

DHC-E Trend & DHC-E Plus Electric Tankless Water Heaters

› Compact point-of-use model with selectable power output for commercial applications

Features

- › Unlimited supply of hot water
- › Suitable for hard and soft water areas
- › Largely unsusceptible to scale build-up
- › Switchable power output means fewer models spec more jobs
- › High limit switch with manual reset
- › Easy installation 1/2" NPT connections
- › Interactive backlit display
- › DHC-E Plus models feature Advanced Flow Control™ and larger display with more info
- › Engineered in Germany to be the best
- › Exclusive design prevents dry firing
- › No T & P relief valve needed (Check local code)
- › 10-year leakage/3-year parts warranty
- › Direct Coil™ nichrome heating element housed in glass-reinforced polyamide heating chamber
- › On-demand, continuous hot water
- › No standby heat loss with tankless design
- › 99% efficiency
- › Mounts on wall at point-of-use
- › Cold water only line needed to be run to lavatory
- › Compact European design allow mounting in cabinet
- › Compatible with sensor actuated or metered faucets
- › Tankless design prevents Legionella bacteria growth



Models & Technical Data

| Model | DHC-E 3/3.5-1 Trend | DHC-E 4/6-2 Trend | | DHC-E 8/10-2 Trend DHC-E 8/10-2 Plus | | DHC-E 12/15-2 Trend DHC-E 12/15-2 Plus | |
|--|--|-------------------|-----------------|---|-----------------|---|----------------|
| Item no. | 200057 | 200061 | | 200058 (Trend) 202145 (Plus) | | 200059 (Trend) 200056 (Plus) | |
| Phase - 50/60 Hz | 1 | | | | | | |
| Voltage | 120 V | 240 V | 208 V | 240 V | 208 V | 240 V | 208 V |
| Wattage ¹ , jumper position 1 [low] / 2 [high] | 3 kW / 3.5 kW | 3.8 kW / 6 kW | 2.9 kW / 4.5 kW | 7.2 kW / 9.6 kW | 5.4 kW / 7.2 kW | 12 kW / 14.4 kW | 9 kW / 10.8 kW |
| Amperage, jumper position 1 [low] / 2 [high] | 25 A / 29.2 A | 15.8 A / 25 A | 13.9 A / 21.7 A | 30 A / 40 A | 26 A / 34.6 A | 50 A / 60 A | 43.3 A / 52 A |
| Min. recommended circuit breaker size, ² jumper position 1 [low] / 2 [high] | 25 A / 30 A | 20 A / 25 A | 15 A / 25 A | 30 A / 40 A | 30 A / 35 A | 50 A / 60 A | 50 A / 60 A |
| Min. recommended AWG wire size, ³ jumper position 1 [low] / 2 [high] | 10/2 / 10/2 | 12/2 / 10/2 | 14/2 / 10/2 | 10/2 / 8/2 | 10/2 / 8/2 | 8/2 / 6/2 | 8/2 / 6/2 |
| Minimum water flow to activate unit | 0.264 gpm (1.0 l/min) | | | | | | |
| Weight | 5.5 lb (2.5 kg) | | | | | | |
| Dimensions | Height 14 1/8" (360 mm) x Width 8" (202 mm) x Depth 4 5/16" (109 mm) | | | | | | |
| Nominal water volume | 0.07 gal (0.277 l) | | | | | | |
| Max. permissible inlet temperature | 149°F (65°C) | | | | | | |
| Maximum permissible pressure | 145 psi (10 bar) | | | | | | |
| Water connections ³ | 1/2" NPT | | | | | | |

DHC-E 3/3.5-1 Trend and 4/6-2 Trend ship with pressure compensating flow-reducer/aerators that must be installed.

¹ Factory default setting is jumper position 2 [high]

² Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load. Use only GFCI Class A circuit breakers.

³ Copper conductors with a temperature rating of 75°C or greater must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

These are our recommendations. Check local codes for compliance if necessary.

Technical Data & Wiring Diagrams

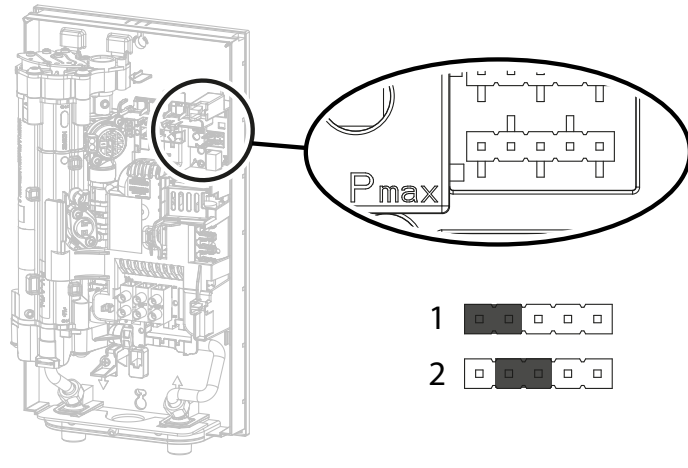
| Model | Power output in kW | | | 100°F DHW output in gpm | | | |
|----------------------------|--------------------|-------|-------|------------------------------|------|------|------|
| | Rated voltage | | | Cold water inlet temperature | | | |
| | 120 V | 208 V | 240 V | 41°F | 50°F | 59°F | 68°F |
| DHC-E 3/3.5-1 Trend | 3.0 | | | 0.35 | 0.41 | 0.5 | 0.64 |
| | 3.5 | | | 0.41 | 0.48 | 0.58 | 0.75 |
| | 2.9 | | | 0.34 | 0.4 | 0.48 | 0.62 |
| DHC-E 4/6-2 Trend | 4.5 | | | 0.52 | 0.61 | 0.75 | 0.96 |
| | | 3.8 | | 0.44 | 0.52 | 0.63 | 0.81 |
| | | 6.0 | | 0.69 | 0.82 | 1.0 | 1.28 |
| | 5.4 | | | 0.63 | 0.74 | 0.9 | 1.15 |
| DHC-E 8/10-2 Trend | 7.2 | | | 0.83 | 0.98 | 1.2 | 1.54 |
| | | 7.2 | | 0.83 | 0.98 | 1.2 | 1.54 |
| | | 9.6 | | 1.11 | 1.31 | 1.6 | 2.05 |
| | 9.0 | | | 1.04 | 1.23 | 1.5 | 1.92 |
| DHC-E 12/15-2 Trend & Plus | 10.8 | | | 1.24 | 1.46 | 1.78 | 2.28 |
| | | 12.0 | | 1.39 | 1.64 | 2.0 | 2.56 |
| | | 14.4 | | 1.67 | 1.97 | 2.4 | 3.07 |

| Model | Power output in kW | | | 122°F DHW output in gpm | | | |
|----------------------------|--------------------|-------|-------|------------------------------|------|------|------|
| | Rated voltage | | | Cold water inlet temperature | | | |
| | 120 V | 208 V | 240 V | 41°F | 50°F | 59°F | 68°F |
| DHC-E 3/3.5-1 Trend | 3.0 | | | - | 0.28 | 0.33 | 0.38 |
| | 3.5 | | | 0.3 | 0.33 | 0.38 | 0.44 |
| | 2.9 | | | - | 0.28 | 0.31 | 0.37 |
| DHC-E 4/6-2 Trend | 4.5 | | | 0.38 | 0.43 | 0.49 | 0.57 |
| | | 3.8 | | 0.32 | 0.36 | 0.41 | 0.48 |
| | | 6.0 | | 0.51 | 0.57 | 0.65 | 0.76 |
| | 5.4 | | | 0.46 | 0.51 | 0.59 | 0.68 |
| DHC-E 8/10-2 Trend & Plus | 7.2 | | | 0.61 | 0.68 | 0.78 | 0.91 |
| | | 7.2 | | 0.61 | 0.68 | 0.78 | 0.91 |
| | | 9.6 | | 0.81 | 0.91 | 1.04 | 1.21 |
| | 9.0 | | | 0.76 | 0.85 | 0.98 | 1.14 |
| DHC-E 12/15-2 Trend & Plus | 10.8 | | | 0.9 | 1.02 | 1.16 | 1.35 |
| | | 12.0 | | 1.01 | 1.14 | 1.3 | 1.52 |
| | | 14.4 | | 1.21 | 1.37 | 1.56 | 1.82 |

DHC-E Trend & Plus are adjustable to deliver 2 stages of power output.

Factory-default setting is stage 2 [high].

If lower output is needed, set the red jumper to stage 1 [low].

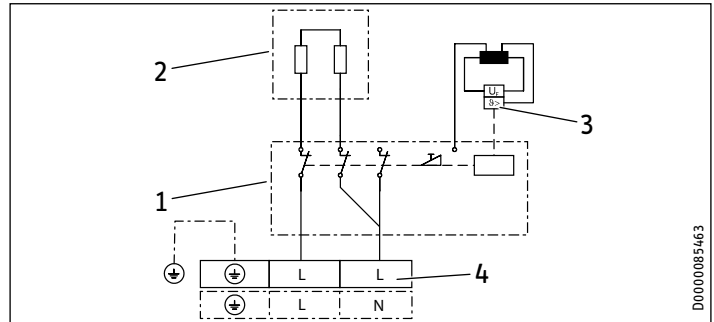


DHC-E 3/3.5-1 Trend

1/N/GND ~ 120V

DHC-E 4/6-2 Trend

2/GND ~ 208 / 240V

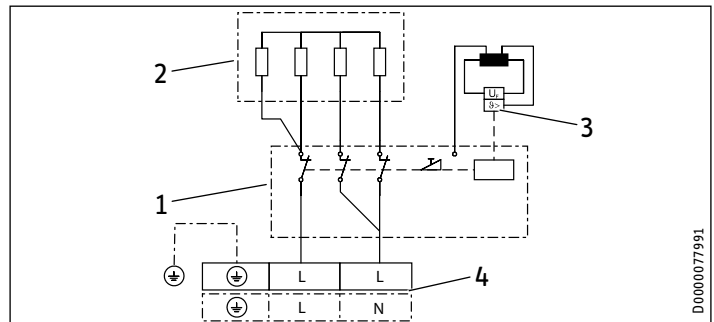


- 1 Power PCB with integral safety switch
- 2 Direct Coil™ heating system
- 3 Self-resetting high limit safety cut-out, Klixon
- 4 Wiring block

DHC-E 8/10-2 Trend & Plus | DHC-E 12/15-2 Trend & Plus

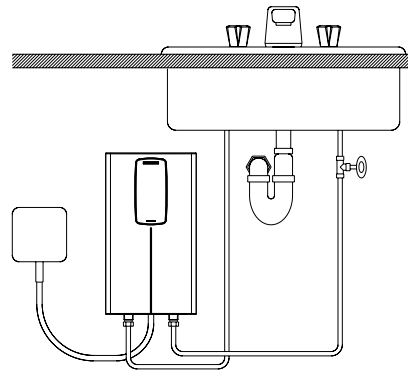
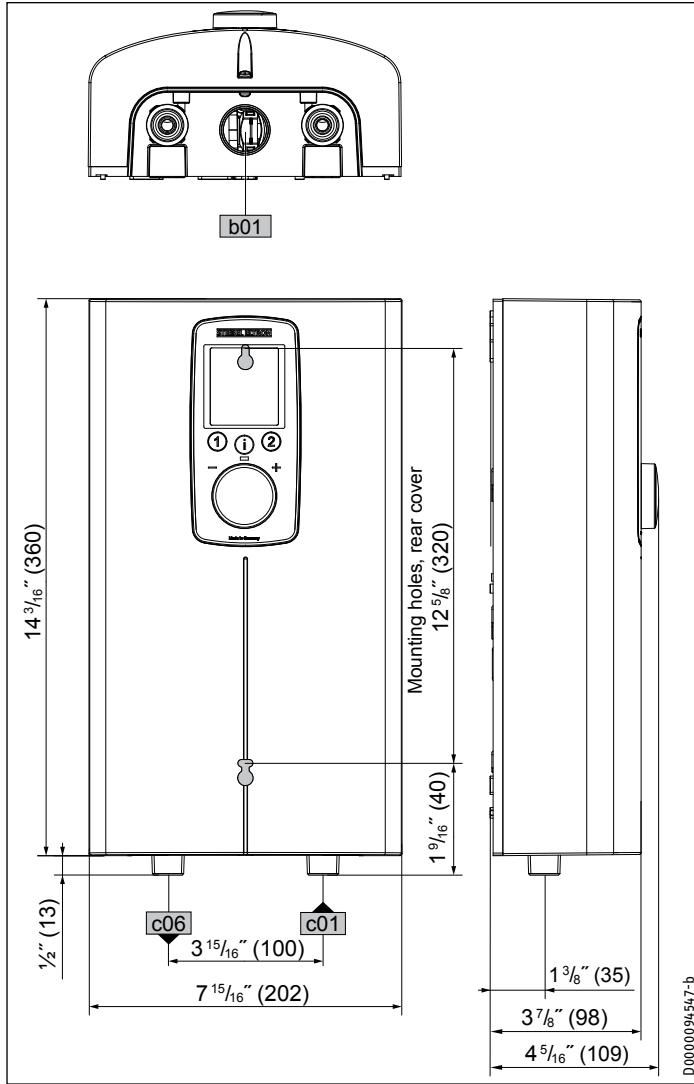
2/GND ~ 208 / 240V

1/N/GND ~ 208 / 240V



- 1 Power PCB with integral safety switch
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- 4 Wiring block

Dimensions



Intertek

Conforms to UL Std. 499
 Certified to CAN/CSA
 Std. C22.2 No.64

ISO 9001
 CERTIFIED



Tested and certified by WQA
 against NSF/ANSI/CAN 372
 for lead free compliance.

| | | DHC-E |
|-----|---------------------------|----------------------|
| b02 | Entry electrical cables I | |
| c01 | Cold water inlet | Male thread 1/2" NPT |
| c06 | DHW outlet | Male thread 1/2" NPT |

Specification

The electric tankless water heater shall be equipped with a direct coil nichrome heating element housed in a pressure-tested, glass-reinforced polyamide heating chamber. The unit shall be equipped with a flow sensor with a miniaturized turbine that feeds the water flow rate information into the main circuit board. The output temperature shall be adjustable between 68 °F (20 °C) and 140 °F (60 °C). The temperature adjustment shall be via a knob that is positioned on the front cover. The unit shall be equipped with a safety high-limit switch with manual reset that triggers at 185 °F (85 °C). The water connections shall be designed for standard 1/2" NPT female adapter. The housing of the unit shall be made of high impact polycarbonate plastic. DHC-E Plus models shall be equipped with Advanced Flow Control™ (German patent DE 3805441 C2, among others) to automatically adjust the flow of water to ensure a constant output temperature, even if demand exceeds capacity. The unit shall be certified to ANSI ANSI/UL Std. 499 and conform to CAN/CSA Std. C22.2 No.64.

Engineer/Architect _____ Date _____

Job Name/Customer _____ Location _____

Contractor _____ Representative _____

| DHC Trend model | Qty | kW | Voltage | Amps |
|-----------------|-------|-------|---------|-------|
| _____ | _____ | _____ | _____ | _____ |