



HVAC Systems

Heating, Ventilating & Air Conditioning

Compare HVAC System Controls

System Requirements	256	260	261	279	356	360	361	362	374	400	401	402	403	422	423
<i>Number of Water Temperatures</i> Flexibility for custom applications	1	1	1	-	1	1	1	1	3	1	1	2	2	1&1*	4*
<i>Number of Boilers</i> Outdoor Temperature Reset control	1	1	2	1	1	1	1	1	2	1+	1+	1+	1+	1	2
<i>Boiler Type</i> On/Off (O) Modulating (M) or Steam (S)	O	O	O	S	O	O	O	O	O	O/M	O/M	O/M	O/M	O/M	O/M
<i>Multi-Stage Boiler Expansion via EMS</i> Control of additional boilers	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●
<i>DHW Through Valves (V) or Pumps (P)</i> Domestic hot water operation	-	V/P	-	-	-	-	-	-	V/P	P	P	P	P	P	V/P
<i>Setpoint Operation</i> Hot water for hot-tubs, pools & snowmelt	-	-	●	-	-	-	-	-	●	●	●	●	●	●	●
<i>Mixing</i> Protects boiler	-	-	-	-	●	●	●	●	●	-	-	●	●	●	●*
<i>Zone Control with Valves (V) or Pumps (P)</i> Up to four onboard zones	-	-	-	-	-	-	-	-	-	V	P	V	P	-	-
<i>Zone Expansion using Wiring Centers</i> Offers quick installations & simple troubleshooting	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●
Features & Benefits	256	260	261	279	356	360	361	362	374	400	401	402	403	422	423
<i>Outdoor Temperature Reset</i> Adjust water temperature based on outdoor temperature for energy savings	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<i>Warm Weather Shut Down</i> Shut down heating systems in warmer weather	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<i>Automatic Differential</i> Manage boiler run times to reduce cycling	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●
<i>Boiler Return Protection</i> Limits the amount of cool return water to boiler	-	-	-	-	●	●	●	●	●	-	-	●	●	●	●
<i>DHW Priority</i> DHW has priority over space heating	-	●	-	-	-	-	-	-	●	●	●	●	●	●	●
<i>Pump Exercising</i> Briefly run pump to prevent seizing	-	●	●	-	●	●	●	●	●	●	●	●	●	●	●
<i>tekmarNet® Communication - 2 or 4 Wire</i> Network communication provides greater functionality	-	-	-	-	-	-	-	-	-	2	2	2	2	2 or 4	2 or 4

1+ Single modulating boiler or 2-stage boiler

* Requires addition of mixing expansion module

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Compare HVAC System Controls Continued

Features & Benefits	256	260	261	279	356	360	361	362	374	400	401	402	403	422	423
Indoor Temperature Feedback Indoor zones report exact heating needs to the system control	-	-	-	•	-	-	-	-	-	•	•	•	•	•	•
Zone Synchronization Coordinate heat demands, minimize equipment cycling	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
Remote Monitoring Access tekmarNet® systems via the internet with a Gateway 483	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
Integrate with Home Automation Systems Connect to home automation systems with a Gateway 482	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
System Wide Control Add a User Switch to quickly adjust all networked thermostat settings	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•

Compare Modulating Boiler Signals

	400	401	402	403	422	423
0-10 V (dc)	•	•	•	•	•	•
4-20 mA	•	•	•	•	-	-
EMS Stager	•	•	•	•	•	•
Temperature Target	•	•	•	•	-	-

Compare Designer Series Mixing Expansion Modules

Pair mixing expansion modules with designer series reset modules to easily operate a mixing device within a tekmarNet® control system.

	440	441	444
Variable Speed	•	-	•
Floating Action	•	-	•
0-10 V (dc)	-	-	•
2-10 V (dc)	-	-	•
0-20 mA	-	-	•
4-20 mA	-	-	•
tekmarNet® valve actuator	-	•	-