







Ecodense Boiler Control Options SYSTEM DEFINITION		NUMBER OF BOILERS	Outside Sensor	CASCADE Module	Supply-Return Temperature Sensor	DHW Tank Temperature Sensor	3-Way Valve Temperature Sensor	Additional Control Module
			QAC34	OCT345.06	QAD36	QAZ36	QAZ36	AVS75
1	Condensing Boiler + Radiator	1	1	-	2	-	-	-
2	Condensing Boiler + Radiator + DHW Tank	1	1	-	2	1	-	-
3	Condensing Boiler + Radiator + DHW Tank (3-Way Valve)	1	1	-	2	1	1	1
4	Condensing Boiler + Underfloor Heating (3-Way Valve)	1	1	-	2	-	1	1
5	Condensing Boiler + Underfloor Heating + DHW Tank (3-Way Valve)	1	1	-	2	1	1	1
6	CASCADE With 2 Units + Radiator	2	1	2	2	-	-	-
7	CASCADE With 2 Units + Radiator + DHW Tank	2	1	2	2	1	-	-
8	CASCADE With 2 Units + Radiator + DHW Tank (3-Way Valve)	2	1	2	2	1	1	1
9	CASCADE With 2 Units + Underfloor Heating (3-Way Valve)	2	1	2	2	-	1	1
10	CASCADE With 2 Units + Underfloor Heating + DHW Tank (3-Way Valve)	2	1	2	2	1	1	1
11	CASCADE With 3 Units + Radiator	3	1	3	2	-	-	-
12	CASCADE With 3 Units + Radiator + DHW Tank	3	1	3	2	1	-	-
13	CASCADE With 3 Units + Radiator + DHW Tank (3-Way Valve)	3	1	3	2	1	1	1
14	CASCADE With 3 Units + Underfloor Heating (3-Way Valve)	3	1	3	2	-	1	1
15	CASCADE With 3 Units + Underfloor Heating + DHW Tank (3-Way Valve)	3	1	3	2	1	1	1
16	CASCADE With 4 Units + Radiator	4	1	4	2	-	-	-
17	CASCADE With 4 Units + Radiator + DHW Tank	4	1	4	2	1	-	-
18	CASCADE With 4 Units + Radiator + DHW Tank (3-Way Valve)	4	1	4	2	1	1	1
19	CASCADE With 4 Units + Underfloor Heating (3-Way Valve)	4	1	4	2	-	1	1
20	CASCADE With 4 Units + Underfloor Heating + DHW Tank (3-Way Valve)	4	1	4	2	1	1	1
21	CASCADE With 5 Units + Radiator	5	1	5	2	-	-	-
22	CASCADE With 5 Units + Radiator + DHW Tank	5	1	5	2	1	-	-
23	CASCADE With 5 Units + Radiator + DHW Tank (3-Way Valve)	5	1	5	2	1	1	1
24	CASCADE With 5 Units + Underfloor Heating (3-Way Valve)	5	1	5	2	-	1	1
25	CASCADE With 5 Units + Underfloor Heating + DHW Tank (3-Way Valve)	5	1	5	2	1	1	1
26	CASCADE With 6 Units + Radiator	6	1	6	2	-	-	-
27	CASCADE With 6 Units + Radiator + DHW Tank	6	1	6	2	1	-	-
28	CASCADE With 6 Units + Radiator + DHW Tank (3-Way Valve)	6	1	6	2	1	1	1
29	CASCADE With 6 Units + Underfloor Heating (3-Way Valve)	6	1	6	2	-	1	1
30	CASCADE With 6 Units + Underfloor Heating + DHW Tank (3-Way Valve)	6	1	6	2	1	1	1
31	CASCADE With 7 Units + Radiator	7	1	7	2	-	-	-
32	CASCADE With 7 Units + Radiator + DHW Tank	7	1	7	2	1	-	-
33	CASCADE With 7 Units + Radiator + DHW Tank (3-Way Valve)	7	1	7	2	1	1	1
34	CASCADE With 7 Units + Underfloor Heating (3-Way Valve)	7	1	7	2	-	1	1
35	CASCADE With 7 Units + Underfloor Heating + DHW Tank (3-Way Valve)	7	1	7	2	1	1	1
36	CASCADE With 8 Units + Radiator	8	1	8	2	-	-	-
37	CASCADE With 8 Units + Radiator + DHW Tank	8	1	8	2	1	-	-
38	CASCADE With 8 Units + Radiator + DHW Tank (3-Way Valve)	8	1	8	2	1	1	1
39	CASCADE With 8 Units + Underfloor Heating (3-Way Valve)	8	1	8	2	-	1	1
40	CASCADE With 8 Units + Underfloor Heating + DHW Tank (3-Way Valve)	8	1	8	2	1	1	1
41	CASCADE With 9 Units + Radiator	9	1	9	2	-	-	-
42	CASCADE With 9 Units + Radiator + DHW Tank	9	1	9	2	1	-	-
43	CASCADE With 9 Units + Radiator + DHW Tank (3-Way Valve)	9	1	9	2	1	1	1
44	CASCADE With 9 Units + Underfloor Heating (3-Way Valve)	9	1	9	2	-	1	1
45	CASCADE With 9 Units + Underfloor Heating + DHW Tank (3-Way Valve)	9	1	9	2	1	1	1
46	CASCADE With 10 Units + Radiator	10	1	10	2	-	-	-
47	CASCADE With 10 Units + Radiator + DHW Tank	10	1	10	2	1	-	-
48	CASCADE With 10 Units + Radiator + DHW Tank (3-Way Valve)	10	1	10	2	1	1	1
49	CASCADE With 10 Units + Underfloor Heating (3-Way Valve)	10	1	10	2	-	1	1
50	CASCADE With 10 Units + Underfloor Heating + DHW Tank (3-Way Valve)	10	1	10	2	1	1	1
51	CASCADE With 11 Units + Radiator	11	1	11	2	-	-	-
52	CASCADE With 11 Units + Radiator + DHW Tank	11	1	11	2	1	-	-
53	CASCADE With 11 Units + Radiator + DHW Tank (3-Way Valve)	11	1	11	2	1	1	1
54	CASCADE With 11 Units + Underfloor Heating (3-Way Valve)	11	1	11	2	-	1	1
55	CASCADE With 11 Units + Underfloor Heating + DHW Tank (3-Way Valve)	11	1	11	2	1	1	1
56	CASCADE With 12 Units + Radiator	12	1	12	2	-	-	-
57	CASCADE With 12 Units + Radiator + DHW Tank	12	1	12	2	1	-	-
58	CASCADE With 12 Units + Radiator + DHW Tank (3-Way Valve)	12	1	12	2	1	1	1
59	CASCADE With 12 Units + Underfloor Heating (3-Way Valve)	12	1	12	2	-	1	1
60	CASCADE With 12 Units + Underfloor Heating + DHW Tank (3-Way Valve)	12	1	12	2	1	1	1
61	CASCADE With 13 Units + Radiator	13	1	13	2	-	-	-
62	CASCADE With 13 Units + Radiator + DHW Tank	13	1	13	2	1	-	-
63	CASCADE With 13 Units + Radiator + DHW Tank (3-Way Valve)	13	1	13	2	1	1	1
64	CASCADE With 13 Units + Underfloor Heating (3-Way Valve)	13	1	13	2	-	1	1
65	CASCADE With 13 Units + Underfloor Heating + Boiler(3-Way Valve)	13	1	13	2	1	1	1
66	CASCADE With 14 Units + Radiator	14	1	14	2	-	-	-
67	CASCADE With 14 Units + Radiator + DHW Tank	14	1	14	2	1	-	-
68	CASCADE With 14 Units + Radiator + DHW Tank (3-Way Valve)	14	1	14	2	1	1	1
69	CASCADE With 14 Units + Underfloor Heating (3-Way Valve)	14	1	14	2	-	1	1
70	CASCADE With 14 Units + Underfloor Heating + DHW Tank (3-Way Valve)	14	1	14	2	1	1	1
71	CASCADE With 15 Units + Radiator	15	1	15	2	-	-	-
72	CASCADE With 15 Units + Radiator + DHW Tank	15	1	15	2	1	-	-
73	CASCADE With 15 Units + Radiator + DHW Tank (3-Way Valve)	15	1	15	2	1	1	1
74	CASCADE With 15 Units + Underfloor Heating (3-Way Valve)	15	1	15	2	-	1	1
75	CASCADE With 15 Units + Underfloor Heating + DHW Tank (3-Way Valve)	15	1	15	2	1	1	1
76	CASCADE With 16 Units + Radiator	16	1	16	2	-	-	-
77	CASCADE With 16 Units + Radiator + DHW Tank	16	1	16	2	1	-	-
78	CASCADE With 16 Units + Radiator + DHW Tank (3-Way Valve)	16	1	16	2	1	1	1
79	CASCADE With 16 Units + Underfloor Heating (3-Way Valve)	16	1	16	2	-	1	1
80	CASCADE With 16 Units + Underfloor Heating + DHW Tank (3-Way Valve)	16	1	16	2	1	1	1

Tips for System Applications

1. A QAZ36 cable temperature sensor must be installed in condensing boiler systems with solar panel. (According to system an AVS75 may be needed.)
2. A QAZ36 cable temperature sensor must be installed in CASCADE systems with solar panel.
3. A QAZ36 cable temperature sensor must be installed in condensing boiler systems with constant temperature (air handling units, public baths, etc.). (According to system an AVS75 may be needed.)
4. A QAZ36 cable temperature sensor must be installed in CASCADE systems with constant temperature (air handling units, public baths, etc.).

SENSOR DEFINITIONS

	QAC34 Outside Sensor: Its working temperature is between -50°C and 70°. With a cable which has 1.5 mm² cross section, it allows 120 m connection length. Its has a tolerance of ±1 K.
	QAD36 Strap-on Temperature Sensor: Its working temperature is between -30°C and 125°. With a cable which has 1.5 mm² cross section, it allows 80 m connection length. Its has a tolerance of ±0.5 K.
	QAZ36 Cable Temperature Sensor: Its working temperature is between 0°C and 95°. Its has a tolerance of ±0.5 K.
	OCT345.06 CASCADE Extension Module: It allows communication of CASCADE wall type condensing boilers as 1 master and 15 slaves.
	AVS75 Extension Module: It is used in applications which require additional module connections like relays, sensor, solar collector, etc..
	QAA55 CASCADE Outside Sensor: Operation mode and room comfort value can be set.