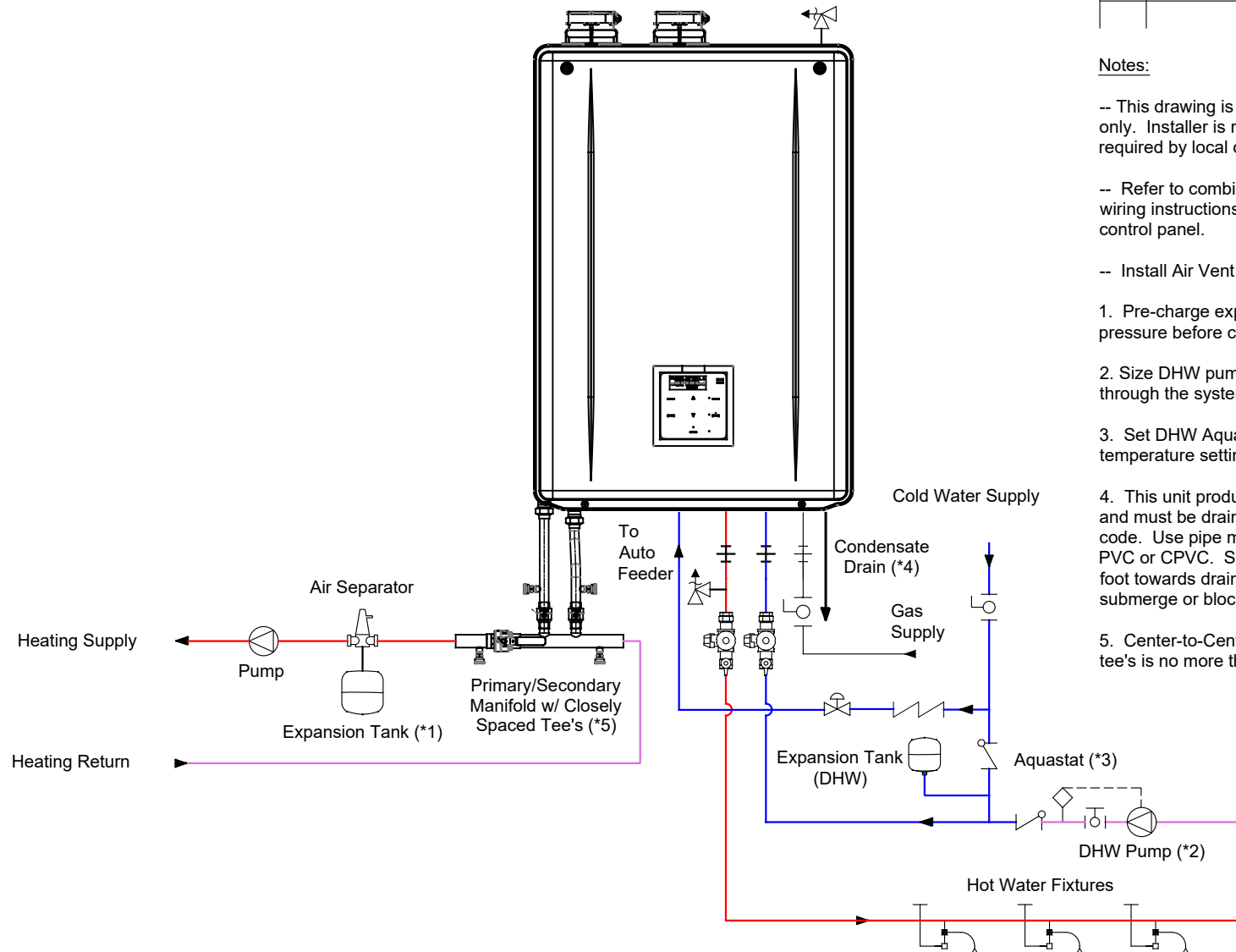


REVISIONS

REV.	DESCRIPTION	DATE	APPRVD.

Notes:

- This drawing is meant to show system piping concept only. Installer is responsible for all equipment & detailing required by local codes.
- Refer to combi boiler installation manual for electrical wiring instructions and activating Heating modes with the control panel.
- Install Air Vent at highest point in plumbing system.
- 1. Pre-charge expansion tank to heating system pressure before connecting to heating system piping.
- 2. Size DHW pump to provide a maximum of 2 gpm through the system at 10 ft of head plus piping losses.
- 3. Set DHW Aquastat to 10 F below the DWH temperature setting.
- 4. This unit produces acidic condensate during operation and must be drained and disposed according to local code. Use pipe material that will not corrode such as PVC or CPVC. Slope horizontal pipe downwards 1/4' per foot towards drain or condensate pump. Do no submerge or block end of drain pipe.
- 5. Center-to-Center distance between closely spaced tee's is no more than 4 pipe diameters.



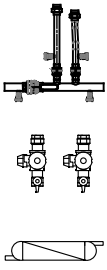
11160 Grace Avenue  
 Fountain Valley, California 92708  
 866-7NORITZ (866-766-7489)  
 www.noritz.com

**MODEL:**  
 NRCB180 / NRCB199

**APPLICATION:**  
 Primary/Secondary Heating  
 Domestic Hot Water  
 Recirculation

**DRAWING NUMBER:**  
 NRCB-Prim\_Sec-Recirc

**DRAWING DATE:**  
 December 2018



**Noritz Accessories**

Primary/Secondary Manifold Kit  
 (# MK-NRCB-1)

DHW Isolation Kit w/  
 Pressure Relief  
 3/4" (# IK-WV-200-1-[Th or SW])

Residential Neutralizer  
 (# NC-1)

*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		Pressure Regulator
	Pressure Relief Valve		Backflow Preventer