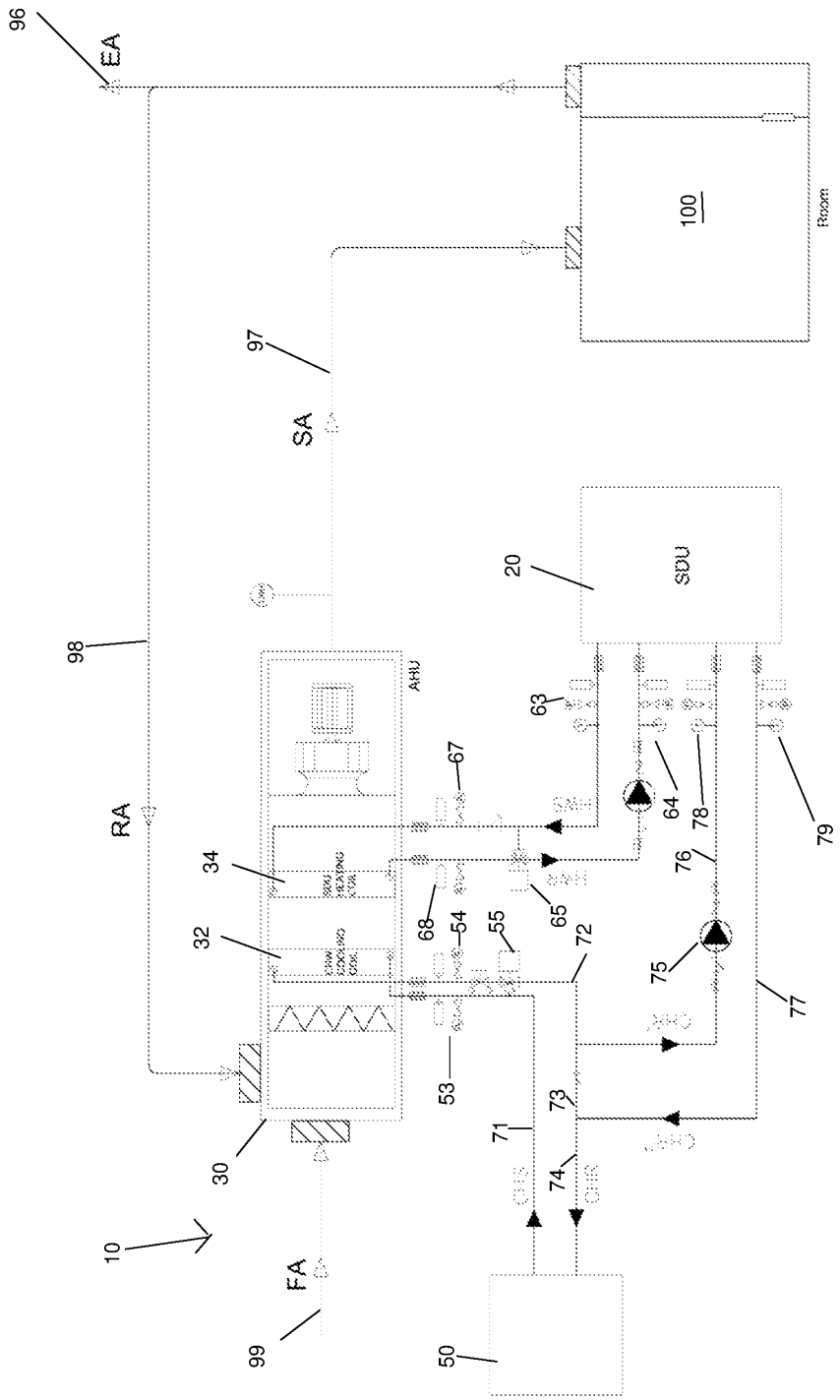

96
EA
100
Room
97
SA
20
SDU
98
AHU
63
67
RA
64
78
79
34
76
68
54
55
65
72
32
75
77
AHU
53
73
71
CHS
74
CHS
30
10
FA
99
50

FIG. 1

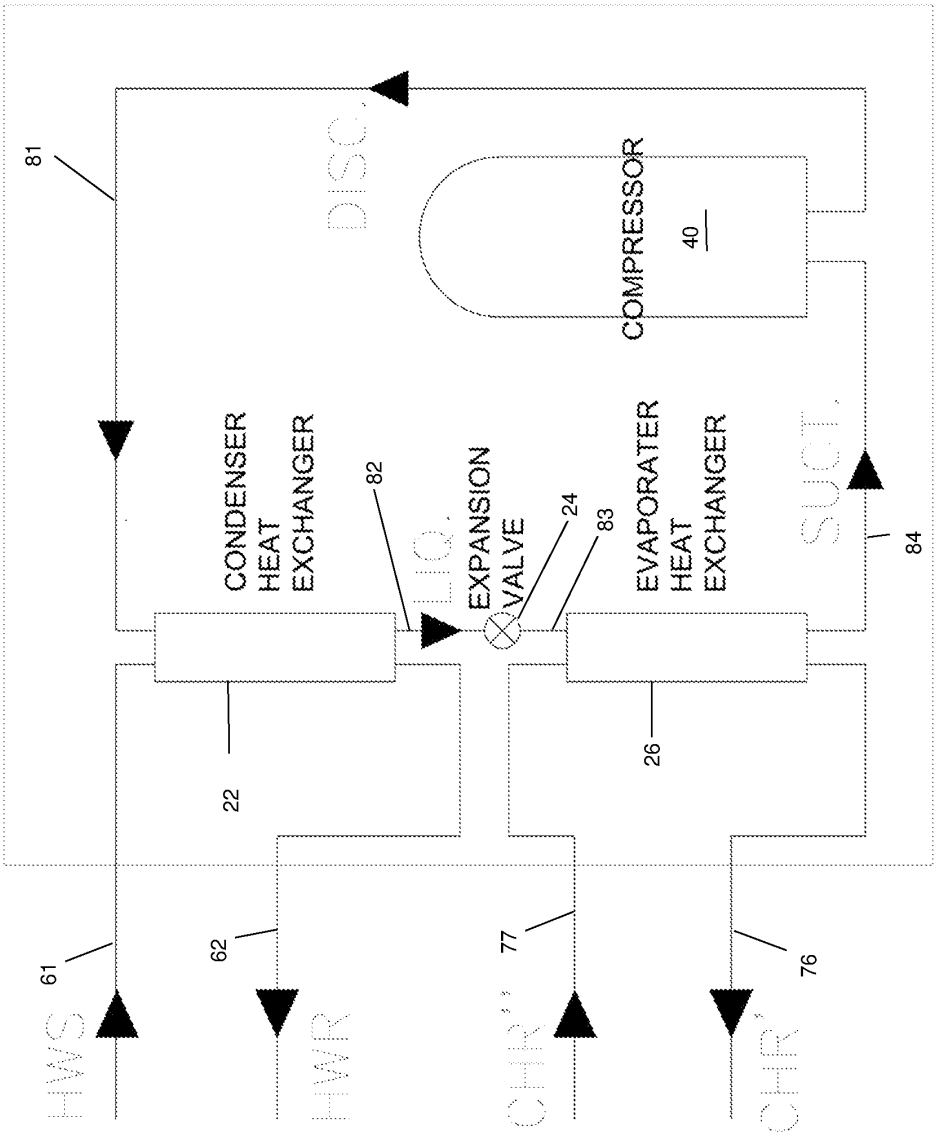

81
DISC.
COMPRESSOR
40
CONDENSER HEAT EXCHANGER
82
LIQ.
EXPANSION VALVE
24
83
EVAPORATER HEAT EXCHANGER
SUCT.
84
22
26
61
62
77
76
HWS
HWR
CHR'
CHR

FIG. 2

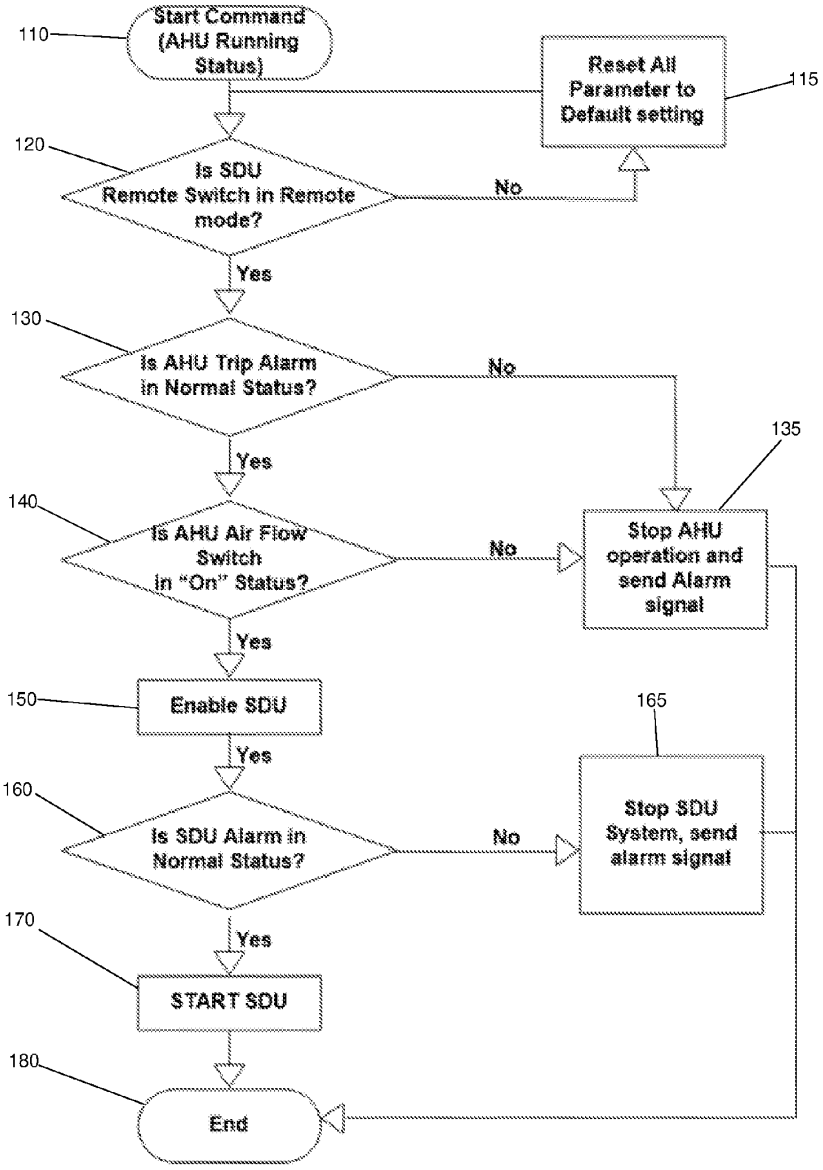

110
Start Command (AHU Running Status)
Reset All Parameter to Default setting
115
120
Is SDU Remote Switch in Remote mode?
No
Yes
130
Is AHU Trip Alarm in Normal Status?
No
Yes
135
140
Is AHU Air Flow Switch in "On" Status?
No
Stop AHU operation and send Alarm signal
Yes
150
Enable SDU
165
Yes
160
Is SDU Alarm in Normal Status?
No
Stop SDU System, send alarm signal
Yes
170
START SDU
180
End

FIG. 3

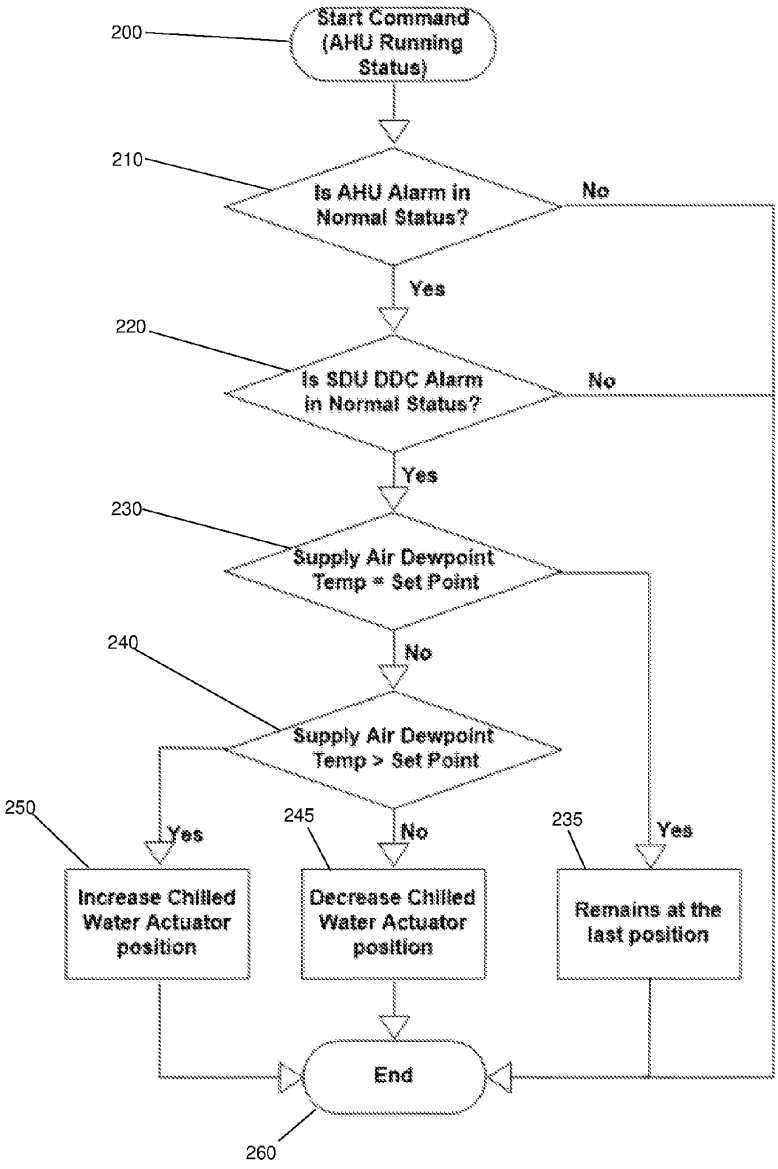

200
Start Command (AHU Running Status)
210
Is AHU Alarm in Normal Status?
No
Yes
220
Is SDU DDC Alarm in Normal Status?
No
Yes
230
Supply Air Dewpoint Temp = Set Point
No
240
Supply Air Dewpoint Temp > Set Point
250
Yes
245
No
235
Yes
Increase Chilled Water Actuator position
Decrease Chilled Water Actuator position
Remains at the last position
End
260

FIG. 4

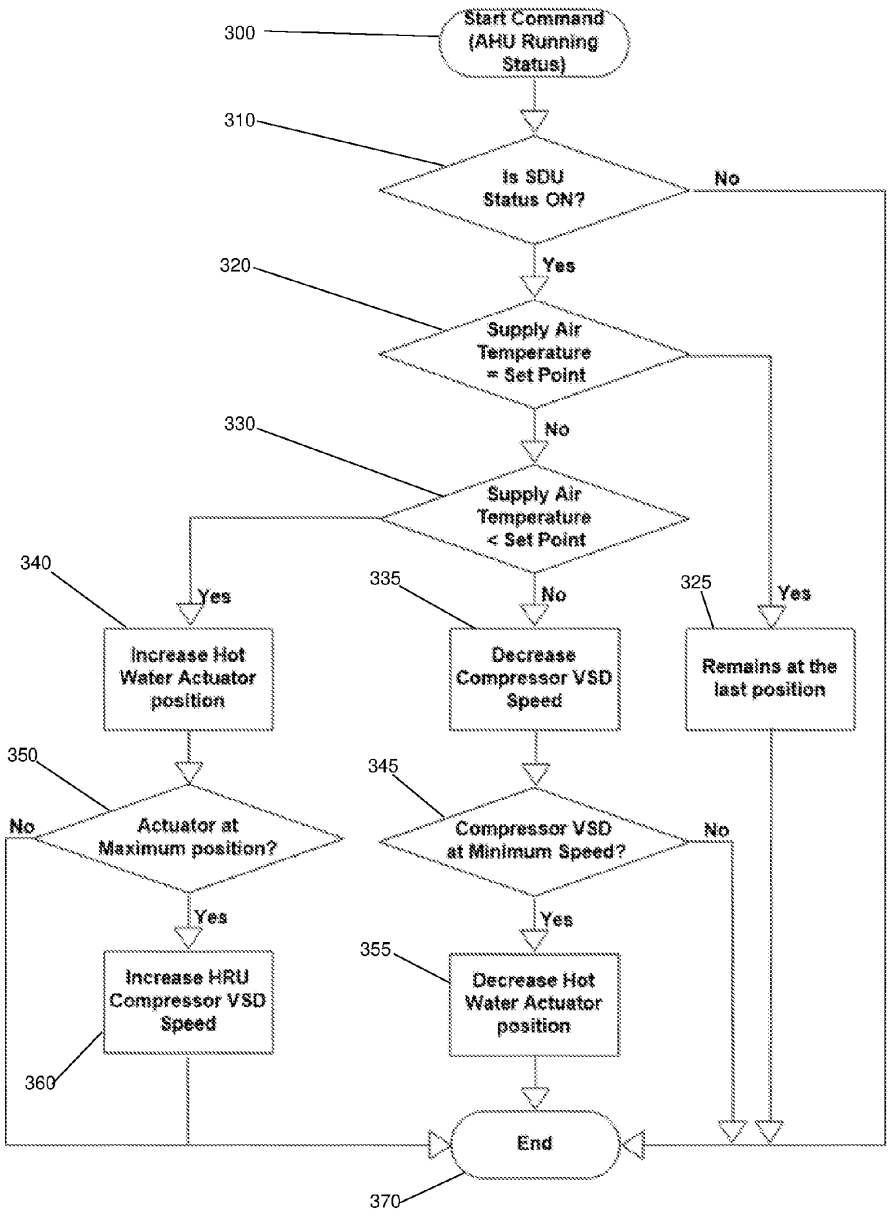

300
Start Command (AHU Running Status)
310
Is SDU Status ON?
No
Yes
320
Supply Air Temperature = Set Point
No
330
Supply Air Temperature < Set Point
340
Yes
Increase Hot Water Actuator position
335
No
Decrease Compressor VSD Speed
325
Yes
Remains at the last position
350
No
Actuator at Maximum position?
Yes
Increase HRU Compressor VSD Speed
360
345
Compressor VSD at Minimum Speed?
No
Yes
355
Decrease Hot Water Actuator position
End
370

FIG. 5

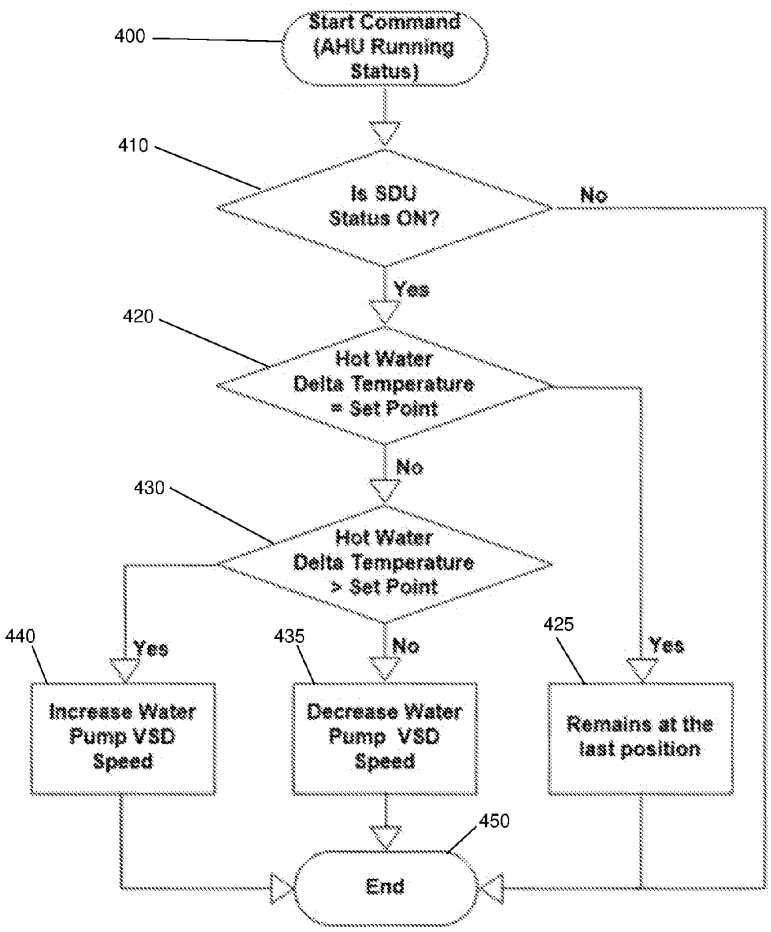

400
Start Command (AHU Running Status)
410
Is SDU Status ON?
No
Yes
420
Hot Water Delta Temperature = Set Point
No
430
Hot Water Delta Temperature > Set Point
440
Yes
435
No
425
Yes
Increase Water Pump VSD Speed
Decrease Water Pump VSD Speed
Remains at the last position
450
End

FIG. 6

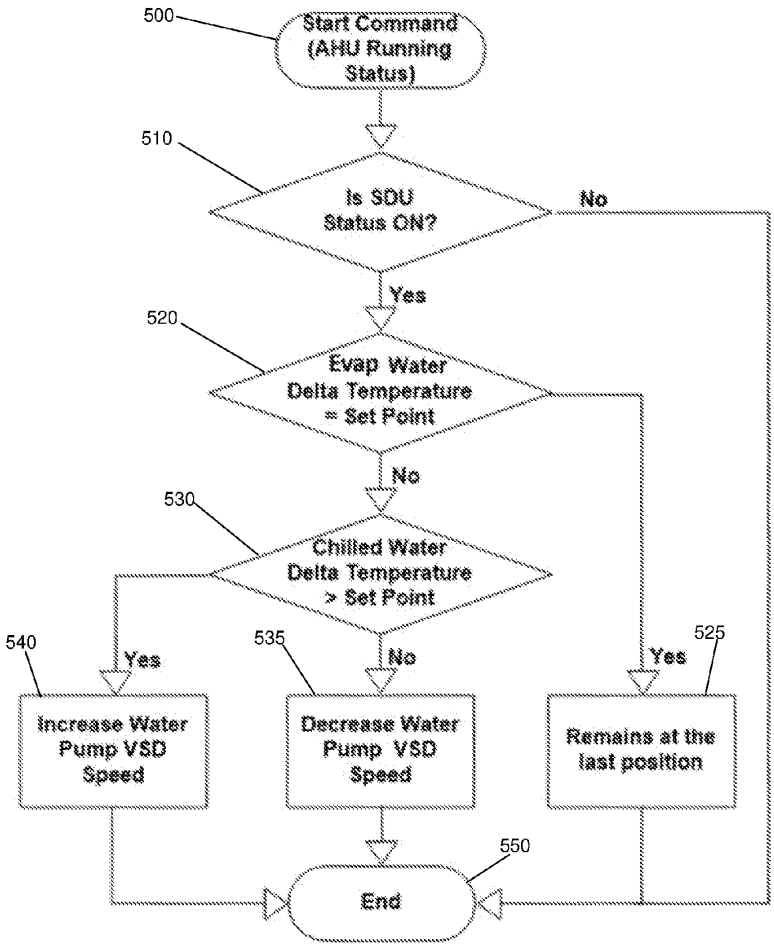

500
Start Command (AHU Running Status)
510
Is SDU Status ON?
No
Yes
520
Evap Water Delta Temperature = Set Point
No
530
Chilled Water Delta Temperature > Set Point
540
Yes
535
No
525
Yes
Increase Water Pump VSD Speed
Decrease Water Pump VSD Speed
Remains at the last position
550
End

FIG. 7