

DHE Sizing Guide Whole House Tankless Electric Water Heater

DHE MODEL

12 / Pro 12
 DRAWS 50 A
 Requires minimum
 100 A electric service

15 / Pro 15
 DRAWS 60 A
 Requires minimum
 100 A electric service

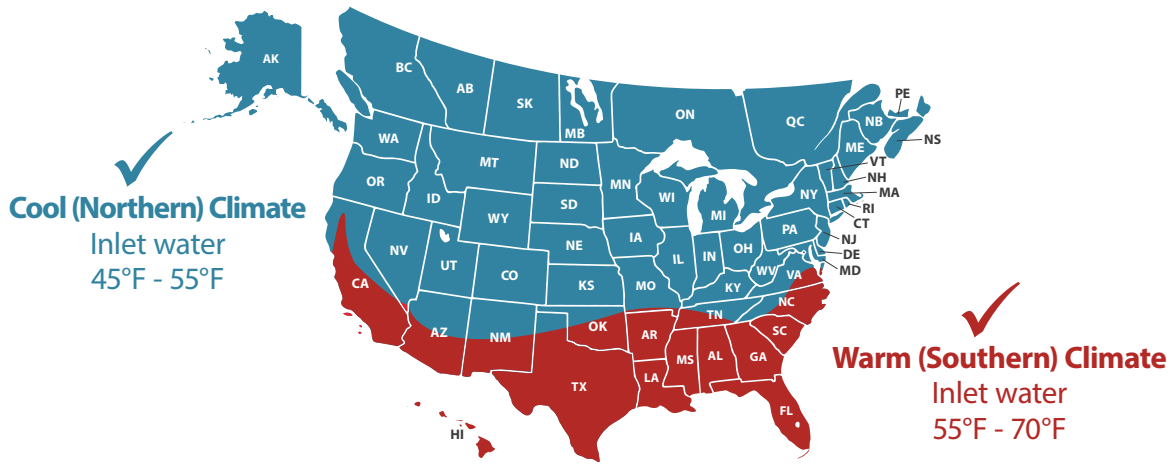
20 / Pro 20
 DRAWS 80 A
 Requires minimum
 125 A electric service

24 / Pro 24
 DRAWS 100 A
 Requires minimum
 200 A electric service

29 / Pro 29
 DRAWS 120 A
 Requires minimum
 200 A electric service

36 / Pro 36
 DRAWS 150 A
 Requires minimum
 300 A electric service

NUMBER OF BATHROOMS WITH SHOWER IN HOUSE / CONDO	DHE MODEL					
	12 / Pro 12	15 / Pro 15	20 / Pro 20	24 / Pro 24	29 / Pro 29	36 / Pro 36
1 Bath	✓	✓	✓	✓		
2 Baths			✓	✓	✓	
3 Baths					✓	✓
4 Baths	Please call Aqua Power® at 800.582.2213 for custom recommendation.					

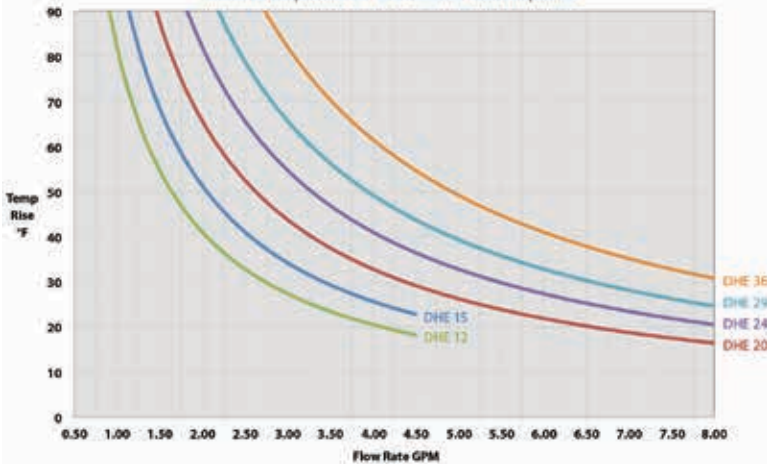


Recommendations for 240 V units are correct if installed with 240 V service.
 Increase one model size if unit will be installed with 208 V service.

Call Aqua Power® at 800.582.2213 if you have any sizing questions, or if you have high flow showers, or another out-of-the-ordinary situation. Aqua Power® service representatives can make recommendations on sizing, or provide assistance with our water heaters, to both homeowners and professional installers.

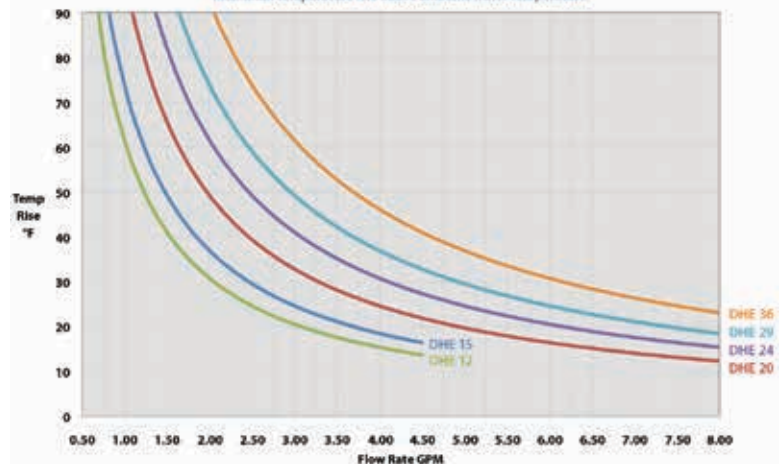
Temperature Rise versus Flow Rate @ 240 V

Maximum temperature rise above ambient water temperature



Temperature Rise versus Flow Rate @ 208 V

Maximum temperature rise above ambient water temperature



DHE Series Technical Data



Conforms to ANSI/UL Std. 499
Certified to CAN/CSA E335-1 &
E335-2-35



The Aqua Power DHE series is tested and
certified by WQA against NSF/ANSI 372
for lead free compliance.



DHE Model	Item Number	12 612446	15 612447	20 612448	24 ³ 612449	29 ³ 612450	36 ⁴ 612451
		* Pro 12 612546	Pro 15 612547	Pro 20 612548	Pro 24 ³ 612549	Pro 29 ³ 612550	Pro 36 ⁴ 612551
Phase - 60/50 Hz		Single	Single ⁵	Single ⁵	Single ⁵	Single ⁵	Single ⁵
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 (see below for required breaker size)		50 A 44 A	2x30 A 2x26 A	2x40 A 2x35 A	2x50 A 2x44 A	3x40 A 3x35 A	3x50 A 3x40 A
Required number & size of circuit breakers (double pole) ¹		1x 60 A	2x40 A	2x50 A	2x60 A	3x50 A	3x60 A
Required wire size and number of runs (copper) ²		1 x 6/2 AWG	2 x 8/2 AWG	2 x 8/2 AWG	2 x 6/2 AWG	3 x 8/2 AWG	3 x 6/2 AWG
Maximum temperature increase above ambient water temperature							
	@ 1.50 GPM	54 41	65 49	88 66	92 82	92 92	92 92
	@ 2.25 GPM	36 27	43 37	58 44	73 54	87 66	92 82
	@ 3.00 GPM	27 20	33 25	44 33	54 41	66 49	82 61
	@ 4.50 GPM	- -	- -	29 22	37 27	44 33	55 41
Minimum water flow to activate unit		0.37 GPM 1.4 l/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
Volume of water in unit		0.13 gal / 0.5 l	0.26 gal / 1.0 l	0.26 gal / 1.0 l	0.26 gal / 1.0 l	0.39 gal / 1.5 l	0.39 gal / 1.5 l
Weight		13.5 lb / 6.1 kg	16.1 lb / 7.3 kg	16.1 lb / 7.3 kg	16.1 lb / 7.3 kg	19.0 lb / 8.6 kg	19.0 lb / 8.6 kg
Dimensions (H x W x D)		14 1/2" / 369 mm x 16 5/8" / 420 mm x 4 5/8" / 117 mm					
Max. inlet water temperature		131°F / 55°C					
Working pressure		150 psi / 10 BAR					
Tested to pressure		300 psi / 20 BAR					
Water connections		3/4" NPT					

¹ This is our recommendation as the manufacturer. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

² Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

³ Requires a minimum of 200 A main service.

⁴ Requires a minimum of 300 A main service

⁵ 29/Pro 29 & 36/Pro 36 may be wired for balanced 3-phase 208V. 15/Pro 15, 20/Pro 20, 24/Pro 24 may be wired for unbalanced 3-phase 208V.

* DHE Pro models have Advanced Flow Control that automatically reduces the output flow rate to maintain the set temperature when demand temporarily exceeds capacity