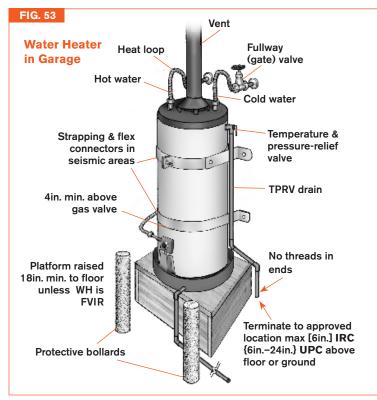
WATER HEATERS 21

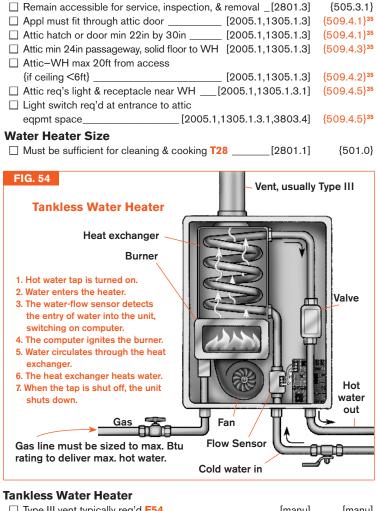
Access & Working Space

WATER HEATERS

Water heaters must supply hot water while safely controlling the energy that it takes to heat the water. Most water heaters have storage tanks, though instantaneous water heaters—known as "on-demand" heaters—are becoming more popular. Water heaters that are part of a boiler system providing space heating are discussed in *Code Check HVAC*.

Water Heaters General IRC	UPC
☐ Valve req'd on cold-water supply at or near WH [2903.9.2]	{605.2}
☐ Valve must be full-bore type F41,42 [2903.9.2]	{605.2}
☐ WH also used for space heating must be L&L for both [2448.2]	{n/a}
\square Systems also used for space heating req master mixing valve to	
temper domestic water to 140°F {120°F} or less[2802.2]	{n/a}
☐ Unions req'd {≤12in from heater} to allow removal{2801.3]	{609.5}
☐ Electric req's in-sight or lockable disconnect_ [1307.5,T4001.5]	{506.1}
Special Locations	
☐ Fuel-fired WH prohibited in storage closets[2005.2]	{n/a}
☐ Not in BRs, BAs, or their closets EXC[2005.2]	{505.1}
Direct-vent WH OK w/o enclosure, OR [2801.4X1]	{505.1}
WH OK in dedicated enclosure w/ solid, weatherstripped,	
self-close door & all combustion air from ext [2801.4X2]	$\{505.1\}^{33}$
☐ Ignition source min elevation 18in above	
garage floor F53 [2801.6]	{508.14}
☐ Ignition source elevation req'd if in room open to garage [1307.3]	{508.14}
☐ Elevation not req'd for FVIR WHs F59 [2408.2X]	{508.14}
☐ Min 18in above floor in area where flammables	
stored (basements) [2801.6, manu]	{508.13}
☐ On the ground-3in pedestal (concrete, etc) req'd [n/a]	{508.3}
☐ SDC D & C (townhouses) 1 strap req'd in upper ¹/3 of tank	
& 1 in lower ¹ / ₃ of tank (4in above controls) F53 [2801.7] ³⁴	{508.2}
☐ Barrier or elevation req'd in garage or carport F53 _ [1307.3.1]	{508.14}





IRC

UPC

Tankless Water Heater Type III vent typically req'd F54 [manu] [manu] TPRV/PRV if req'd by manu [manu] [manu] Size gas line to max Btu rating F54 [manu] [manu]

TABLE 28	MINIMUM HOT-WATER CAPACITY (5-1)	
# of BAs	# of BRs	1st-hr. Rating ^A (in gals.)
1-11/2	1	42
	2	54
	3	54
2-21/2	2	54
	3	67
	4	67
	5	80
3-3 ¹ /2	3	67
	4	80
	5	80
	6	80