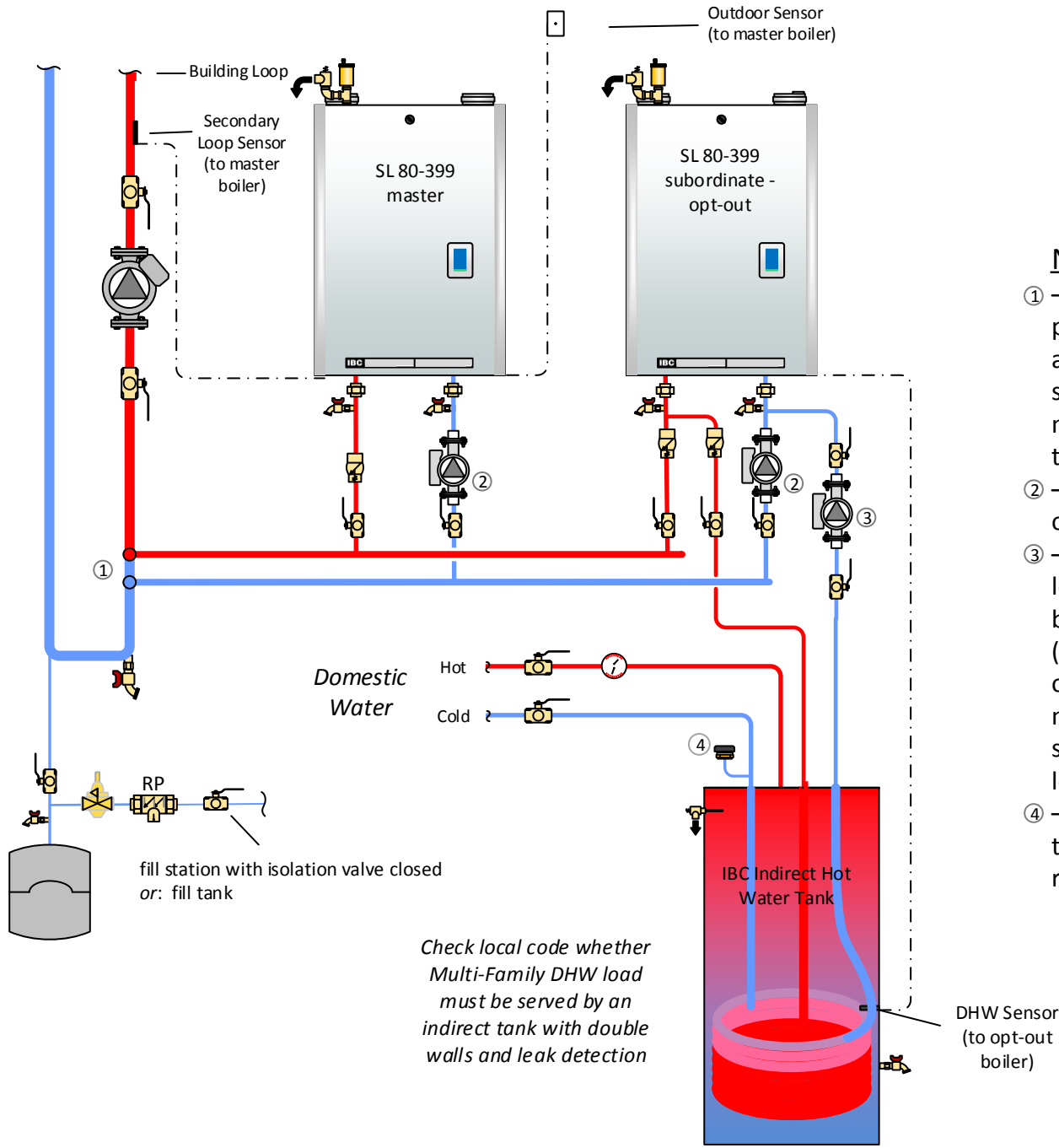




# Better Boilers



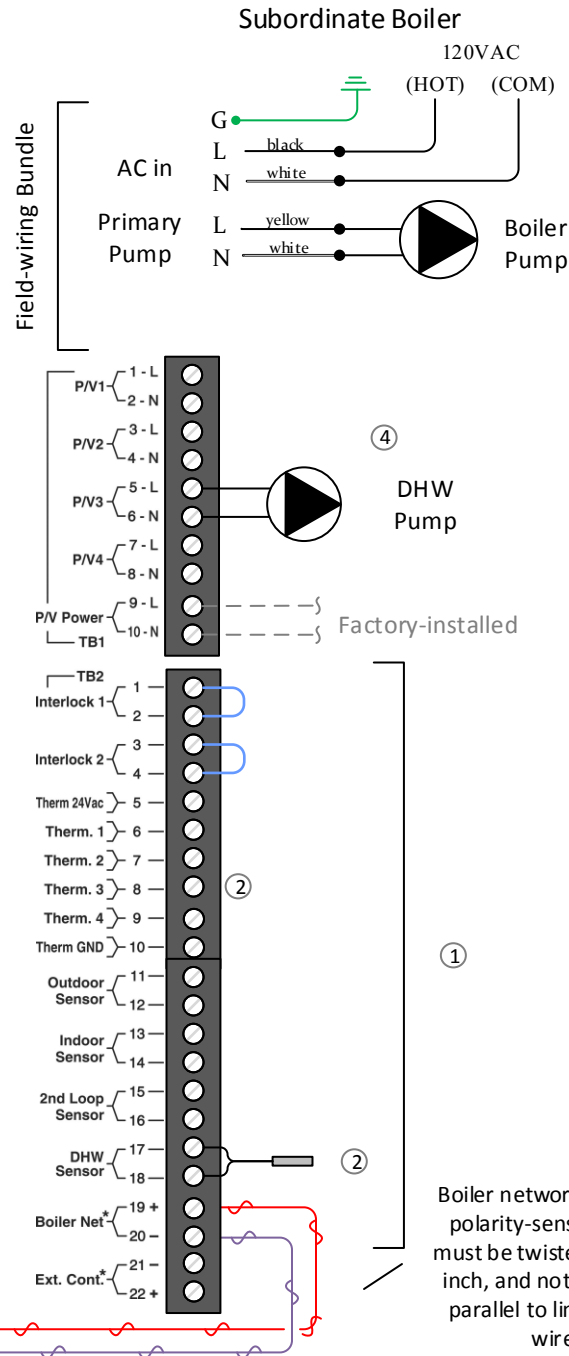
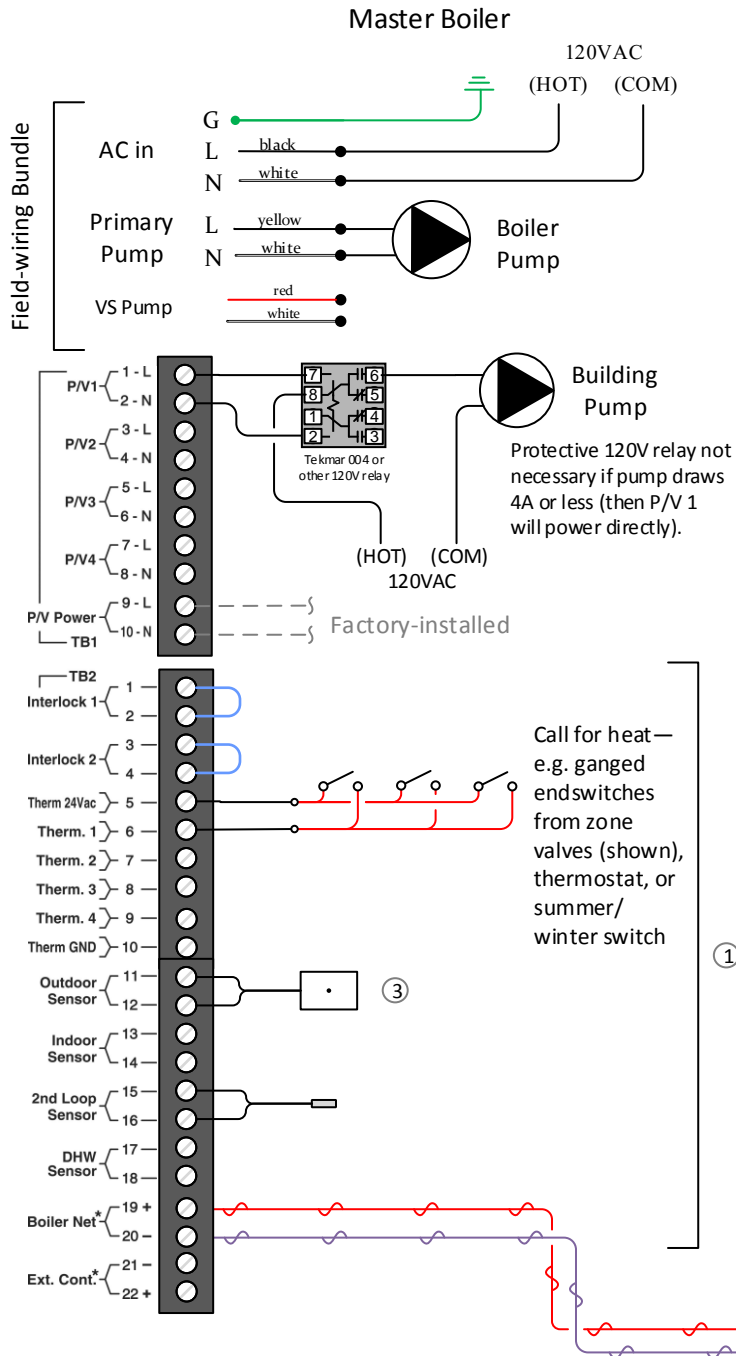
## Notes

- ① – Closely spaced tees are maximum of four primary circuit piping diameters apart, with a minimum of eight pipe diameters of straight tubing upstream of first tee and a minimum four pipe diameters straight tubing downstream of second tee.
- ② – Recommended boiler pumps UPS 43-44F or equivalent.
- ③ – Opt-out pump sized for combined head loss of boiler and indirect coil. Subordinate boiler DHW load *Boiler Pump* set to *Off* (turns off primary pump during DHW operation). Opt-out boiler configured as network subordinate, can contribute to space heating demand when hot water load is satisfied.
- ④ – Vacuum relief valve; thermal expansion tank for domestic water also recommended.

CAUTION: This drawing is a simple schematic guide to a successful installation. There may be many necessary components not shown here. We require that our boilers be installed by licensed and experienced trades people who are familiar with the applicable local and national codes. System design is to be completed by an experienced hydronic designer or Engineer. It is necessary to carefully read and follow the installation instructions that come with the boiler along with the application drawing that fits your system.

IBC 399 2.2.ind		IBC SL 80-399 2 boiler network DHW	
DRAWN BY BRAD POULSEN		DATE 1/5/2015	
DESCRIPTION Two-boiler installation with one boiler opting out of network to heat domestic hot water through an indirect tank.			
			PAGE 1 OF 2

# Wiring Diagram



## Better Boilers

### Wiring Notes

- ① – No external voltages to be applied to TB2 control terminal strip connections 1-20.
- ② – If aquastat is used in indirect tank well, connect to *Therm. 3* terminals; in this case DHW sensor will not be connected.
- ③ – Outdoor sensor installed on North exterior wall, exposed to actual outdoor air temperature.
- ④ – Pump circuits are fused for a total draw of 5A; maximum amperage draw of 4A is recommended.

### Programming Notes

- A – See memo *Multiple Boiler Systems* for full details about network configuring. For the Master Boiler only, in *Installer Setup Menu / MultiBoiler*, turn Master Boiler to *On*, and define boiler ID as “1”. Set boiler ID at subordinate boiler to “2”, leaving Master Boiler *Off*.
- B – For Master Boiler, in *Installer Setup* menu set Load 1 as *Reset Heating* or *Set Point* as desired. Set *Water ° From* to *Secondary Loop Sensor*.
- C – For Opt-Out boiler, in *Installer Settings* menu set Load 3 as *DHW*. For DHW set *Boiler Pump* to *Off*.

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