Honeywell Home

AQ25242B Universal Injection/Mixing Boiler Reset Control Panel

System commissioning date: _____

Customer: _____

Building address: _____

INSTALLATION JOB RECORD

INSTRUCTIONS:

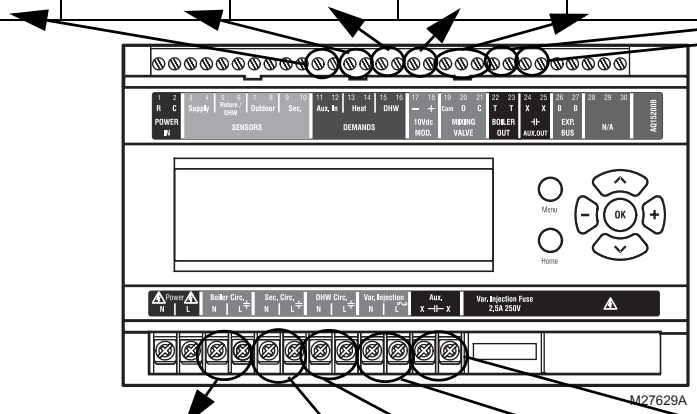
Fill in the details of the equipment connected to the control module and the zoning module:

- **A.** Low voltage control module wiring
- **B.** Line voltage Boiler pump, Secondary pump DHW pump and AUX output
- **C.** Low voltage zone thermostats
- **D.** Line voltage zone pumps or low voltage zone valves without end switches
- **E.** Review and set DIP switch settings - once DIP switches for the zoning module (AQ15540B) have been set, complete the "Installer Settings" diagram by filling in the circles to indicate the DIP switch position set during installation

File this with other installation records for equipment used on this installation.

A Boiler Control Module - Low Voltage

Terminal #	11-12	13-14	15-16	17-18	19-21	22-23	24-25
Terminal ID	Aux. In	Heat	DHW	+ 10Vdc -	COM O C	Boiler	Aux. Out
Input/ Output Description	Input	Input	Input	Output	Output	Output	Output
	Powered	Powered	Powered	Powered	Powered	Dry Contact	Dry Contact
	Warning: Do not apply power to these terminals						
Function	Installer defined	Heat Demand	DHW Demand	Modulating Signal	Floating Valve Signal	Boiler Demand	Installer defined
Equipment							
Manufacturer							
Model #							
Serial #							
Date Code							
Notes							



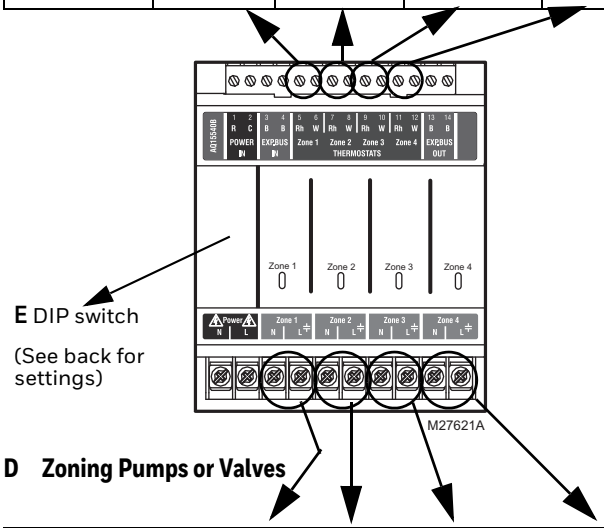
M27629A

B Boiler Pump, Secondary Pump, DHW, and AUX Device.

Terminal ID	Boiler	Sec	DHW	Var. Injection	Aux
Input/ Output Description	Output	Output	Output	Output	Output
	Powered	Powered	Powered	Powered	Dry Contact
Function	Boiler loop control	Secondary loop control	DHW loop control	Injection pump control	Installer defined
Equipment					
Manufacturer					
Model #					
Amp Draw					
Date Code					
Notes					

C Zoning Thermostats

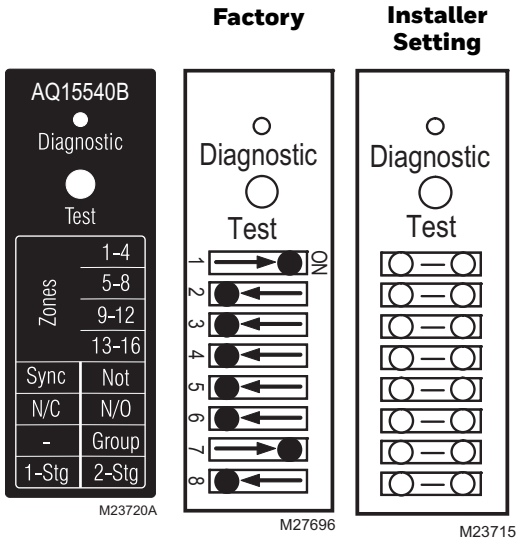
Terminal #	5-6	7-8	9-10	11-12
Terminal ID	TH1	TH2	TH3	TH4
Function	Zone call for heat			
Equipment				
Manufacturer				
Model #				
Date Code				
Notes				



D Zoning Pumps or Valves

Terminal ID	Zone 1	Zone 2	Zone 3	Zone 4
Function	Zone control			
Equipment (circle one)	Pump / Valve	Pump / Valve	Pump / Valve	Pump / Valve
Manufacturer				
Model #				
Date Code				
Power draw Amps (pumps) VA (valves)				
Notes				

E Zoning Module DIP Switch Settings



Fill in the circle to indicate position of DIP switch.

DIP Switch	Description
1 2 3 4	**Zone Address** Slide the DIP switch to the right-hand (ON) position to indicate which group of zones this is. The correct DIP switch settings for each zone module are: • First Zone (1-4) Module: 1 = ON position; 2, 3, and 4 = OFF position • Second Zone (5-8) Module: 2 = ON position; 1, 3, and 4 = OFF position • Third Zone (9-12) Module: 3 = ON position; 1, 2, and 4 = OFF position • Fourth Zone (13-16) Module: 4 = ON position; 1, 2, and 3 = OFF position NOTE: For each zone group, there can be only <u>one</u> DIP switch in the right-hand (ON) position.
5	• If set to SYNC, zone synchronization is enabled. • If set to NOT, zone synchronization is disabled.
6	• If zone valves are normally closed (N.C.), set the NC/NO DIP switch to the OFF position. • If zone valves are normally open (N.O.), set the NC/NO DIP switch to the ON position.
7	• If set to Group (ON postion), the zone outputs are energized with the AUX pump.[a] • If set to - (OFF position), the AUX Pump contacts are not affected by activity on these zones.
8	• If set to 2-Stg (ON position), then 2-stage operation is activated on thermostat inputs. The zoning module operates as two 2-stage zones or 3 zones (one 2-stage and two 1-stage). • If set to 1-Stg (OFF position), then operates as four 1-stage zones.

[a] The AQ252 menu option, EQUIPMENT SETUP > AUXILIARY I/O > AUX PUMP, must be set to GROUP.

EQUIPMENT SETTINGS

The Installer Menu is used to establish and modify the system's equipment and option settings. These include equipment settings for boiler operation, DHW management, zoning, auxiliary input/output operation, and option settings such as pump/valve exercise, and freeze protection.

Use Table 1 to record the equipment settings for this installation.

To record the equipment and option settings:

A. Press the Home button to return to the Home Page display.
B. Press and hold the OK button for 3 seconds until the message, INSTALLER MODE – ARE YOU SURE?, displays.
C. Select YES, then press and release the OK button to display the Installer Menu.
D. Select the Equipment Setup sub-menu.
E. Record the configured settings in Table 1.
F. Exit Installer mode by selecting the Installer Exit menu option.

Table 1. Installer Menu – Equipment Setup Sub-menu.

EQUIPMENT SETUP SUB-MENU				
Sub-Menu and Option		**Range**	**Factory Default**	**Equipment Settings Used**
BOILER SETTINGS				
	HIGH LIMIT	120°F to 225°F (49°C to 107°C)	190°F (88°C)	
	LOW LIMIT	60°F to 180°F (15°C to 82°C)	150°F	
	BOILER DIFF	2°F to 41°F (1°C to 23°C) / AUTO	AUTO	
	W.W.S.D.	_ _ [a] 35°F to 100°F (2°C to 38°C)	70°F (21°C)	
	RESET	OUTDOOR / LOAD / NONE	OUTDOOR	
	OUTDOOR LOW	-60°F to 32°F (-51°C to 0°C)	10°F (-12°C)	
	BOILER DSGN	80°F to 210°F (27°C to 99°C)	180°F (82°C)	
	MIN. RETURN	- - / 80°F to 180°F (27°C to 82°C)	140°F (60°C)	
BOILER OPERATION				
	CYCLES/HOUR	2 to 6	4	
	FIRE DELAY	0 seconds to 3 minutes (in 5 second increments)	10 (seconds)	
	PURGE TIME	OFF, 10 seconds to 30 minutes (in 10 second increments)	30 (seconds)	
	EXERCISE	YES / NO	YES	
	FREEZE PROT	YES / NO	YES	
10V MOD. SELECT				
	10V MOD	0-10V / 2-10V	0-10V	
	USAGE	NONE / MIX. INJ. / BOILER	NONE	
SECONDARY LOOP				
	MIX HIGH	- - 80°F to 210°F (27°C to 99°C)	140°F (60°C)	
	MIX LOW	- - 35°F to 150°F (2°C to 66°C)	- - (disabled)	
	MIX DESIGN	70°F to 210°F (21°C to 99°C)	120°F (49°C)	
	INJECT.	ENABLE / DISABLE	ENABLE	
	MIX.VLV	ENABLE / DISABLE	DISABLE	
	MIX.V.TTO	5 to 230 seconds (in 5 second increments)	160 (seconds)	
	MIX.V.ACT	DIRECT / REVRSE	DIRECT	
	MIX DEVICE	FLOAT / INJ / 10V	10V	
DOMEST.HOT WATER				
	DHW	ENABLE / DISABLE	ENABLE	
	DHW PRIO	YES / NO	NO	
	PRIO.OVER.	YES / NO	YES	
	DHW DEVICE	PUMP / VALVE	PUMP	

Table 1. Installer Menu – Equipment Setup Sub-menu. (Continued)

EQUIPMENT SETUP SUB-MENU				
Sub-Menu and Option		**Range**	**Factory Default**	**Equipment Settings Used**
DOMEST.HOT WATER (continued)				
	DHW VLV.OP	0 - 230 seconds (in 5 second increments)	15 (seconds)	
	DHW PURGE	YES / NO	YES	
	DHW SENSOR	YES / NO	NO	
	DHW SETPOINT	_ _[a] 60°F to 160°F (16°C to 71°C)	140°F (60°C)	
	DHW DIFF	_ _[a] 5°F to 40°F (2.5°C to 22°C)	20°F (-7°C)	
	DHW VACANCY	_ _[a] [41°F + DHW DIFF] to 160°F ([5°C + DHW DIFF] to 71°C)	45°F (7°C)	
ZONING				
	HEAT DMND	RESET / SETPT	RESET	
	HT DMND PRIO	YES / NO	NO	
	PRIO.OVER	YES / NO	NO	
	ZONING VALVES TIME TO OPEN	5 - 230 (seconds)	15 (seconds)	
	PRI/SEC	PRI / SEC	SEC	
AUXILIARY I/O				
	AUX.IN (optional)	SETBACK / VACANCY / EM. SHUT / NONE	SETBACK	
	AUX.OUT (optional)	BOILER / SETBACK / ZONE OP. / ALARM / AUX.IN / DHW IN / HEAT IN / HT DMND / COOL / NONE	BOILER	
	AUX.PUMP (optional)	BOILER / GROUP / OCC / BYPASS / FAN / NONE / AUX.IN / DHW IN / HEAT IN / HT DMND	BOILER	
A/C SETTINGS				
	CYCLES/HOUR	2 / 3 / 4 / 5 / 6	4	
	MIN.OFF TIME	2 to 10 (minutes)	5M	
	C.W.S.D.	_ _[a] 32°F to 100°F (0°C to 38°C)	65°F (18°C)	
	FAN MODE	AUTO / ON	AUTO	
A/C EQUIP CONFIG				
	ZONE	A-1 to D-16	A-1	
	A/C UNIT	NONE / 1	1	
	COOLING	ENABLE / DISABLE	ENABLE	
ENVIRACOM (not used - reserved for future use)				
	Modules ID:	n/a	n/a	

[a] This option is disabled or not used.

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