

REVISIONS

REV.	DESCRIPTION	DATE	APPRVD.

Notes:

In the event of a power loss, the Noritz unit will not have power to operate the 'internal freeze prevention' electric heater, so water would have to be drained from the system (unit & plumbing) manually to prevent any type of freezing.

An additional method to prevent freezing to the unit, would be by having the solenoid valves in place and wired to 110V supply, water will automatically be supplied to the Noritz only when there is power and water will automatically be drained from the system upon power loss or power outage.

1. 3/4" or bigger Solenoid Valve, normally open, closes upon 110V power loss.

2. Up to 3/4" Solenoid Valve, normally closed. Opens upon 110V power loss.

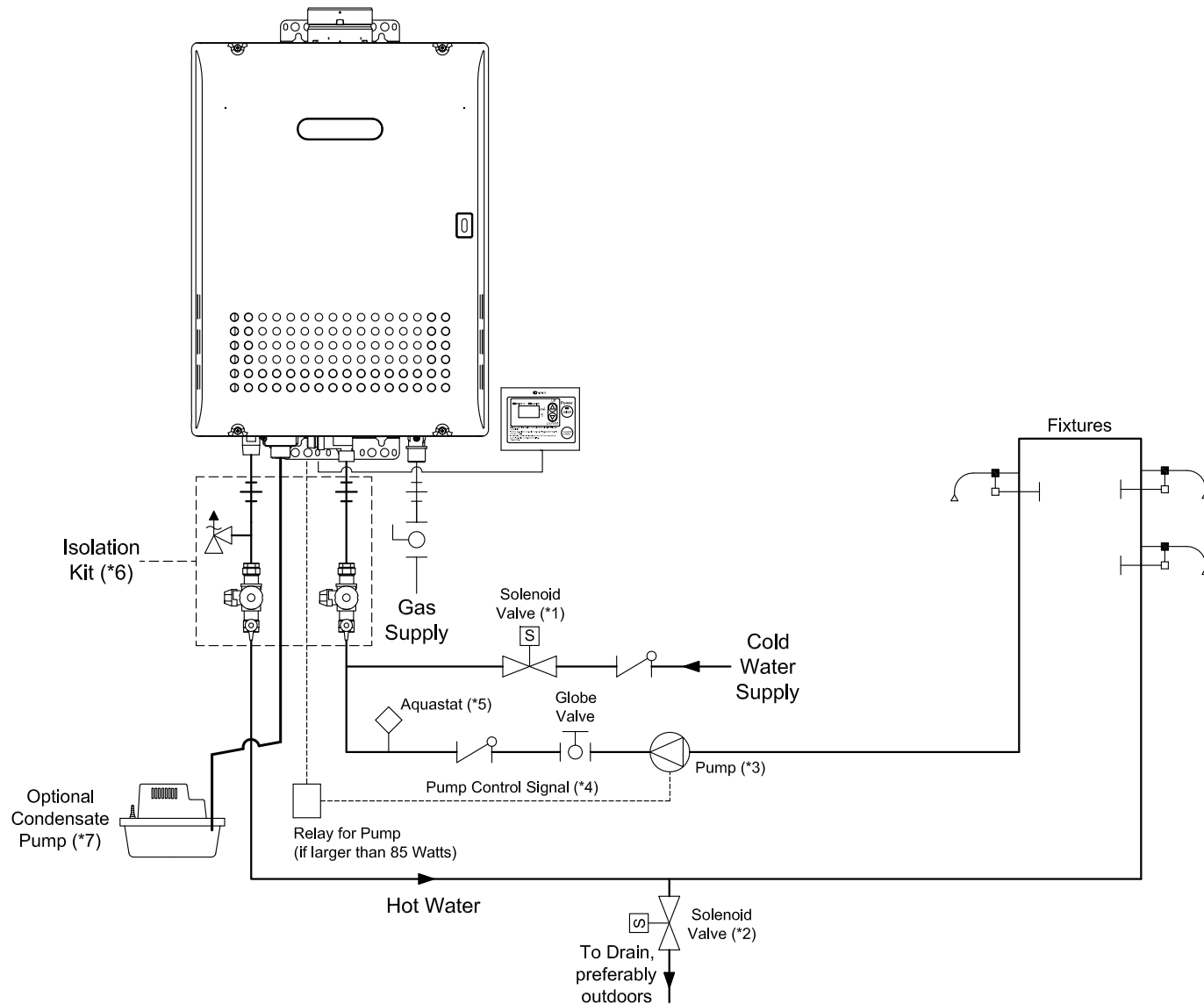
3. Size the pump to provide a maximum of 2 GPM through the system at 10 ft of head plus piping losses. Adjust the flow using a globe valve and verify the flow rate with the maintenance monitors.

4. 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.

5. Use aquastat if unit isn't controlling pump. Wire aquastat to pump according to "Circulation Pump to Aquastat Wire Diagram (PAWD.pdf)." Set the aquastat to 10°F below the set output temperature.

6. Noritz recommends the use of Isolation Kit (IK-WV-4) with installation. These kits include an integrated shut-off and service valve with unions and a pressure relief valve.

7. Use condensate pump when drain is located far away from water heater and size for desired lift distance. For the condensate drain line, use 1/2" PVC pipe. Slope horizontal pipe downwards 1/4" per foot towards drain or condensate pump. Do not submerge or block end of drain pipe.



11160 Grace Avenue  
Fountain Valley, California 92708  
866-7NORITZ (866-766-7489)  
www.noritz.com

MODEL:

N-0841MC

APPLICATION:

Domestic Hot Water  
Recirculation  
Additional Freeze Protection

DRAWING NUMBER:

(9a)N841MC

DRAWING DATE:

September 22, 2008

**Noritz Accessories**



RC-7649M (Remote Controller)



RC-CORD10 (10' Remote  
Controller Cord, optional in 26')



VC-4C (Outdoor Vent Cap,  
place on top of unit)

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

Check Valve

Union

Pressure Relief Valve (Watts 174A,  
Zurn P3000BR, Cash Acme F-82)

Aquastat (Honeywell Model  
#L6006A or L6006C)

Pump

Mixing Valve

Thermal Expansion Tank