



Form: VCC-X-ConfigSetpoints-1C-HF.PDF
Date: 05-17-17

VCC-X Setup Sheet

Configuration Screen #1

VCC-X Cnfg ID 101
Sensor Scaling
Fahrenheit
Use < Or > To Change

- ☐ Fahrenheit
☐ Celsius

Check one of the boxes above. Default is "Fahrenheit".

Configuration Screen #2

VCC-X Cnfg ID 101
RSM#1 Installed: NO
RSM#2 Installed: NO
Use < Or > To Change

- | | |
|------------------------------|------------------------------|
| RSM#1 | RSM#2 |
| <input type="checkbox"/> NO | <input type="checkbox"/> NO |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes above.
Default is "NO".

Configuration Screen #3

VCC-X Cnfg ID 101
RSM#3 Installed: NO
RSM#4 Installed: NO
Use < Or > To Change

- | | |
|------------------------------|------------------------------|
| RSM#3 | RSM#4 |
| <input type="checkbox"/> NO | <input type="checkbox"/> NO |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes for each category above. Default is "NO".

Configuration Screen #4

VCC-X Cnfg ID 101
RSM Type:
VFD
Use < Or > To Change

- ☐ VFD
☐ DIGITAL

Check one of the boxes above. Default is "VFD".

Configuration Screen #5

VCC-X Cnfg ID 101
EM1 Installed: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #6

VCC-X Cnfg ID 101
MHGRV Installed: NO
MODGAS Installed: NO
Use < Or > To Change

- | | |
|------------------------------|------------------------------|
| MHGRV | MODGAS |
| <input type="checkbox"/> NO | <input type="checkbox"/> NO |
| <input type="checkbox"/> YES | <input type="checkbox"/> YES |

Check one of the boxes for each category above. Default is "NO".

Configuration Screen #7

VCC-X Cnfg ID 101
12RLY Install: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #8

VCC-X Cnfg ID 101
Preheat-X
Installed: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #9

VCC-X Cnfg ID 101
HVAC Source
Supply Air
Use < Or > To Change

- ☐ Supply Air
☐ Supply Air/Tempering
☐ Outdoor Air
☐ Supply Air
☐ Return Air
☐ Space Temperature
☐ Space Temperature with High OA CFM
☐ Single Zone VAV

Check one of the boxes above. Default is "Supply Air".

Configuration Screen #10

VCC-X Cnfg ID 101
HVAC Mode Set By
Remote Contact: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #11

VCC-X Cnfg ID 101
SAT Reset Source
No Reset
Use < Or > To Change

- ☐ No Reset
☐ Space Temperature
☐ Outdoor Temperature
☐ Return Air Temperature
☐ Fan VFD Signal
☐ Remote Voltage Signal

Check one of the boxes above. Default is "No Reset".

Configuration Screen #12

VCC-X Cnfg ID 101
Reset Interval
Rate: 30 s
[1 - 255 Seconds]

Enter 1 to 255 seconds above. Default is "30 Seconds".

Configuration Screen #13

VCC-X Cnfg ID 101
Space Sensor Type
None
Use < Or > To Change

- ☐ None
☐ Analog
☐ E-BUS Space/ RH
☐ Receive Broadcast
☐ Remote Sensor

Check one of the boxes above. Default is "None".

Configuration Screen #14

VCC-X Cnfg ID 101
Remote Space Sensor
Board Address: 0

Enter the address. Default is "0".

Configuration Screen #15

VCC-X Cnfg ID 101
Outdoor Sensor Type
None
Use < Or > To Change

- ☐ None
☐ Analog
☐ E-BUS OAT/ RH
☐ Receive Broadcast

Check one of the boxes above. Default is "None".

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Configuration Screen #16

VCC-X Cnfg ID 101
Return Sensor Type
NONE
Use < Or > To Change

- ☐ None
- ☐ Analog
- ☐ E-BUS Return/RH

Check one of the boxes above. Default is "NONE".

Configuration Screen #17

VCC-X Cnfg ID 101
Static Pr Control
Fan VFD
Use < Or > To Change

- ☐ None
- ☐ Fan VFD
- ☐ Bypass Damper

Check one of the boxes above. Default is "Fan VFD".

Configuration Screen #18

VCC-X Cnfg ID 101
Static/Fan Control
Rate: 10 s
[1 – 30 Seconds]

Enter 1 to 30 seconds above. Default is "10 seconds".

Configuration Screen #19

VCC-X Cnfg ID 101
Static Pr. Control
Max Adjust: 5%
[1 – 30%]

Enter 1 to 30 percent above. Default is "5 percent".

Configuration Screen #20

VCC-X Cnfg ID 101
Fan Voltage Output
Min Volts: 0.0 VDC
Max Volts: 10.0 VDC

In the first box, enter 0 to 10. Default is "0 Volts". In the second box, enter 0 to 10. Default is "10 Volts."

Configuration Screen #21

VCC-X Cnfg ID 101
Fan Cycle Mode
NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #22

VCC-X Cnfg ID 101
Fan Proving
NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #23

VCC-X Cnfg ID 101
Fan Starting
Delay: -1 s
[-1 = Unit Addr x 5]

Enter -1 to 240 seconds above. Default is "-1 seconds". -1 = multiply controller address by 5 seconds.

Configuration Screen #24

VCC-X Cnfg ID 101
Purge Mode
Delay: 10 s
[0 – 900 Seconds]

Enter 0 to 900 seconds above. Default is "10 seconds".

Configuration Screen #25

VCC-X Cnfg ID 101
Heat Type
No Heat
Use < Or > To Change

- ☐ No Heat
- ☐ Staged Only
- ☐ Mod Heat Only
- ☐ Modgas-x Then Staged
- ☐ Mod Heat Then Staged

Check one of the boxes above. Default is "No Heat".

Configuration Screen #26

VCC-X Cnfg ID 101
Mod Heat Volt Output
Min Pos Volts: 0.0
Max Pos Volts: 10.0

In the first box, enter 0 to 10. Default is "0 Volts". In the second box, enter 0 to 10. Default is "10 Volts."

Configuration Screen #27

VCC-X Cnfg ID 101
Cool Type
Refrigeration Module
Use < Or > To Change

- ☐ Refrigeration Module
- ☐ Staged Only
- ☐ Mod Only

Check one of the boxes above. Default is "Refrigeration Module".

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Configuration Screen #28

VCC-X Cnfg ID 101
Mech Heat/Cool
Alarm Delay: 15 Min

Enter 0 to 240 minutes above. Default is "15 Minutes".

Configuration Screen #29

VCC-X Cnfg ID 101
Econo Control Type
No Economizer
Use < Or > To Change

- ☐ No Economizer
☐ Standard Economizer
☐ IAQ Economizer (Economizer with CO₂ Override)

Check one of the boxes above. Default is "No Economizer".

Configuration Screen #30

VCC-X Cnfg ID 101
Title 24
Economizer: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #31

VCC-X Cnfg ID 101
Econo Control In
Unoc Mode: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #32

VCC-X Cnfg ID 101
Econo Enable Source
Drybulb
Use < Or > To Change

- ☐ Drybulb
☐ Wetbulb (OA RH Sensor needed)
☐ Dewpoint (OA RH Sensor needed)

Check one of the boxes above. Default is "Drybulb".

Configuration Screen #33

VCC-X Cnfg ID 101
Economizer Control
Rate: 10 s
Prop Window: 10°F

In the first box, enter 1 to 30. Default is "10 seconds". In the second box, enter 0 to 100. Default is "10 degrees F."

Configuration Screen #34

VCC-X Cnfg ID 101
Econo Voltage Output
Min Volts: 2.0 VDC
Min Volts: 10.0 VDC

In the first box, enter 0 to 10. Default is "2 VDC". In the second box, enter 0 to 10. Default is "10 VDC."

Configuration Screen #35

VCC-X Cnfg ID 101
CO2 Sensor Installed
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #36

VCC-X Cnfg ID 101
Building Pr. Installed
None
Use < Or > To Change

- ☐ None
☐ Analog
☐ Receive Broadcast

Check one of the boxes above. Default is "None".

Configuration Screen #37

VCC-X Cnfg ID 101
Building Pr. Control
None
Use < Or > To Change

- ☐ None
☐ On/Off Exhaust Relay
☐ Modulating Exhaust
☐ Outdoor Air Damper
☐ Supply Fan

Check one of the boxes above. Default is "None".

Configuration Screen #38

VCC-X Cnfg ID 101
Building Pr. Control
Rate: 10 Sec
[1 – 30 Seconds]

Enter 1 to 30 seconds. Default is "10 seconds".

Configuration Screen #39

VCC-X Cnfg ID 101
Building Pr. Control
Max Adjust: 5%
[1 – 30%]

Enter 1 to 30. Default is "5 percent".

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Configuration Screen #40

VCC-X Cnfg ID 101
Exh Fan Volts
Min Volts: 0.0 VDC
Max Volts: 10.0 VDC

In the first box, enter 0 to 10. Default is "0 VDC". In the second box, enter 0 to 10. Default is "10 VDC."

Configuration Screen #41

VCC-X Cnfg ID 101
Heat Pump Config
No Heat Pump
Use < Or > To Change

- ☐ No Heat Pump
- ☐ Air/Air Fail to Heat
- ☐ Air/Air Fail to Cool
- ☐ WSHP Fail to Heat
- ☐ WSHP Fail to Cool

Check one of the boxes above. Default is "No Heat Pump".

Configuration Screen #42

VCC-X Cnfg ID 101
WSHP Glycol
Percentage: 0%
Use < Or > To Change

Enter 0-40 in increments of 5. Default is "0%".

Configuration Screen #43

VCC-X Cnfg ID 101
Aux Heat Type
No Aux Heat
Use < Or > To Change

- ☐ No Aux Heat
- ☐ Staged Only
- ☐ Mod Heat Only
- ☐ Modgas-x Then Staged
- ☐ Mod Heat Then Staged

Check one of the boxes above. Default is "No Aux Heat".

Configuration Screen #44

VCC-X Cnfg ID 101
Dehum. Control
None
Use < Or > To Change

- ☐ None
- ☐ Only Occupied Vent
- ☐ Only Vent Anytime
- ☐ All Modes Occupied
- ☐ All Modes Anytime

Check one of the boxes above. Default is "None".

Configuration Screen #45

VCC-X Cnfg ID 101
Humidity Control
Sensor: Space
Use < Or > To Change

- ☐ Space
- ☐ Return
- ☐ Outdoor E-BUS

Check one of the boxes above. Default is "Space".

Configuration Screen #46

VCC-X Cnfg ID 101
Reheat Control
None
Use < Or > To Change

- ☐ None
- ☐ On/Off HGR Relay
- ☐ Modulating HGR
- ☐ Unit Heat
- ☐ Mod HGR + Unit Heat
- ☐ On/Off HGR + Unit Heat

Check one of the boxes above. Default is "None".

Configuration Screen #47

VCC-X Cnfg ID 101
Airflow
Station: Paragon
Use < Or > To Change

- ☐ Paragon
- ☐ Ebtron

Check one of the boxes above. Default is "Paragon".

Configuration Screen #48

VCC-X Cnfg ID 101
Monitor OA Airflow
NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #49

VCC-X Cnfg ID 101
Control Outdoor Air
CFM: NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #50

VCC-X Cnfg ID 101
Outdoor Airflow Duct
Size: 0.00
[In Square Feet]

Enter the inside area in square feet of the outdoor air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

Configuration Screen #51

VCC-X Cnfg ID 101
Monitor SA Airflow
NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #52

VCC-X Cnfg ID 101
Supply Airflow Duct
Size: 0.00
[In Square Feet]

Enter the inside area in square feet of the supply air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

Configuration Screen #53

VCC-X Cnfg ID 101
Monitor RA Airflow
NO
Use < Or > To Change

- ☐ NO
- ☐ YES

Check one of the boxes above. Default is "NO".

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Configuration Screen #54

VCC-X Cnfg ID 101
Return Airflow Duct
Size: 0.00
[In Square Feet]

Enter the inside area in square feet of the return air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

Configuration Screen #55

VCC-X Cnfg ID 101
Monitor Exh Airflow
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #56

VCC-X Cnfg ID 101
Exhaust Airflow Duct
Size: 0.00
[In Square Feet]

Enter the inside area in square feet of the exhaust air duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

Configuration Screen #57

VCC-X Cnfg ID 101
Morning Warm Up
None
Use < Or > To Change

- ☐ None
☐ Stand-Alone
☐ Broadcast Fixed to Boxes
☐ Broadcast Max to Boxes

Check one of the boxes above. Default is "None".

Configuration Screen #58

VCC-X Cnfg ID 101
AHU Uses Schedule
Number: 0
['0' For Internal]

Enter 0-8. Default is "0".

Configuration Screen #59

VCC-X Cnfg ID 101
Daylight Adjustment
Start Date: 0000
Stop Date: 0000

In the first box, enter 0 to 1231. Default is "0". In the second box, enter 0 to 1231. Default is "0".

Configuration Screen #60

VCC-X Cnfg ID 101
Trend Log
Rate: 15 Min
[1 – 120 Minutes]

Enter 1 to 120 minutes. Default is "15 minutes".

Configuration Screen #61

VCC-X Cnfg ID 101
Emergency Shutdown
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #62

VCC-X Cnfg ID 101
Dirty Filter
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #63

VCC-X Cnfg ID 101
Broadcast OA Temp
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #64

VCC-X Cnfg ID 101
Broadcast OA RH
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #65

VCC-X Cnfg ID 101
Broadcast SPC Temp
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #66

VCC-X Cnfg ID 101
Broadcast SPC RH
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #67

VCC-X Cnfg ID 101
Broadcast CO2
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #68

VCC-X Cnfg ID 101
Broadcast Build. Pr.
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

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Configuration Screen #69

VCC-X Cnfg ID 101
Broadcast to Boxes
NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #70

VCC-X Cnfg ID 101
Cool Stage Delays
Stage Up: 3 Min
Stage Down: 1 Min

In the first box above enter a value from 3 to 15. The default value is "3".

In the second box above enter a value from 1 to 15. The default value is "1".

Configuration Screen #71

VCC-X Cnfg ID 101
Cool Stage Delays
Min Run: 5 Min
Min Off: 3 Min

In the first box above enter a value from 5 to 15. The default value is "5".

In the second box above enter a value from 3 to 15. The default value is "3".

Configuration Screen #72

VCC-X Cnfg ID 101
Heat Stage Delays
Stage Up: 3 Min
Stage Down: 1 Min

In the first box above enter a value from 3 to 15. The default value is "3".

In the second box above enter a value from 1 to 15. The default value is "1".

Configuration Screen #73

VCC-X Cnfg ID 101
Heat Stage Delays
Min Run: 5 Min
Min Off: 1 Min

In the first box above enter a value from 2 to 15. The default value is "5".

In the second box above enter a value from 1 to 15. The default value is "1".

Configuration Screen #74

VCC-X Cnfg ID 101
Heat Pump Delays
Aux Heat: 3 Min
[0 – 60 minutes]

In the box above enter a value from 0 to 60. The default value is "3".

Configuration Screen #75

VCC-X Cnfg ID 101
Heat/Cool Changeover
Delay: 5 Min
[0 – 20 minutes]

In the box above enter a value from 0 to 20. The default value is "5".

Configuration Screen #76

VCC-X Cnfg ID 101
Return Air Bypass
Control: NO
Use < Or > To Change

- ☐ NO
☐ YES

Check one of the boxes above. Default is "NO".

Configuration Screen #77

VCC-X Cnfg ID 101
Morning Cool-Down
None
Use < Or > To Change

- ☐ None
☐ Stand Alone
☐ Bcast Fixed to Boxes
☐ Bcast Max to Boxes

Check one of the boxes above. Default is "None".

VCC-X Setup Sheet

Relays #2 through #24 can be individually configured. By using the 7 relay outputs available on the VCC-X Controller the 5 relays on the VCC-X EM1 Expansion Module, and the 12 Relays on the 12 Relay E-BUS Expansion Module, you have the ability to configure up to a combined total of 24 Heating Stages, Cooling Stages, and the other options listed above. Only the Heating and Cooling relays can be configured with multiple outputs. If any other option is selected more than once, it will simply activate redundant relays but no multiple staging will occur.

Configuration Screen #78

VCC-X Cnfg ID 101
On-Board Relay 2
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #79

VCC-X Cnfg ID 101
On-Board Relay 3
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #80

VCC-X Cnfg ID 101
On-Board Relay 4
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #81

VCC-X Cnfg ID 101
On-Board Relay 5
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #82

VCC-X Cnfg ID 101
On-Board Relay 6
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

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Configuration Screen #83

VCC-X Cnfg ID 101
On-Board Relay 7
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #84

VCC-X Cnfg ID 101
On-Board Relay 8
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #85

VCC-X Cnfg ID 101
EM1 Relay 1
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #86

VCC-X Cnfg ID 101
EM1 Relay 2
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #87

VCC-X Cnfg ID 101
EM1 Relay 3
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #88

VCC-X Cnfg ID 101
EM1 Relay 4
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

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Configuration Screen #89

VCC-X Cnfg ID 101
EM1 Relay 5
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #90

VCC-X Cnfg ID 101
12 Rly Bd 1
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #91

VCC-X Cnfg ID 101
12 Rly Bd 2
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #92

VCC-X Cnfg ID 101
12 Rly Bd 3
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #93

VCC-X Cnfg ID 101
12 Rly Bd 4
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #94

VCC-X Cnfg ID 101
12 Rly Bd 5
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

VCC-X Setup Sheet

Configuration Screen #95

VCC-X Cnfg ID 101
12 Rly Bd 6
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #96

VCC-X Cnfg ID 101
12 Rly Bd 7
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #97

VCC-X Cnfg ID 101
12 Rly Bd 8
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #98

VCC-X Cnfg ID 101
12 Rly Bd 9
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #99

VCC-X Cnfg ID 101
12 Rly Bd 10
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

Configuration Screen #100

VCC-X Cnfg ID 101
12 Rly Bd 11
Not Used
Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

VCC-X Setup Sheet

Configuration Screen #101

VCC-X Cnfg ID 101 12 Rly Bd 12 Not Used Use < Or > To Change

- ☐ Not Used (Default)
- ☐ Cooling Stage
- ☐ Heating Stage
- ☐ Heat Pump Aux Heat
- ☐ Emergency Heat
- ☐ Mod Heat Enable
- ☐ Mod Cool Enable
- ☐ Warm-up / Cool-Down
- ☐ Reheat
- ☐ Preheat
- ☐ Low Ambient
- ☐ Exhaust Fan
- ☐ Economizer
- ☐ Heat Wheel
- ☐ Occupied
- ☐ Override
- ☐ Alarm

Check one of the boxes above.

VCC-X Setpoints Worksheet

Setpoint Screen #1

**VCC-X Spts ID 101
Occupied HVAC Spts
Cooling.....: 75°F
Heating.....: 70°F**

In the first box above enter a value from 1 to 110. The default value is “75”. In the second box above enter a value from 1 to 110. The default value is “70”.

Setpoint Screen #2

**VCC-X Spts ID 101
Hood On HVAC Spts
OAT Cool: 75.0°F
OAT Heat: 70.0°F**

In the first box above enter a value from 1 to 110. The default value is “75”. In the second box above enter a value from 1 to 110. The default value is “70”.

Setpoint Screen #3

**VCC-X Spts ID 101
Unoccupied Offsets
Cooling.....: 30°F
Heating.....: 30°F**

In the first box above enter a value from 0 to 30. The default value is “30”. In the second box above enter a value from 0 to 30. The default value is “30” and indicates no Unoccupied operation will occur.

Setpoint Screen #4

**VCC-X Spts ID 101
Mode Deadband
Setpoint: 1.0°F**

In the box above enter a value from 1 to 10. The default value is “1”.

Setpoint Screen #5

**VCC-X Spts ID 101
Space Sensor
Slide Adj: 0°F**

In the box above enter a value from 0 to 10. The default value is “0”.

Setpoint Screen #6

**VCC-X Spts ID 101
Calibrate Slide Adj
Put At Up Pos: XXX
Enter # Shown**

Once the slider is in the up position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

Setpoint Screen #7

**VCC-X Spts ID 101
Calibrate Slide Adj
At Middle Pos: XXX
Enter # Shown**

Once the slider is in the middle position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

Setpoint Screen #8

**VCC-X Spts ID 101
Calibrate Slide Adj
At Down Pos: XXX
Enter # Shown**

Once the slider is in the down position, wait for the value on line 3 to stop changing. Once it stops changing, enter this value on line 4.

Setpoint Screen #9

**VCC-X Spts ID 101
Space Sensor
Push-Button Override
Duration.....: 2.0 Hr**

In the box above enter a value from 0 to 8.0. The default value is “2.0”.

Setpoint Screens #10 & 11

**VCC-X Spts ID 101
Controlling Sensor
High Alarm Offset
Setpoint: 30.0°F**

**VCC-X Spts ID 101
Controlling Sensor
Low Alarm Offset
Setpoint: 30.0°F**

In the boxes above enter a value from 0 to 50. The default value is “30”. Only applies to Space, Return Air, or Single Zone VAV controlled units.

Setpoint Screen #12

**VCC-X Spts ID 101
Outdoor Dewpoint
Setpoint: 55°F**

In the box above enter a value from 35 to 80. The default value is “55”.

Setpoint Screen #13

**VCC-X Spts ID 101
Indoor RH Setpt
Disable/Lo Rst: 50%
Enable/Hi Rst: 60%**

In the first box above enter a value from 0 to 100. The default value is “50”. In the second box above enter a value from 0 to 100. The default value is “60”. This screen can be used to set the Indoor (Space or Return Air) Dehumidification Enable and Disable Setpoints and to set the Indoor Humidity Reset Range used to reset the Coil Suction (Saturation) Temperature Setpoint during Dehumidification. Please see the instructions for *Setpoint Screen #13* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

VCC-X Setpoints Worksheet

Setpoint Screen #14

VCC-X Spts ID 101
Coil Temp Setpt
Hi Rst Lmt: 45°F
Lo Rst Lmt: 40°F

In the first box enter a value from 35 to 70. The default value is "45". In the second box enter a value from 35 to 70. The default value is "40". During Dehumidification, the Coil temperature can be reset within the range created on this screen per the description for *Setpoint Screen #13*. If no reset is desired, set both the low and high setpoints to the same value.

Setpoint Screen #15

VCC-X Spts ID 101
Static Pressure
Setpt: 1.50"WG
Deadband: 0.10"WG

In the first box above enter a value from .10 to 3.0. The default value is "1.5". In the second box above enter a value from .01 to 0.5. The default value is ".10".

Setpoint Screen #16

VCC-X Spts ID 101
VFD Speed Limits
Min Cool: 30%
Min Vent: 20%

In the first box above enter a value from 0 to 100. The default value is "30". In the second box above enter a value from 0 to 100. The default value is "20". If this unit is configured for Single Zone VAV operation, the Min Cool Percentage will be the fan speed at which the VFD will start operating at when cooling is initiated. It can then modulate up to 100% as the space temperature rises within the range created by the Cool Low Reset Source and the Cool High Reset Source Setpoints entered in *Setpoint Screen #19*.

If this is a CAV or MUA unit, this should be set to 100%.

The Min Vent Percentage is the speed at which the fan will operate at during the Vent Mode.

Setpoint Screen #17

VCC-X Spts ID 101
VFD Speed Limits
Min Heat: 50%
Max Heat: 100%

In the first box above enter a value from 0 to 100. The default value is "50". In the second box above enter a value from 0 to 100. The default value is "100". If this unit is configured for Single Zone VAV operation, and you have a modulating heat source that will allow VAV heating, then the Min Heat Percentage will be the fan speed at which the VFD will start operating at when heating is initiated. It can then modulate up to the Max Heat Percentage as the Space Temperature falls within the range created by the Heat High Reset Source and the Heat Low Reset Source created in *Setpoint Screen #21*. On a standard VAV unit, if the VFD Signal falls below the Minimum VFD Heat Setpoint during the Heating Mode, Heating will be disabled. If this is a CAV, MUA, or Single Zone VAV with CAV Heating, these setpoints should both be set at the same value which represents the constant speed you want the fan to operate at during the Heating Mode.

Setpoint Screen #18

VCC-X Spts ID 101
Supply Air Cooling
Spt: 55°F
Hi Rst Lmt: 55°F

If no Reset Source has been configured in *Configuration Screen #11*, then this Setpoint will be the SAT Cooling Setpoint. Line 4 will be blank. If a Reset Source has been configured in *Configuration Screen #11*, then Line 4 will read Hi Rst Limit. In the first box

above enter a value from 30 to 80. The default value is "55". In the second box above enter a value from 0 to 100. The default value is "55".

Setpoint Screen #19

VCC-X Spts ID 101
Cool Rst Source Spts
High Reset: 75°F
Low Reset: 70°F

If no SAT Reset Source has been configured in *Configuration Screen #11*, you can disregard this screen.

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #19* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 1 to 150. The default value is "75". In the second box above enter a value from -10 to 150. The default value is "70".

Setpoint Screen #20

VCC-X Spts ID 101
Supply Air Heating
Setpt: 120
Hi Rst Limit: 120

If no Reset Source has been configured in *Configuration Screen #11*, then this Setpoint will be the SAT Heating Setpoint. Line 4 will be blank. If a Reset Source has been configured in *Configuration Screen #11*, then Line 4 will read Rst Limit.

In the first box above enter a value from 40 to 240. The default value is "120". In the second box above enter a value from 0 to 250. The default value is "120".

VCC-X Setpoints Worksheet

Setpoint Screen #21

VCC-X Spts ID 101
Heat Rst Source Spts
High Reset: 75°F
Low Reset: 70°F

If no SAT Reset Source has been configured in *Configuration Screen #11*, you can disregard this screen.

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #21* in the *VCC-X Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 1 to 150. The default value is "75". In the second box above enter a value from -30 to 150. The default value is "70".

Setpoint Screen #22

VCC-X Spts ID 101
Stage Off Window
Cooling: 5°F
Heating: 5°F

In the first box above enter a value from 1 to 30. The default value is "5". In the second box above enter a value from 1 to 50. The default value is "5".

Setpoint Screen #23

VCC-X Spts ID 101
Mod Heat
Prop Window: 10°F
Time Period: 30sec

In the first box above enter a value from .1 to 30. The default value is "10". In the second box above enter a value from 5 to 240. The default value is "30".

Setpoint Screen #24

VCC-X Spts ID 101
Mod Cool
Prop Window: 10°F
Time Period: 30sec

In the first box above enter a value from .1 to 30. The default value is "10". In the second box above enter a value from 5 to 240. The default value is "30".

Setpoint Screen #25

VCC-X Spts ID 101
Head Pressure Spts
Cooling: 340psi
Reheat: 390 psi

In the first box above enter a value from 240 to 420. The default value is "340". In the second box above enter a value from 240 to 420. The default value is "390".

Setpoint Screen #26

VCC-X Spts ID 101
WSHP Head Pres.Spts
Cooling: 235 psi
Reheat: 350 psi

In the first box above enter a value from 200 to 350. The default value is "235". In the second box above enter a value from 200 to 350. The default value is "350".

Setpoint Screen #27

VCC-X Spts ID 101
Condenser Fan Cycle
Enable: 310 psi
Deadband: 50 psi

In the first box above enter a value from 245 to 470. The default value is "310". In the second box above enter a value from 35 to 100. The default value is "50".

Setpoint Screen #28

VCC-X Spts ID 101
Condenser Fan Cycle
Reheat Offset
Enable: 50 psi

In the box above enter a value from 50 to 150. The default value is "50".

VCC-X Setpoints Worksheet

Setpoint Screen #29

VCC-X Spts ID 101
Economizer Enable
Setpt: 55°F

In the box above enter a value from -30 to 80. The default value is "55".

Setpoint Screen #30

VCC-X Spts ID 101
Economizer Min
Damper Pos: 10%

In the box above enter a value from 0 to 100. The default value is "10".

Setpoint Screen #31

VCC-X Spts ID 101
Max Econo Pos In
Heat Mode: 50%

In the box above enter a value from 0 to 100. The default value is "50".

Setpoint Screen #32

VCC-X Spts ID 101
Min, Outdoor Airflow
Setpt: 2.00 kCFM
Deadband: 200 CFM

In the first box above enter a value from .1 to 200. The default value is "2".

In the second box above enter a value from 10 to 9999. The default value is "200".

Setpoint Screen #33

VCC-X Spts ID 101
High CO2:
Max OA kCFM: 2.0
Max Econo Pos: 50%

In the first box above, enter a value from .10 to 200. The default value is "2".

In the second box above enter a value from 0 to 100. (Note the minimum is whatever value you set for Economizer Min. Position on *Setpoint Screen #30* above). The default value is "50".

Setpoint Screen #34

VCC-X Spts ID 101
CO2 Setpoints
Min CO2: 900 PPM
Max CO2: 1000 PPM

In the first box above enter a value from 0 to 2000. The default value is "900".

In the second box above enter a value from 0 to 2000. The default value is "1000".

Setpoint Screen #35

VCC-X Spts ID 101
Altitude
Setpt: 1000 Ft

In the box above enter a value from 0 to 15,000. The default value is "1000".

Setpoint Screen #36

VCC-X Spts ID 101
Building Pressure
Setpt: 0.02"WG
Deadband: 0.01"WG

In the first box above enter a value from -.2 to .2. The default value is ".02".

In the second box above enter a value from .01 to .1. The default value is ".01".

Setpoint Screen #37

VCC-X Spts ID 101
OAT Lockouts
Comp Cool: 50°F
Comp Heat: 35°F

In the first box above enter a value from -30 to 100. The default value is "50".

In the second box above enter a value from -30 to 100. The default value is "35".

Setpoint Screen #38

**VCC-X Spts ID 101
OAT Lockouts
Heat: 90°F**

In the box above enter a value from -30 to 150. The default value is "90".

Setpoint Screen #39

**VCC-X Spts ID 101
Supply Air Cutoffs
Cooling: 40°F
Heating: 150°F**

In the first box above enter a value from 0 to 100. The default value is "40".

In the second box above enter a value from 0 to 250. The default value is "150".

Setpoint Screen #40

**VCC-X Spts ID 101
Mod Heat Output Pos
In Off Mode: 0%**

In the box above enter a value from 0 to 100. The default value is "0".

Setpoint Screen #41

**VCC-X Spts ID 101
Preheat Relay
Setpt: 30°F**

In the box above enter a value from -30 to 70. The default value is "30".

Setpoint Screen #42

**VCC-X Spts ID 101
Low Ambient
Setpt: 30°F**

In the box above enter a value from -30 to 70. The default value is "30".

Setpoint Screen #43

**VCC-X Spts ID 101
Heat Pump Defrost
Interval: 30 Min**

In the box above enter a value from 10 to 120. The default value is "30".

Setpoint Screen #44

**VCC-X Spts ID 101
Adaptive Defrost
Interval Adj: 0 Min**

In the box above enter a value from 0 to 30. The default value is "0".

Setpoint Screen #45

**VCC-X Spts ID 101
Heat Wheel Defrost
Temp Setpt: 30°F**

In the box above enter a value from 0 to 50. The default value is "30".

Setpoint Screen #46

**VCC-X Spts ID 101
Morning Warmup
Max Length: 60 Min
Target Temp: 70°F**

In the first box above enter a value from 0 to 240. The default value is "60".

In the second box above enter a value from 50 to 90. The default value is "70".

Setpoint Screen #47

**VCC-X Spts ID 101
SZ VAV Integral
Constant: 0**

In the box above enter a value from 0 to 10. The default value is "0".

Setpoint Screen #48

**VCC-X Spts ID 101
Return Air Bypass
Damper Factor
Setpoint: 40%**

In the box above enter a value from 0 to 100. The default value is "40".

Setpoint Screen #49

**VCC-X Spts ID 101
Warmup Supply Air
Setpoint: 100.0°F**

In the box above enter a value from 40 to 240. The default value is "100".

VCC-X Setpoints Worksheet

Setpoint Screen #50

VCC-X Spts ID 101
Cooldown Supply Air
Setpoint: 55.0°F

In the box above enter a value from 30 to 80. The default value is "55".

Setpoint Screen #51

VCC-X Spts ID 101
Preheat-X Spts
Cooling Mode: 40.0°F
Heating Mode: 60.0°F

In the first box above enter a value from 35 to 90. The default value is "40".

In the second box above enter a value from 35 to 90. The default value is "60".

Setpoint Screen #52

VCC-X Spts ID 101
Preheat-X Spts
Vent Mode: 50.0°F

In the box above enter a value from 35 to 90. The default value is "50".

Setpoint Screen #53

VCC-X Spts ID 101
Superheat
Setpoint: 15.0°F

In the box above enter a value from 1 to 30. The default value is "15".

Setpoint Screens #54-58

Setpoint Screens #54 through #58 allow you to calibrate any sensors that are not reading correctly. In the boxes above for the sensor(s) you wish to calibrate, enter a value from -100 to +100 (-500 to +500 for the CO₂ Sensor). The default value is "0". The current value shown on Line 3 is the actual temperature the sensor is reading plus the offset temperature amount you enter.

VCC-X Spts ID 101
Space Sensor Cal
Current: 0.0°F
Offset: 0.0°F

VCC-X Spts ID 101
Return Sensor Cal
Current: 0.0°F
Offset: 0.0°F

VCC-X Spts ID 101
SAT Sensor Cal
Current: 0.0°F
Offset: 0.0°F

VCC-X Spts ID 101
OAT Sensor Cal
Current: 0.0°F
Offset: 0.0°F

VCC-X Spts ID 101
CO2 Sensor Cal
Current: 0ppm
Offset: 0ppm

VCC-X Setpoints Worksheet

RSMV & RSMV-HP CONFIGURATION SCREENS

RSMV #1 Configuration Screen #1

**RSM 1 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ DUAL
☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSMV #1 Configuration Screen #2

**RSM 1 Configuration
Compressor Type
1st VFD / 2nd FIXED
Use < or > to CHANGE**

- ☐ 1st VFD / 2nd FIXED
☐ BOTH ARE FIXED

Check one of the boxes above. Default is "1st VFD / 2nd FIXED".

RSMV #1 Configuration Screen #3

**RSM 1 Configuration
Evap Coil Exv
Uses EXV-1 Only
Use < or > to CHANGE**

- ☐ Uses EXV-1 & EXV-2
☐ Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

RSMV #1 Configuration Screen #4

**RSM 1 Configuration
Heat Pump Cond Exv
Uses EXV-3 Only
Use < or > to CHANGE**

- ☐ Uses EXV-3 & EXV-4
☐ Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

RSMV #2 Configuration Screen #1

**RSM 2 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ DUAL
☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSMV #2 Configuration Screen #2

**RSM 2 Configuration
Compressor Type
1st VFD / 2nd FIXED
Use < or > to CHANGE**

- ☐ 1st VFD / 2nd FIXED
☐ BOTH ARE FIXED

Check one of the boxes above. Default is "1st VFD / 2nd FIXED".

RSMV #2 Configuration Screen #3

**RSM 2 Configuration
Evap Coil Exv
Uses EXV-1 Only
Use < or > to CHANGE**

- ☐ Uses EXV-1 & EXV-2
☐ Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

RSMV #2 Configuration Screen #4

**RSM 2 Configuration
Heat Pump Cond Exv
Uses EXV-3 Only
Use < or > to CHANGE**

- ☐ Uses EXV-3 & EXV-4
☐ Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

RSMV #3 Configuration Screen #1

**RSM 3 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ DUAL
☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSMV #3 Configuration Screen #2

**RSM 3 Configuration
Compressor Type
1st VFD / 2nd FIXED
Use < or > to CHANGE**

- ☐ 1st VFD / 2nd FIXED
☐ BOTH ARE FIXED

Check one of the boxes above. Default is "1st VFD / 2nd FIXED".

RSMV #3 Configuration Screen #3

**RSM 3 Configuration
Evap Coil Exv
Uses EXV-1 Only
Use < or > to CHANGE**

- ☐ Uses EXV-1 & EXV-2
☐ Uses EXV-1 Only

Check one of the boxes above. Default is "Uses EXV-1 Only."

RSMV #3 Configuration Screen #4

**RSM 3 Configuration
Heat Pump Cond Exv
Uses EXV-3 Only
Use < or > to CHANGE**

- ☐ Uses EXV-3 & EXV-4
☐ Uses EXV-3 Only

Check one of the boxes above. Default is "Uses EXV-3 Only."

RSMV #4 Configuration

Screen #1

**RSM 4 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ **DUAL**
- ☐ **SINGLE**

Check one of the boxes above. Default is “DUAL”.

RSMV #4 Configuration

Screen #2

**RSM 4 Configuration
Compressor Type
1st VFD / 2nd FIXED
Use < or > to CHANGE**

- ☐ **1st VFD / 2nd FIXED**
- ☐ **BOTH ARE FIXED**

Check one of the boxes above. Default is “1st VFD / 2nd FIXED”.

RSMV #4 Configuration

Screen #3

**RSM 4 Configuration
Evap Coil Exv
Uses EXV-1 Only
Use < or > to CHANGE**

- ☐ **Uses EXV-1 & EXV-2**
- ☐ **Uses EXV-1 Only**

Check one of the boxes above. Default is “Uses EXV-1 Only.”

RSMV #4 Configuration

Screen #4

**RSM 4 Configuration
Heat Pump Cond Exv
Uses EXV-3 Only
Use < or > to CHANGE**

- ☐ **Uses EXV-3 & EXV-4**
- ☐ **Uses EXV-3 Only**

Check one of the boxes above. Default is “Uses EXV-3 Only.”

RSMD MAIN CONFIGURATION SCREENS

RSMD Main Configuration Screen #1

RSMD Configuration
Digital Compressor
Min Position: 0%

Enter a value from 0 to 100. The default value is "0".

RSMD Main Configuration Screen #2

RSM #1 Configuration
Condenser Options
2 Cond per RSMD
Use < or > to CHANGE

- ☐ 2 Cond per RSMD
- ☐ 1 Cond for 1 RSMD
- ☐ 1 Cond for 2 RSMDs
- ☐ 1 Cond for 3 RSMDs
- ☐ 2 Cond for 2 RSMDs

Check one of the boxes above. Default is "2 Cond per RSMD".

RSMD Main Configuration Screens #3-5

RSM 2-4 Cond Options
Config Same as RSM 1
2 Cond per RSMD
Use < or > to CHANGE

- ☐ 2 Cond per RSMD
- ☐ 1 Cond for 1 RSMD
- ☐ 1 Cond for 2 RSMDs
- ☐ 1 Cond for 3 RSMDs
- ☐ 2 Cond for 2 RSMDs

Choose the same Condenser option you chose for RSMD #1 for RSMD #2, #3, and #4 from the list above, depending on how many RSMDs you are using. If you choose any other option than the one chosen for RSMD #1, the RSMD will not run properly. Default is "2 Cond per RSMD".

RSMD #1-#4 CONFIGURATION SCREENS

RSM #1 Configuration Screen #1

RSM 1 Configuration
Compressor Option
DUAL
Use < or > to CHANGE

- ☐ DUAL
- ☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSM #1 Configuration Screen #2

RSM 1 Configuration
Compressor #1 Type
MODULATING
Use < or > to CHANGE

- ☐ MODULATING
- ☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #1 Configuration Screen #3

RSM 1 Configuration
Compressor #2 Type
MODULATING
Use < or > to CHANGE

- ☐ MODULATING
- ☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #1 Configuration Screen #4

RSM 1 Configuration
Refrigerant Circuit
SPLIT
Use < or > to CHANGE

- ☐ SPLIT
- ☐ TANDEM

Check one of the boxes above. Default is "SPLIT".

RSM #1 Configuration Screen #5

RSM 1 Configuration
Fan Cycle Control
NO
Use < or > to CHANGE

- ☐ YES
- ☐ NO

Check one of the boxes above. Default is "NO".

RSM #1 Configuration Screen #6

RSM 1 Configuration
Fixed Condenser Fan
NO
Use < or > to CHANGE

- ☐ YES
- ☐ NO

Check one of the boxes above. Default is "NO".

RSM #2 Configuration Screen #1

RSM 2 Configuration
Compressor Option
DUAL
Use < or > to CHANGE

- ☐ DUAL
- ☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSM #2 Configuration Screen #2

RSM 2 Configuration
Compressor #1 Type
MODULATING
Use < or > to CHANGE

- ☐ MODULATING
- ☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #2 Configuration
Screen #3

**RSM 2 Configuration
Compressor #2 Type
MODULATING
Use < or > to CHANGE**

- ☐ MODULATING
☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #2 Configuration
Screen #4

**RSM 2 Configuration
Refrigerant Circuit
SPLIT
Use < or > to CHANGE**

- ☐ SPLIT
☐ TANDEM

Check one of the boxes above. Default is "SPLIT".

RSM #2 Configuration
Screen #5

**RSM 2 Configuration
Fan Cycle Control
NO
Use < or > to CHANGE**

- ☐ YES
☐ NO

Check one of the boxes above. Default is "NO".

RSM #2 Configuration
Screen #6

**RSM 2 Configuration
Fixed Condenser Fan
NO
Use < or > to CHANGE**

- ☐ YES
☐ NO

Check one of the boxes above. Default is "NO".

RSM #3 Configuration
Screen #1

**RSM 3 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ DUAL
☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSM #3 Configuration
Screen #2

**RSM 3 Configuration
Compressor #1 Type
MODULATING
Use < or > to CHANGE**

- ☐ MODULATING
☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #3 Configuration
Screen #3

**RSM 3 Configuration
Compressor #2 Type
MODULATING
Use < or > to CHANGE**

- ☐ MODULATING
☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #3 Configuration
Screen #4

**RSM 3 Configuration
Refrigerant Circuit
SPLIT
Use < or > to CHANGE**

- ☐ SPLIT
☐ TANDEM

Check one of the boxes above. Default is "SPLIT".

RSM #3 Configuration
Screen #5

**RSM 3 Configuration
Fan Cycle Control
NO
Use < or > to CHANGE**

- ☐ YES
☐ NO

Check one of the boxes above. Default is "NO".

RSM #3 Configuration
Screen #6

**RSM 3 Configuration
Fixed Condenser Fan
NO
Use < or > to CHANGE**

- ☐ YES
☐ NO

Check one of the boxes above. Default is "NO".

RSM #4 Configuration
Screen #1

**RSM 4 Configuration
Compressor Option
DUAL
Use < or > to CHANGE**

- ☐ DUAL
☐ SINGLE

Check one of the boxes above. Default is "DUAL".

RSM #4 Configuration
Screen #2

**RSM 4 Configuration
Compressor #1 Type
MODULATING
Use < or > to CHANGE**

- ☐ MODULATING
☐ FIXED

Check one of the boxes above. Default is "MODULATING".

RSM #4 Configuration

Screen #3

RSM 3 Configuration
Compressor #2 Type
MODULATING
Use < or > to CHANGE

☐ **MODULATING**

☐ **FIXED**

Check one of the boxes above. Default is
“MODULATING”.

RSM #4 Configuration

Screen #4

RSM 4 Configuration
Refrigerant Circuit
SPLIT
Use < or > to CHANGE

☐ **SPLIT**

☐ **TANDEM**

Check one of the boxes above. Default is
“SPLIT”.

RSM #4 Configuration

Screen #5

RSM 4 Configuration
Fan Cycle Control
NO
Use < or > to CHANGE

☐ **YES**

☐ **NO**

Check one of the boxes above. Default is
“NO”.

RSM #4 Configuration

Screen #6

RSM 4 Configuration
Fixed Condenser Fan
NO
Use < or > to CHANGE

☐ **YES**

☐ **NO**

Check one of the boxes above. Default is
“NO”.