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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 CO<sub>2</sub> 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.

