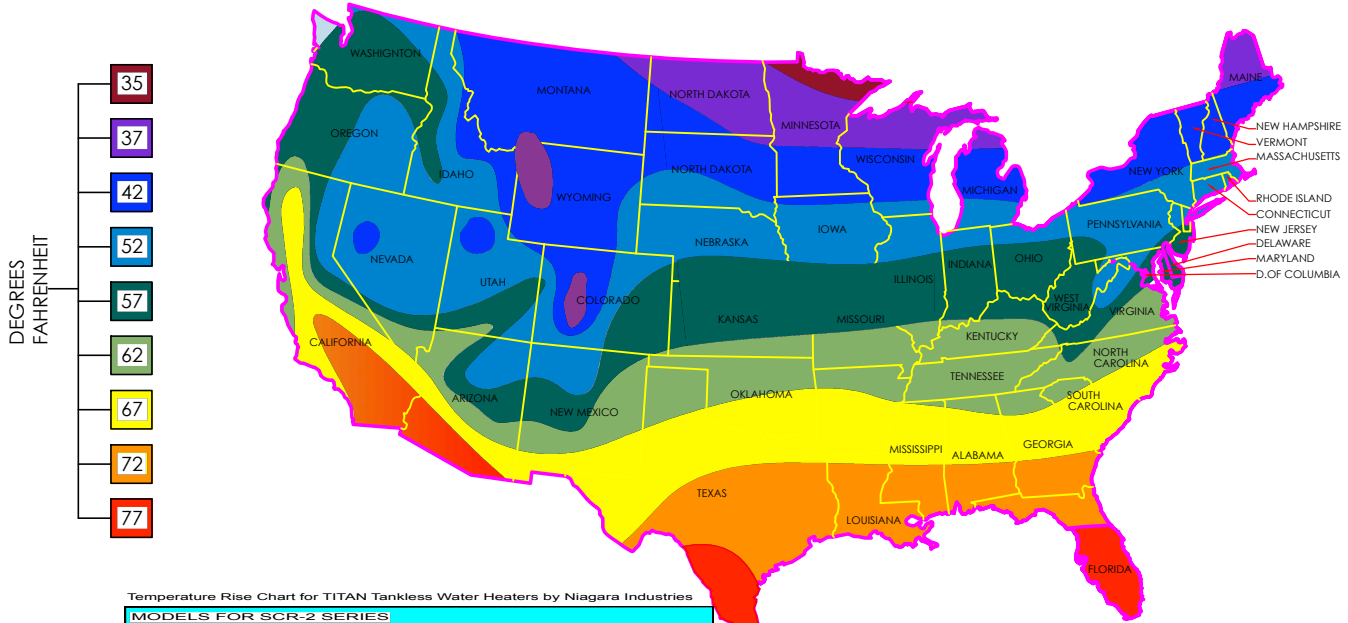


UNITED STATES GROUND WATER TEMPERATURE MAP



Temperature Rise Chart for TITAN Tankless Water Heaters by Niagara Industries

MODELS FOR SCR-2 SERIES							
FLOW RATE GPM	N-120	N-100	N-85	N-75	N-64	N-42	N-10
1.0 GPM	95	87	69	60	51	33	24
1.5 GPM	64	58	46	40	35	22	16
2.0 GPM	48	44	34	30	26	17	
2.5 GPM	38	35	28	24	21		
3.0 GPM	32	29	23				
3.5 GPM	28	25					
4.0 GPM	24						

MODELS N-160 SCR-3 SERIES							
FLOW RATE GPM	1.0 gpm	1.5 gpm	2.0 gpm	2.5 gpm	3.0 gpm	3.5 gpm	4.0 gpm
Gallons per minute Temp Rise Fahrenheit degrees	109	73	55	44	36	31	27

MODELS N-180 SCR-4 SERIES									
FLOW RATE GPM	1.0 gpm	1.5 gpm	2.0 gpm	2.5 gpm	3.0 gpm	3.5 gpm	4.0 gpm	4.5 gpm	5.0 gpm
Gallons per minute Temp Rise Fahrenheit degrees	122	81	61	49	41	35	31	27	25

MODELS N-210 SCR-4 SERIES									
FLOW RATE GPM	1.0 gpm	1.5 gpm	2.0 gpm	2.5 gpm	3.0 gpm	3.5 gpm	4.0 gpm	4.5 gpm	5.0 gpm
Gallons per minute Temp Rise Fahrenheit degrees	143	95	71	57	48	41	38	32	29

MODELS N-270 SCR-4 SERIES									
FLOW RATE GPM	1.0 gpm	1.5 gpm	2.0 gpm	2.5 gpm	3.0 gpm	3.5 gpm	4.0 gpm	4.5 gpm	5.0 gpm
Gallons per minute Temp Rise Fahrenheit degrees	180	118	86	66	54	46	44	40	36

HOW TO USE CHOOSE THE ADEQUATE TITAN MODEL:

- 1- LOCATE YOUR ZONE ON THE MAP.
EX: FLORIDA HAS AN AVERAGE WATER TEMPERATURE OF 77 DEGREES.
- 2- CALCULATE HOW MANY FIXTURES WILL YOU USE AT THE SAME TIME.
EX: 2 SHOWERS X 1.5 gpm = 3 gpm
- 3- GO TO THE TABLE AND FIND HOW MANY DEGREES YOUR CHOSEN UNIT IS ABLE TO RISE WHEN USING 3 gpm OF HOT WATER.
EX: THE N-120 WILL RISE 32 DEGREES @ 3gpm. 32+77= 109 DEGREES, WHICH IS A VERY COMFORTABLE TEMPERATURE. I CAN USE THE N-120, OR THE N-160 FOR A 2-BATH HOUSE IN WARMER ZONES.

TITAN MODEL	USES	GPM
N-10	POINT OF USE: (ex-SINK)	1.5
N-42	POINT OF USE: (ex-SINK)	2.0
N-64	OFFICE POINT OF USE	2.5
N-75	1 BATH STUDIO	2.8
N-85	1 BATH STUDIO	3.0
N-100	2- BATH APART. OR 1-BATH HOUSE	3.5
N-120X or S	2- BATH HOUSE UP TO 1,500 sq.ft.	4.0
N-160	2-1/2 BATH HOUSE UP TO 2,300 sq.ft.	4.5
N-180	3 BATH HOUSE	5.0
N-210	4 BATH HOUSE	5.0
N-270	5 BATH HOUSE	5.5



P2903.2 Maximum flow and water consumption.

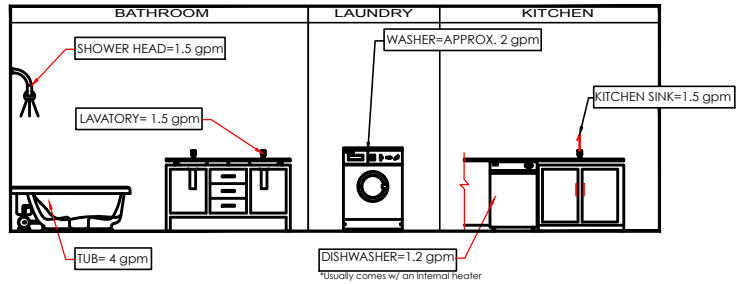
The maximum water consumption flow rates and quantities for all plumbing fixtures, fixture, fittings and appliances shall be in accordance with Table P2903.2a. Effective January 1, 2009, permit applications for new residential structures shall include high efficiency plumbing fixtures, fixture fittings and appliances as provided in Table P2903.2a. Such high efficiency plumbing fixtures, fixture fittings and appliances shall comply with the specifications in Table P2903.2a or have received the U.S. Environmental Protection Agency (EPA) WaterSense Label. United States Environmental Protection Agency <https://www.epa.gov/>

§ 8-31. Local technical amendments to Florida Building Code. TABLE 604.4 MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES, FIXTURE FITTINGS AND APPLIANCES	
PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE (b)
Lavatory, private	1.5 gpm at 60 psi
Lavatory, public, (metering)	0.25 gallon per metering cycle
Lavatory, public, (other than metering)	0.5 gpm at 60 psi
Shower head (a)	1.5 gpm at 80 psi
Sink/faucet	1.5 gpm at 80 psi
Water closet	1.28 gallons per flushing cycle
Dishwasher (residential)	6.5 gallons per cycle or less (Energy Star/Water Sense Certified) (c)
Dishwasher (commercial)	Less than 1.2 gallons per rack for fill and dump machines and less than 0.9 gallons per rack for all other types of machines
Dishwasher (under the counter machines)	1.0 gallon or less per rack for high-temperature machines and 1.7 gallons per rack for low-temperature machines
Washing machine	Water factor of 8 or lower (Energy Star/Water Sense Certified) (c)

- For SI:
 1 gallon = 3.785 L
 1 gallon per minute = 3.785 L/m
 1 pound per square inch = 6.895 kPa.
 (a) A hand-held shower spray is a shower head.
 (b) Consumption tolerances shall be determined from referenced standards.
 (c) Water factor in gallons per cycle per cubic foot.

Water Factor (WF or iWF) is the number of gallons per cycle per cubic foot that the washer uses. The lower the water factor, the more efficient the washer is.
 If a clothes washer uses 30 gallons per cycle and has a tub volume of 3.0 cubic feet, then the water factor is 10.0.
 WF is the quotient of the total weighted per-cycle water consumption, Q, divided by the capacity of the clothes washer, C.

HI-EFFICIENCY HOUSEHOLD FIXTURES



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