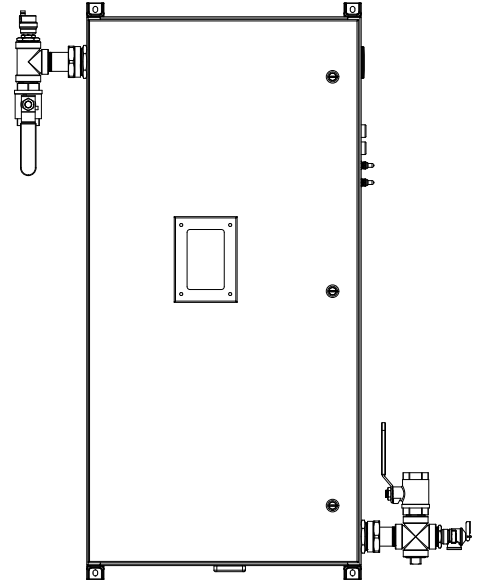


CES Series: CES 120, CES 144 | NEMA 3, NEMA 4/4X

Specifications

| | |
|---|--------------------------------------|
| Model | CES 120, CES 144 |
| Phase | 3-phase |
| Inlet/outlet pipe connection | 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 | 90 °F (32 °C) |
| Temperature adjustment range | 60 - 90 °F (16 - 32 °C) |
| Temperature adjustment increment | 1 °F (1 °C) |
| Number of heating elements | 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 |
| CES 120 | CES-120-400D | 400 | 3-phase delta | 116.67 | 168.39 | 200 | >100 | 76 | 51 | 38 | 19 |
| | CES-120-480D | 480 | 3-phase delta | 120.00 | 144.34 | 175 | >100 | 82 | 55 | 41 | 21 |
| CES 144 | CES-144-400D | 400 | 3-phase delta | 133.14 | 192.17 | 225 | >100 | 92 | 62 | 46 | 23 |
| | CES-144-480D | 480 | 3-phase delta | 144.00 | 173.21 | 200 | >100 | 98 | 66 | 49 | 25 |
| | CES-144-575D | 575 | 3-phase delta | 144.00 | 144.59 | 175 | >100 | 99 | 66 | 49 | 25 |



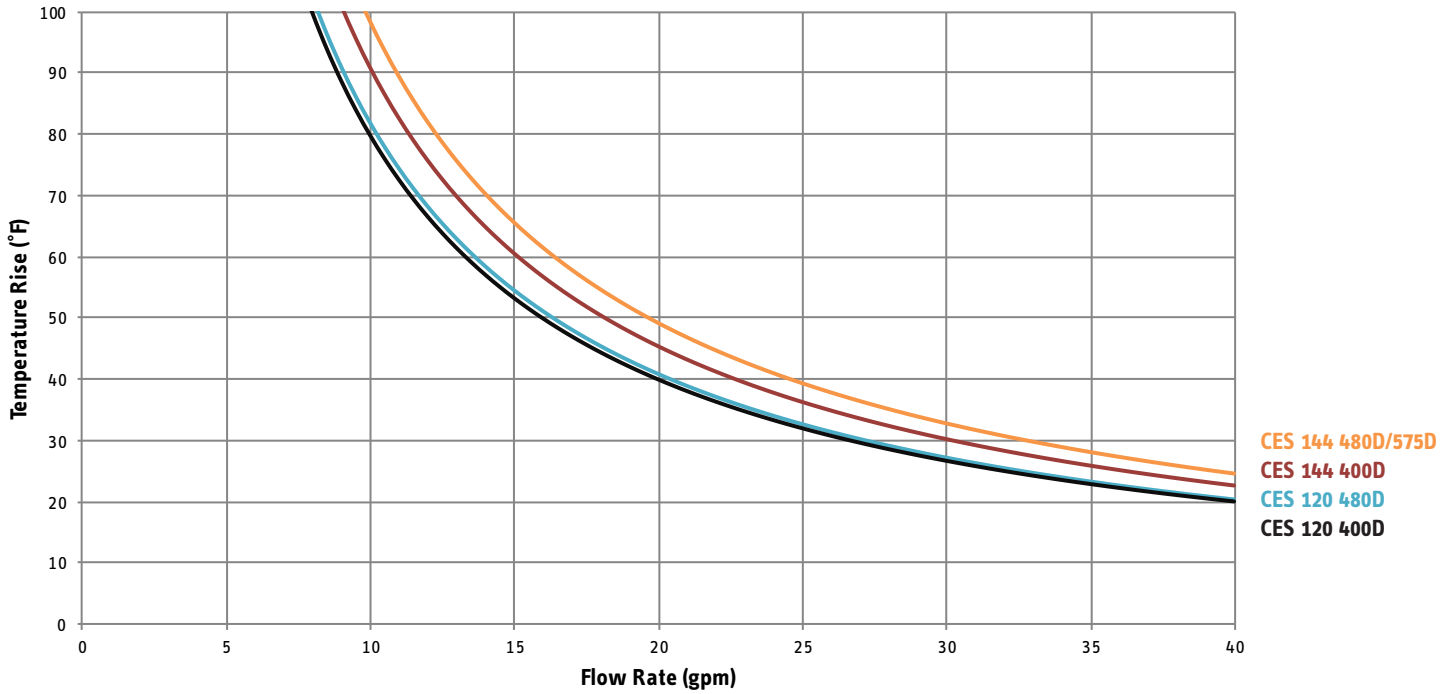
Conforms to ANSI/UL Std. 499
 Certified to CAN/CSA
 Std. C22.2 No.88



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.

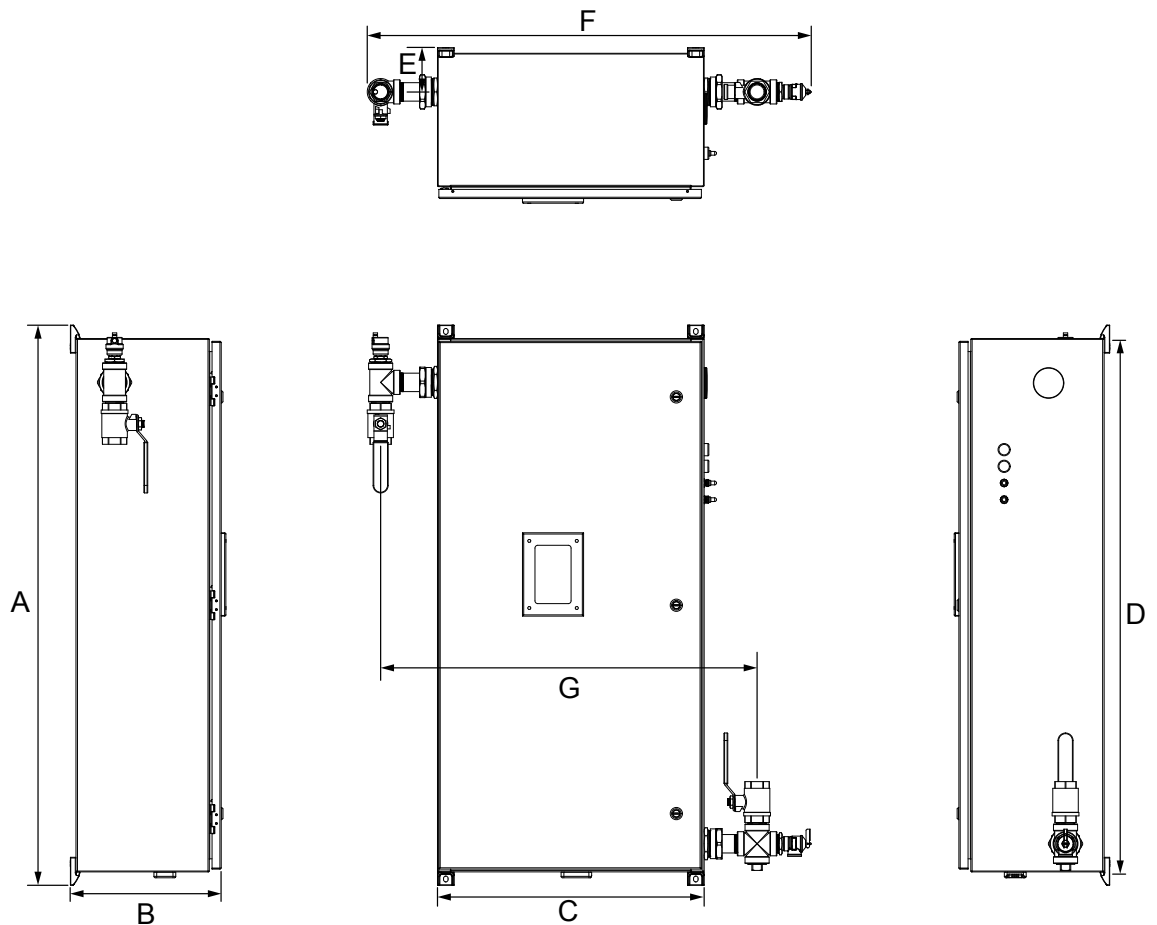
Flow Rate



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 $34 \frac{1}{2}$ " (876 mm)



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