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:**

Configuration Screen #1

> **VCM-X Cnfg ID 59**
> **Duct Static Pressure**
> **Control: YES**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "1 = YES".

Configuration Screen #2

> **VCM-X Cnfg ID 59**
> **Supply Fan Cycle**
> **Mode: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #3

> **VCM-X Cnfg ID 59**
> **HVAC Mode Enable**
> **Supply Air**
> **Press"0" 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**
> **Press "0" 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**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #7

> **VCM-X Cnfg ID 59**
> **Dehumidification**
> **Priority: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #8

> **VCM-X Cnfg ID 59**
> **Dehumidification**
> **Unoccupied: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #9

> **VCM-X Cnfg ID 59**
> **Outdoor Humidity**
> **Sensor: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #10

> **VCM-X Cnfg ID 59**
> **Indoor Humidity**
> **Sensor: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #11

> **VCM-X Cnfg ID 59**
> **Heat During**
> **Dehumidify: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #12

> **VCM-X Cnfg ID 59**
> **Economizer**
> **Control: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #13

> **VCM-X Cnfg ID 59**
> **Proof Of Flow**
> **Input: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #14

> **VCM-X Cnfg ID 59**
> **Mod Cooling: NO**
> **Mod Heating: NO**
> **[0=NO 1=YES]**

Modulating Cooling
☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".
Modulating Heating*
☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".
* Does not apply to ModGas heating.

Configuration Screen #15

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

☐ **0 = 0-10V**
☐ **1 = 2-10V**
Check one of the boxes above. Default is
"0 = 0-10V".

Configuration Screen #16

> **VCM-X Cnfg ID 59**
> **Mod Heating**
> **Rev Acting: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #17

> **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 #18

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

☐ **0 = 0-10V**
☐ **1 = 2-10V**
Check one of the boxes above. Default is
"0 = 0-10V".

Configuration Screen #19

> **VCM-X Cnfg ID 59**
> **Digital Compressor**
> **Signal 1-5V : NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #20

> **VCM-X Cnfg ID 59**
> **Mod Cooling**
> **Rev Acting: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #21

> **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 #22

> **VCMX-M/HP Cnfg ID 102**
> **Head Pressure**
> **Module Installed: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #23

> **VCMX-M/HP Cnfg ID 102**
> **Type of Head Pr.**
> **Module: 1 Condenser**
> **[0=1 1=2]**

☐ **0 = 1**
☐ **1 = 2**
Check one of the boxes above. Default is
"0 = 1 Condenser".

Configuration Screen #24

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

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = 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]**

☐ **0 = NO**
☐ **1 = 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 #25

> **VCM-X Cnfg ID 59**
> **Monitor Outdoor**
> **Air CFM: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #26

> **VCM-X Cnfg ID 59**
> **Control Outdoor**
> **Air CFM: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #27

> **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 #28

> **VCM-X Cnfg ID 59**
> **Monitor Return**
> **Air CFM: NO**
> **[0=NO 1=YES]**

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is
"0 = NO".

Configuration Screen #29

```
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 #30

```
VCM-X Cnfg ID 59
Monitor Supply
Air CFM: NO
[0=NO 1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #31

```
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 #32

```
VCM-X Cnfg ID 59
CO2 Sensor
Output Signal: 0
[0=None 1=mA 2=VDC]
```

☐ **0 = None**
☐ **1 = mA**
☐ **2 = VDC**
Check one of the boxes above. Default is "0 = None".

Configuration Screen #33

```
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_2 Sensor.

Configuration Screen #34

```
VCM-X Cnfg ID 59
Building Pressure
Mod Control:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #35

```
VCM-X Cnfg ID 59
Building Pressure
Rev Acting:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #36

```
VCM-X Cnfg ID 59
Building Pressure
Output Signal:  0
[0=0-10V  1=2-10V]
```

☐ **0 = 0-10V**
☐ **1 = 2-10V**
Check one of the boxes above. Default is "0 = 0-10V".

Configuration Screen #37

```
VCM-X Cnfg ID 59
Heat Pump
Control:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #38

```
VCM-X Cnfg ID 59
Rev. Valve Active
For:  Heat
[0=Heat  1=Cool]
```

☐ **0 = Heat**
☐ **1 = Cool**
Check one of the boxes above. Default is "0 = Heat".

Configuration Screen #39

```
VCM-X Cnfg ID 59
Emergency Shutdown
Input:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #40

```
VCM-X Cnfg ID 59
Return Air Bypass
Control:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **= YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #41

```
VCM-X Cnfg ID 59
Broadcast Outdoor
Temperature: NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #42

```
VCM-X Cnfg ID 59
Broadcast Outdoor
Humidity:  NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #43

```
VCM-X Cnfg ID 59
Broadcast Supply
Temperature: NO
[0=NO  1=YES]
```

☐ **0 = NO**
☐ **1 = YES**
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #44

```
VCM-X Cnfg ID 59
Broadcast Status
Fan & Heat:  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #45

```
VCM-X Cnfg ID 59
Broadcast Internal
Time Clock:  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #46

```
VCM-X Cnfg ID 59
Broadcast Internal
Schedule:  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #47

```
VCM-X Cnfg ID 59
Broadcast VAV Boxes
Force To Max :  YES
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "1 = YES".

Configuration Screen #48

```
VCM-X Cnfg ID 59
Broadcast VAV Boxes
Force To Fixed :  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #49

```
VCM-X Cnfg ID 59
1 HVAC Unit w/ Boxes
On Multiple Loops:  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #50

```
VCM-X Cnfg ID 59
Unit Uses R410A
Refrigerant:  NO
[0=NO  1=YES]
```

☐ 0 = NO
☐ 1 = YES
Check one of the boxes above. Default is "0 = NO".

Configuration Screen #51

```
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 #52

```
VCM-X Cnfg ID 59
Cooling Stage Delays
Stage Up: 3 Min
Stage Down: 1 Min
```
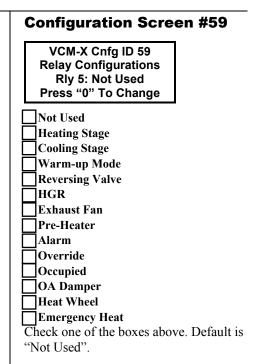
In the first box above enter a value from 3 to 15. The default value is "3".
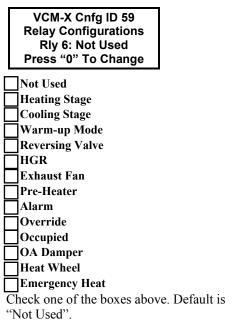In the second box above enter a value from 1 to 15. The default value is "1".

Configuration Screen #53

```
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 #54

```
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 #55

```
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 #56

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 2: Not Used
Press "0" 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 #57

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 3: Not Used
Press "0" 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 #58

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 4: Not Used
Press "0" 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 #59

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 5: Not Used
Press "0" 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 #60

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 6: Not Used
Press "0" 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 #61

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 7: Not Used
Press "0" 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

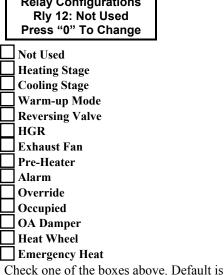Check one of the boxes above. Default is "Not Used".
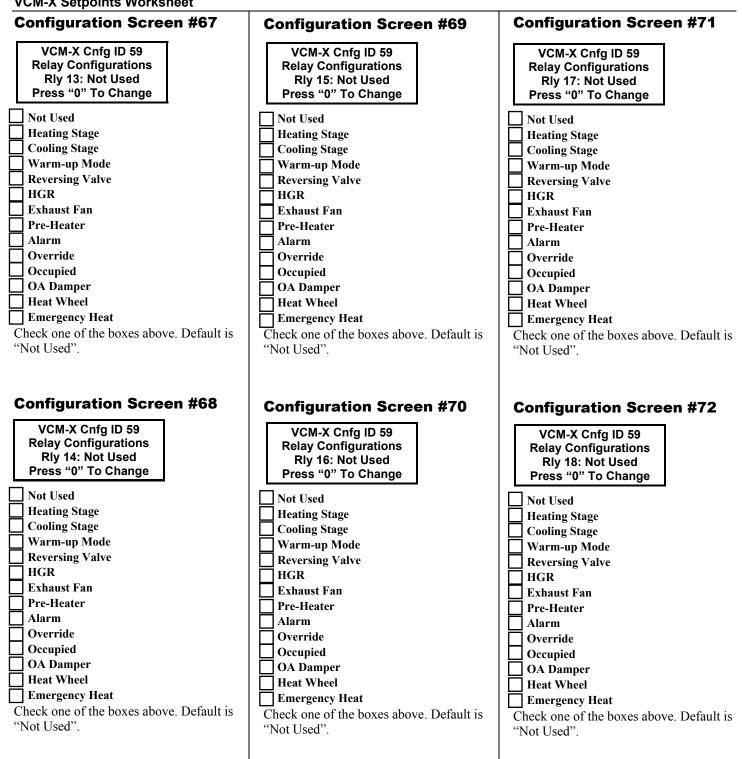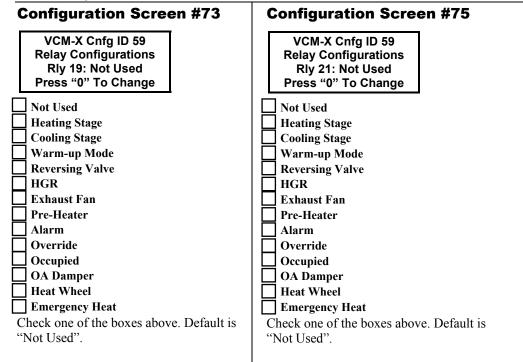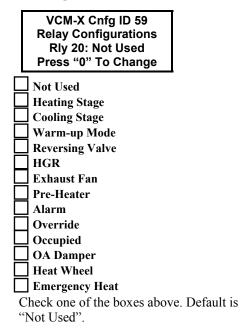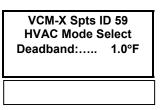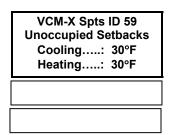
Configuration Screen #62

```
VCM-X Cnfg ID 59
Relay Configurations
Rly 8: Not Used
Press "0" 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 9: Not Used
Press "0" 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 10: Not Used
Press "0" 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 11: Not Used
Press "0" 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 12: Not Used
Press "0" 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 13: Not Used
Press "0" 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 14: Not Used
Press "0" 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 15: Not Used
Press "0" 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 16: Not Used
Press "0" 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 17: Not Used
Press "0" 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 18: Not Used
Press "0" 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 19: Not Used
Press "0" 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 20: Not Used
Press "0" 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 21: Not Used
Press "0" 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".

Setpoint Screen #1

```
VCM-X Spts ID 59
HVAC Mode Setpoints
Cooling......:  75°F
Heating......:  70°F
```
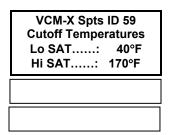
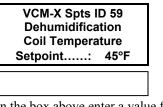In the first box above enter a value from 0 to 99. The default value is "75". In the second box above enter a value from 0 to 99. The default value is "70".

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 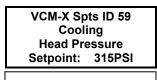Configuration Screen #4, then Line 4 will read Rst Limit. In the first box above enter a value from 40 to 80. The default value is "55". In the second box above enter a value from 40 to 150. The default value is "55".
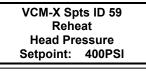
Setpoint Screen #5

```
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.

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

Setpoint Screen #20

```
VCM-X Spts ID 59
OA CFM CONTROL
OA CFM DB…:   10CFM
```
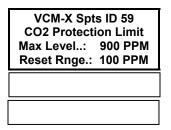
In the box above enter a value from 0 to 1000. The default value is "10".

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".
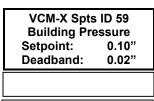
Setpoint Screen #22

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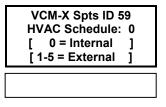
In the box above enter a value from 0 to 100. The default value is "0".

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".
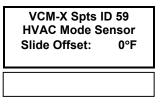
Setpoint Screen #30

```
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
```
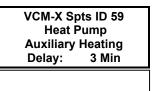
In the box above enter a value from 0 to 8.0. The default value is "2.0".
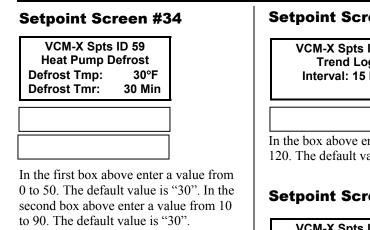
Setpoint Screen #32

```
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".

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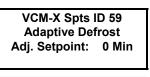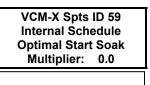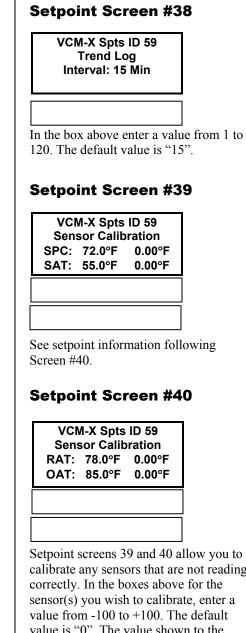
```
VCM-X Spts ID 59
Adaptive Defrost
Adj. Setpoint:    0 Min
```

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
Sensor Calibration
SPC:   72.0°F    0.00°F
SAT:   55.0°F    0.00°F
```

See setpoint information following Screen #40.

Setpoint Screen #40

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

Setpoint screens 39 and 40 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 #41

```
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.