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VCM-X Controller - Configuration & Setpoints Worksheet

Filled Out By: _____ **Date:** _____

Job Name: _____

Job Location:

Engineer: _____ **Contractor:** _____

Service Contact: _____ **Controls Contact :** _____

**Enter The Unit Tag Numbers For The HVAC Units
To Be Configured Per This Setpoint Worksheet:**

VCM-X Setup Sheet

Configuration Screen #1

VCM-X Cnfg ID 59
Duct Static Pressure
Control: YES
Use < or > To Change

- NO
- YES

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

Configuration Screen #2

VCM-X Cnfg ID 59
Supply Fan Cycle
Mode: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #3

VCM-X Cnfg ID 59
HVAC Mode Enable
Supply Air
Use < or > To Change

- Supply Air
- Outdoor Air
- Space Temperature
- Return Air
- Supply Air / Tempering

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

Configuration Screen #4

VCM-X Cnfg ID 59
HVAC Reset Source
No Reset
Use < or > To Change

- No Reset
- Space Sensor
- Return Air Sensor
- Remote Reset Signal
- Fan VFD Percentage
- Outdoor Sensor
- Single Zone VAV
- SZ VAV w/ CV Heat

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

Configuration Screen #5

VCM-X Cnfg ID 59
HVAC Reset Interval
Rate: 20 s
[1-255 Seconds]

Enter 1 to 255 seconds above. Default is 10 Seconds.

Configuration Screen #6

VCM-X Cnfg ID 59
Dehumidification
Control: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #7

VCM-X Cnfg ID 59
Dehumidification
Priority: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #8

VCM-X Cnfg ID 59
Dehumidification
Unoccupied: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #9

VCM-X Cnfg ID 59
Outdoor Humidity
Sensor: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #10

VCM-X Cnfg ID 59
Indoor Humidity
Sensor: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #11

VCM-X Cnfg ID 59
Heat During
Dehumidify: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #12

VCM-X Cnfg ID 59
Economizer
Control: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #13

VCM-X Cnfg ID 59
Title 24 Economizer:
NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #14

VCM-X Cnfg ID 59
Proof Of Flow
Input: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #15

VCM-X Cnfg ID 59
Mod Cooling: NO
Mod Heating: NO
Use < or > To Change

Modulating Cooling

- NO
- YES

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

Modulating Heating*

- NO
- YES

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

* Does not apply to ModGas heating.

Configuration Screen #16

VCM-X Cnfg ID 59
Mod Heating
Output Signal.: 0
Use < or > To Change

- 0-10V
- 2-10V

Check one of the boxes above. Default is "0-10V".

Configuration Screen #17

VCM-X Cnfg ID 59
Mod Heating
Rev Acting: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #18

VCM-X Cnfg ID 59
Mod Heating
Prop. Window: 10°F
Time Period: 5 s

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

In the second box above enter a value from 5 to 255. The default value is "5".

Configuration Screen #19

VCM-X Cnfg ID 59
Mod Cooling
Output Signal.: 0
[0=0-10V 1=2-10V]

- 0-10V
- 2-10V

Check one of the boxes above. Default is "0-10V".

Configuration Screen #20

VCM-X Cnfg ID 59
Digital Compressor
Signal 1-5V : NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #21

VCM-X Cnfg ID 59
Mod Cooling
Rev Acting: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #22

VCM-X Cnfg ID 59
Mod Cooling
Prop. Window: 10°F
Time Period: 5 s

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

In the second box above enter a value from 5 to 255. The default value is "5".

Configuration Screen #23

VCMX-M/HP Cnfg ID 102
Head Pressure
Module Installed: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #24

VCMX-M/HP Cnfg ID 102
Type of Head Pr.
Module: 1 Condenser
Use < or > To Change

- 1
- 2

Check one of the boxes above. Default is "1 Condenser".

Configuration Screen #25

VCMX-M/HP Cnfg ID 102
Full Digital
Module Installed: NO
Use < or > To Change

- NO
- YES

Check one of the boxes above. Default is "NO". (This screen appears when using the OE332-23-VCM-X-MOD-A).

OR

VCMX-M/HP Cnfg ID 102
Dual Digital
Module Installed: NO
[0=NO 1=YES]

- NO
- YES

Check one of the boxes above. Default is "0 = NO". (This screen appears when using the OE332-23-VCM-X-MOD-C).

Configuration Screen #26

VCM-X Cfg ID 59
Airflow Station:
Paragon
Use < or > To Change

- PARAGON
- EBTRON

Check one of the boxes above. Default is "PARAGON". Choose EBTRON for GREENTROL.

Configuration Screen #27

VCM-X Cfg ID 59
Monitor Outdoor
Air CFM: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #28

VCM-X Cnfg ID 59
Control Outdoor
Air CFM: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #29

VCM-X Cnfg ID 59
Outdoor Duct/Damper
Size: 0.00
[Area in sq. ft.]

Enter the inside area in square feet of the outdoor air duct/damper, accurate to two decimal places.

Configuration Screen #30

VCM-X Cnfg ID 59
Monitor Return
Air CFM: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #31

VCM-X Cnfg ID 59
Return Duct/Damper
Size: 0.00
[Area in sq. ft.]

Enter the inside area in square feet of the return air duct/damper, accurate to two decimal places.

Configuration Screen #32

VCM-X Cnfg ID 59
Monitor Supply
Air CFM: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #33

VCM-X Cnfg ID 59
Supply Duct/Damper
Size: 0.00
[Area in sq. ft.]

Enter the inside area in square feet of the supply air duct/damper, accurate to two decimal places.

Configuration Screen #34

VCM-X Cnfg ID 59
CO2 Sensor
Output Signal: None
Use < or > To Change

- None
- 4-20 mA
- 0-10 VDC

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

Configuration Screen #35

VCM-X Cnfg ID 59
CO2 Sensor Maximum
Scale: 2000 PPM
Enter 0 If No Sensor

Enter a value from 0 to 20000. The default value is "2000" and is based on the sensor you are using. Enter "2000" if you are using the AAON or WattMaster CO₂ Sensor.

Configuration Screen #36

VCM-X Cnfg ID 59
Building Pressure
Mod Control: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #37

VCM-X Cnfg ID 59
Building Pressure
Rev Acting: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #38

VCM-X Cnfg ID 59
Building Pressure
Output Signal: 0-10V
Use < or > To Change

- 0-10V
- 2-10V

Check one of the boxes above. Default is "0-10V".

Configuration Screen #39

VCM-X Cnfg ID 59
Heat Pump
Control: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #40

VCM-X Cnfg ID 59
Rev. Valve Active
For: Heat
Use < or > To Change

- Heat
- Cool

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

Configuration Screen #41

VCM-X Cnfg ID 59
Emergency Shutdown
Input: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #42

VCM-X Cnfg ID 59
Return Air Bypass
Control: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #43

VCM-X Cnfg ID 59
Broadcast Outdoor
Temperature: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #44

VCM-X Cnfg ID 59
Broadcast Outdoor
Humidity: NO
Use < or > To Change

- NO
- YES

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

Configuration Screen #45

VCM-X Cnfg ID 59
Broadcast Supply
Temperature: NO
Use < or > To Change

- NO
- YES

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

VCM-X Setpoints Worksheet

Configuration Screen #46

**VCM-X Cnfg ID 59
Broadcast Status
Fan & Heat: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #47

**VCM-X Cnfg ID 59
Broadcast Internal
Time Clock: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #48

**VCM-X Cnfg ID 59
Broadcast Internal
Schedule: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #49

**VCM-X Cnfg ID 59
Broadcast VAV Boxes
Force To Max : YES
Use < or > To Change**

- NO
- YES

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

Configuration Screen #50

**VCM-X Cnfg ID 59
Broadcast VAV Boxes
Force To Fixed : NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #51

**VCM-X Cnfg ID 59
1 HVAC Unit w/ Boxes
On Multiple Loops: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #52

**VCM-X Cnfg ID 59
Unit Uses R410A
Refrigerant: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #53

**VCM-X Cnfg ID 59
Max Main Fan Aout
Voltage: XX.X VDC**

This screen will appear if you are using a VCM-X Modular Controller (OE332-23-VCMX-MOD-A or OE332-23-VCMX-MOD-C) or a VCM-X WSHP Controller (OE332-23-VCMX-WSHP-A or OE332-23-VCMX-WSHP-C).

In the box above enter a value from 0 to 10. This is the maximum voltage that the Analog Output for the Fan VFD will reach. Default = "10.0 VDC".

Configuration Screen #54

**VCM-X Cnfg ID 59
1 C-Fan Output Per:
Condenser: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #55

**VCM-X Cnfg ID 59
Preheat-X Module
Installed: NO
Use < or > To Change**

- NO
- YES

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

Configuration Screen #56

**VCM-X Cnfg ID 59
Cooling 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 #57

**VCM-X Cnfg ID 59
Cooling Stage Delays
Min Run Time: 5 Min
Min Off Time: 3 Min**

In the first box above enter a value from 3 to 15. The default value is "5".

In the second box above enter a value from 1 to 15. The default value is "3".

Configuration Screen #58

**VCM-X Cnfg ID 59
Heating 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 #59

**VCM-X Cnfg ID 59
Heating Stage Delays
Min Run Time: 2 Min
Min Off Time: 1 Min**

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

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

Configuration Screen #60

VCM-X Cnfg ID 59
Relay Configurations
Rly 2: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Relays #2 through #21 can be individually configured. By using the 4 relay outputs available on the VCM-X Controller the 4 relays on the VCM-X Expansion Module, and the 12 Relays on the 12 Relay Expansion Module, you have the ability to configure up to a combined total of 20, 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 #61

VCM-X Cnfg ID 59
Relay Configurations
Rly 3: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #62

VCM-X Cnfg ID 59
Relay Configurations
Rly 4: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #63

VCM-X Cnfg ID 59
Relay Configurations
Rly 5: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #64

VCM-X Cnfg ID 59
Relay Configurations
Rly 6: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #65

VCM-X Cnfg ID 59
Relay Configurations
Rly 7: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #66

VCM-X Cnfg ID 59
Relay Configurations
Rly 8: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #67

VCM-X Cnfg ID 59
Relay Configurations
Rly 9: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #68

VCM-X Cnfg ID 59
Relay Configurations
Rly 10: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #69

VCM-X Cnfg ID 59
Relay Configurations
Rly 11: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #70

VCM-X Cnfg ID 59
Relay Configurations
Rly 12: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #71

**VCM-X Cnfg ID 59
Relay Configurations
Rly 13: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #72

**VCM-X Cnfg ID 59
Relay Configurations
Rly 14: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #73

**VCM-X Cnfg ID 59
Relay Configurations
Rly 15: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #74

**VCM-X Cnfg ID 59
Relay Configurations
Rly 16: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #75

**VCM-X Cnfg ID 59
Relay Configurations
Rly 17: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #76

**VCM-X Cnfg ID 59
Relay Configurations
Rly 18: Not Used
Use < or > To Change**

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #77

VCM-X Cnfg ID 59
Relay Configurations
Rly 19: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #78

VCM-X Cnfg ID 59
Relay Configurations
Rly 20: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

Configuration Screen #79

VCM-X Cnfg ID 59
Relay Configurations
Rly 21: Not Used
Use < or > To Change

- Not Used
- Heating Stage
- Cooling Stage
- Warm-up Mode
- Reversing Valve
- HGR
- Exhaust Fan
- Pre-Heater
- Alarm
- Override
- Occupied
- OA Damper
- Heat Wheel
- Emergency Heat

Check one of the boxes above. Default is "Not Used".

VCM-X Setpoints Worksheet

Setpoint Screen #1

**VCM-X Spts ID 59
HVAC Mode Setpoints
Cooling.....: 75°F
Heating.....: 70°F**

In the first box above enter a value from 0 to 99. The default value is “75”. In the second box above enter a value from 0 to 99. The default value is “70”.

Setpoint Screen #2

**VCM-X Spts ID 59
HVAC Mode Select
Deadband:..... 1.0°F**

In the box above enter a value from 0 to 10. The default value is “1.0”.

Setpoint Screen #3

**VCM-X Spts ID 59
Unoccupied Setbacks
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”.

Setpoint Screen #4

**VCM-X Spts ID 59
SAT Cooling Spts
Cooling.....: 55°F
Rst Limit.....: 55°F**

If no Reset Source has been configured in Configuration Screen #4, then this setpoint will be the SAT Cooling Setpoint. Line 4 will be blank. If a Reset Source has been configured in Configuration Screen #4, then Line 4 will read Rst Limit. In the first box above enter a value from 40 to 80. The default value is “55”. In the second box above enter a value from 40 to 150. The default value is “55”.

Setpoint Screen #5

**VCM-X Spts ID 59
Cool Rst Source Spts
SpcHi: 75 SAT: 55°
SpcLo: 75 RST: 55°**

If no Reset Source has been configured in Configuration Screen #4, then this screen will read Cool Rst Not Config and will not be used. If a Reset Source has been configured in Configuration Screen #4, then the names of the values on the left side of this screen will correspond to the Reset Source that was configured. The screen will then allow you to input the upper and lower limits for the range of values of the Reset Source on the left side of the screen and will show the corresponding Cooling Supply Air SAT and Rst Limit Values that were entered on Setpoint Screen #4.

Setpoint Screen #6

**VCM-X Spts ID 59
SAT Heating Spts
Heating.....: 120°F
Rst Limit.....: 120°F**

If no Reset Source has been configured in Configuration Screen #4, then this setpoint will be the SAT Heating Setpoint. Line 4 will be blank. If a Reset Source has been configured in Configuration Screen #4, then Line 4 will read Rst Limit. In the first box above enter a value from 40 to 200. The default value is “120”. In the second box above enter a value from 40 to 200. The default value is “120”.

Setpoint Screen #7

**VCM-X Spts ID 59
Heat Rst Source Spts
SpcHi: 70 SAT: 120°
SpcLo: 70 RST: 120°**

If no Reset Source has been configured in Configuration Screen #4, then this screen will read Heat Rst Not Config and will not be used. If a Reset Source has been configured in Configuration Screen #4, then the names of the values on the left side of this screen will correspond to the Reset Source that was configured. The screen will then allow you to input the upper and lower limits for the range of values of the Reset Source on the left side of the screen and will show the corresponding Heating Supply Air SAT and Rst Limit Values that were entered on Setpoint Screen #4.

VCM-X Setpoints Worksheet

Setpoint Screen #8

VCM-X Spts ID 59
Stage Control Window
Cooling.....: 5°F
Heating.....: 5°F

In the first box above enter a value from 1 to 20. The default value is “5”. In the second box above enter a value from 1 to 20. The default value is “5”.

Setpoint Screen #9

VCM-X Spts ID 59
Outdoor Air Lockouts
Cooling.....: 50°F
Heating.....: 70°F

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 50 to 150. The default value is “70”.

Setpoint Screen #10

VCM-X Spts ID 59
Cutoff Temperatures
Lo SAT.....: 40°F
Hi SAT.....: 170°F

In the first box above enter a value from 0 to 250. The default value is “40”. In the second box above enter a value from 0 to 250. The default value is “170”.

Setpoint Screen #11

VCM-X Spts ID 5
Minimum Supply Fan VFD Speed For Heating....: 30%

In the box above enter a value from 0 to 100. The default value is “30”.

Setpoint Screen #12

VCM-X Spts ID 59
Morning WarmUp
Target Temp: 72°F
Max Length...: 60 Min

In the first box above enter a value from 50 to 90. The default value is “72”. In the second box above enter a value from 0 to 240. The default value is “60”.

Setpoint Screen #13

VCM-X Spts ID 59
Dehumidification Spt
Indoor RH.....: 50%
OA Dewpoint...: 55°F

In the first box above enter a value from 1 to 100. The default value is “50”. In the second box above enter a value from 35 to 80. The default value is “55”.

Setpoint Screen #14

VCM-X Spts ID 59
Dehumidification Coil Temperature
Setpoint.....: 45°F

In the box above enter a value from 35 to 70. The default value is “45”.

Setpoint Screen #15

VCM-X Spts ID 59
Cooling Head Pressure
Setpoint: 315PSI

In the box above, enter a value from 250 to 400. The default value is “315”. This value is based on the highest head pressure reading of up to 4 Head Pressure Sensors.

Setpoint Screen #16

VCM-X Spts ID 59
Reheat Head Pressure
Setpoint: 400PSI

In the box above, enter a value from 250 to 400. The default value is “400”. This value is based on the highest head pressure reading of up to 4 Head Pressure Sensors.

Setpoint Screen #17

VCM-X Spts ID 59
Economizer Setpoints
OAT/WB Enable...: 55°F

In the box above enter a value from 0 to 80. The default value is “55”.

Setpoint Screen #18

VCM-X Spts ID 59
Economizer Setpoints
Min Position...: 10%
Control Rate...: 90

In the first box above enter a value from 0 to 100. The default value is “10”. In the second box above enter a value from 10 to 99. The default value is “90”.

Setpoint Screen #19

VCM-X Spts ID 59
OA CFM CONTROL
Min CFM.: 0.10K
Max CFM.: 0.10K

In the first box above enter a value from 0 to 200. The default value is “0.10”. In the second box above enter a value from 0 to 200. The default value is “0.10”. K=1000

VCM-X Setpoints Worksheet

Setpoint Screen #20

VCM-X Spts ID 59
OA CFM CONTROL
OA CFM DB...: 10CFM

In the box above enter a value from 0 to 1000. The default value is "10".

Setpoint Screen #21

VCM-X Spts ID 59
Maximum Economizer
Position If High CO2
Level Occurs: 100%

In the box above enter a value from 0 to 100. (Note the minimum is whatever value you set for Economizer Min. Position on Screen 18 above). The default value is "100".

Setpoint Screen #22

VCM-X Spts ID 59
CO2 Protection Limit
Max Level...: 900 PPM
Reset Rnge.: 100 PPM

In the first box above enter a value from 0 to 3000. The default value is "900". In the second box above enter a value from 0 to 1500. The default value is "100".

Setpoint Screen #23

VCM-X Spts ID 59
Static Spt.....: 0.50"
Deadband.....: 0.10"
Control Rate.....: 10 s

In the first box above enter a value from 0.10 to 3.0. The default value is "0.50". In the second box above enter a value from 0.01 to 1.0. The default value is "0.10". In the third box above enter a value from 1 to 30. The default value is 10.

Setpoint Screen #24

VCM-X Spts ID 59
Building Pressure
Setpoint: 0.10"
Deadband: 0.02"

In the first box above enter a value from -0.20 to 0.20. The default value is "0.10". In the second box above enter a value from 0.01 to 0.10. The default value is "0.02".

Setpoint Screen #25

VCM-X Spts ID 59
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 #26

VCM-X Spts ID 59
Fan Starting Delay
Timer.....: 255 s

In the box above enter a value from 0 to 255. The default value is "255".

Setpoint Screen #27

VCM-X Spts ID 59
Mechanical Heat/Cool
Failures Occur After
No Change For: 15 Min

In the box above enter a value from 0 to 255. The default value is "15".

Setpoint Screen #28

VCM-X Spts ID 59
Preheat / Low
Ambient Temperature:
Setpoint: 0°F

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

Setpoint Screen #29

VCM-X Spts ID 59
Max OA Damper
Tempering Limit
Setpoint: 50%

In the box above enter a value from 0 to 60. The default value is "50".

Setpoint Screen #30

VCM-X Spts ID 59
HVAC Schedule: 0
[0 = Internal]
[1-5 = External]

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

Setpoint Screen #31

VCM-X Spts ID 59
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 Screen #32

VCM-X Spts ID 59
HVAC Mode Sensor
Slide Offset: 0°F

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

Setpoint Screen #33

VCM-X Spts ID 59
Heat Pump
Auxiliary Heating
Delay: 3 Min

In the box above enter a value from 0 to 30. The default value is "3".

VCM-X Setpoints Worksheet

Setpoint Screen #34

VCM-X Spts ID 59
Heat Pump Defrost
Defrost Tmp: 30°F
Defrost Tmr: 30 Min

In the first box above enter a value from 0 to 50. The default value is "30". In the second box above enter a value from 10 to 90. The default value is "30".

Setpoint Screen #35

VCM-X Spts ID 59
Adaptive Defrost
Adj. Setpoint: 0 Min

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

Setpoint Screen #36

VCM-X Spts ID 59
Heat Wheel Defrost
Setpoint: 30°F

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

Setpoint Screen #37

VCM-X Spts ID 59
Internal Schedule
Optimal Start Soak
Multiplier: 0.0

In the box above enter a value from 0.0 to 5.0. The default value is "0.0".

Setpoint Screen #38

VCM-X Spts ID 59
Trend Log
Interval: 15 Min

In the box above enter a value from 1 to 120. The default value is "15".

Setpoint Screen #39

VCM-X Spts ID 59
Preheat-X Setpoints
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 #40

VCM-X Spts ID 59
Preheat-X Setpoints
Venting Mode:
50.0°F

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

Setpoint Screen #41

VCM-X Spts ID 59
Sensor Calibration
SPC: 72.0°F 0.00°F
SAT: 55.0°F 0.00°F

See setpoint information following Screen #42.

Setpoint Screen #42

VCM-X Spts ID 59
Sensor Calibration
RAT: 78.0°F 0.00°F
OAT: 85.0°F 0.00°F

Setpoint screens 41 and 42 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. The default value is "0". The value shown to the immediate right of the sensor designation (SPC:, SAT:, RAT:, OAT:) is the actual temperature the sensor is reading plus the offset temperature amount you have entered. The far right value indicates the amount of calibration offset you have entered for that sensor.

Setpoint Screen #43

VCM-X Spts ID 59
Sensor Calibration
COIL: XX.X°F 0.00°F

Setpoint screen 41 allows you to calibrate the COIL sensor if it is not reading correctly. In the box above, enter a value from -30 to +30. The default value is "0". The value shown to the immediate right of the sensor designation is the actual temperature the sensor is reading plus the offset temperature amount you have entered. The far right value indicates the amount of calibration offset you have entered for the sensor.

