

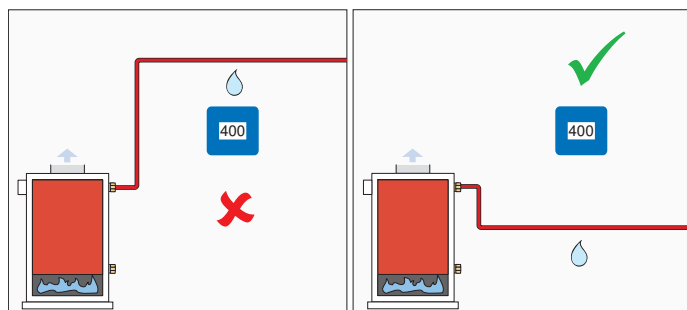


Q 400

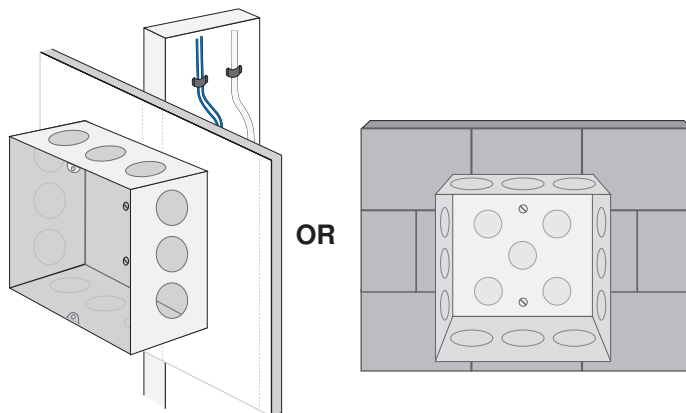
09/10

HVAC Systems Replaces: 06/09

1. Location



2. Install Junction Box



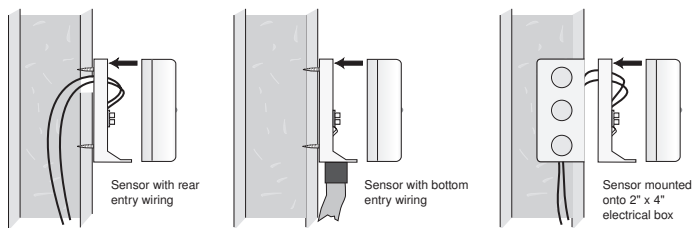
3. Size Transformer

Zone	1	2	3	4		
Thermostat Load						
Zone Valve Load					Floating Action (VA)	Control Load (VA)
Total Zone Load	+ _____	+ _____	+ _____	+ _____	+ _____	2

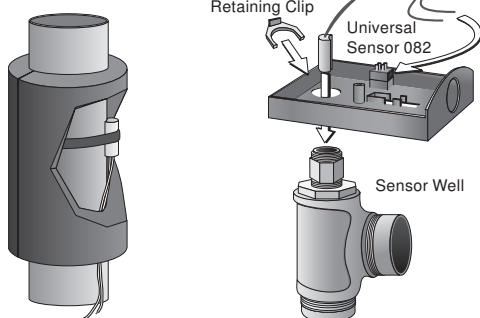
Transformer must exceed: _____ VA

4. Install Sensors

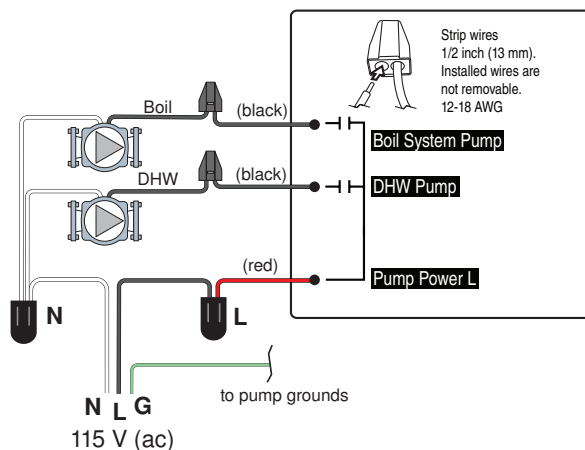
Outdoor Sensors



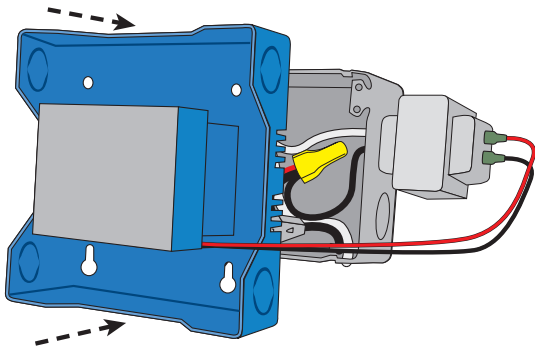
Pipe Sensors



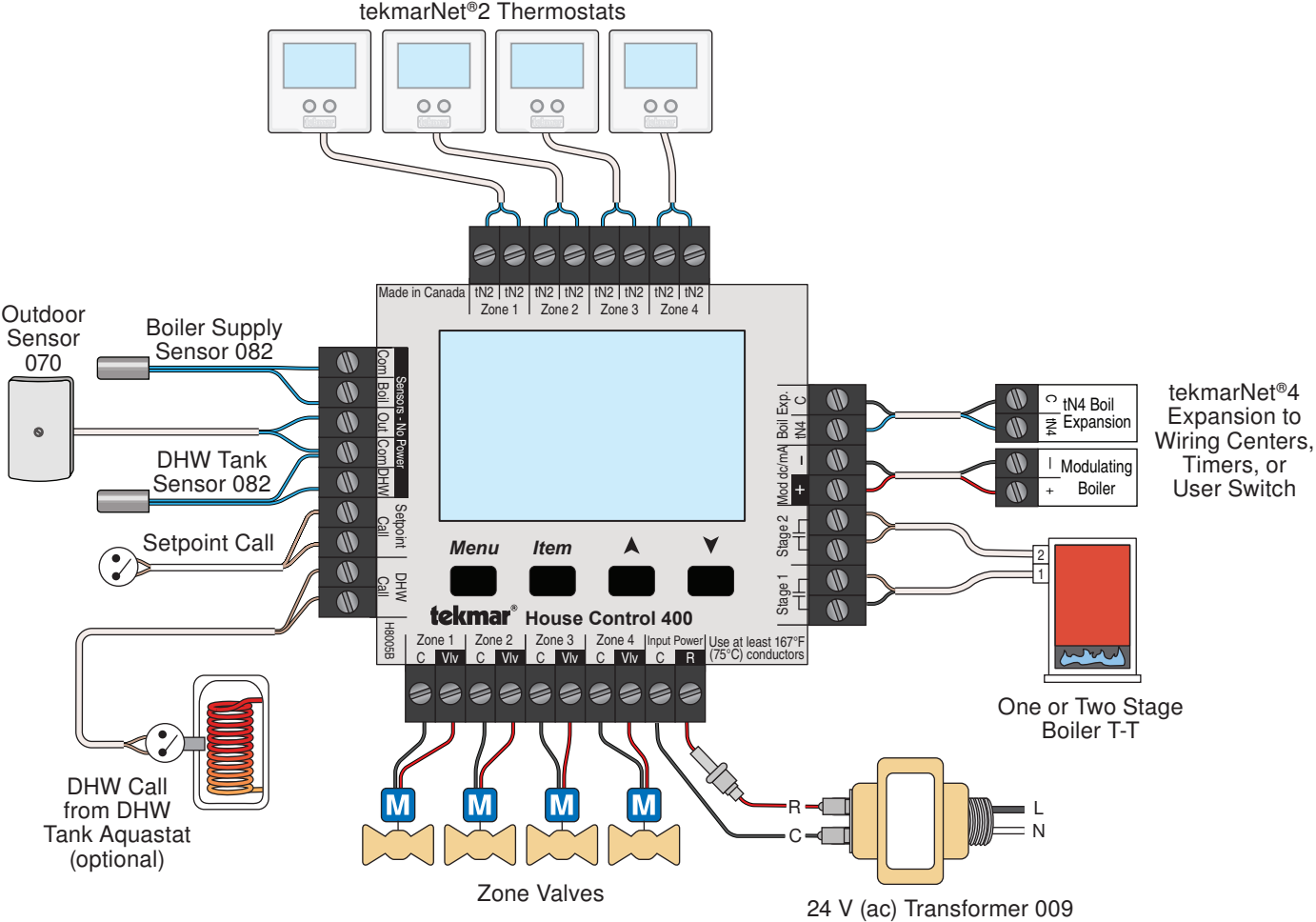
5. Line Voltage Wiring



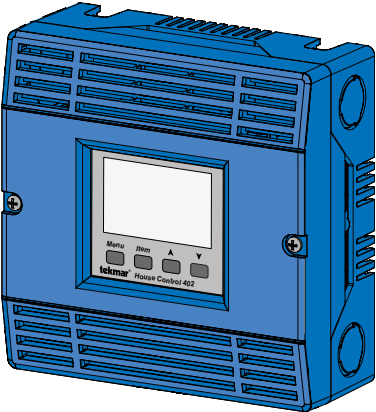
6.Install Enclosure



7.Low Voltage Wiring

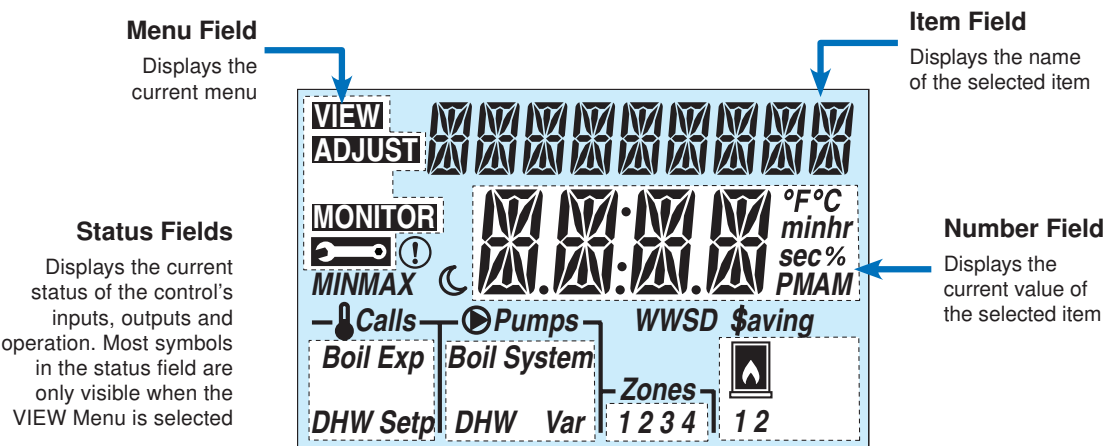


8.Install Cover



9. User Interface

Display



Symbols

	CALLS Displays any call for heat the control is receiving.	WWSD	WWSD Displays when the system is in Warm Weather Shut Down.
	PUMPS Displays any pump currently operating.	°F°C minhr sec%	°F, °C, %, HOURS, MINUTES, SECOND Units of measurement for current number.
Zones 1 2 3 4	ZONES Displays if an on-board zone is operating.		UNOCCUPIED Indicates that a User Switch or Timer has put the system into UnOccupied.
	WARNING Displays if an error exists on the system.		BOILER Indicates that the boiler should be heating.
\$aving	ENERGY SAVING INDICATOR Displays when the system is saving energy. See the Saving Indicator section.	MINMAX	MIN / MAX Displays when an operating temperature reaches a minimum or maximum value.

10. Access Level

Menu

Item

▲ ▼

Press menu button until the Toolbox Menu is displayed. Press item button to locate the access level setting.

INST (Installer) or USER
Default = INST

ACCESS LEVEL
Selects the Access Level of the control, which determines the Menu items available. USER provides the most limited level of access and shows the fewest possible items.
When set to USER, all thermostats are locked and the number of thermostat settings available are reduced.

11. Critical Settings

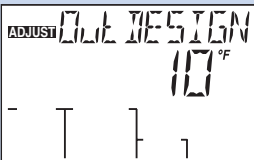
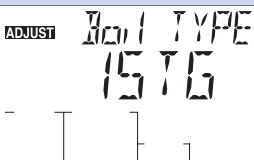
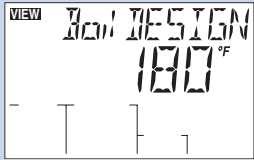
Menu


Item





Press menu button until the Adjust Menu is displayed. Press item button to locate the desired setting.

Item Field	Range	Access	Description	Set to
	-60 to 45 °F (-51.0 to 7.0 °C) Default = 10 °F (-12.0 °C)	Installer	OUTDOOR DESIGN Typically set to the temperature of the coldest day of the year. The outdoor air temperature used in the boiler heating curve is used to determine the boiler target temperature.	
	EMS2, EMS1, 4-20 0-10, 2STG, 1STG Default = 1STG	Installer	BOILER TYPE The type of boiler connected to the control. 1STG = single one-stage on-off boiler 2STG = single two-stage on-off boiler 0-10 = 0-10 V (dc) modulating boiler 4-20 = 4-20 mA modulating boiler EMS1 = tekmar boiler staging controls EMS2 = Viessmann modulating boilers with OpenTherm	
	70 to 200 °F (21.0 to 93.5 °C) Default = 180 °F (82.0 °C)	Installer	BOILER DESIGN The supply water temperature required for the boiler zones to heat the building on the typical coldest day of the year. Recommendations: High mass radiant floor = 120 °F (50 °C) Low mass radiant floor = 140 °F (60 °C) Fancoil or air handling unit = 190 °F (90 °C) Copper fin-tube convactor = 180 °F (80 °C) Radiators = 160 °F (70 °C) Low profile baseboard = 150 °F (65 °C)	