

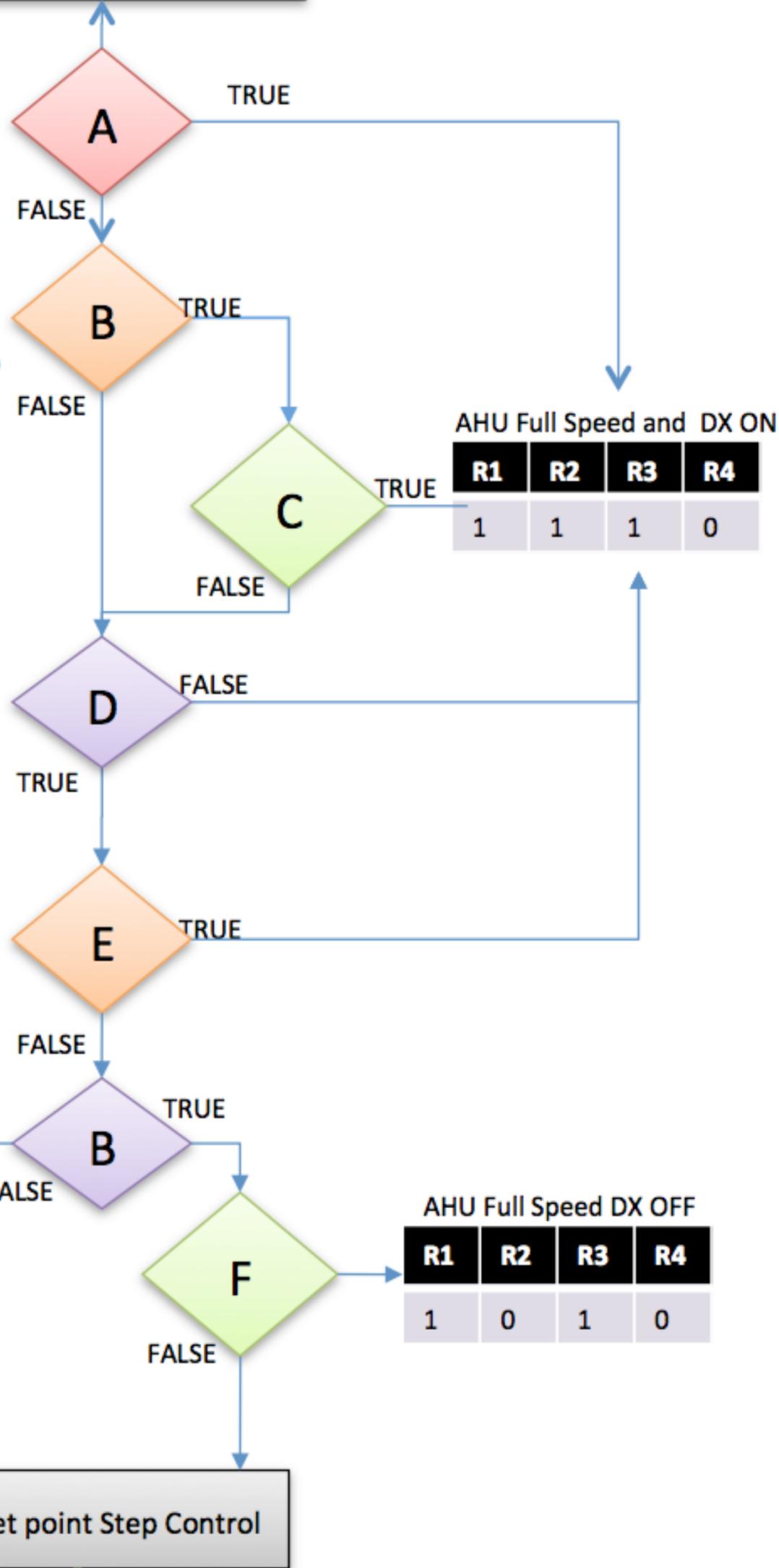
BT AHU Control Logic Strategy Table

AHU LEAD STAGE 1

AHU Control Logic

Logic Key:
A = AHU override activated
 B = Outside Air present
 C = Outside air (($<$ min outside air) or ($>$ max outside air))
 D = Valid reference temperature
 E = Is reference temperature $>$ max reference temperature set point
 F = Is reference temperature $>$ DX cooling set point and ((reference temperature – outside air temperature) \geq differential value))

Default AHU LEAD – Stage 1 Set Points:
 Min out side air = -15
 Max out side air = 27
 Max reference temperature ≥ 33
 Reference against outside air differential value ≥ 10
 AHU Shut Down < 15
 AHU Fan Low Speed ≥ 16
 AHU Full Speed ≥ 24
 AHU Lead DX cooling set point ≥ 29



AHU Full Speed and DX ON

R1	R2	R3	R4
1	1	1	0

AHU Full Speed DX OFF

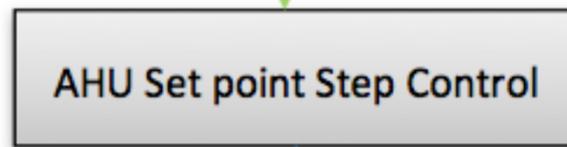
R1	R2	R3	R4
1	0	1	0

AHU Set point Step Control

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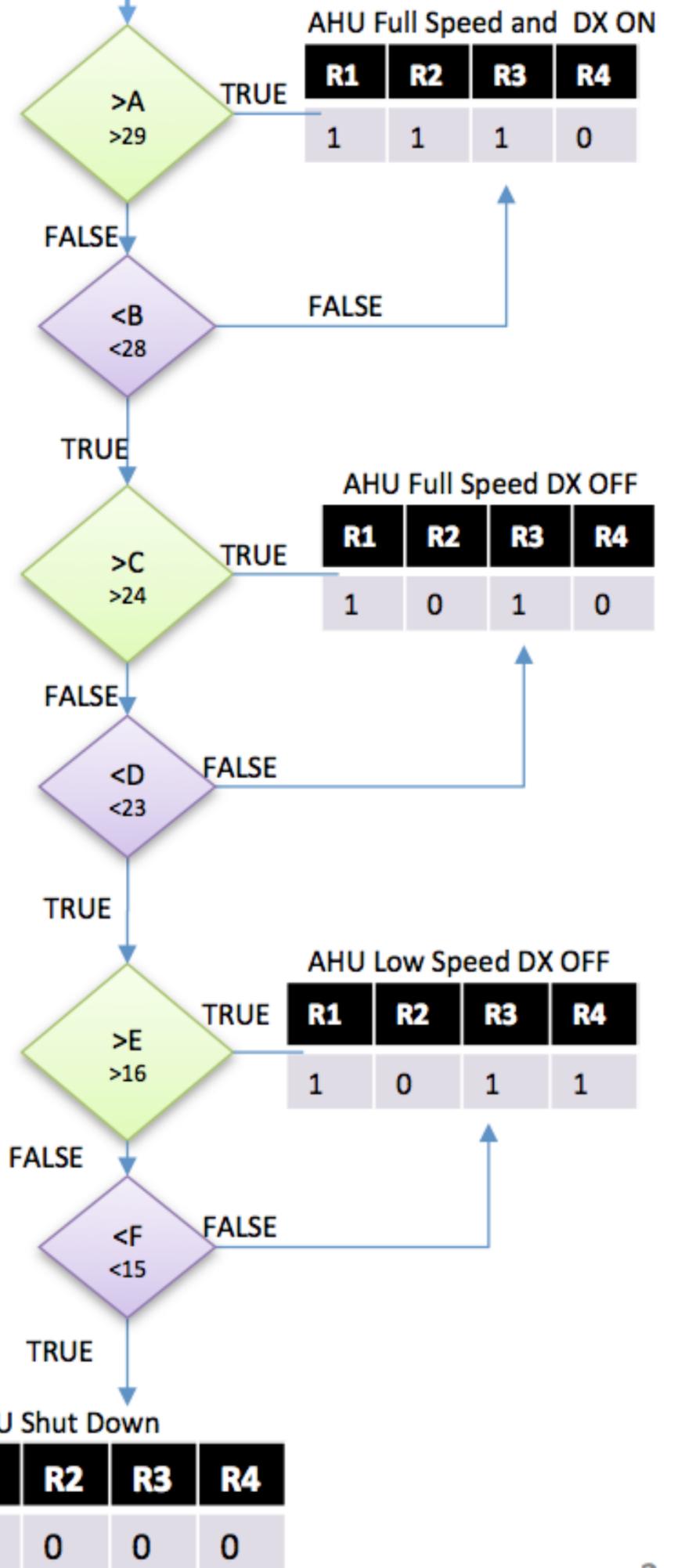
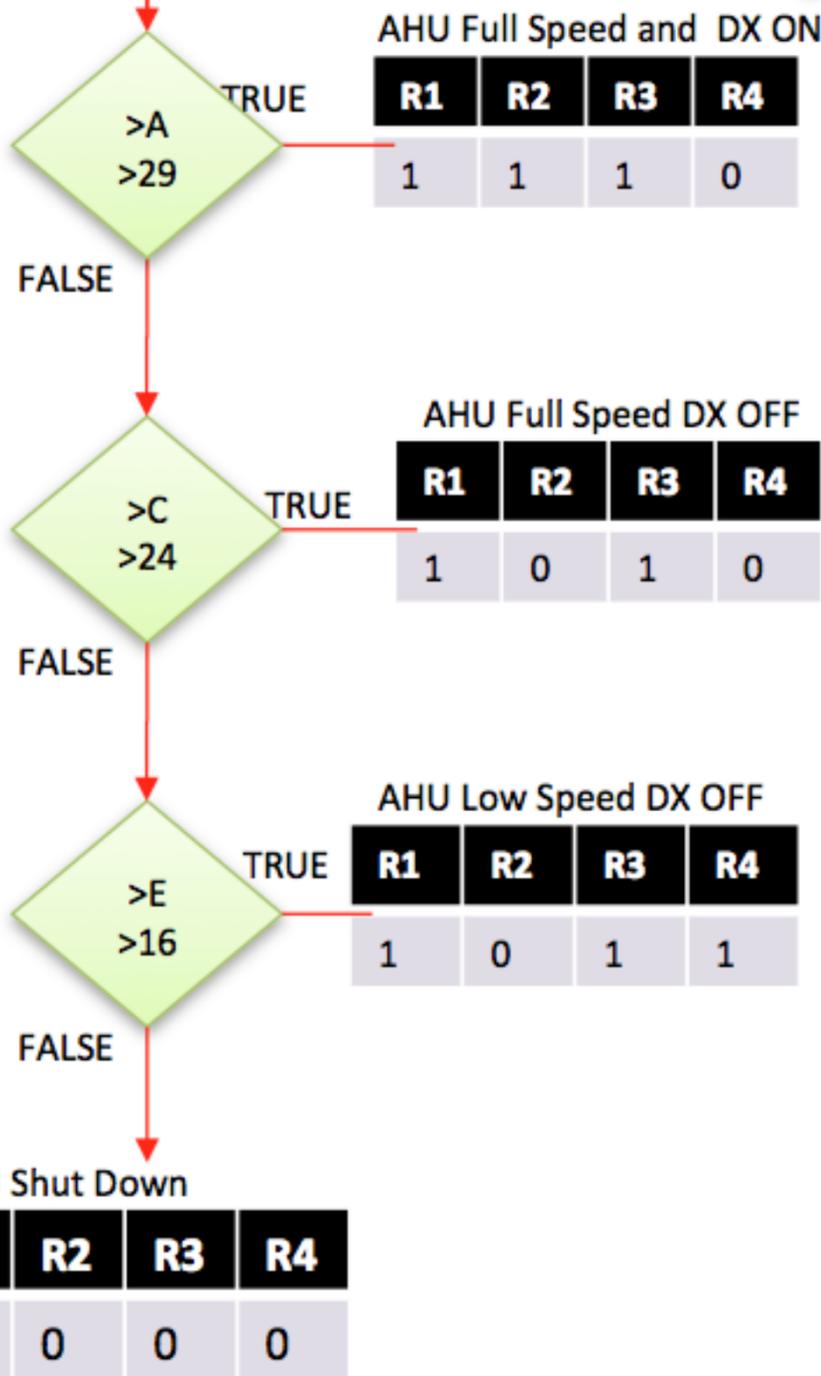
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AHU LEAD STAGE 1



Temperature Ascending

Temperature Descending



Logic Key:

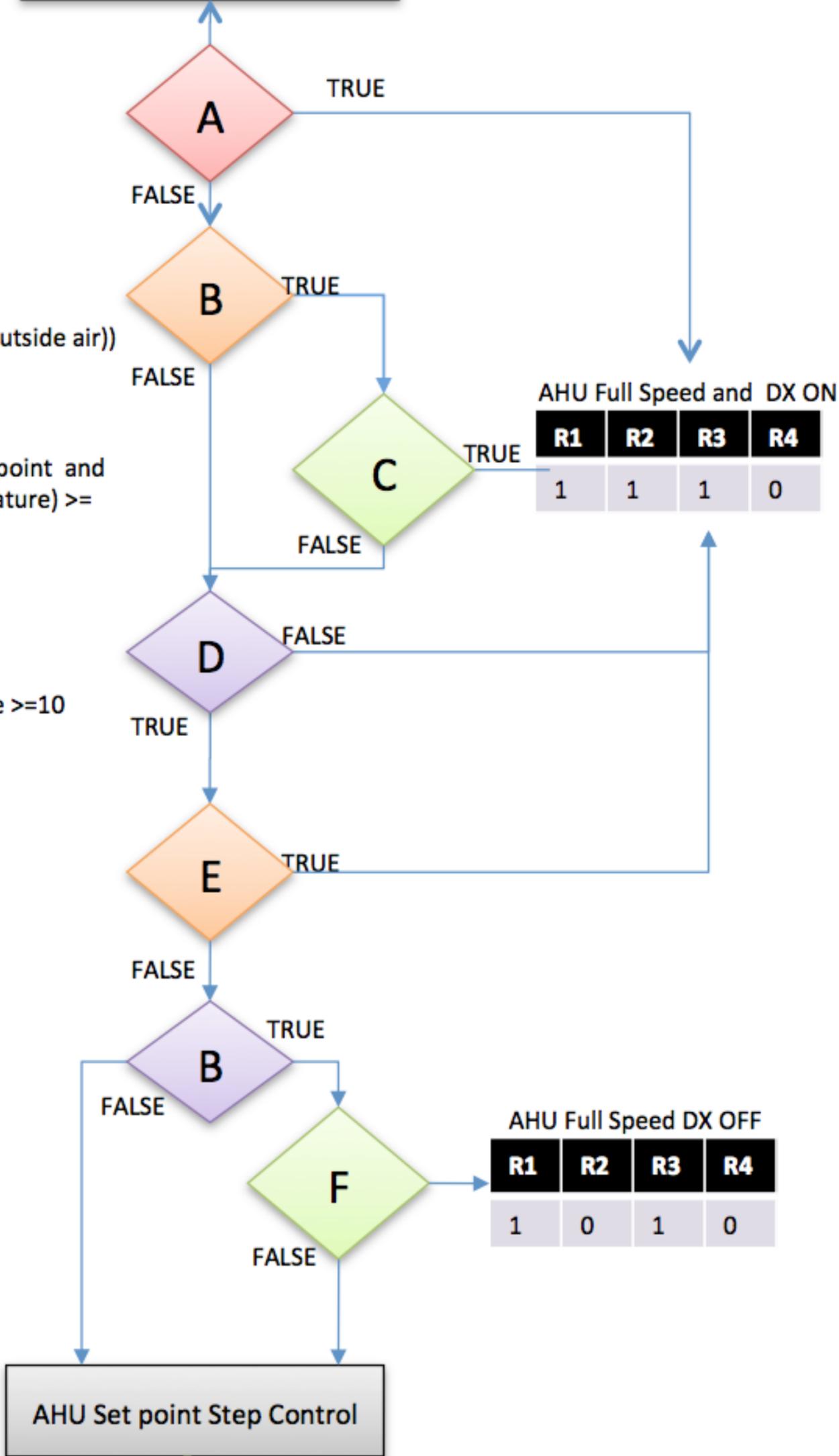
- A = DX Cooling Set Point
- B = (DX Cooling Set Point – Hysteresis 1)
- C = Fan Full Speed Set Point
- D = (Fan Full Speed Set Point – Hysteresis 1)
- E = Fan Low Speed Set Point
- F = (Fan Low Speed Set Point – Hysteresis 1)

BT AHU Control Logic Strategy Table

AHU STAGE 2

AHU Control Logic

Logic Key:
A = AHU override activated
 B = Outside Air present
 C = Outside air ($<$ min outside air) or ($>$ max outside air)
 D = Valid reference temperature
 E = Is reference temperature $>$ max reference temperature set point
 F = Is reference temperature $>$ DX cooling set point and $(($ reference temperature $-$ outside air temperature $) \geq$ differential value)
Default AHU Stage 1 Set Points:
 Min out side air = -15
 Max out side air = 28
 Max reference temperature ≥ 33
 Reference against outside air differential value ≥ 10
 AHU Shut Down < 21
 AHU Fan Low Speed ≥ 22
 AHU Full Speed ≥ 25
 AHU Lead DX cooling set point ≥ 30



AHU Full Speed and DX ON

R1	R2	R3	R4
1	1	1	0

AHU Full Speed DX OFF

R1	R2	R3	R4
1	0	1	0

AHU Set point Step Control

Continue on page two

Continue from page one

AHU STAGE 2

AHU Set point Step Control

