

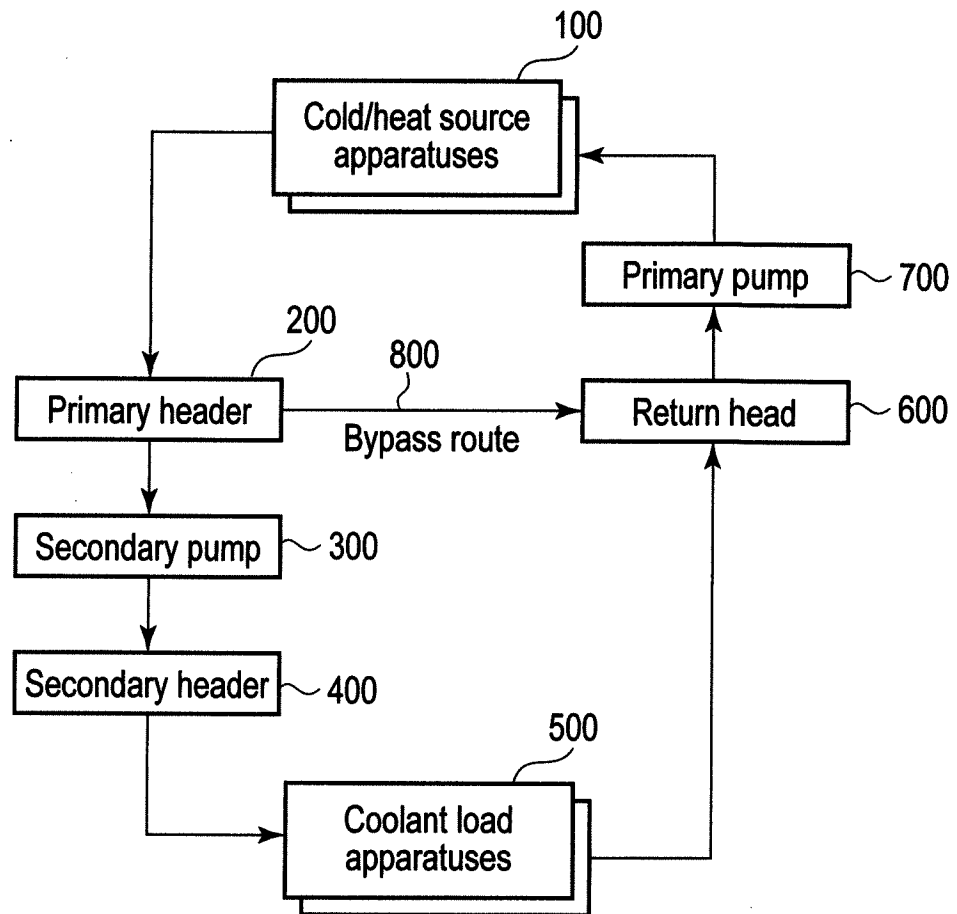


FIG. 1

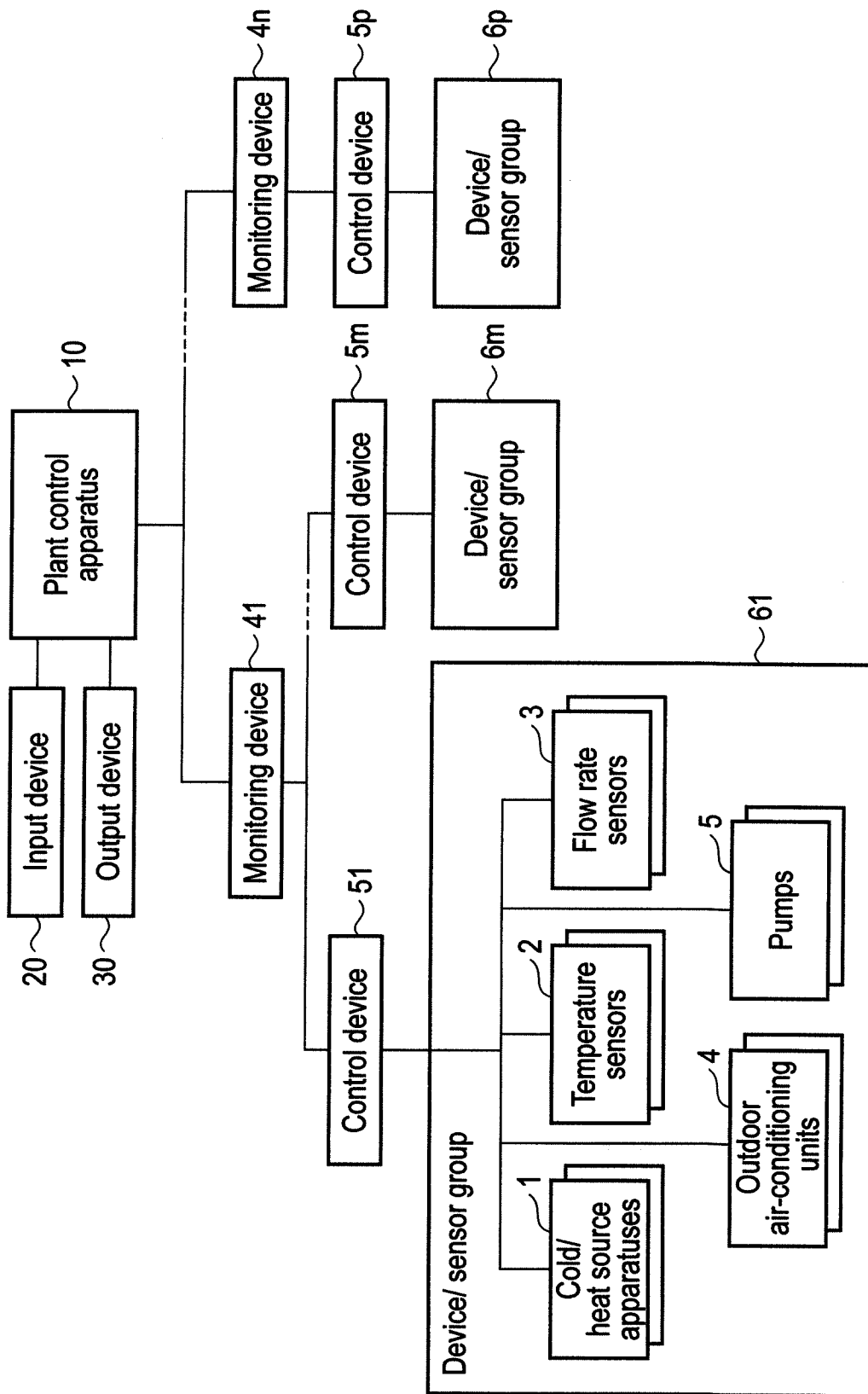


FIG. 2

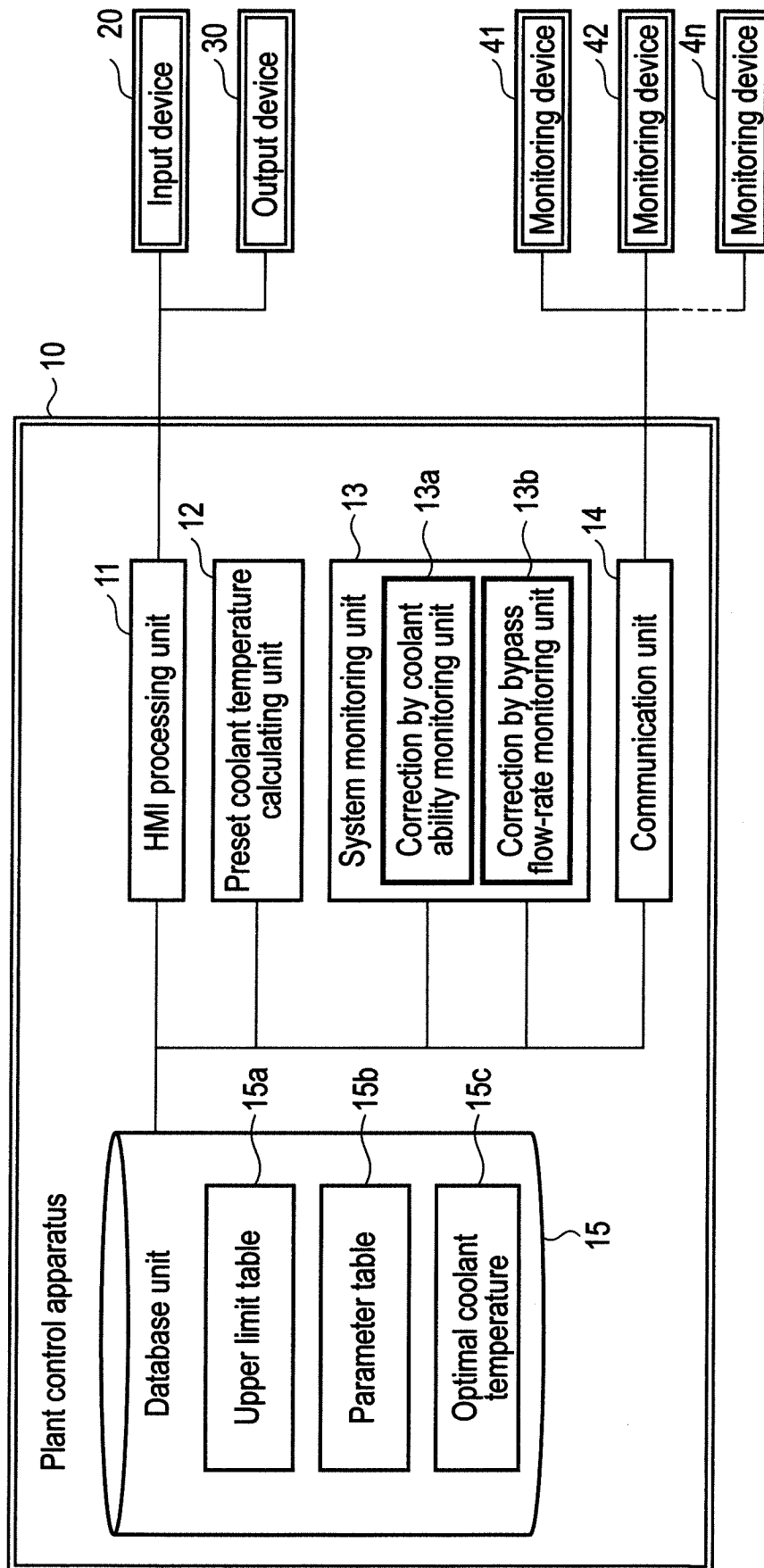


FIG. 3

FIG. 4

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Abnormality occurring

> Heat source operating > State of heat source > Displaying of parameters

Monitoring function parameters

■ Execution intervals

Monitoring cycle seconds

■ Function of correcting air supply dew point at outdoor air-conditioning unit

Execute	Cold water temperature corrected	Threshold value
Correction of air supply dew point at outdoor air-conditioning unit	ON OFF	°C
Lower	°C/Hr	°C/Hr
Raise	°C/Hr	°C/Hr

■ Function of correcting bypass flow rate

Set	Cold water temperature corrected
Correct bypass flow rate	ON OFF °C
Lower the lower limit	kg/s
Raise the upper level	kg/s
Threshold value	°C/Hr
Change in cold water temperature	°C/Hr

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FIG. 5

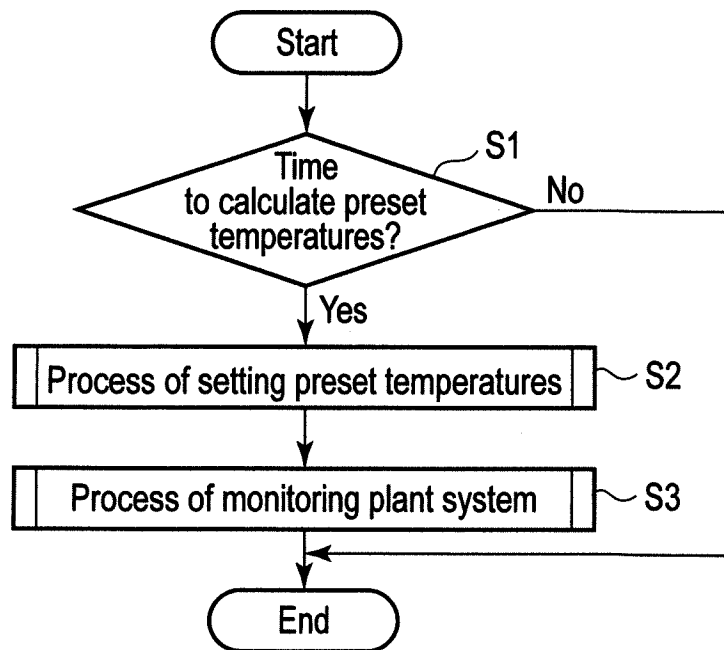


FIG. 6

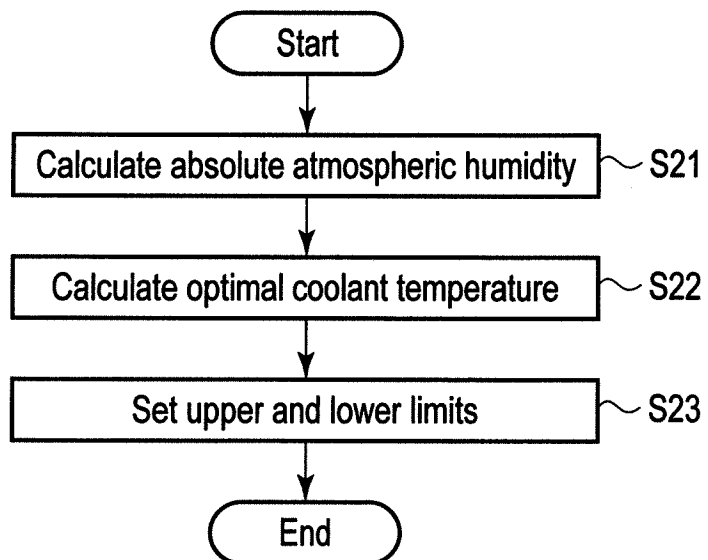


FIG. 7

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> Heat source operating > State of heat source > Displaying of parameters

Heat source operating > Cold-water temperature setting range

■ Setting at present

	1	2	3	4
Absolute atmospheric humidity(kg/kgDA)	0.0080	0.0100	0.0200	0.0350
Upper limit of cold water temperature(°C)	12.0	12.0	7.0	7.0
Lower limit of cold water temperature(°C)	6.0	6.0	6.0	6.0

■ Execution cycle

	※1	2	3	4	5	6	7	8	9	10
Absolute atmospheric humidity(kg/kgDA)	○									
Upper limit of cold water temperature(°C)										
Lower limit of cold water temperature(°C)										
+ Insert one column - Delete one column	⊙	○	○	○	○	○	○	○	○	○

Apply the value →

Absolute atmospheric humidity 0.0160 kg/kgDA

Dry bulb atmospheric temperature 25.6 °C

Relative atmospheric temperature 80.6 %

Calculation

Set

☐ Calculate again after setting

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FIG. 8

Item No.	1	2	3	4	5
Absolute atmospheric humidity (kg/kgDA)	0.0000	0.0100	0.0200	0.0350	0.0400
Upper limit of preset coolant temperature (°C)	12.0	12.0	7.0	7.0	7.0
Lower limit of preset coolant temperature (°C)	6.0	6.0	6.0	6.0	6.0

FIG. 9

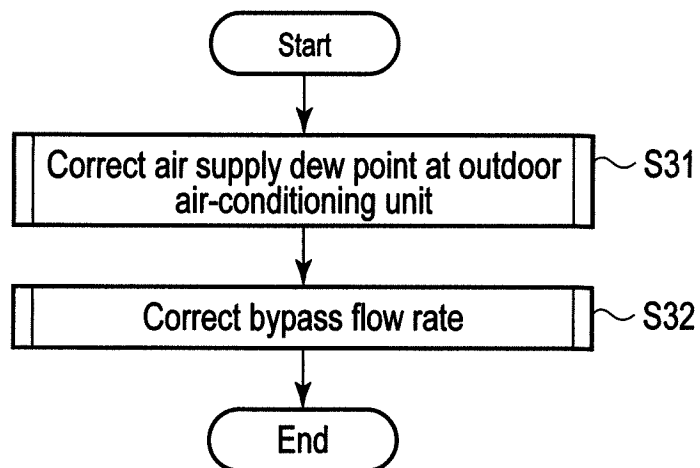


FIG. 10

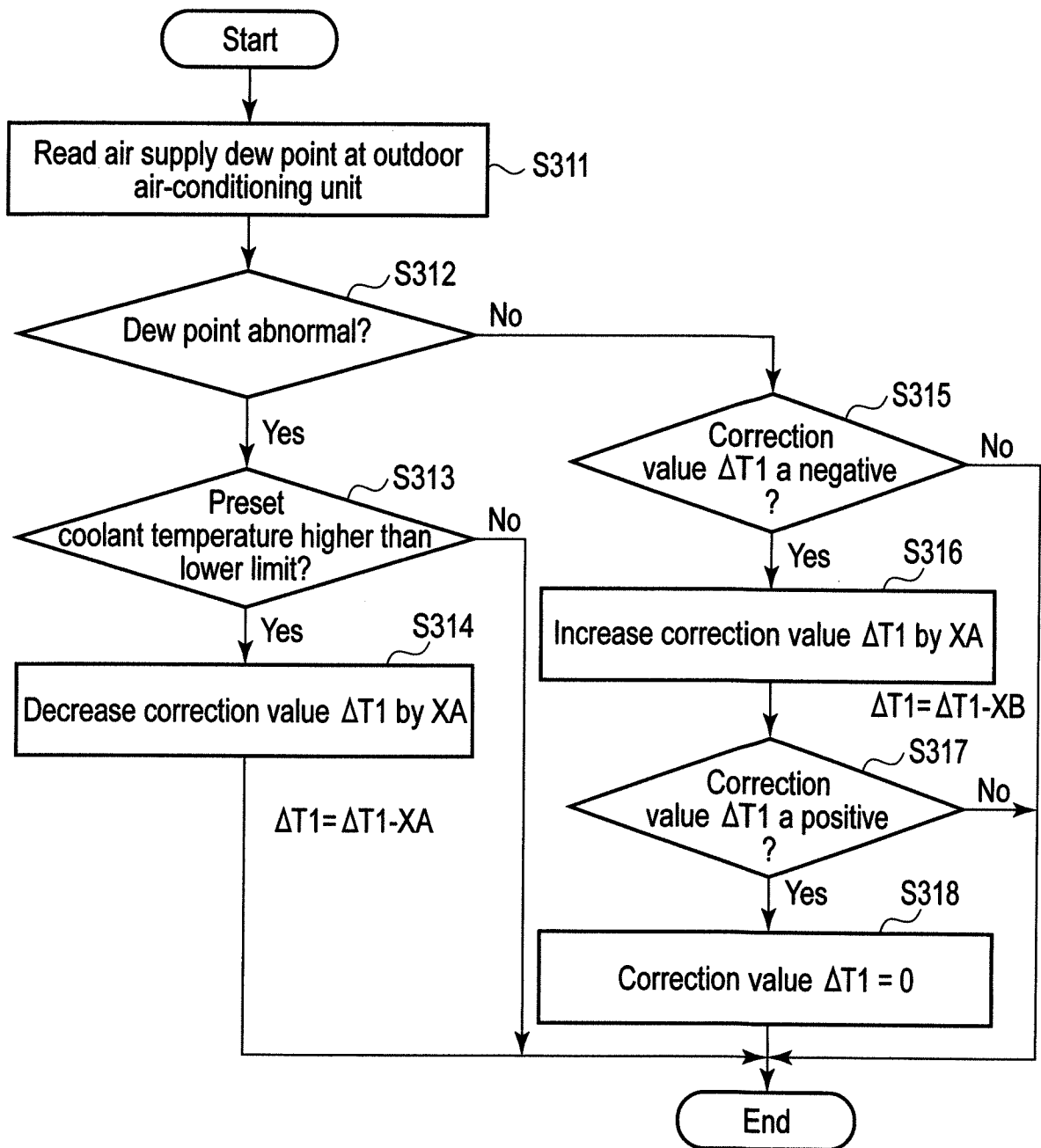


FIG. 11

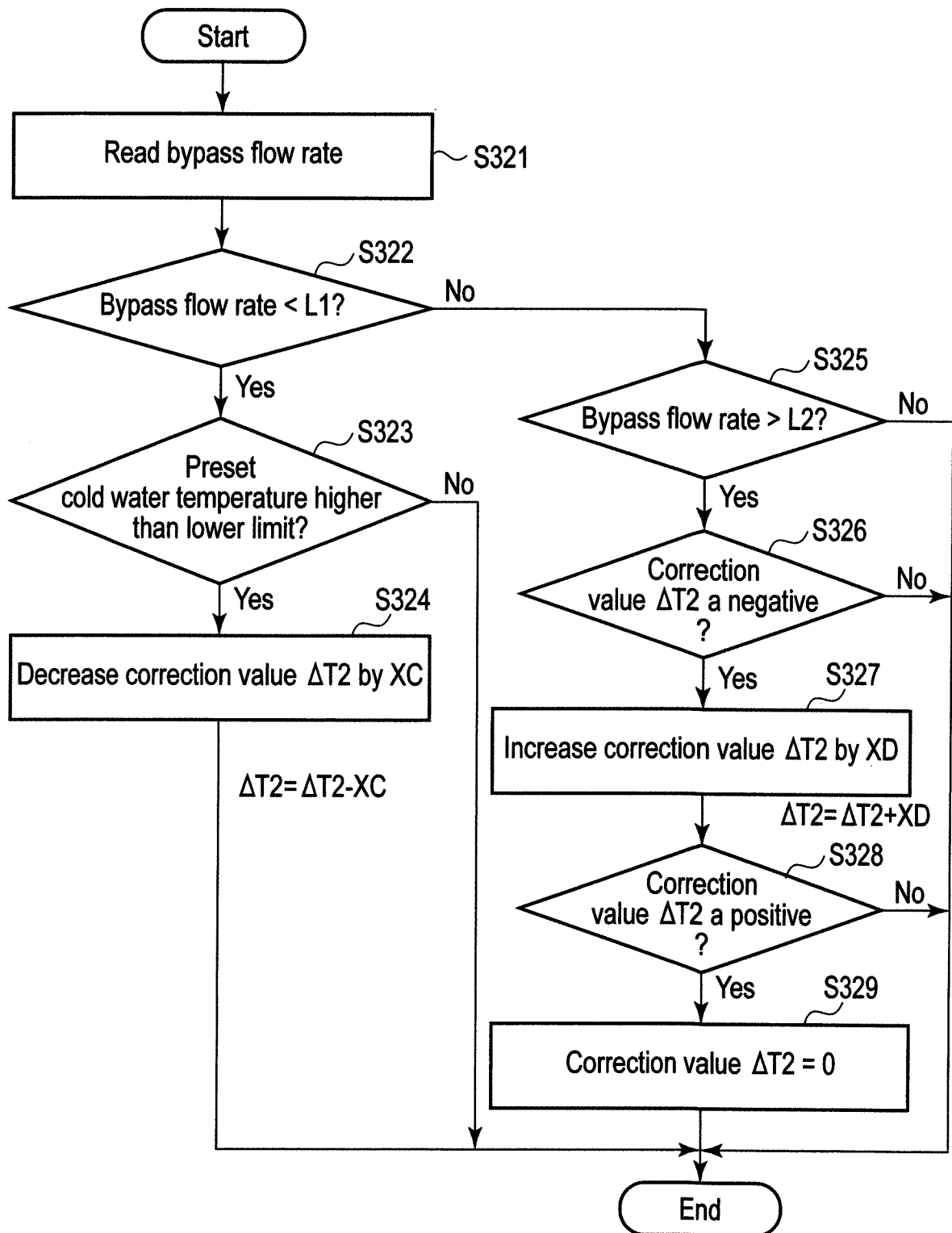


FIG. 12

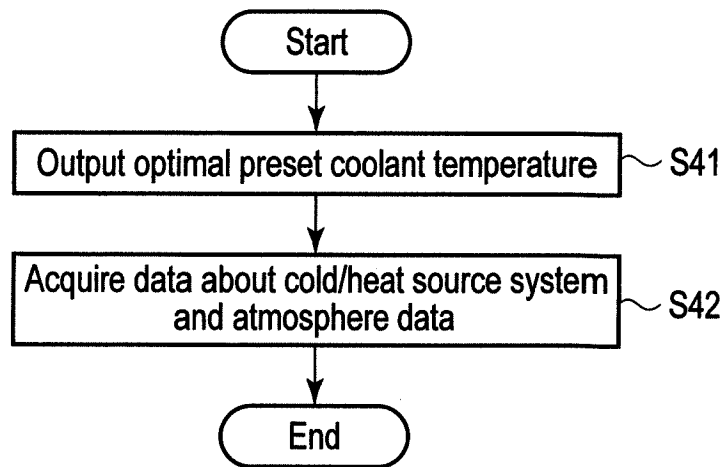


FIG. 13

Item	Content
Interval of calculating preset temp	10 min.
Limited preset coolant temp. change	3.0°C/h
Interval of calculating correction value	1 min.
Change value $\Delta T1$ each time by	0.017
Change value $\Delta T2$ each time by	0.017

FIG. 14

Time	Upper limit (°C)	Optimal preset coolant temperature (°C)	Preset temperature corrected (°C)	Correction by cooling capability monitoring unit 13a		Correction by bypass flow rate monitoring unit 13b	
				Presence/ absence of abnormality	Correction value $\Delta T1$	Presence/ absence of abnormality	Correction value $\Delta T2$
18:30	13	12.5	12.5	0	0	0	0
18:31	13	12.5	12.33	0	0	1	-0.17
18:32	13	12.5	12.16	0	0	1	-0.34
18:33	13	12.5	11.82	1	-0.17	1	-0.51
18:34	13	12.5	11.48	1	-0.34	1	-0.68
18:35	13	12.5	11.14	1	-0.51	1	-0.85
18:36	13	12.5	10.97	1	-0.68	0	-0.85
18:37	13	12.5	10.8	1	-0.85	0	-0.85
18:38	13	12.5	10.8	1	-1.02	2	-0.68
18:39	13	12.5	10.8	1	-1.19	2	-0.51
18:40	11.5	12	10.3	1	-1.36	2	-0.34
18:41	11.5	12	10.64	0	-1.19	2	-0.17
18:42	11.5	12	10.98	0	-1.02	2	0
18:43	11.5	12	11.15	0	-0.85	0	0
18:44	11.5	12	11.32	0	-0.68	0	0
18:45	11.5	12	11.49	0	-0.51	0	0
18:46	11.5	12	11.49	0	-0.34	1	-0.17
18:47	11.5	12	11.49	0	-0.17	1	-0.34
18:48	11.5	12	11.49	0	0	1	-0.51
18:49	11.5	12	11.49	0	0	0	-0.51
18:50	11.5	11.5	10.99	0	0	0	-0.51
18:51	11.5	11.5	10.99	0	0	0	-0.51
18:52	11.5	11.5	10.99	0	0	0	-0.51
18:53	11.5	11.5	10.82	0	0	1	-0.68
18:54	11.5	11.5	10.48	1	-0.17	1	-0.85

FIG. 15

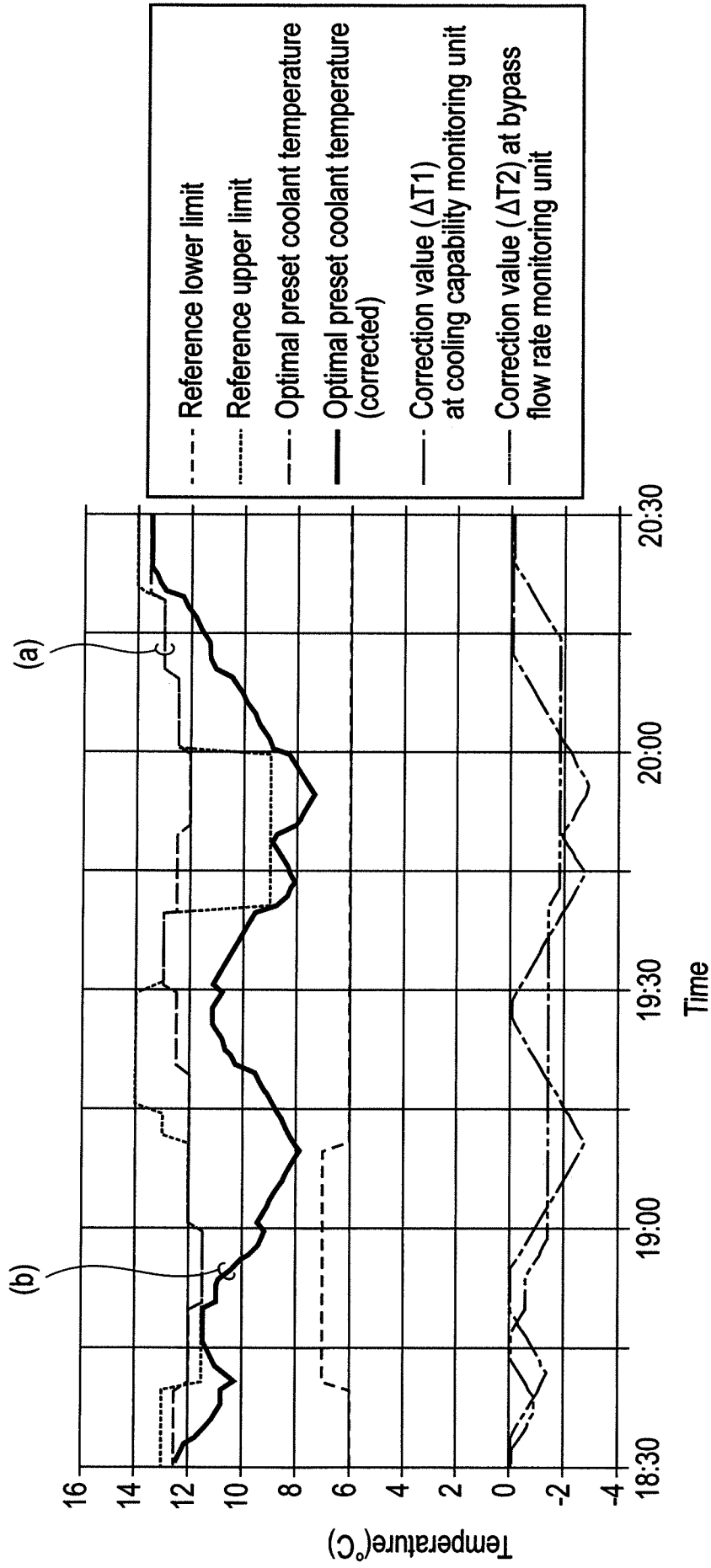


FIG. 16

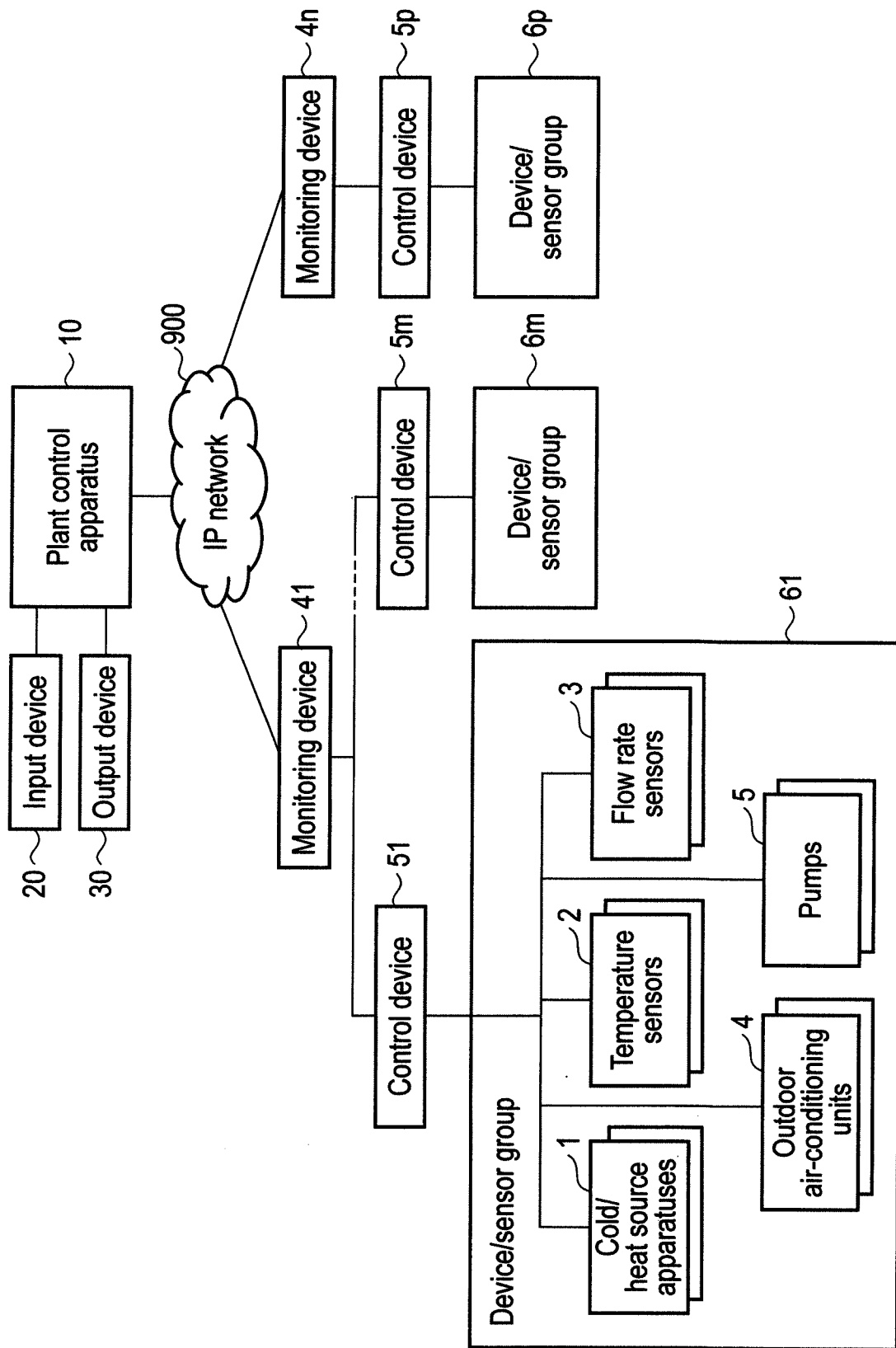


FIG. 17