## STIEBEL ELTRON

Simply the Best

# Commercial Application Point-of-Use Electric Tankless

Mini<sub>\*\*</sub> & Mini<sub>\*\*</sub>-E | DHC Classic & DHC-E Classic DHC Trend | DHC-E Trend & Plus | Tempra<sub>®</sub> Trend & Plus





Our new **DHC Trend, DHC-E Trend, and DHC-E Plus** models use our most advanced technology, the Direct Coil™ heating system pioneered in our Mini™ water heaters.

The Direct Coil™ heating system silently vibrates each start-up, a self-cleaning action that offers superior limescale resistance. While not totally immune to scale, these are the ones to install in hard water areas – or elsewhere!

Direct Coil™ has proven to be exceptionally lowfailure, with outstanding added benefits including faster heat-up time & response time, low latent heat retention, and more.

Switchable models | Expanding on the well-received innovation of our DHC-E 8/10, the entire line of new Direct Coil™ models are switchable at installation to one of two power outputs. This provides extraordinary flexibility for an installation while simplifying model choice. Switching power outputs is as simple as changing a jumper.

Largest Point-of-Use with Exclusive Advanced Flow Control™ | In addition to now offering the largest point-of-use model available with 14.4 kW of power, the new Direct Coil™ DHC-E models are available in our Plus configuration.

The Direct Coil™ heating system in the **DHC-E Plus** models includes **Advanced Flow Control™**. Patented in Germany, and exclusive to Stiebel Eltron tankless heaters, **Advanced Flow Control™** has been a feature of our whole-house Tempra Plus models for years. If hot water demand exceeds working capacity, **Advanced Flow Control™** automatically maintains consistent temperatures by slightly reducing flow.

Now available in the DHC-E 8/10-2 Plus and DHC-E 12/15-2 Plus, Advanced Flow Control™ allows installation of a single water heater to satisfy multiple sinks. A Direct Coil™ DHC-E Plus will provide the correct temperature water at multiple sinks at the same time, without delivering colder water if the system is overloaded by one too many taps being opened.

### Superior, Reliable & Energy Saving

Performance | In addition to the special benefits on Direct Coil™ technology, the new models include all the benefits that are part of the entire Stiebel Eltron electric tankless line.

Ideal for both residential and commercial point-of-

use sink applications, these new Direct Coil™ models heat water endlessly on demand at 99% efficiency. They have no stand-by energy losses because they do not store hot water like tank water heaters. No venting is required and the compact European design can be installed with the unit visible.

Micro-processor control, flow sensor, and our newly patented air detection system completely eliminate dry-fire. And of course these new models have a safety high-limit with a manual control. Activation rate for all new Direct Coil™ models is a low 0.264 GPM.

Model-specific features | Intended for troublefree installation without user tampering, DHC Trend models have no screen. Maximum temperature output can be set internally, but they should be sized by choosing the correct power output for the particular flow rate and temperature rise needed for an installation.

**DHC-E Trend** and **DHC-E Plus** are equipped with digital display screens. Desired output temperature is easily set using the dial and display on the cover. These models also have electronic features that include setting maximum output temperature and

a child safety lock. **Plus** models include additional features including preset temperature memory plus display of flow rate and energy usage and savings.

Tempra® Trend and Tempra® Plus, our higher-capacity single-phase copper element water heaters, are also equipped with digital display screens and easily set output temperature using the dial and display on the cover. Both Tempra® models also have electronic features including setting maximum output temperature and a child safety lock. Tempra® Plus features also include preset temperature memory plus display of flow rate and energy usage and savings in addition to the industry-exclusive Advanced Flow Control™ system.

While these models excel at supplying water at the desired constant temperature, the amount of hot water and its temperature depends on the incoming cold-water temperature and the size of the model installed. The correct model size should be chosen using our Sizing Guide. As always, our renowned technical support department is available for advice.

### Superior, Reliable & Energy Saving

**Performance** | All Stiebel Eltron thermostatic electric tankless water heaters have flow and

temperature sensors. Auto-modulation in these models ensures that heating elements are engaged in stages, achieving desired water temperature with the lowest possible energy usage. In all thermostatic models, input and output water temperature and flow rate are continually monitored. This smart microprocessor Electronic Temperature Control technology ensures steady output at the set point temperature even as flow rates vary up or down. Tankless electric water heaters from other manufacturers don't maintain steady temperature as the incoming flow rate varies.

Sleek Design Fits in Anywhere | Due to their compact dimensions and no need for venting, these water heaters may be installed in areas where larger devices will not fit, and close to draw-off points to minimize piping runs. The attractive housings may be left unconcealed in many applications.

At the heart of Stiebel Eltron's most advanced and revolutionary Direct Coil™ heating system is a robust nichrome heating coil and a bullet-proof poly-amide composite heating chamber.

#### Code Compliance Made Easy | A water

temperature required by code can simply be dialed in on all electronic models. The accuracy of the water temperature is guaranteed by sophisticated electronics. The DHC-E Classic, Trend, and Plus models, and Tempra® models can supply up to 140°F (60°C) water when health codes call for it. They can also be set internally to limit output temperature to a maximum of 109°F (43°C) where scalding water is a hazard. When lower, non-scalding temperatures are needed, the advanced electronics of these models ensures what you set is what you get.

Mini™-E and DHC-E models have optional externally attached mixing valve assemblies for installations where UPC code compliance is a necessity. No need to worry about an internal mixing valve to go out of adjustment or wear out.





Copper models

Complete warranty online.

Copper models

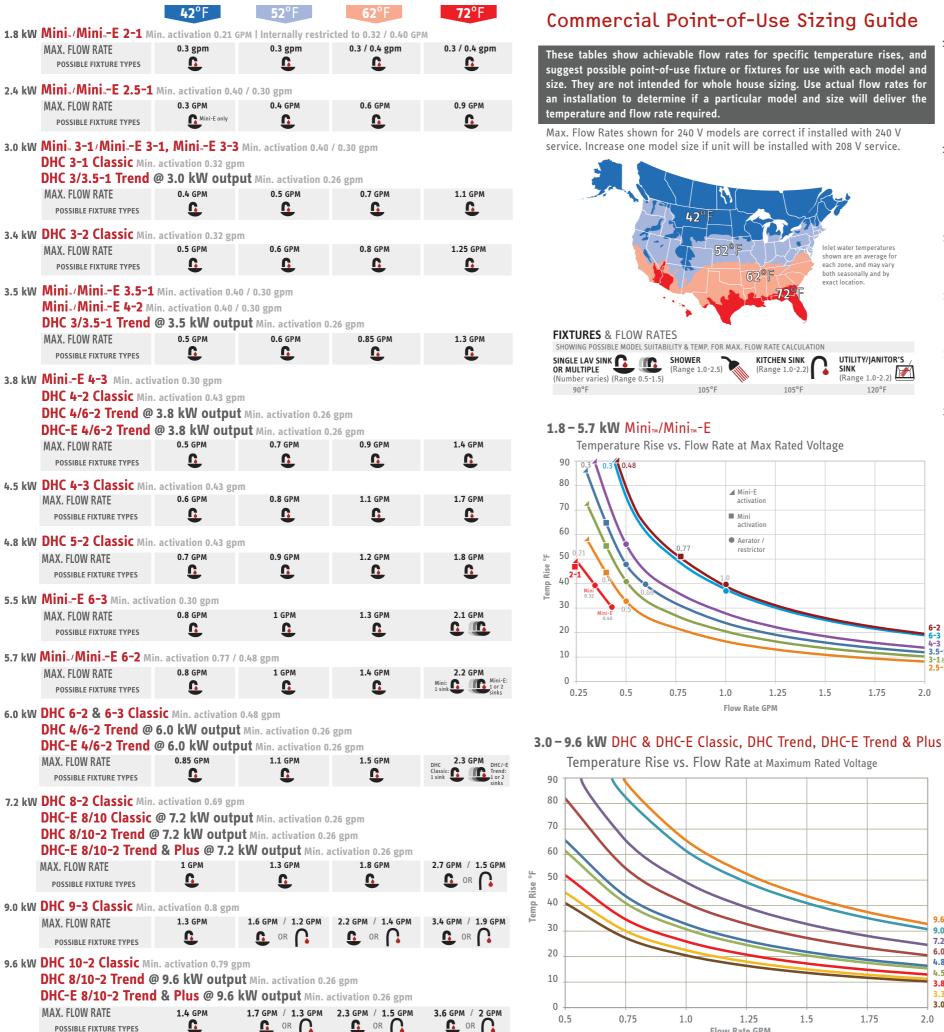
Superior Warranty & Superior Technical
Support | Stiebel Eltron has an enviable
track record of engineering excellence
and product quality. The three-year parts
warranty is unique in the industry. And our
already long 7-year leak warranty for copper
heating models has been extended to 10
years for all Direct Coil™ models. You can
depend on a Stiebel Eltron tankless electric
water heater for many years to come.

Stiebel Eltron's knowledgeable customer support staff can offer product and sizing recommendations as well as help with troubleshooting and technical questions.

800.582.8423

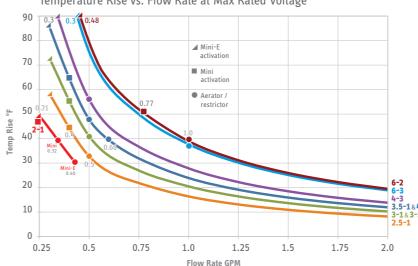
| <i> </i>  |                                     | Mini <sub>™</sub>                                                | Mini <sub>m</sub> -E                                             | DHC Classic                                                                                                                      | DHC-E Classic                                                                                                                     | DHC Trend                                                                                           | DHC-E Trend & Plus                                                                                  | Tempra® Trend & Plus                                                                                                            |
|-----------|-------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|           | Application possibilities           | s single handwashing sink for commercial code-compliance         |                                                                  | single sink                                                                                                                      | multiple handwashing sinks<br>or single high flow sink                                                                            | single handwashing sink                                                                             | multiple handwashing sinks single high flow sink (larger sizes)                                     | multiple handwashing sinks single high flow sink, showers                                                                       |
| ed        | Heating system                      | Direct Coil™                                                     | Direct Coil™                                                     | Copper                                                                                                                           | Copper                                                                                                                            | Direct Coil™                                                                                        | Direct Coil™                                                                                        | Copper                                                                                                                          |
| ess.      | Mechanical or electronic            | Mechanical                                                       | Electronic                                                       | Mechanical                                                                                                                       | Electronic                                                                                                                        | Electronic                                                                                          | Electronic                                                                                          | Electronic                                                                                                                      |
| ure<br>S. | Special features                    |                                                                  | accepts input water<br>up to 122°F                               |                                                                                                                                  | accepts input water<br>up to 131°F                                                                                                | accepts input water<br>up to 149°F*                                                                 | accepts input water up to 149°F* Plus models have Advanced Flow Control™                            | accepts input water up to 131°F<br>Plus models have Advanced Flow Control™                                                      |
|           | Installation orientations           | below or above sink;<br>water connections<br>pointing up or down | below or above sink;<br>water connections<br>pointing up or down | below or above sink;<br>water connections<br>pointing down                                                                       | below or above sink;<br>water connections<br>pointing down                                                                        | below or above sink;<br>water connections<br>pointing down                                          | below or above sink;<br>water connections<br>pointing down                                          | below or above sink;<br>water connections<br>pointing down                                                                      |
| E         | Voltages available                  | 120 V, 240/208 V                                                 | 120 V, 240/208 V, 277 V                                          | 120 V, 240/208 V, 277 V                                                                                                          | 120 V, 240/208 V                                                                                                                  | 120 V, 240/208 V                                                                                    | 120 V, 240/208 V                                                                                    | 240/208 V                                                                                                                       |
|           | Output range for model              | 1.8 - 5.7 kW                                                     | 1.8 - 5.7 kW                                                     | 3.0 - 9.6 kW                                                                                                                     | 7.2 – 12 kW                                                                                                                       | 3.0 - 14.4 kW                                                                                       | 3.0 - 14.4 kW                                                                                       | 12 - 36 kW                                                                                                                      |
|           | Power draw for model                | 14.6 - 29 A                                                      | 14.6-29 A                                                        | 14-40 A                                                                                                                          | 30 - 50 A                                                                                                                         | 25 - 60 A                                                                                           | 25 - 60 A                                                                                           | 50 - 150 A                                                                                                                      |
| 1         | Activation flow rate (varies by kW) | 0.21, 0.40, 0.77 gpm                                             | 0.21, 0.30, 0.48 gpm                                             | 0.32, 0.43, 0.48, 0.69, 0.8 gpm                                                                                                  | 0.264 gpm                                                                                                                         | 0.264 gpm                                                                                           | 0.264 gpm                                                                                           | 0.37, 0.50, 0.77 gpm                                                                                                            |
| у         | Temperature rise range (approx.)    | ~30 °F                                                           | ~30 ° F†                                                         | ~30-80°F                                                                                                                         | ~20-90 °F                                                                                                                         | ~20-90 °F                                                                                           | ~20-90 °F                                                                                           | ~30-90°F                                                                                                                        |
|           | Temperature selector                | no                                                               | yes, internal via potentiometer                                  | no                                                                                                                               | yes                                                                                                                               | yes, internal via jumper                                                                            | yes                                                                                                 | yes                                                                                                                             |
| s of      | Display screen                      | no                                                               | no                                                               | no                                                                                                                               | no                                                                                                                                | no                                                                                                  | yes                                                                                                 | yes                                                                                                                             |
| on        | Width/height/depth                  | 7½ / 6½ / 3¼ inches<br>19.0 / 16.5 / 8.2 cm                      | 7½ / 6½ / 3¼ inches<br>19.0 / 16.5 / 8.2 cm                      | 7 <sup>15</sup> / <sub>16</sub> / 14 <sup>3</sup> / <sub>16</sub> / 3 <sup>7</sup> / <sub>8</sub> inches<br>20.2 / 36.0 / 9.8 cm | 7 <sup>7</sup> / <sub>16</sub> / 14 <sup>3</sup> / <sub>16</sub> / 4 <sup>1</sup> / <sub>16</sub> inches<br>20.0 / 36.0 / 10.4 cm | 8 / 14 <sup>1</sup> / <sub>8</sub> / 4 <sup>5</sup> / <sub>16</sub> inches<br>20.2 / 36.0 / 10.9 cm | 8 / 14 <sup>1</sup> / <sub>8</sub> / 4 <sup>5</sup> / <sub>16</sub> inches<br>20.2 / 36.0 / 10.9 cm | 16 <sup>5</sup> / <sub>8</sub> / 14 <sup>1</sup> / <sub>2</sub> / 4 <sup>5</sup> / <sub>8</sub> inches<br>42.0 / 36.9 / 11.7 cm |
|           | Warranty                            | 10/3                                                             | 10/3                                                             | 7/3                                                                                                                              | 7/3                                                                                                                               | 10/3                                                                                                | 10/3                                                                                                | 7/3                                                                                                                             |

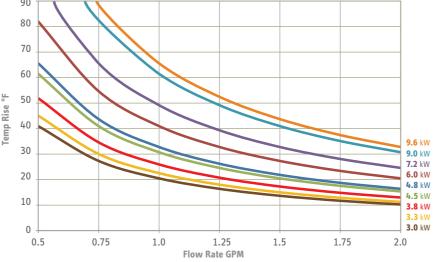
<sup>\*</sup>Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F. †Mini-E 6-2 can provide an 80°F rise at 0.50 GPM.



These tables show achievable flow rates for specific temperature rises, and suggest possible point-of-use fixture or fixtures for use with each model and size. They are not intended for whole house sizing. Use actual flow rates for an installation to determine if a particular model and size will deliver the







12.0 kW DHC-E 12 Classic Min. activation 0.26 gpm DHC 12/15-2 Trend @ 12.0 kW output Min. activation 0.26 gpm

DHC-E 12/15-2 Trend & Plus @ 12.0 kW output Min. activation 0.26 gpm

Tempra<sub>®</sub> 12 Trend & Plus Min. activation 0.37 gpm



### 14.4 kW DHC 12/15-2 Trend @ 14.4 kW output Min. activation 0.26 gpm

DHC-E 12/15-2 Trend & Plus @ 14.4 kW output Min. activation 0.26 gpm

Tempra<sub>®</sub> 15 Trend & Plus Min. activation 0.50 gpm

| M | AX. FLOW RATE          | 2 GPM / 1.6 GPM | 2.6 GPM / 1.9 GPM |       |       |
|---|------------------------|-----------------|-------------------|-------|-------|
|   | POSSIBLE FIXTURE TYPES | OR OR           | OR OR             | OR OR | OR OR |

#### 19.2 kW Tempra<sub>®</sub> 20 Trend & Plus Min. activation 0.50 gpm

| IAX. FLOW RATE         |       | 3.45 / 2.5 / 1.9 GPM |          |       |
|------------------------|-------|----------------------|----------|-------|
| POSSIBLE FIXTURE TYPES | OR OR | OR OR                | OR OR OR | OR OR |

#### 24.0 kW Tempra<sub>®</sub> 24 Trend & Plus Min. activation 0.50 gpm

| MAX. FLOW RATE         | 3.4 / 2.6 / 2.1 GPM |       |          |       |
|------------------------|---------------------|-------|----------|-------|
| POSSIBLE FIXTURE TYPES | OR OR               | OR OR | OR OR OR | OR OR |

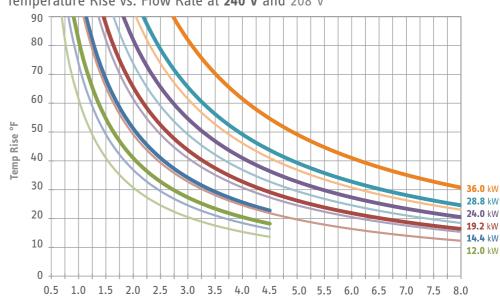
#### 28.8 kW Tempra<sub>®</sub> 29 Trend & Plus Min. activation 0.77 gpm

| MAX. FLOW RATE         |       | 5.2 / 3.7 / 2.9 GPM |       |       |
|------------------------|-------|---------------------|-------|-------|
| POSSIBLE FIXTURE TYPES | OR OR | OR OR               | OR or | OR OR |

#### 36.0 kW Tempra<sub>®</sub> 36 Trend & Plus Min. activation 0.77 gpm



#### 12.0 - 36.0 kW DHC Trend; DHC-E Classic, Trend, & Plus; Tempra® Trend & Plus Temperature Rise vs. Flow Rate at 240 V and 208 V



### **Looking for 3-phase high-capacity water heaters?**

High capacity 3-phase electric water heaters from Stiebel Eltron are available for demanding commercial, industrial, and safety applications in all common voltages and sizes from 12 to 144 kW.

Our 3-phase commercial/industrial direct line is 800.TANKLESS



### Simply the Best

### **DHC Trend**





| Model                                                                       | DHC 3/3.5-1 Trend                               | DHC 3/3.5-1 Trend DHC 4/6-2 Trend |                                           | DHC 8/10-2 Tren | ıd              | DHC 12/15-2 Trend |                |  |
|-----------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|-------------------------------------------|-----------------|-----------------|-------------------|----------------|--|
| Item no.                                                                    | 200060                                          | 200062                            |                                           | 200063          |                 | 200064            |                |  |
| <b>Phase</b> - 50/60 Hz                                                     | 1                                               |                                   |                                           |                 |                 |                   |                |  |
| Voltage                                                                     | 120 V                                           | 240 V                             | 208 V                                     | 240 V           | 208 V           | 240 V             | 208 V          |  |
| Wattage <sup>1</sup> , jumper position<br>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<br>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 size³,<br>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 <sup>1</sup> / <sub>8</sub> " (360 mm | ) x Width 8" (202                 | mm) X Depth 4 <sup>5</sup> / <sub>1</sub> | ″ (109 mm)      |                 |                   |                |  |
| Nominal water volume                                                        | 0.07 gal (0.277 l)                              |                                   |                                           |                 |                 |                   |                |  |
| Max. permissible inlet temperature 4                                        | 149°F (65°C)                                    |                                   |                                           |                 |                 |                   |                |  |
| Maximum permissible pressure                                                | 145 psi (10 bar)                                |                                   |                                           |                 |                 |                   |                |  |
| Water connections                                                           | 1/2" NPT                                        |                                   |                                           |                 |                 |                   |                |  |

DHC 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.
- 4 Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F.

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

### **DHC-E Trend & Plus**







| Model                                                                            | DHC-E 3/3.5-1 Trend                              | DHC-E 4/6-2 Tre   | DHC-E 4/6-2 Trend                           |                                 | end<br>us       | DHC-E 12/15-2 Trend<br>DHC-E 12/15-2 Plus |                |  |
|----------------------------------------------------------------------------------|--------------------------------------------------|-------------------|---------------------------------------------|---------------------------------|-----------------|-------------------------------------------|----------------|--|
| Item no.                                                                         | 200057                                           | 200061            |                                             | 200058 (Trend)<br>202145 (Plus) |                 | 200059 (Trend)<br>200056 (Plus)           |                |  |
| <b>Phase</b> - 50/60 Hz                                                          | 1                                                |                   |                                             |                                 |                 |                                           |                |  |
| Voltage                                                                          | 120 V                                            | 240 V             | 208 V                                       | 240 V                           | 208 V           | 240 V                                     | 208 V          |  |
| Wattage <sup>1</sup> , jumper position<br>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<br>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 <sup>3</sup> , 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 <sup>1</sup> / <sub>8</sub> " (360 mm) | x Width 8" (202 m | m) X Depth 4 <sup>5</sup> / <sub>16</sub> " | (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                                                                | <sup>1</sup> /2 <sup>"</sup> 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.
- 4 Max input water 149°F; max input water that would be heated 131°F; max. temperature output 140°F.
- These are our recommendations. Check local codes for compliance if necessary.

## Mini<sub>m</sub> & Mini<sub>m</sub>-E





| Mechanical models:<br>Thermostatic models:        | Mini™ 2-1<br>Mini™-E 2-1         | Mini™ 2.5-1<br>Mini™-E 2.5-1 | Mini™ 3-1<br>Mini™-E 3-1 | Mini™-E 3-3                            | Mini™ 3.5-1<br>Mini™-E 3.5-1 | Mini™ 4-2<br>Mini™-E 4-2 |        | Mini™-E 4-3              | Mini™ 6-<br>Mini™-E    |        | Mini™-E 6-3              |
|---------------------------------------------------|----------------------------------|------------------------------|--------------------------|----------------------------------------|------------------------------|--------------------------|--------|--------------------------|------------------------|--------|--------------------------|
| Item no. mechanical                               | 231045                           | 232098                       | 220816                   | -                                      | 232099                       | 222039                   |        | -                        | 220817                 |        | -                        |
| Item no. thermostatic                             | 236011                           | 236135                       | 236010                   | 206427                                 | 236136                       | 236009                   |        | 206428                   | 236008                 |        | 206429                   |
| <b>Phase</b> - 50/60 Hz                           | 1                                |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Voltage <sup>1</sup>                              | 120 V                            | 120 V                        | 120 V                    | 277 V                                  | 120 V                        | 240 V or                 | 208 V  | 277 V                    | 240 V 01               | 208 V  | 277 V                    |
| Wattage                                           | 1.8 kW                           | 2.4 kW                       | 3.0 kW                   | 3.0 kW                                 | 3.5 kW                       | 3.5 kW                   | 2.6 kW | 4.1 kW                   | 5.7 kW                 | 4.3 kW | 5.5 kW                   |
| Amperage draw                                     | 15 A                             | 20 A                         | 25 A                     | 10.83 A                                | 29 A                         | 14.6 A                   | 12.6 A | 14.8 A                   | 23.75 A                | 20.6 A | 19.86 A                  |
| Min. recommended circuit breaker size 2           | 15 A (SP)                        | 20 A (SP)                    | 25 A (SP)                | 15 A (SP)                              | 30 A (SP)                    | 15 A (DP)                |        | 15 A (SP)                | 25 A (DP)              |        | 20 A (SP)                |
| Min. recommended wire size <sup>3</sup> (copper)  | 14/2 AWG                         | 12/2 AWG                     | 10/2 AWG                 | 14/2 AWG                               | 10/2 AWG                     | 14/2 AWG                 |        | 14/2 AWG                 | 10/2 AWG               |        | 12/2 AWG                 |
| Min. flow to activate                             |                                  |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Mechanical units                                  | 0.21 gpm<br>(0.8 l/min)          | 0.40 gpm<br>(1.5 l/min)      | 0.40 gpm<br>(1.5 l/min)  | -                                      | 0.40 gpm<br>(1.5 l/min)      | 0.40 gpm<br>(1.5 l/min   |        | -                        | 0.77 gpm<br>(2.9 l/mir |        | -                        |
| Thermostatic units                                | 0.21 gpm<br>(0.8 l/min)          | 0.30 gpm<br>(1.15 l/min)     | 0.30 gpm<br>(1.15 l/min) | 0.30 gpm<br>(1.15 l/min)               | 0.30 gpm<br>(1.15 l/min)     | 0.30 gpm<br>(1.15 l/mi   |        | 0.30 gpm<br>(1.15 l/min) | 0.48 gpm<br>(1.8 l/mir |        | 0.30 gpm<br>(1.15 l/min) |
| Water temp. range                                 | Electronic units a               | are adjustable fr            | om 86-122°F (3           | 0-50°C) and are                        | factory set at 10            | 0°F (38°C)               |        |                          |                        |        |                          |
| Energy Factor (EF)<br>(Mechanical / Thermostatic) | 0.98 / 0.97 (UEF)                | 1.0 / 0.99                   | 0.99 / 0.99              | 0.99                                   | 0.99 / 0.99                  | 0.99 / 1.0               | )      | 1.0                      | 0.99 / 1.0             | )      | 1.0                      |
| Weight                                            | 3.44 lb (1.56 kg)                |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Dimensions                                        | Width 7 <sup>1</sup> /2" (19.0 c | m) X Height 61/2             | " (16.5 cm) x <b>De</b>  | <b>pth</b> 3 <sup>1</sup> /4" (8.2 cm) |                              |                          |        |                          |                        |        |                          |
| Water volume in unit                              | 0.026 gal (0.1 I)                |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Minimum pressure                                  | 30 psi (2 bar)                   |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Working pressure                                  | 150 psi (10 bar)                 |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |
| Tested to pressure                                | 300 psi (20 bar)                 |                              |                          |                                        |                              |                          |        |                          |                        |        |                          |

Mini™ 2-1 is internally restricted to 0.32 gpm (1.2 l/min). Mini™-E 2-1 is internally restricted to 0.40 gpm (1.5 l/min).

3/8" O.D. flexible braided stainless steel hose connectors

All Mini™ models ship with appropriately sized pressure compensating flow-reducer/aerators that must be installed.

- <sup>1</sup> Nominal mains voltage is 110-120 V, 220-240 V and 277 V.
- <sup>2</sup> This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.
- <sup>3</sup> Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.
- <sup>6</sup> Mechanical units suitable for supply with cold water only. Thermostatic units can accept inlet water of 122 °F.

## DHC Classic 💾

Water connections 4



| Model                                   | DHC 3-1<br>Classic          | DHC 3-2<br>Classic    |          | DHC 4-2<br>Classic                     |            | DHC 4-3<br>Classic      | DHC 5-2<br>Classic    |        | DHC 6-2<br>Classic      |        | DHC 6-3<br>Classic      | DHC 8-<br>Classic       |         | DHC 9-3<br>Classic     | DHC 10-<br>Classic     |        |
|-----------------------------------------|-----------------------------|-----------------------|----------|----------------------------------------|------------|-------------------------|-----------------------|--------|-------------------------|--------|-------------------------|-------------------------|---------|------------------------|------------------------|--------|
|                                         |                             |                       |          |                                        |            | Classic                 |                       |        |                         |        | Classic                 |                         |         | Classic                |                        |        |
| Item no.                                | 202646 202647 202648 202649 |                       | 202650   | 202650 202651                          |            | 202652                  | 202653                |        | 202654                  | 202655 |                         |                         |         |                        |                        |        |
| <b>Phase</b> - 50/60 Hz                 | 1                           |                       |          |                                        |            |                         |                       |        |                         |        |                         |                         |         |                        |                        |        |
| Voltage                                 | 120 V                       | 240 v                 | 208 v    | 240 v                                  | 208 V      | 277 V                   | 240 v                 | 208 v  | 240 V                   | 208 V  | 277 v                   | 240 v                   | 208 v   | 277 V                  | 240 v                  | 208 V  |
| Wattage                                 | 3.0 kW                      | 3.3 kW                | 2.5 kW   | 3.8 kW                                 | 2.9 kW     | 4.5 kW                  | 4.8 kW                | 3.6 kW | 6.0 kW                  | 4.5 kW | 6.0 kW                  | 7.2 kW                  | 5.4 kW  | 9.0 kW                 | 9.6 kW                 | 7.2 kW |
| Amperage                                | 25 A                        | 14 A                  | 12 A     | 16 A                                   | 14 A       | 17 A                    | 20 A                  | 18 A   | 25 A                    | 22 A   | 21.7 A                  | 30 A                    | 26 A    | 32.5 A                 | 40 A                   | 35 A   |
| Min. recommended circuit breaker size 1 | 25 A                        | 15 A                  | 15 A     | 20 A                                   | 15 A       | 20 A                    | 20 A                  | 20 A   | 25 A                    | 25 A   | 25 A                    | 30 A                    | 30 A    | 35 A                   | 40 A                   | 35 A   |
| Min. recommended wire size <sup>2</sup> | 10/2 AWG                    | 14/2 AW               | G        | 12/2 AWG                               | 14/2 AWG   | 12/2 AWG                | 12/2 AW               | G      | 10/2 AW                 | G      | 10/2 AWG                | 10/2 AV                 | /G      | 8/2 AWG                | 8/2 AWG                |        |
| Minimum water flow to activate unit     | 0.32 gpm<br>(1.2 l/min)     | 0.32 gpn<br>(1.2 l/mi |          | 0.43 gpm<br>(1.6 l/min)                |            | 0.43 gpm<br>(1.6 l/min) | 0.43 gpn<br>(1.6 l/mi |        | 0.48 gpm<br>(1.8 l/min) |        | 0.48 gpm<br>(1.6 l/min) | 0.69 gpm<br>(2.6 l/min) |         | 0.8 gpm<br>(3.0 l/min) | 0.8 gpm<br>(3.0 l/min) |        |
| Weight                                  | 5.5 lb (2.5 kg)             | 4.6 lb (2             | .1 kg)   | 4.6 lb (2.1                            | kg)        | 4.6 lb (2.1 kg)         | 4.6 lb (2             | .1 kg) | 5.5 lb (2               | .5 kg) | 5.5 lb (2.5 kg)         | 5.5 lb (2               | 2.5 kg) | 5.5 lb (2.5 kg)        | 5.5 lb (2              | .5 kg) |
| Dimensions                              | Width $7^{15}/_{16}^{"}$ (  | 20.2 cm)              | X Height | 14 <sup>3</sup> / <sub>16</sub> " (36. | 0 cm) X De | oth 37/8" (9.8 cm       | )                     |        |                         |        |                         |                         |         |                        |                        |        |
| Nominal water volume                    | 0.13 gal (0.5 l)            |                       |          |                                        |            |                         |                       |        |                         |        |                         |                         |         |                        |                        |        |
| Max. permissible inlet temperature      | 86°F (30°C)                 |                       |          |                                        |            |                         |                       |        |                         |        |                         |                         |         |                        |                        |        |
| Minimum pressure                        | 30 psi (2 bar)              |                       |          |                                        |            |                         |                       |        |                         |        |                         |                         |         |                        |                        |        |

Water connections<sup>3</sup> DHC 3-1, 3-2, 4-2 Classic ship with a 0.5 gpm (1.9 l/min) pressure compensating flow-reducer/aerator that must be installed.

- <sup>1</sup> This is our recommendation for overcurrent protection sized at 100% of load (DP for 240/208/277 V & SP for 120 V models). Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.
- <sup>2</sup> Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.
- 3 Suitable for supply with cold water only.

Working pressure Tested to pressure 150 psi (10 bar)

300 psi (20 bar)

### **DHC-E Classic**

Min. recommended circuit breaker<sup>1</sup> (DP)

Min. recommended wire size<sup>2</sup> (copper)

Model Item Number

Phase

Voltage

Wattage

Amperage

Maximum

increase

ambient

water temp.

above

temperature



single 50/60 Hz

240 V or

7.2/9.6 kW

30/40 A

30/40 A

8/2 AWG

66/87

49/66

33/44

**DHC-E 8/10 Classic\*** 203671

208 V

5.4/7.2 kW

26/35 A

30/35 A

49/66

37/49

25/33



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Mini™: Certified to ANSI/UL Std. 499 Conforms to CAN/CSA Std. E335-1 & E335-2-35 DHC Classic:

Certified to ANSI/UL Std. 499 Conforms to CAN/CSA Std. E335-1/3E & E60335-2-35 Mini™-E / DHC Trend / DHC-E:

Conforms to CAN/CSA Std. C22.2 No. 64 Tempra®: Certified to ANSI/UL Std. 499

Certified to ANSI/UL Std. 499

Conforms to CAN/CSA Std. C22.2 No. 88



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



- @ 3.00 gpm (11.3 l/min) 27 20 Min. water flow to activate unit 0.264 gpm (1.0 l/min) Max. inlet water temperature 131°F (55°C) Weight 5.9 lb (2.7 kg)
- Nominal water volume 0.13 gal (0.5 l) **Dimensions** Width  $7^{1}/8''$  (20.0 cm) x Height  $14^{3}/16''$  (36.0 cm) x Depth  $4^{1}/8''$  (11.0 cm)

Working pressure 150 psi (10 bar) Tested to pressure 300 psi (20 bar)

@ 0.75 gpm (2.8 l/min)

@ 1.00 gpm (3.8 l/min)

@ 1.50 gpm (5.7 l/min)

@ 2.25 gpm (8.5 l/min)

- Water connections 1/2" NPT
- \*DHC-E 8/10 Classic is a single unit that is switchable at installation via jumper for output at 7.2 kW (Stage 1) or 9.6 kW (Stage 2).
- 1 Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load.
- <sup>2</sup> 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.

**DHC-E 12 Classic** 203672

208 V

9 kW

44 A

50 A

82

61

41

27

single 50/60 Hz

240 V or

12 kW

50 A

50 A

92

82

54

36

6/2 AWG

### Tempra® Trend & Plus





| <b>Tempra® Model</b><br>Item Number                                  |               |                           |           |                              | <b>15 Trend</b> 239214 <b>15 Plus</b> 239220 |                              | <b>20 Trend</b> 239215<br><b>20 Plus</b> 239221 |                              | <b>24 Trend³</b> 239216<br><b>24 Plus³</b> 239222 |                          | 239217<br>39223 | <b>36 Trend</b> <sup>5</sup> 239218<br><b>36 Plus</b> <sup>5</sup> 239225 |          |
|----------------------------------------------------------------------|---------------|---------------------------|-----------|------------------------------|----------------------------------------------|------------------------------|-------------------------------------------------|------------------------------|---------------------------------------------------|--------------------------|-----------------|---------------------------------------------------------------------------|----------|
| Phase                                                                |               | single 50/60 Hz           |           | single <sup>6</sup> 50/60 Hz |                                              | single <sup>6</sup> 50/60 Hz |                                                 | single <sup>6</sup> 50/60 Hz |                                                   | single <sup>6</sup> 50/6 | 0 Hz            | single <sup>6</sup> 50/6                                                  | 60 Hz    |
| Voltage                                                              |               | 240 V or                  | 208 V     | 240 V or                     | 208 V                                        | 240 V or                     | 208 V                                           | 240 V or 208 V               |                                                   | 240 V or 208 V           |                 | 240 V or 208 V                                                            |          |
| Wattage                                                              |               | 12 kW                     | 9 kW      | 14.4 kW                      | 10.8 kW                                      | 19.2 kW                      | 14.4 kW                                         | 24 kW                        | 18 kW                                             | 28.8 kW                  | 21.6 kW         | 36 kW                                                                     | 27 kW    |
| Amperage draw                                                        |               | 50 A                      | 44 A      | 2 x 30 A                     | 2 x 26 A                                     | 2 x 40 A                     | 2 x 35 A                                        | 2 x 50 A                     | 2 x 44 A                                          | 3 x 40 A                 | 3 x 35 A        | 3 x 50 A                                                                  | 3 x 44 A |
| Number & min. recommended size of circuit breakers¹ (DP)             |               | 1 x 50 A                  |           | 2 x 30 A                     |                                              | 2 x 40 A                     | 2 x 35 A                                        | 2 x 50 A                     |                                                   | 3 x 40 A                 | 3 x 35 A        | 3 x 50 A                                                                  |          |
| Number of runs & min.<br>recommended wire size <sup>2</sup> (copper) |               | 1 x 8/2 AWG               |           | 2 x 10/2 AWG                 |                                              | 2 x 8/2 AWG                  | 2 x 8/2 AWG                                     |                              | 2 x 8/2 AWG                                       |                          | 3 x 8/2 AWG     |                                                                           | i        |
| Maximum                                                              | @ 1.50 GPM    | 54°F                      | 41°F      | 65 °F                        | 49°F                                         | 88°F                         | 66°F                                            | 92°F                         | 82°F                                              | 92°F                     | 92°F            | 92°F                                                                      | 92 °F    |
| temperature<br>increase above                                        | @ 2.25 GPM    | 36°F                      | 27 °F     | 43°F                         | 37°F                                         | 58°F                         | 44°F                                            | 73°F                         | 54°F                                              | 87°F                     | 66°F            | 92°F                                                                      | 82°F     |
| ambient                                                              | @ 3.00 GPM    | 27°F                      | 20 °F     | 33 °F                        | 25°F                                         | 44°F                         | 33 °F                                           | 54°F                         | 41 °F                                             | 66°F                     | 49°F            | 82°F                                                                      | 61°F     |
| water temp                                                           | @ 4.50 GPM    | -                         | -         | -                            | -                                            | 29°F                         | 22°F                                            | 37°F                         | 27°F                                              | 44°F                     | 33°F            | 55 °F                                                                     | 41°F     |
| Min. water flow to                                                   | activate unit | 0.37 gpm (1               | .4 I/min) | 0.50 gpm (1.9 l/min)         |                                              | 0.50 gpm (1.9 l/min)         |                                                 | 0.50 gpm (1.9 l/min)         |                                                   | 0.77 gpm (2.9 l/min)     |                 | 0.77 gpm (2.9 l/min)                                                      |          |
| Weight                                                               |               | 13.5 lb (6.1              | kg)       | 16.1 lb (7.3 kg)             |                                              | 16.1 lb (7.3 kg)             |                                                 | 16.1 lb (7.3 l               | 16.1 lb (7.3 kg)                                  |                          | kg)             | 19.0 lb (8.6 kg)                                                          |          |
| Nominal water volu                                                   | ume           | 0.13 gal (0.5             | 5 1)      | 0.26 gal (1.0                | ) I)                                         | 0.26 gal (1.0                | )  )                                            | 0.26 gal (1.0                | 1)                                                | 0.39 gal (1.5            | 1)              | 0.39 gal (1.5                                                             | 5 1)     |
| Max. inlet water te                                                  | mperature     | 131°F (55°                | C)        |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |
| Dimensions                                                           |               | Width 16 <sup>5</sup> /8" | (42.0 cm) | X Height 14 <sup>1</sup> /2  | " (36.9 cm)                                  | X Depth 4 <sup>5</sup> /8"   | (11.7 cm)                                       |                              |                                                   |                          |                 |                                                                           |          |
| Minimum pressure                                                     |               | 30 psi (2 ba              | r)        |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |
| Working pressure                                                     |               | 150 psi (10               | bar)      |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |
| Tested to pressure                                                   |               | 300 psi (20               | bar)      |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |
| Water connections                                                    |               | 3/4" NPT                  |           |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |
|                                                                      |               |                           |           |                              |                                              |                              |                                                 |                              |                                                   |                          |                 |                                                                           |          |

- $^{
  m 1}$  Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load.
- <sup>2</sup> 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.
- <sup>3</sup> Requires minimum 150 A main service. <sup>4</sup> Requires 200 A main service. <sup>5</sup> Requires 300 A main service.
- <sup>6</sup> 29 Trend/Plus & 36 Trend/Plus may be wired for balanced 3-phase 208 V. 15 Trend/Plus, 20 Trend/Plus, 24 Trend/Plus may be wired for unbalanced 3-phase 208 V. These are our recommendations. Check local codes for compliance if necessary.