

FIGURE 2

WATER HEATER SIZING FOR SWIMMING POOLS AND BAPTISTRIES						
HEATING TIME IN HOURS	FACTOR					
	20 DEG. F. RISE	25 DEG. F. RISE	30 DEG. F. RISE	40 DEG. F. RISE	50 DEG. F. RISE	60 DEG. F. RISE
6	40	50	60	80	100	120
12	20	25	30	40	50	60
24	10	12.5	15	20	25	30
48	5	6.3	*7.5	10	12.5	15
72	3.4	4.25	5.1	6.8	8.5	10.2
96	2.5	3.0	3.75	5.0	6.25	7.5
120	1.7	2.0	2.5	3.3	4.25	5.0
144	1.4	1.7	2.2	2.8	3.5	4.25
168	1.3	1.6	2.1	2.7	3.4	4.1
192	1.2	1.5	2.0	2.6	3.3	4.0
216	1.1	1.4	1.9	2.5	3.2	3.9
240	1.0	1.25	1.8	2.4	3.1	3.8

*DEPENDING ON CHART

NOTE: THE SSU-20PH CAN TRANSFER A MAXIMUM OF 200,000 BTU FROM THE BOILER. PLEASE MAKE SURE TO SIZE THE PUMP OFF OF THE BOILER CORRECTLY (SEE CHART 1, ON PAGE 4)

NOTE: The following is presented as a guide to determine the heating time in hours, for water heaters used to heat swimming pools and baptistries:

EXAMPLE FORMULA TO ESTABLISH RECOVERY OF POOL:

Boiler 84,000 (BTU/hour) divided by pool capacity, (gallons) = factor

TO FIND POOL'S CAPACITY IN GALLONS:

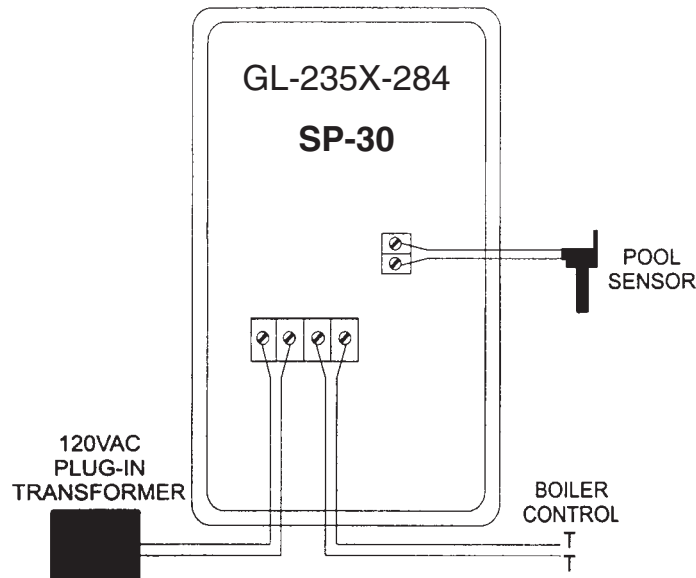
1. Find volume of pool (or baptistry tank) in cubic feet. Length X width X average depth = cubic feet of water.
2. Convert cubic feet of water to gallons = multiply by 7.5.
3. Use SSU-20PH, I.E. 84,000 BTU/hour
4. To determine how long it is going to take to heat up pool, divide 84,000 (BTU/hour using SSU-20PH) into pool capacity (in gallons). The answer should be matched up with the figures in the above chart under the required temp. rise column.

Example A:

7500 gallon pool needs to be heated from 40 degrees F. to 70 degrees F. (30 degrees F. rise) = 84,000 BTU divided by 7500 gallons = 11.2* (*see table above) under 30 degree F. rise columns. See that in just under 48 hours this can be done.

5. You must also have enough boiler to supply the gross output shown for the Super Stor selected. Once the pool is at temperature (70 degrees F. in our example), the Super Stor will require very few BTU/hour to maintain the pool at that temperature.

FIGURE 3



WIRING FOR SENSOR

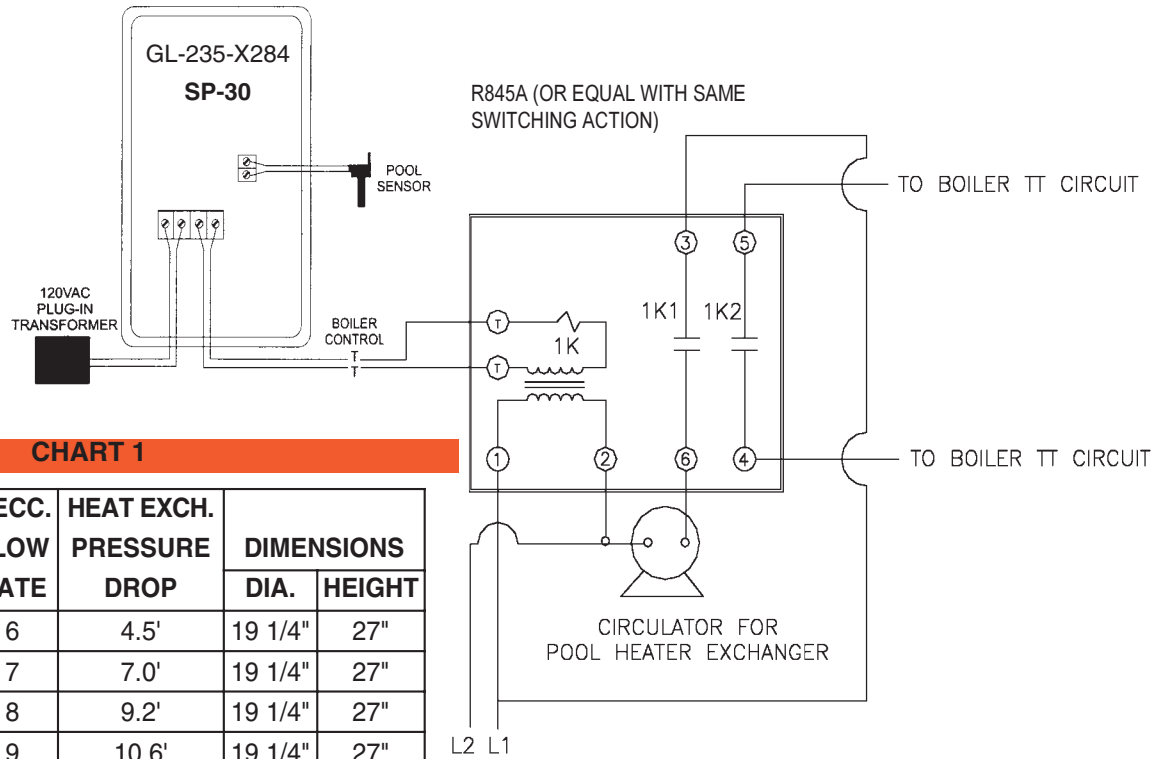
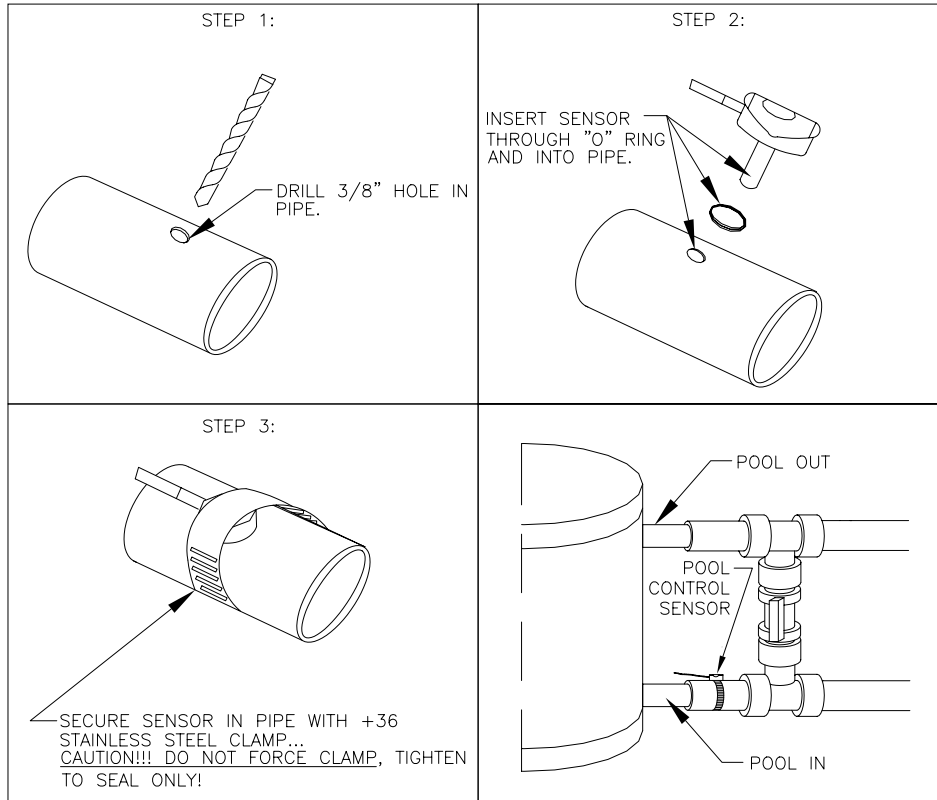


CHART 1

MODEL	REQ. BTU OUTPUT	RECC. FLOW RATE	HEAT EXCH. PRESSURE DROP	DIMENSIONS	
				DIA.	HEIGHT
SSU-20PH	100,000	6	4.5'	19 1/4"	27"
	125,000	7	7.0'	19 1/4"	27"
	150,000	8	9.2'	19 1/4"	27"
	195,000	9	10.6'	19 1/4"	27"
	200,000	10	12.5'	19 1/4"	27"

MOUNTING THE SENSOR



HTP

P.O. BOX 429, 120 BRALEY ROAD
EAST FREETOWN, MA 02717

508-763-8071 OR (outside of MA) 1-800-323-9651

VISIT OUR WEB SITE AT: WWW.HTPRODUCTS.COM