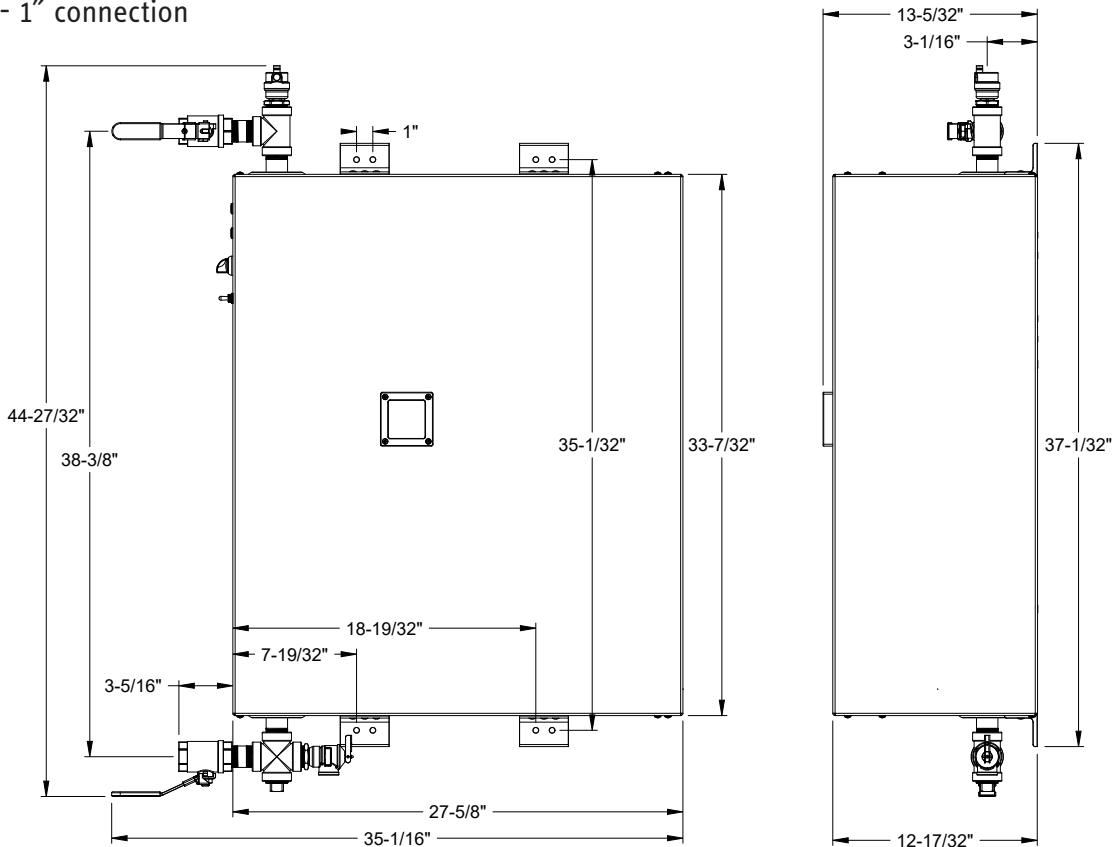


## 480/575 V - 3/4" connection

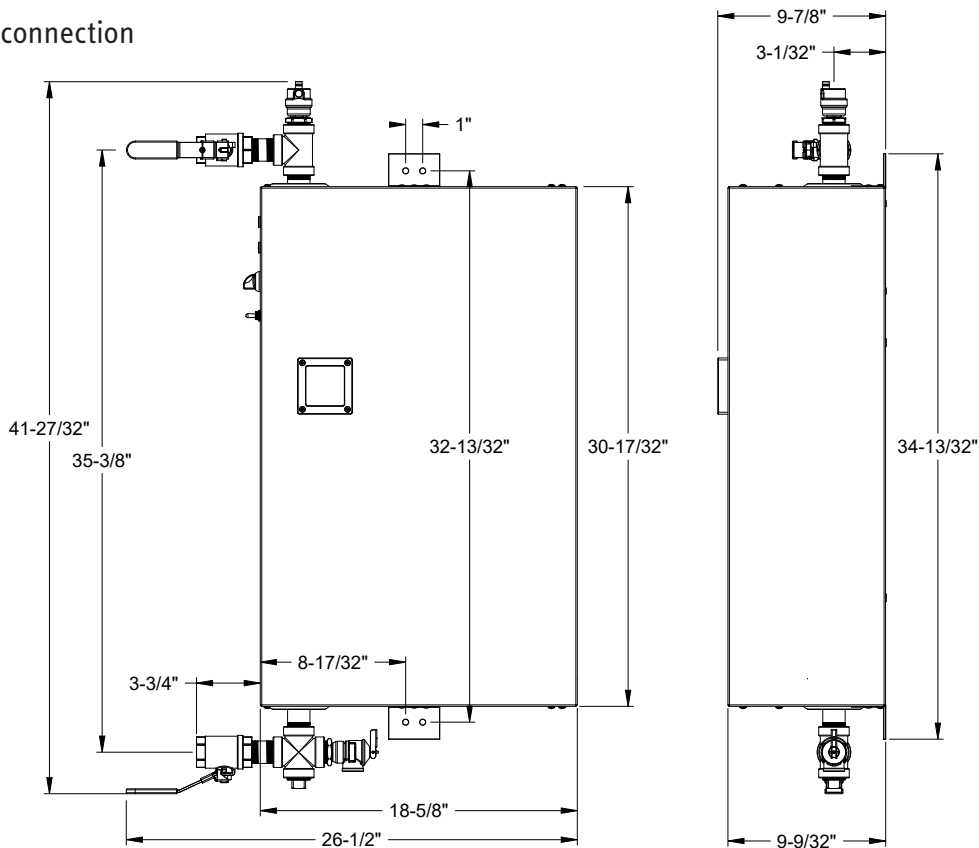


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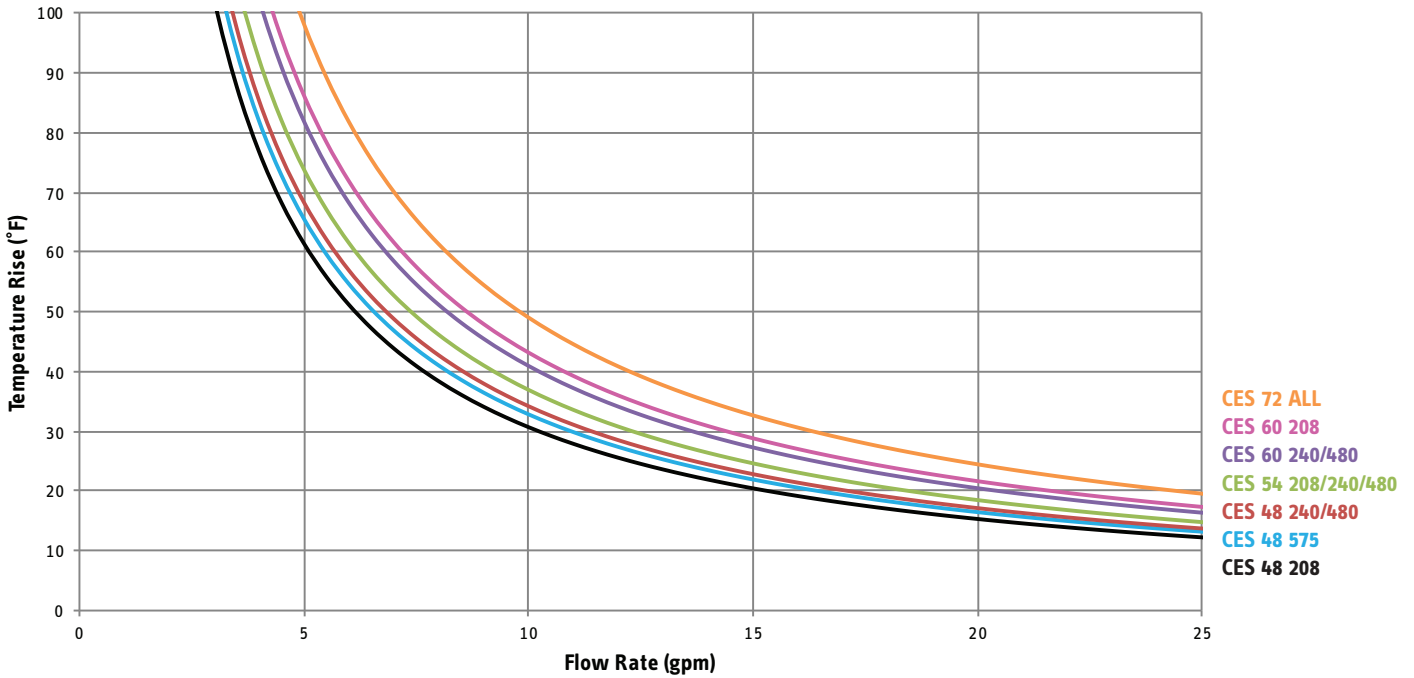
## 208/240 V - 1" connection



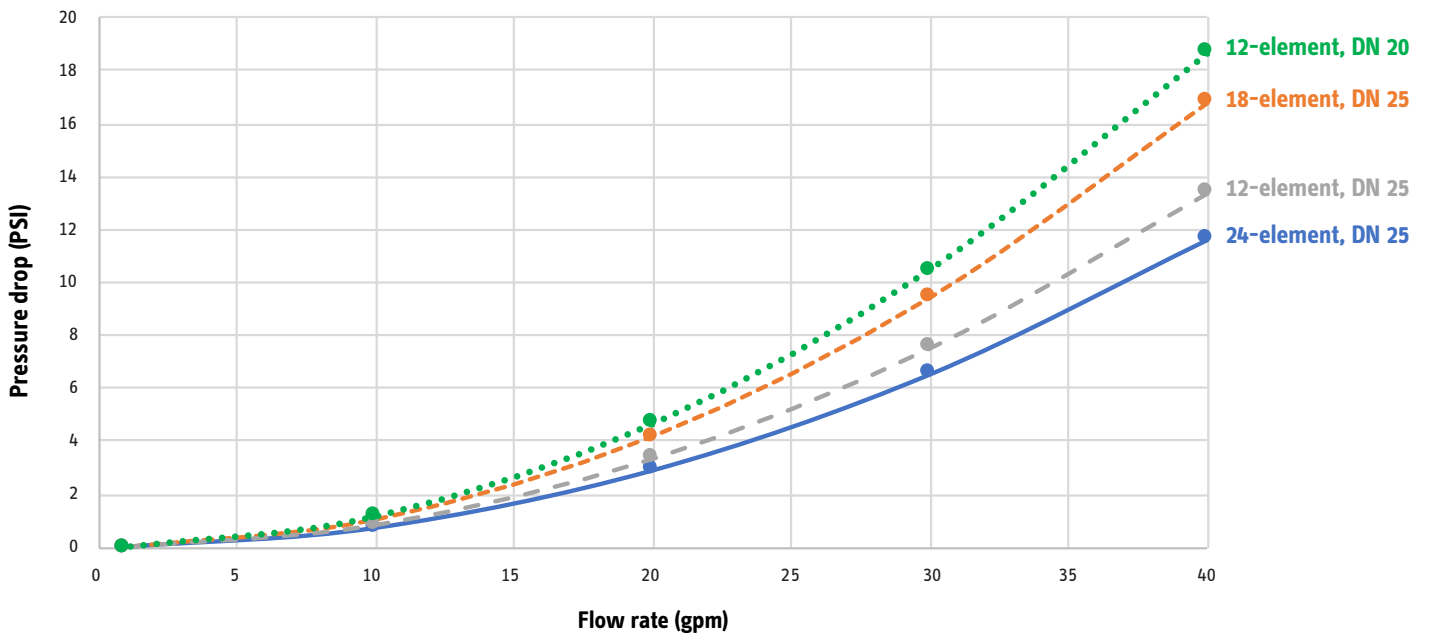
## 480/575 V - 1" connection



## Temperature Rise vs. Flow Rate



## Pressure Drop vs. Flow Rate



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