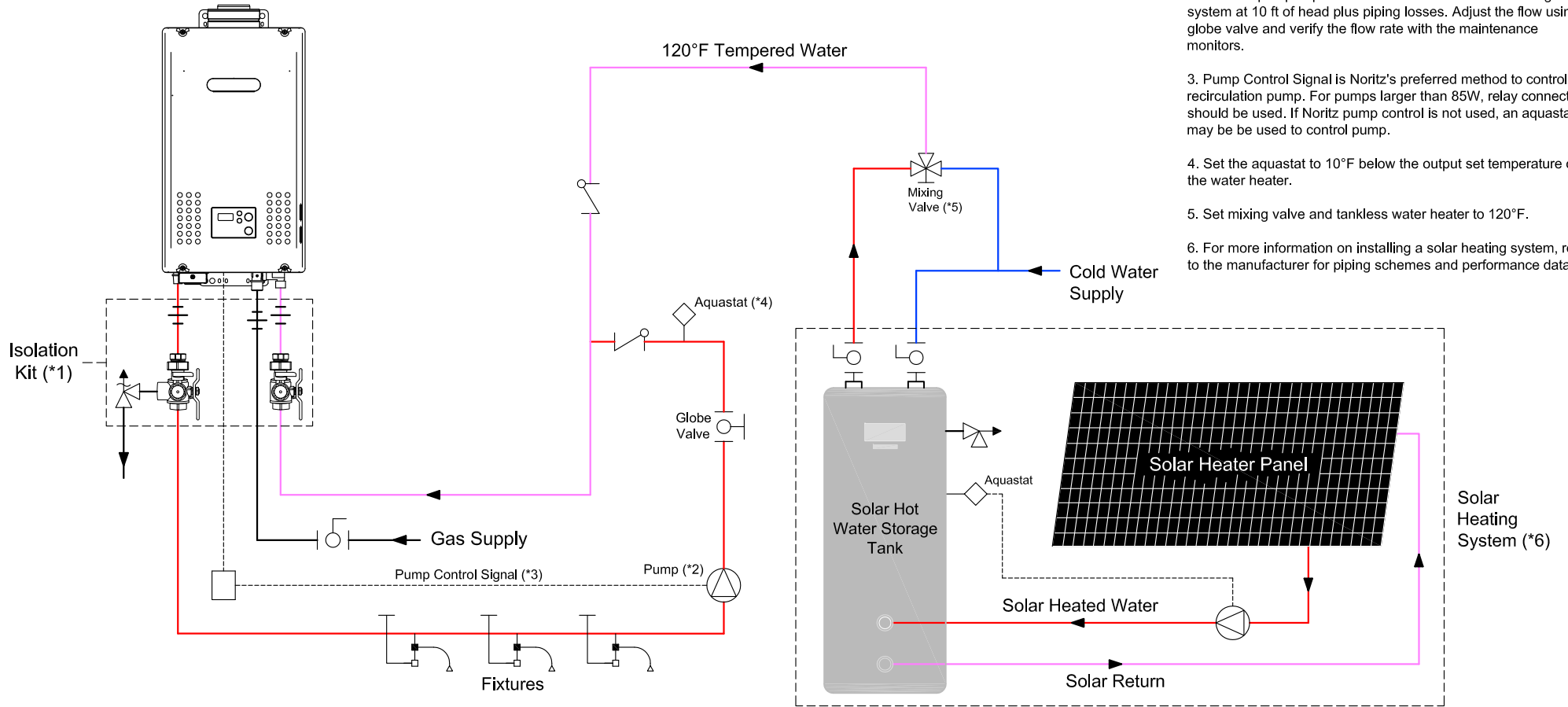


REVISIONS		DATE	APPRVD.
REV.	DESCRIPTION		

**Notes:**

- Noritz recommends the use of Isolation Kit (IK-WV-7) with installation. Connections are available in Threaded or Sweat. These kits include an integrated shut-off and service valve with unions and a pressure relief valve
- Size the pump to provide a maximum of 2.0 GPM through the system at 10 ft of head plus piping losses. Adjust the flow using a globe valve and verify the flow rate with the maintenance monitors.
- Pump Control Signal is Noritz's preferred method to control the recirculation pump. For pumps larger than 85W, relay connection should be used. If Noritz pump control is not used, an aquastat may be used to control pump.
- Set the aquastat to 10°F below the output set temperature of the water heater.
- Set mixing valve and tankless water heater to 120°F.
- For more information on installing a solar heating system, refer to the manufacturer for piping schemes and performance data.



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**MODEL:**

NR83 Series

**APPLICATION:**

Domestic Hot Water  
Solar Pre-Heat  
Recirculation

**DRAWING NUMBER:**

(4b)NR83

**DRAWING DATE:**

August 27, 2010

**Noritz Accessories**

*Note: This diagram is for reference only. Installation must comply with State and Local Code, all gas and water pipe must be sized correctly to specific length, according to accepted engineering methods or the UPC Code for Noritz Water Heaters to operate correctly.*

	Shut-off Ball Valve		Aquastat (Honeywell Model #L6006A or L6006C)
	Check Valve		Pump
	Union		Mixing Valve
	Pressure Relief Valve (Watts 3L, Zurn P1000A, Cash Acme FWL-2)		Thermal Expansion Tank