

GEOTHERMAL DOMESTIC HW & HYDRONIC

STORAGE TANKS



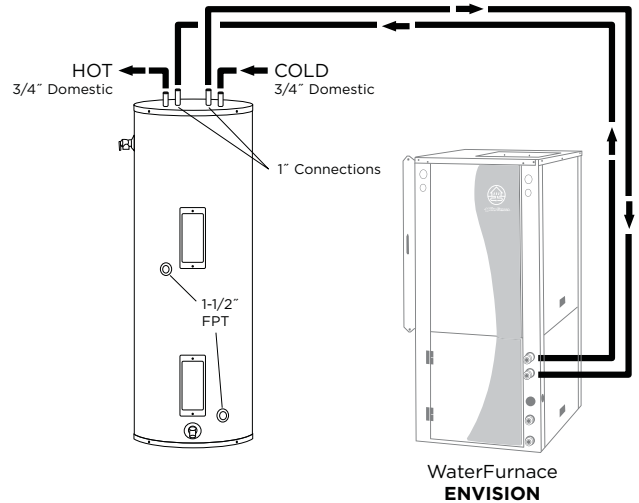
ENERGY EFFICIENT

WaterFurnace geothermal storage tanks, available in 80 or 119 gallon capacities, are specifically designed to provide consistent water temperature and constant hot water in geothermal systems! Large plumbing connections, 2" (R-16) insulation, built-in temperature sensor, and **chilled water approved** make these tanks the perfect choice for geothermal hydronic systems. Complete with extra plumbing connections and deluxe features, our storage tanks are also a great choice for geothermal domestic hot water systems.

APPLICATION FLEXIBILITY

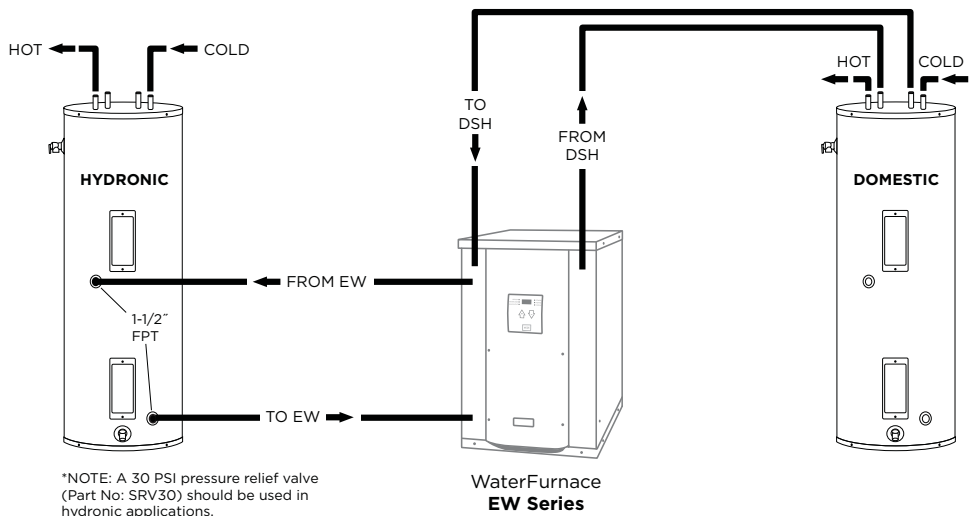
DOMESTIC HOT WATER

A pair of 1" connections on top of the storage tanks allow for easy installation and trouble-free operation in geothermal hot water assist systems.



GEOTHERMAL HYDRONIC

Large 1-1/2" FPT re-circulating side connections (shipped plugged) are included for high-flow water-to-water units. The upper element provides easy use of auxiliary/backup heat. The lower access panel houses a factory-installed thermistor for accurate tank set-point control.



*NOTE: A 30 PSI pressure relief valve (Part No: SRV30) should be used in hydronic applications.

OTHER APPLICATION FEATURES

All 'cold' connections feature a diffuser dip tube to reduce lime and sediment buildup and maximize equipment efficiency. Made from PEXAN, a cross linked polymer, these connections can withstand long term exposure to temperatures up to 400°F.

Factory installed temperature/pressure relief valve.

UL 174 Certified for household electric water heaters and factory approved for chilled water storage.

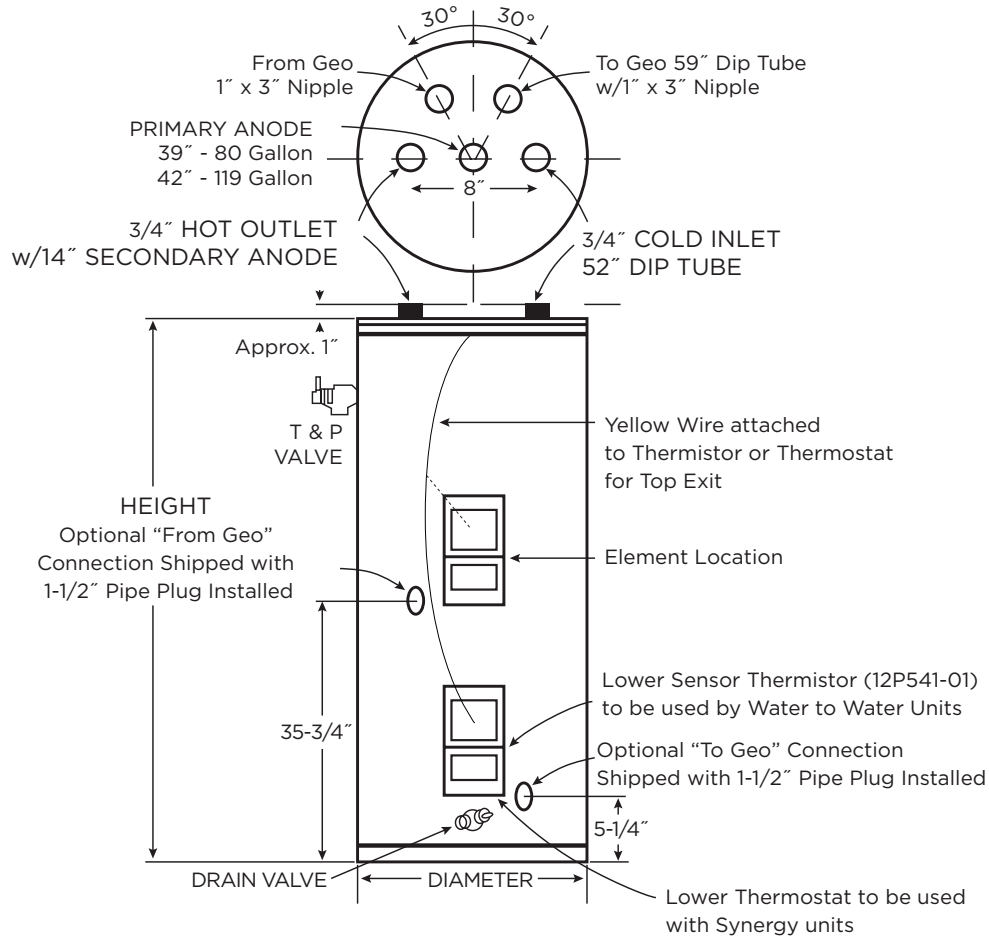
RELIABILITY

Glass-lined tank with two anode rods. Primary and secondary aluminum anode rods provide maximum protection against corrosion.

Brass tamper-resistant drain valve provides durability and longer life than plastic valves.

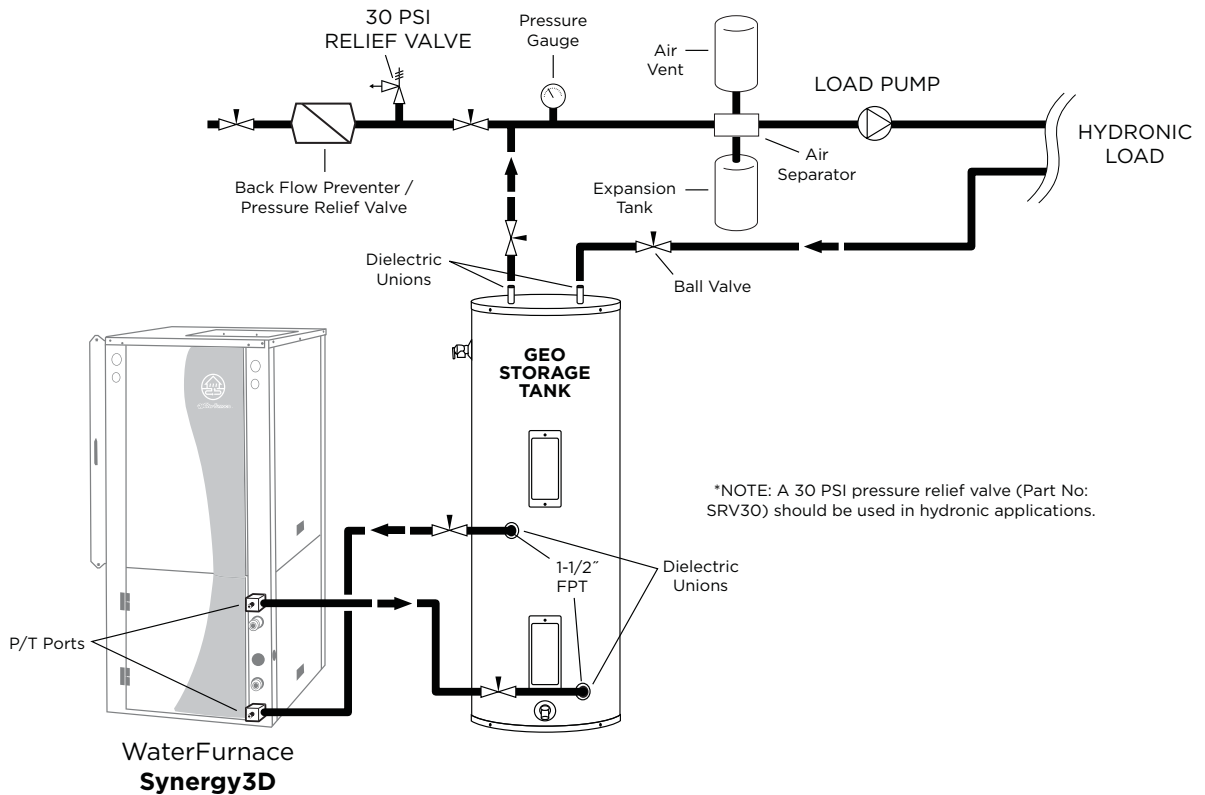
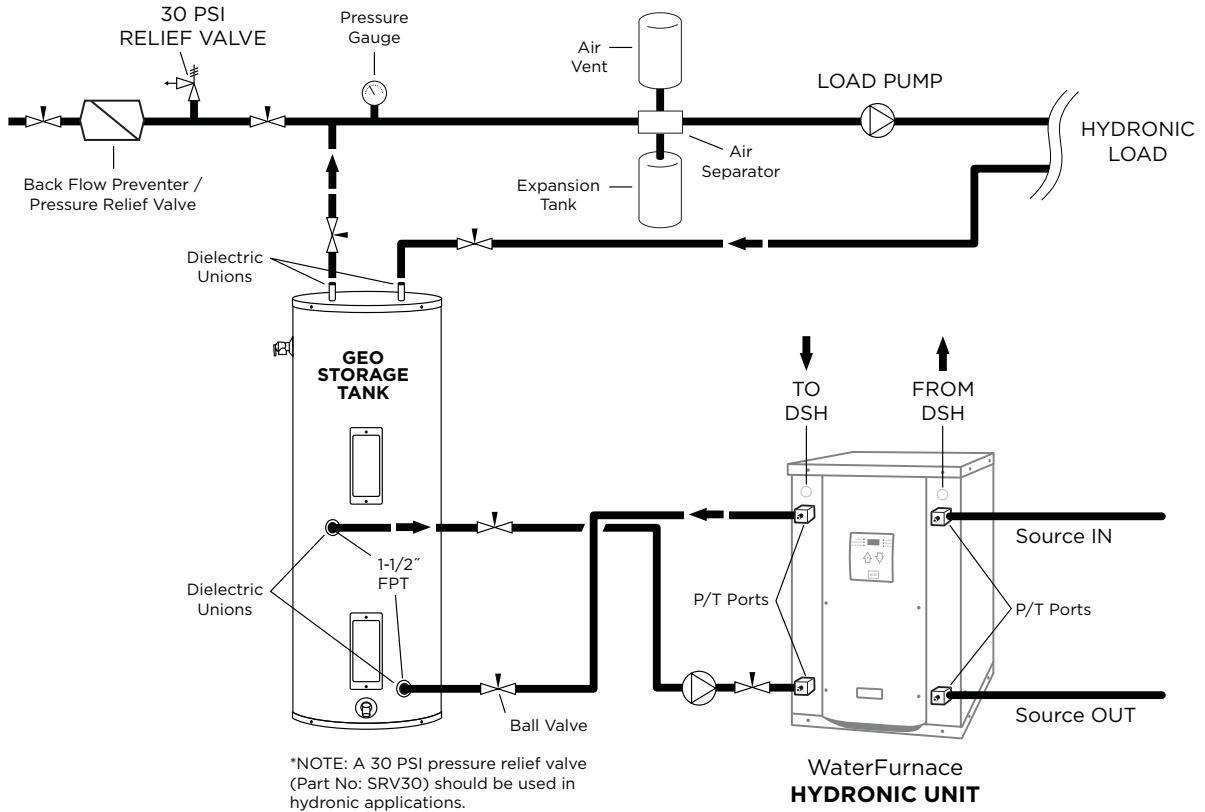
Sandhog low Watt density 4500 Watt Incoloy Steel Heating Element is designed to last 2 to 3 times longer than standard copper heating elements.

6-Year Limited Tank and Parts Warranty.



MODEL NUMBER	GALLON CAPACITY	ELEMENT WATTAGE (240 VOLT)	RECOVERY 90°F RISE GALLONS/HR	NUMBER OF ELEMENTS	R VALUE	DIMENSIONS IN INCHES		APPROX. SHIPPING WEIGHT (lbs.)
						HEIGHT	DIAMETER	
GEO-STORAGE-80	80	4500	21	1	16	63-1/4	24	204
GEO-STORAGE-120	119	4500	21	1	16	63-1/4	28	311

PLUMBING DIAGRAMS



PUMP & PIPE GUIDE

Unit Model	Cu Pipe Size (in)	Flow Rates (gpm)	PD w/30' pipe (ft hd)	Grundfos Pump Model
EW020	1.25	9	22.6	UP26-99
EW030	1.25	12	14.6	UP26-99
EW042	1.5	16	13.9	UP26-99
EW060	1.5	21	13.6	UP26-99
RTV046	1.25	12	*	UP26-116*
RTV056	1.25	14	*	UP26-116*
RTV066	1.5	16	*	UP26-116*
SDV038	1.25	9	*	UP26-99*
SDV049	1.25	12	*	UP26-99*
SDV064	1.25	15	*	UP26-99*
SDV072	1.5	18	*	UP26-99*

Note- * Internal pump

TYPE L COPPER PRESSURE LOSS

Ft of Hd per 100 ft

GPM	Type L Copper Tube				
	3/4	1	1-1/4	1-1/2	2
2	1.5				
3	3.2				
4	5.5	1.4			
5	8.5	2.1			
6		2.9	1.1		
7		3.9	1.4		
8		5.0	1.8		
9		6.1	2.3	0.9	
10		7.5	2.8	1.1	
12			3.9	1.6	
14			5.2	2.1	
16			6.6	2.7	
18			8.2	3.4	
20			10.0	4.1	1.1
22				5.0	1.3
25				6.3	1.6
30					2.2
35					2.9
40					3.8
45					4.7
50					5.7

Note: Standard piping practice limits pressure drop to 4 ft of hd per 100ft.

