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# VCCX2 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 Un To Be Configured Per This Setpoint Worksheet:	its	
		Form: VCCX2-ConfigSetpoints-1G-HF.PDF Based on: SS1088 v. 1.35 Date: 4-2-2020

#### **Configuration Screen #1**

VCCX2 Cnfg ID: 0001 Sensor Scaling Fahrenheit Use < or > To Change □ Fahrenheit

Celsius

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

#### **Configuration Screen #2**

VCCX2 RSM#1 RSM#2 Use < 0	Cnfg ID: 0001 Installed: NO Installed: NO or > To Change
RSM#1	RSM#2
$\Box$ NO	$\Box$ NO

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

#### **Configuration Screen #3**

VCCX2 Cı RSM#3 In RSM#4 In Use < or >	nfg ID: 0001 stalled: NO stalled: NO To Change
RSM#3	RSM#4
□ NO	$\Box$ NO
□ YES	$\Box$ YES
Check one of	f the boxes for each
category abo	ve. Default is "NO".
Configura	tion Screen #4
VCCX2 Cn	fg ID: 0001
RSMSD Ins	stalled: NO

RSM Ty Use < or >	/pe: VFD ⊳ To Change
RSMSD	RSM TYPE
$\Box$ NO	$\Box$ VFD
□ YES	DIGITAL
Check one of	the boxes for each category
above. Defau	Its are "NO" and "VFD".

#### **Configuration Screen #5**

	VCCX2 EM1 In 12RLY Use < or	Cnfg ID: 0001 stalled: NO / Install: NO r > To Change	
E	CM1	12 RLY	
	NO	$\Box$ NO	
	YES	□ YES	
С	heck one c	of the boxes above	e for each
se	election. D	efaults are "NO".	

Configuration Screen #6 VCCX2 Cnfg ID: 0001 MHGRV Installed: NO EXP Installed: NO

Use < or >	> To Change	
MHGRV	EXP	
$\Box$ NO	$\Box$ NO	
□ YES	$\Box$ YES	
Check one of	the boxes for e	ach category
above. Defaul	lts are "NO".	

#### **Configuration Screen #7**

VCCX2 Cn	fg ID: 0001 stalled: NO	]
XWR#2 Ins	stalled: NO	
Use < or >	To Change	
MODGAS	XWR#2	
$\Box$ NO	$\Box$ NO	
$\Box$ YES	$\Box$ YES	
Check one of t	he boxes for a	each category
above. Default	s are "NO".	
Configura	tion Scre	en #8
		_

VCCX2 Cnfg ID: 0001 Preheat-X Installed: NO Use < or > To Change

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

#### **Configuration Screen #9**

VCCX2 Cnfg ID: 0001
HVAC Source
Supply Air
Use < or > To Change

□ Supply Air

Supply Air/Tempering
Outdoor Air
Return Air
Space Temperature
Space Temperature with High % OA
Single Zone VAV
Check one of the boxes above. Default is "Supply Air".
Configuration Screen #10

VCCX2 Cnfg ID: 0001 HVAC Mode Set By Remote Contact: NO Use < or > To Change

□ NO

□ YES

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

#### **Configuration Screen #11**

VCCX2 Cnfg ID: 0001 SAT Reset Source No Reset Use < or > To Change

□ No Reset

□ Space Temperature

□ Outdoor Temperature

- □ Return Air Temperature
- □ Fan VFD Signal
- □ Remote Voltage

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

#### **Configuration Screen #12**

VCCX2 Cnfg ID: 0001 Reset Interval Rate: 30 s [1 - 255 Seconds]

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

#### **Configuration Screen #13**

VCCX2 Cnfg ID: 0001 Space Sensor Type None Use < or > To Change

- □ None
- □ Analog
- □ E-BUS Temp/ RH
- □ Receive Broadcast
- □ Remote Sensor
- □ Use BACnet Temp/RH

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

#### **Configuration Screen #14**

VCCX2 Cnfg ID: 0001 Read Space RH Broadcast: NO Use < or > To Change

 $\Box$  YES

 $\Box$  NO

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





Enter the address. Default is "0".

# **Configuration Screen #16**

VCCX2 Cnfg ID: 0001 E-BUS SPC/RH Sensor Enable Alarm LED

#### Enable Alarm LED

□ **Disable Alarm LED** Check one of the boxes above. Default is "Enable Alarm LED".

#### **Configuration Screen #17**

VCCX2 Cnfg ID: 0001 Outdoor Sensor Type None Use < or > To Change

□ None

□ Analog

 $\Box$  E-BUS OAT/ RH

□ Receive Broadcast

□ Use BACnet OAT/RH

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

#### **Configuration Screen #18**

VCCX2 Cnfg ID: 0001 Return Sensor Type NONE Use < or > To Change

□ None

- □ Analog
- □ E-BUS Temp/RH

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

#### **Configuration Screen #19**

VCCX2 Cnfg ID: 0001
Static Pr Control
Fan VFD / SZ VAV
Use < or > To Change

□ None

 Fan VFD / SZ VAV
 Bypass Damper
 Check one of the boxes above. Default is "Fan VFD / SZ VAV".

#### **Configuration Screen #20**

VCCX2 Cnfg ID: 0001
Static/Fan Control
Rate: 10 s
[ 1 – 30 Seconds ]

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

#### **Configuration Screen #21**

VCCX2 Cnfg ID: 0001
Static Pr Control
Max Adjust: 5%
[ 1-30% ]

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

# **Configuration Screen #22**

Min Volte: 0.0 VDC
Max Volts: 10.0 VDC

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

#### **Configuration Screen #23 Configuration Screen #28 Configuration Screen #33** VCCX2 Cnfg ID: 0001 VCCX2 Cnfq ID: 0001 VCCX2 Cnfg ID: 0001 Purge Mode Fan Cycle Mode **Chilled Water Valve** Delay: 30 s NO **Direct Acting** [ 0 - 900 Seconds ] Use < or > To Change Use < or > To Change □ Direct Acting □ YES □ Reverse Acting Enter 0 to 900 seconds above. Default is Check one of the boxes above. Default is Check one of the boxes above. Default is "30 seconds". "NO". "Direct Acting". **Configuration Screen #29 Configuration Screen #24 Configuration Screen #34** VCCX2 Cnfg ID: 0001 VCCX2 Cnfq ID: 0001 VCCX2 Cnfq ID: 0001 **Heat Type** Fan Runs During Mech Heat/Cool No Heat Unoccupied: NO Alarm Delay: 15 Min Use < or > To Change Use < or > To Change No Heat $\square$ NO □ Staged Only □ YES □ Mod Heat Only Enter 0 to 240 minutes above. Default is Check one of the boxes above. Default is □ Modgas-x Then Staged "15 Minutes". "NO". □ Mod Heat Then Staged Check one of the boxes above. Default is **Configuration Screen #35 Configuration Screen #25** "No Heat". VCCX2 Cnfq ID: 0001 VCCX2 Cnfg ID: 0001 **Configuration Screen #30 Econo Control Type Supply Fan Proving No Economizer** NO VCCX2 Cnfg ID: 0001 Use < or > To Change Use < or > To Change Mod Heat Volt Output Min Pos Volts: 0.0 □ No Economizer Max Pos Volts: 10.0 □ Standard Economizer □ YES □ IAQ Economizer (Economizer with Check one of the boxes above. Default is CO<sub>2</sub> Override) "NO". Check one of the boxes above. Default is "No Economizer". **Configuration Screen #26** In the first box, enter 0 to 10. Default is "0 Volts". In the second box, enter 0 to **Configuration Screen #36** VCCX2 Cnfg ID: 0001 10. Default is "10 Volts." **Return Fan Proving** VCCX2 Cnfg ID: 0001 No Return Fan POF Title 24 **Configuration Screen #31** Use < or > To Change **Economizer: NO** VCCX2 Cnfg ID: 0001 Use < or > To Change No Return Fan POF Cool Type □ Return/Exhaust POF $\square$ NO **Refrigeration Module** □ Return POF w/Supply Fan On Use < or > To Change □ YES Check one of the boxes above. Default is Check one of the boxes above. Default is "No Return Fan POF". □ Refrigeration Module "NO". □ Staged Only □ Mod Only **Configuration Screen #27 Configuration Screen #37** Check one of the boxes above. Default is "Refrigeration Module". VCCX2 Cnfg ID: 0001 VCCX2 Cnfg ID: 0001 Fan Starting Econo Control In Delay: -1 s **Configuration Screen #32** Unoc Mode: NO [ -1 = Unit Addr x 5 ] Use < or > To Change VCCX2 Cnfg ID: 0001 $\Box$ NO **Chilled Water Valve** 0-10VDC $\Box$ YES Enter -1 to 240 seconds above. Default is Use < or > To Change Check one of the boxes above. Default is "-1 seconds". -1 = multiply controller "NO". address by 5 seconds. □ 0-10 VDC □ 2-10 VDC Check one of the boxes above. Default is

"0-10 VDC".

#### VCCX2 Configuration Worksheet **Configuration Screen #38 Configuration Screen #41 Configuration Screen #45** VCCX2 Cnfq ID: 0001 VCCX2 Cnfg ID: 0001 VCCX2 Cnfg ID: 0001 Econo Relay On When **Econo Enable Source Building Pr. Sensor** Drvbulb Econo Above Min Pos None Use < or > To Change Use < or > To Change Use < or > To Change □ Drybulb **Econo Above Min Pos** □ None □ Wetbulb (OA RH Sensor needed) □ Above Activation % □ Analog □ Dewpoint (OA RH Sensor needed) Check one of the boxes above. Default is □ Receive Broadcast □ Comparative Enthalpy (E-BUS OA "Econo Above Min Pos". □ Use BACnet Reading RH & E-BUS RA RH Sensors needed) Check one of the boxes above. Default is Check one of the boxes above. Default is "None". **Configuration Screen #42** "Drybulb". VCCX2 Cnfq ID: 0001 **Configuration Screen #46** Economizer Relay **Configuration Screen #39 Activation Level** VCCX2 Cnfg ID: 0001 Setpoint: 15% VCCX2 Cnfg ID: 0001 **Building Pr. Control Economizer Control** None Rate: 10 s Use < or > To Change Prop Window: 10.0°F In the box, enter 0 to 100. Default is "15 □ None percent". □ On/Off Exhaust Relay □ Modulating Exhaust **Configuration Screen #43** □ Outdoor Air Damper □ Supply Fan In the first box, enter 1 to 30. Default is VCCX2 Cnfg ID: 0001 □ Duct Static Control "10 seconds". In the second box, enter 1.0 Ht Wheel Enabled Bv Check one of the boxes above. Default is to 30.0. Default is "10.0." **Econo at Min Pos** "None" Use < or > To Change **Configuration Screen #47 Configuration Screen #40 Econo at Min Pos OA Enthalpy** VCCX2 Cnfg ID: 0001 VCCX2 Cnfg ID: 0001 Check one of the boxes above. Default is **Building Pr. Control** Econo Voltage Output "Econo at Min Pos". Rate: 10 Sec Min Volts: 2.0 VDC [ 1 - 30 Seconds ] Max Volts: 10.0 VDC **Configuration Screen #44** VCCX2 Cnfg ID: 0001 Enter 1 to 30 seconds. Default is "10 CO2 Sensor Installed seconds". In the first box, enter 0 to 10. Default is None **Configuration Screen #48** Use < or > To Change "2 VDC". In the second box, enter 0 to 10. Default is "10 VDC." VCCX2 Cnfg ID: 0001 □ None **Building Pr. Control E-Bus CO2** Max Adjust: 5% □ Receive Broadcast [ 1 – 30% ] □ Future Use □ Use BACnet CO2 Check one of the boxes above. Enter 1 to 30. Default is "5 percent". Default is "None".

#### **Configuration Screen #49**

VCCX2 Cnfg ID: 0001 Exh Fan Volts Min Volts: 0.0 VDC Max Volts: 10.0 VDC

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

# **Configuration Screen #50**

VCCX2 Cnfq ID: 0001 Heat Pump Config No Heat Pump Use < or > To Change]

- □ No Heat Pump
- □ Air/Air Fail to Heat
- □ Air/Air Fail to Cool
- □ WSHP Fail to Heat
- □ WSHP Fail to Cool
- □ Waterside Condenser

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

# **Configuration Screen #51**

VCCX2 Cnfg ID: 0001 WSHP Glycol Percentage: 0% Use < or > To Change

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

# **Configuration Screen #52**

VCCX2 Cnfg ID: 0001 Aux Heat Type No Aux Heat Use < or > To Change

□ No Aux Heat □ Staged Only □ Mod Heat Only □ Modgas-x Then Staged □ Mod Heat Then Staged Check one of the boxes above. Default is "No Aux Heat".

#### **Configuration Screen #53**

VCCX2 Cnfg ID: 0001 Dehum, Control None Use < or > To Change

- □ None
- □ Only Occupied Vent
- □ Only Vent Anytime
- □ All Modes Occupied
- □ All Modes Anvtime

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

# **Configuration Screen #54**

VCCX2 Cnfg ID: 0001 **Humidity Control** Sensor: Space Use < or > To Change

□ Space

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

# **Configuration Screen #55**

VCCX2 Cnfg ID: 0001 Reheat Control None Use < or > To Change

- □ None
- □ On/Off HGR Relay
- □ Modulating HGR
- □ Unit Heat

□ Mod HGR + Unit Heat □ On/Off HGR + Unit Heat

□ Mod HGR + Aux Heat Check one of the boxes above. Default is "None".

#### **Configuration Screen #56**

VCCX2 Cnfg ID: 0001 Airflow Station: Paragon Use < or > To Change

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

#### **Configuration Screen #57**

VCCX2 Cnfg ID: 0001 Monitor OA Airflow NO Use < or > To Change

 $\Box$  NO  $\Box$  YES

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

#### **Configuration Screen #58**

VCCX2 Cnfg ID: 0001 **Control Outdoor Air** CFM w/Damper: NO Use < or > To Change

#### $\square$ NO

 $\square$  YES Check one of the boxes above. Default is "NO"

#### **Configuration Screen #59**

VCCX2 Cnfg ID: 0001 **Control Outdoor Air** CFM w/VFD: NO Use < or > To Change

 $\square$  NO

 $\Box$  YES

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

# **Configuration Screen #60**

VCCX2 Cnfg ID: 0001 **Outdoor Airflow Duct** Size: 0.00 [In Square Feet]

Enter the inside area in sq. ft. of the OA duct/damper, accurate to two decimal places. Range is 0-200. Default is "0".

#### **Configuration Screen #61**

VCCX2 Cnfg ID: 0001 **Monitor SA Airflow** NO Use < or > To Change

 $\square$  NO

□ YES

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

#### **Configuration Screen #62**

VCCX2 Cnfg ID: 0001 Supply Airflow Duct Size: 0.00 [ In Square Feet ]

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

#### **Configuration Screen #63**

VCCX2 Cnfg ID: 0001 Monitor RA Airflow NO Use < or > To Change

□ YES

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





#### VCCX2 Configuration Worksheet

Relays #2 through #24 can be individually configured. By using the 7 relay outputs available on the VCCX2 Controller the 5 relays on the VCC-X EM1 Expansion Module, and the 12 Relays on the 12 Relay E-BUS Expansion Module, you have the ability to configure up to a combined total of 24 Heating Stages, Cooling Stages, and the other options listed above. Only the Heating and Cooling relays can be configured with multiple outputs. If any other option is selected more than once, it will simply activate redundant relays but no multiple staging will occur.

#### **Configuration Screen #89**

VCCX2 Cnfq ID: 0001 **On-Board Relay 2** Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage □ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down □ Reheat □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain Check one of the boxes above.

#### **Configuration Screen #90**

VCCX2 Cnfg ID: 0001 On-Board Relay 3 Not Used Use < or > To Change

- □ Not Used (Default)
- Cooling Stage
- □ Heating Stage
- □ Heat Pump Aux Heat
- □ Heat Pump Emergency Heat
- Mod Heat Enable

□ Mod Cool Enable □ Warm-up / Cool-Down Reheat □ Preheat □ Low Ambient 🗌 Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #91**

VCCX2 Cnfg ID: 0001 **On-Board Relay 4** Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable 🗆 Warm-up / Cool-Down **Reheat** □ Preheat □ Low Ambient Exhaust Fan □ Economizer ☐ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #92**

VCCX2 Cnfg ID: 0001 On-Board Relay 5 Not Used Use < or > To Change

□ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down □ Reheat □ Preheat □ Low Ambient Exhaust Fan □ Economizer ☐ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater

Check one of the boxes above.

□ Sump Pump Drain

#### **Configuration Screen #93**

VCCX2 Cnfg ID: 0001 **On-Board Relav 6** Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down **Reheat** □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

Configuration Screen #94	□ Condenser Pump □ Sump Heater
VCCX2 Cnfg ID: 0001	Sump Pump Drain
On-Board Relay 7	
Not Used	Check one of the boxes above.
Use < or > To Change	
Not Used (Default)	Configuration Screen
Cooling Stage	VCCX2 Cpfg ID: 0001
] Heating Stage	FM1 Relay 1
🛛 Heat Pump Aux Heat	Not Used
] Heat Pump Emergency Heat	Use < or > To Change
] Mod Heat Enable	
☐ Mod Cool Enable	$\square$ Not Used (Default)
🗌 Warm-up / Cool-Down	□ Cooling Stage
☐ Reheat	□ Heating Stage
Preheat	☐ Heat Pump Aux Heat
Low Ambient	□ Heat Pump Emergency Heat
🗌 Exhaust Fan	□ Mod Heat Enable
☐ Economizer	□ Mod Cool Enable
<b>Heat Wheel</b>	🗌 Warm-up / Cool-Down
Occupied Mode	□ Reheat
Override Mode	Preheat
□ Alarm Active	□ Low Ambient
☐ A1 Comp Status	Exhaust Fan
A2 Comp Status	Economizer
B1 Comp Status	☐ Heat Wheel
B2 Comp Status	□ Occupied Mode
Condenser Pump	Override Mode
Sump Heater	□ Alarm Active
🗆 Sump Pump Drain	□ A1 Comp Status
-	□ A2 Comp Status
Check one of the boxes above.	□ B1 Comp Status
	□ B2 Comp Status
	🗆 Condenser Pump

# **Configuration Screen #95**

	VCCX2 Cnfg ID: 0001
	On-Board Relay 8
	Not Used
	Use < or > To Change
C	] Not Used (Default)
C	Cooling Stage
	] Heating Stage
	] Heat Pump Aux Heat
	] Heat Pump Emergency Heat
	] Mod Heat Enable
	] Mod Cool Enable
	] Warm-up / Cool-Down
	Reheat
	] Preheat
	] Low Ambient
	] Exhaust Fan
	] Economizer
	] Heat Wheel
	Occupied Mode
	<b>Override Mode</b>
	Alarm Active
	A1 Comp Status
C	A2 Comp Status
	B1 Comp Status
C	B2 Comp Status

96 □ Sump Heater □ Sump Pump Drain Check one of the boxes above.

#### **Configuration Screen #97**

VCCX2 Cnfq ID: 0001 EM1 Relay 2 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable 🗆 Warm-up / Cool-Down □ Reheat □ Preheat

- □ Low Ambient
- **Exhaust Fan**
- □ Economizer
- ☐ Heat Wheel
- □ Occupied Mode
- □ Override Mode

- □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater
- □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #98**

VCCX2 Cnfg ID: 0001 EM1 Relay 3 Not Used Use < or > To Change Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down □ Reheat □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status

- □ B1 Comp Status
- **B2** Comp Status
- □ Condenser Pump
- □ Sump Heater
- □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #99**



#### VCCX2 Configuration Worksheet

- Exhaust Fan
  Economizer
  Heat Wheel
  Occupied Mode
  Override Mode
  Alarm Active
  A1 Comp Status
  A2 Comp Status
  B1 Comp Status
  B2 Comp Status
  Condenser Pump
  Sump Heater
- □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #100**

VCCX2 Cnfg ID: 0001 EM1 Relay 5 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage □ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat **Mod Heat Enable** □ Mod Cool Enable □ Warm-up / Cool-Down **Reheat**  Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain Check one of the boxes above.

# **Configuration Screen #101**

VCCX2 Cnfg ID: 0001 12 Rly Bd 1 Not Used Use < or > To Change

□ Not Used (Default)

- □ Cooling Stage
- $\Box$  Heating Stage
- □ Heat Pump Aux Heat
- $\hfill\square$  Heat Pump Emergency Heat
- □ Mod Heat Enable

□ Mod Cool Enable □ Warm-up / Cool-Down Reheat □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #102**

VCCX2 Cnfg ID: 0001 12 Rly Bd 2 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down **Reheat** □ Preheat □ Low Ambient **Exhaust Fan** □ Economizer ☐ Heat Wheel □ Occupied Mode **Override Mode** □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain Check one of the boxes above.

# **Configuration Screen #103**

VCCX2 Cnfg ID: 0001 12 Rly Bd 3 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable □ Mod Cool Enable □ Warm-up / Cool-Down **Reheat** □ Preheat □ Low Ambient **Exhaust Fan** □ Economizer □ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #104**

VCCX2 Cnfg ID: 0001
12 Rly Bd 4
Not Used
Use < or > To Change
□ Not Used (Default)
□ Cooling Stage
Heating Stage
Heat Pump Aux Heat
□ Heat Pump Emergency Heat
Mod Heat Enable
□ Mod Cool Enable
🗌 Warm-up / Cool-Down
□ Reheat
Preheat
□ Low Ambient
🗌 Exhaust Fan
Economizer
□ Heat Wheel
□ Occupied Mode
Override Mode
□ Alarm Active
□ A1 Comp Status
□ A2 Comp Status
□ B1 Comp Status
□ B2 Comp Status

#### **VCCX2** Configuration Worksheet

- $\Box$  Condenser Pump
- $\Box$  Sump Heater
- 🗌 Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #105**

VCCX2 Cnfg ID: 0001 12 Rly Bd 5 Not Used Use < or > To Change

Not Used (Default)
Cooling Stage
Heating Stage
Heat Pump Aux Heat
Heat Pump Emergency Heat
Mod Heat Enable
Mod Cool Enable
Warm-up / Cool-Down
Reheat
Preheat
Low Ambient
Exhaust Fan
Economizer
Heat Wheel
Occupied Mode
Override Mode
Alarm Active
A1 Comp Status
A2 Comp Status
B1 Comp Status
B2 Comp Status
Condenser Pump
Sump Heater
Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #106**

VCCX2 Cnfg ID	: 0001
12 RIy Bd	6
Not Used	
Use < or > To C	hange
□ Not Used (Default	t)
Cooling Stage	
□ Heating Stage	
🗆 Heat Pump Aux H	leat
□ Heat Pump Emer	gency Heat
□ Mod Heat Enable	
$\Box$ Mod Cool Enable	
🗌 Warm-up / Cool-l	Down
□ Reheat	
Preheat	
□ Low Ambient	
🗌 Exhaust Fan	
Economizer	
☐ Heat Wheel	
□ Occupied Mode	
Override Mode	

□ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain Check one of the boxes above. **Configuration Screen #107** VCCX2 Cnfg ID: 0001 12 Rly Bd 7 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage ☐ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat **Mod Heat Enable** □ Mod Cool Enable □ Warm-up / Cool-Down **Reheat** □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status **B2** Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #108**

VCCX2 Cnfg ID: 0001
12 RIy Bd 8
Not Used
Use < or > To Change
□ Not Used (Default)
Cooling Stage
Heating Stage
🗌 Heat Pump Aux Heat
Heat Pump Emergency Heat
Mod Heat Enable
Mod Cool Enable
🗌 Warm-up / Cool-Down
🗌 Reheat
Preheat
Low Ambient

- Exhaust Fan
  Economizer
  Heat Wheel
  Occupied Mode
  Override Mode
  Alarm Active
  A1 Comp Status
  A2 Comp Status
  B1 Comp Status
  B2 Comp Status
  Condenser Pump
  Sump Heater
- □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #109**

VCCX2 Cnfq ID: 0001 12 Rly Bd 9 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage □ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat **Mod Heat Enable** □ Mod Cool Enable □ Warm-up / Cool-Down □ Reheat □ Preheat □ Low Ambient **Exhaust Fan** □ Economizer ☐ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #110** VCCX2 Cnfg ID: 0001 12 Rly Bd 10 Not Used Use < or > To Change □ Not Used (Default) □ Cooling Stage □ Heating Stage □ Heat Pump Aux Heat □ Heat Pump Emergency Heat □ Mod Heat Enable $\Box$ Mod Cool Enable □ Warm-up / Cool-Down □ Reheat □ Preheat □ Low Ambient Exhaust Fan □ Economizer □ Heat Wheel □ Occupied Mode □ Override Mode □ Alarm Active □ A1 Comp Status □ A2 Comp Status □ B1 Comp Status □ B2 Comp Status □ Condenser Pump □ Sump Heater □ Sump Pump Drain Check one of the boxes above.

#### **Configuration Screen #111**

VCCX2 Cnfg ID: 0001	
Not Used	
Use < or > To Change	
□ Not Used (Default)	
Cooling Stage	
☐ Heating Stage	
🗆 Heat Pump Aux Heat	
☐ Heat Pump Emergency Heat	
<b>Mod Heat Enable</b>	
<b>Mod Cool Enable</b>	
🗌 Warm-up / Cool-Down	
☐ Reheat	
☐ Preheat	
□ Low Ambient	
🗌 Exhaust Fan	
<b>Economizer</b>	
☐ Heat Wheel	
Occupied Mode	
<b>Override Mode</b>	
Alarm Active	
A1 Comp Status	
A2 Comp Status	
B1 Comp Status	
<b>B2</b> Comp Status	

Condenser Pump
 Sump Heater
 Sump Pump Drain

Check one of the boxes above.

#### **Configuration Screen #112**

_	
Γ	VCCX2 Cnfg ID: 0001 12 Rly Bd 12
	Not Used
	Use < or > To Change
	Not Used (Default)
	Cooling Stage
	Heating Stage
	Heat Pump Aux Heat
	Heat Pump Emergency Heat
	Mod Heat Enable
	Mod Cool Enable
	Warm-up / Cool-Down
	Reheat
	Preheat
	Low Ambient
	Exhaust Fan
	Economizer
	Heat Wheel
	Occupied Mode
	Override Mode
	Alarm Active
	A1 Comp Status
	A2 Comp Status
	B1 Comp Status
	B2 Comp Status
	Condenser Pump
	Sump Heater
	Sump Pump Drain

Check one of the boxes above.

#### **Setpoint Screen #1**



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

#### Setpoint Screen #2



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

# Setpoint Screen #3



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

#### Setpoint Screen #4



In the box above enter a value from 0 to 10. The default value is "1".

#### Setpoint Screen #5



If using VCCX2 v. 1.15 or older, in the first box above, enter a value from 0.0 to 10.0. The default value is "0.0". If using VCCX2 v. 1.16 or newer, in the second box above, enter a value from 0 to 10. The default value is "0".

#### Setpoint Screens #6 - #8

VCCX2 Spts ID: 0001 Calibrate Slide Adj Put At Up Pos: XXX Enter # Shown: XXX

VCCX2 Spts ID: 0001 Calibrate Slide Adj At Middle Pos: XXX Enter # Shown: XXX

VCCX2 Spts ID: 0001 Calibrate Slide Adj At Down Pos: XXX Enter # Shown: XXX

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

#### **Setpoint Screen #9**



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

#### Setpoint Screens #10 & 11

VCCX2 Spts ID: 0001 Controlling Sensor High Alarm Offset Setpoint: 30.0°F

VCCX2 Spts ID: 0001 Controlling Sensor Low Alarm Offset Setpoint: 30.0°F

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

#### Setpoint Screen #12

VCCX2 Spts ID: 0001 Outdoor Dewpoint Setpoint: 55.0°F	
In the box above enter a valu 80. The default value is "55'	ue from 35 to

#### Setpoint Screen #13



In the first box above enter a value from 0 to 100. The default value is "50". In the second box above enter a value from 0 to 100. The default value is "60". This screen can be used to set the Indoor (Space or Return Air) Dehumidification Enable and Disable Setpoints and to set the Indoor Humidity Reset Range used to reset the Coil Suction (Saturation) Temperature Setpoint during Dehumidification. Please see the instructions for *Setpoint Screen #13* in the VCCX2 Controller Operator Interfaces SD Technical Guide for detailed information.



VCCX2 Spts ID: 0001

VFD Speed Limits

Min Cool: 30%

Min Vent: 20%

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

# Setpoint Screen #15



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

# Setpoint Screen #16



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



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

#### Setpoint Screen #19



In the first box above enter a value from 0 to 100. The default value is "50". In the second box above enter a value from 0 to 100. The default value is "100". If this unit is configured for Single Zone VAV operation, and you have a modulating heat source that will allow VAV heating, then the Min Heat Percentage will be the fan speed at

#### both be set at the same value which represents the constant speed you want the fan to operate at during the Heating Mode.

#### Setpoint Screen #20

VCCX2 Spts ID: 0001 Supply Air Cooling Setpoint: 55.0°F Hi Rst Limit: 55.0°F

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

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

#### Setpoint Screen #21



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

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #21* in the *VCCX2 Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 0 to 150. The default value is "75". In the second box above enter a value from -30 to 150. The default value is "70".

#### **Setpoint Screen #22**



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

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

#### **Setpoint Screen #23**



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

If a SAT Reset has been configured, please see the instructions for *Setpoint Screen #23* in the *VCCX2 Controller Operator Interfaces SD Technical Guide* for detailed information.

In the first box above enter a value from 0 to 150. The default value is "75". In the second box above enter a value from -30 to 150. The default value is "70".

#### **Setpoint Screen #24**

VCCX2 Spts ID: 0001 Stage Off Window Cooling: 5.0°F Heating: 5.0°F

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

#### **Setpoint Screen #25**

VCCX2 Spts ID: 0001 Mod Heat Prop Window: 10.0°F Time Period: 30sec

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



#### Setpoint Screen #34

VCCX2 Spts ID: 0001 Sump Enable Temps Heater: 40°F Drain: 32°F

In the first box above enter a value from 30 to 60. Default value is "40". In the second box above enter a value from 32 to 40. Default value is "32".

#### Setpoint Screen #35 **Setpoint Screen #39** Setpoint Screen #43 VCCX2 Spts ID: 0001 VCCX2 Spts ID: 0001 VCCX2 Spts ID: 0001 Max Econo Pos In Altitude **Economizer Enable** Heat Mode: 50% Setpoint: 1000 Ft Setpoint: 55.0°F In the box above enter a value from 0 to In the box above enter a value from -30 In the box above enter a value from 0 to 100. The default value is "50". to 80. The default value is "55". 15.000. The default value is "1000". **Setpoint Screen #40** Setpoint Screen #36 VCCX2 Spts ID: 0001 Setpoint Screen #44 Min. Outdoor Airflow

Setpoint: 2.00 kCFM

Deadband: 200 CFM



In the first box above enter a value from -25.0 to 35.0. The default value is "28.0".In the second box above enter a value from 0.1 to 3.0. The default value is "0.5".

# Setpoint Screen #37

VCCX2 Spts ID: 0001 WSE Entering H2O Control DB: 3.0°F

In the box above enter a value from 0 to 20. The default value is "3".

# Setpoint Screen #38

VCCX2 Spts ID: 0001 Economizer Min Damper Pos: 10%

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

In the first box above enter a value from .1 to 200. The default value is "2". In the second box above enter a value from 10 to 9999. The default value is "200".

# Setpoint Screen #41

VCCX2 Spts ID: 0001 High CO2: Max OA kCFM: 2.0 Max Econo Pos: 50%

In the first box above, enter a value from .10 to 200. The default value is "2". In the second box above enter a value from 0 to 100. (Note: The minimum is whatever value you set for Economizer Min. Damper Position on *Setpoint Screen #38.*) The default value is "50".

#### Setpoint Screen #42



In the first box above enter a value from 0 to 2000. The default value is "900". In the second box above enter a value from 0 to 2000. The default value is "1000".

VCCX2 Spts ID: 0001 Building Pressure Setpoint: 0.02"WG Deadband: 0.01"WG

**Building Pressure:** In the first box above enter a value from -.2 to .2. The default value is ".02". In the second box above enter a value from .01 to .1. The default value is ".01".

**Exhaust:** In the first box above enter a value from .1 to 3.0. The default value is "1.5". In the second box above enter a value from .01 to .5. The default value is ".1".

# Setpoint Screen #45

VCCX2 Spts ID: 0001 OAT Lockouts Comp Cool: 50.0°F Comp Heat: 35.0°F

In the first box above enter a value from -30 to 100. The default value is "50". In the second box above enter a value from -30 to 100. The default value is "35".



0.0 to 33.0. The default value is "30.0". In the second box above enter a value from 0.0 to 33.0. The default value is "20.0".

Setpoint Screen #59	Setpoint Screen #61	Setpoint Screens #63-68
VCCX2 Spts ID: 0001 Return Air Bypass Damper Factor Setpoint: 40% In the box above enter a value from 0 to 100. The default value is "40".	VCCX2 Spts ID: 0001 Preheat-X Spts Vent Mode: 50.0°F	Setpoint Screens #05 through #06 allow you to calibrate any sensors that are not reading correctly. In the boxes below for the sensor(s) you wish to calibrate, enter a value from -100 to +100 (-500 to +500 for the CO <sub>2</sub> Sensor). The default value is "0". The current value shown on Line 3 is the actual temperature the sensor is reading plus the offset temperature amount you onter
Setpoint Screen #60 VCCX2 Spts ID: 0001 Preheat-X Spts Cooling Mode: 40.0°F	<ul><li>enter a value from 35 to 90. The default value is "50".</li><li>If using Preheat-EXT, in the box above enter a value from 0 to 90. The default value is "50".</li></ul>	VCCX2 Spts ID: 0001 Space Sensor Cal Current: 0.0°F Offset: 0.0°F
If using Preheat-X, in the first box above enter a value from 35 to 90. The default	Setpoint Screen #62 VCCX2 Spts ID: 0001 Superheat Setpoint: 15	VCCX2 Spts ID: 0001 Return Sensor Cal Current: 0.0°F Offset: 0.0°F
<ul><li>value is "40". In the second box above enter a value from 35 to 90. The default value is "60".</li><li>If using Preheat-EXT, in the first box above enter a value from 0 to 90. The default value is "40". In the second box above enter a value from 0 to 90. The default value is "60".</li></ul>	In the box above enter a value from 1 to 30. The default value is "15".	VCCX2 Spts ID: 0001 SAT Sensor Cal Current: 0.0°F Offset: 0.0°F
		VCCX2 Spts ID: 0001 OAT Sensor Cal Current: 0.0°F Offset: 0.0°F
		VCCX2 Spts ID: 0001 Entering H2O Cal Current: 0.0°F Offset: 0.0°F

VCCX2 Spts ID: 0001 CO2 Sensor Cal Current: 0ppm Offset: 0ppm

# RSMV & RSMV-HP CONFIGURATION SCREENS

#### **RSMV #1 Condenser Option**

RSM#1 Configuration Condenser Options Push > for options Use < or > to CHANGE

2 Cond per RSMV
1 Cond per RSMV
1 Cond for 2 RSMVs
1 Cond for 3 RSMVs
Reserved
1 Cond for 4 RSMVs
Check one of the boxes above.

#### RSMV #2, #3, #4 Condenser Options

2 Cond per RSMV
1 Cond per RSMV
1 Cond for 2 RSMVs
1 Cond for 3 RSMVs
Reserved
1 Cond for 4 RSMVs
Choose the same Condenser option you chose for RSMV #1 for RSMV #2, #3,

chose for RSMV #1 for RSMV #2, #3, and #4 from the list above, depending on how many RSMVs you are using. If you choose any other option than the one chosen for RSMV #1, the RSMV will not run properly.

# RSMV #1 SS1072 v3.xx and Higher Configuration

RSM#1 v.3XX Only RSMV A Comp Config Not Configured Use < or > to CHANGE

□ Not Configured □ 1 Danfoss CDS803 VFD □ 1 Danfoss CDS303 VFD □ 1 Copeland Mod VFD □ 1 Copeland Pack VFD □ 1=CDS803VFD 2=On/Off □ 1=CDS803VFD 2=2-Step □ 1=CDS303VFD 2=On/Off □ 1=CDS303VFD 2=2-Step □ 1=Cplnd VFD 2=On/Off □ 1=Cplnd VFD 2=2-Step 1 Bitzer VFD 1 Bitzer On/Off □ 1=Bitzr VFD 2=On/Off □ 1 & 2=Bitzer On/Off Check one of the boxes above. Default is "Not Configured".

#### **RSMV #1 Evap Coil Config**

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

Uses EXV-1 Only
 Uses EXV-1 & EXV-2
 Check one of the boxes above. Default is "Uses EXV-1 Only".

# RSMV #1 Heat Pump Expansion Valve Config

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

Uses EXV-3 Only
 Uses EXV-3 & EXV-4
 Check one of the boxes above. Default is "Uses EXV-3 Only".

# RSMV #1 Single Compressor Startup

RSM 1 Configuration Single Comp Startup No Use < or > to CHANGE

□ No □ Yes Check one of the boxes above. Default is "No."

# **RSMV #1 BIN4 Config 1**

RSM 1 Configuration RSMV A BIN4 Config1 No Emergency Shutdown Use < or > to CHANGE

 No Emergency Shutdown
 Emergency Shutdown
 Check one of the boxes above. Default is "No Emergency Shutdown."

# RSMV #1 BIN4 Config 2

RSM 1 Configuration RSMV A BIN4 Config2 No Active Alarm Stat Use < or > to CHANGE

 No Active Alarm Stat
 Active Alarm Stat
 Check one of the boxes above. Default is "No Active Alarm Stat."

# RSMV #1 SS1072 v2.xx and lower

RSMV #1 v2.xx Only Compressor Option DUAL Use < or > to CHANGE

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

# RSMV #1 SS1072 v2.xx and

lower

RSMV #1 Configuration Compressor Type 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED Use < or > to CHANGE

□ 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
 □ BOTH ARE FIXED
 Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

# RSMV #2 SS1072 v3.xx and Higher

RSM#2 v.3XX Only RSMV B Comp Config Not Configured Use < or > to CHANGE

Not Configured
Future Use 1-11
1 Bitzer VFD
1 Bitzer On/Off
1=Bitzr VFD 2=On/Off
1 & 2=Bitzer On/Off

# **RSMV #2 Evap Coil Config**

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

Uses EXV-1 Only
 Uses EXV-1 & EXV-2
 Check one of the boxes above. Default is "Uses EXV-1 Only".

# RSMV #2 Heat Pump Expansion Valve Config

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

Uses EXV-3 Only
 Uses EXV-3 & EXV-4
 Check one of the boxes above. Default is "Uses EXV-3 Only".

# RSMV #2 Single Compressor Startup

RSM 2 Configuration Single Comp Startup No Use < or > to CHANGE

□ No □ Yes Check one of the boxes above. Default is "No."

# RSMV #2 BIN4 Config 1

RSM 2 Configuration RSMV B BIN4 Config1 No Emergency Shutdown Use < or > to CHANGE

 No Emergency Shutdown
 Emergency Shutdown
 Check one of the boxes above. Default is "No Emergency Shutdown."

# RSMV #2 BIN4 Config 2

RSM 2 Configuration RSMV B BIN4 Config2 No Active Alarm Stat Use < or > to CHANGE

 No Active Alarm Stat
 Active Alarm Stat
 Check one of the boxes above. Default is "No Active Alarm Stat."

# RSMV #2 SS1072 v2.xx and lower

RSMV #2 v2.xx Only Compressor Option DUAL Use < or > to CHANGE

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

# RSMV #2 SS1072 v2.xx and lower

RSMV #2 Configuration Compressor Type 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED Use < or > to CHANGE

□ 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
 □ BOTH ARE FIXED
 Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

# RSMV #3 SS1072 v3.xx and Higher

RSM#3 v.3XX Only RSMV C Comp Config Not Configured Use < or > to CHANGE

□ Not Configured

- □ Future Use 1-11
- □ 1 Bitzer VFD
- 1 Bitzer On/Off
  1=Bitzr VFD 2=On/Off
- $\square$  1=Bitzr VFD 2=On/O
- □ 1 & 2=Bitzer On/Off

# **RSMV #3 Evap Coil Config**

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

 Uses EXV-1 & EXV-2
 Uses EXV-1 Only
 Check one of the boxes above. Default is "Uses EXV-1 Only."

# RSMV #3 Heat Pump Expansion Valve Config

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

Uses EXV-3 & EXV-4
 Uses EXV-3 Only
 Check one of the boxes above. Default is "Uses EXV-3 Only."

# RSMV #3 Single Compressor Startup

RSM 3 Configuration Single Comp Startup No Use < or > to CHANGE

🗆 No

□ Yes Check one of the boxes above. Default is "No."

# **RSMV #3 BIN4 Config 1**

RSM 3 Configuration RSMV C BIN4 Config1 No Emergency Shutdown Use < or > to CHANGE

 No Emergency Shutdown
 Emergency Shutdown
 Check one of the boxes above. Default is "No Emergency Shutdown."

# RSMV #3 BIN4 Config 2

RSM 3 Configuration RSMV C BIN4 Config2 No Active Alarm Stat Use < or > to CHANGE

 No Active Alarm Stat
 Active Alarm Stat
 Check one of the boxes above. Default is "No Active Alarm Stat."

#### RSMV #3 SS1072 v2.xx and lower

RSMV #3 v2.xx Only Compressor Option DUAL Use < or > to CHANGE

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

# RSMV #3 SS1072 v2.xx and lower

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

□ 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
 □ BOTH ARE FIXED
 Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

#### RSMV #4 SS1072 v3.xx and Higher

RSM#4 v.3XX Only RSMV D Comp Config Not Configured Use < or > to CHANGE

Not Configured
Future Use 1-11
1 Bitzer VFD
1 Bitzer On/Off
1=Bitzr VFD 2=On/Off
1 & 2=Bitzer On/Off

# **RSMV #4 Evap Coil Config**

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

Uses EXV-1 & EXV-2
 Uses EXV-1 Only
 Check one of the boxes above. Default is "Uses EXV-1 Only."

#### RSMV #4 Heat Pump Expansion Valve Config

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

Uses EXV-3 & EXV-4
 Uses EXV-3 Only
 Check one of the boxes above. Default is "Uses EXV-3 Only."

# RSMV #4 Single Compressor Startup

RSM 4 Configuration Single Comp Startup No Use < or > to CHANGE

□ No □ Yes Check one of the boxes above. Default is "No."

# **RSMV #4 BIN4 Config 1**

RSM 4 Configuration RSMV D BIN4 Config1 No Emergency Shutdown Use < or > to CHANGE

 No Emergency Shutdown
 Emergency Shutdown
 Check one of the boxes above. Default is "No Emergency Shutdown."

# RSMV #4 BIN4 Config 2

RSM 4 Configuration RSMV D BIN4 Config2 No Active Alarm Stat Use < or > to CHANGE

 No Active Alarm Stat
 Active Alarm Stat
 Check one of the boxes above. Default is "No Active Alarm Stat."

#### RSMV #4 SS1072 v2.xx and lower

RSMV #4 v2.xx Only Compressor Option DUAL

Use < or > to CHANGE

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

# RSMV #4 SS1072 v2.xx and

lower

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

□ 1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED
 □ BOTH ARE FIXED
 Check one of the boxes above. Default is "1<sup>st</sup> VFD / 2<sup>nd</sup> FIXED".

# RSMD MAIN CONFIGURATION SCREENS

RSMD Main Configuration Screen #1



In the 1st box, enter a value from 11 to 50. Default is "11". In the 2nd box, enter a value from 15 to 300. Default is "120".

# RSMD Main Configuration #1 Condenser Options

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

2 Cond per RSMD
1 Cond for 1 RSMD
1 Cond for 2 RSMDs
1 Cond for 3 RSMDs
2 Cond for 2 RSMDs
1 Cond for 4 RSMDs
Check one of the boxes above. Default is

RSMD Main Configuration #2 Condenser Options

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

 $\Box$  2 Cond per RSMD

"2 Cond per RSMD".

- $\Box$  1 Cond for 1 RSMD
- □ 1 Cond for 2 RSMDs
- □ 1 Cond for 3 RSMDs
- □ 2 Cond for 2 RSMDs
- □ 1 Cond for 4 RSMDs

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

# RSMD Main Configuration #3 Condenser Options

RSM #3 Cond Options Config Same as RSM 1 2 Cond per RSMD Use < or > to CHANGE

- 2 Cond per RSMD
  1 Cond for 1 RSMD
  1 Cond for 2 RSMDs
  1 Cond for 2 RSMDs
- □ 1 Cond for 3 RSMDs □ 2 Cond for 2 RSMDs
- $\Box$  2 Cond for 2 RSMDs  $\Box$  1 Cond for 4 RSMDs

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

# RSMD Main Configuration #4 Condenser Options

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

- □ 2 Cond per RSMD
- □ 1 Cond for 1 RSMD
- □ 1 Cond for 2 RSMDs
- □ 1 Cond for 3 RSMDs
- □ 2 Cond for 2 RSMDs
- $\Box$  1 Cond for 4 RSMDs

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

# RSMD Main Configuration #1 Condenser Control

RSM #1 CONFIGURATION Condenser Control Modulating Use < or > to CHANGE

Modulating
On/Off Fan Cycle
On/Off
Check one of the boxes above. Default is "Modulating".

# RSMD Main Configuration #2 Condenser Control

RSM #2 Cond Control Config Same as RSM 1 Modulating Use < or > to CHANGE

☐ Modulating
 ☐ On/Off Fan Cycle
 ☐ On/Off

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

RSMD Main Configuration #3 Condenser Control

RSM #3 Cond Control Config Same as RSM 1 Modulating Use < or > to CHANGE

- $\Box$  Modulating
- □ On/Off Fan Cycle

□ On/Off

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

# RSMD Main Configuration #4 Condenser Control

RSM #4 Cond Control Config Same as RSM 1 Modulating Use < or > to CHANGE

 $\Box$  Modulating

□ On/Off Fan Cycle

□ On/Off

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

RSMD #1 SS1067 v.3.00 and Higher

RSMD #1 v3.xx Only RSMD A Comp Config Not Configured Use < or > to CHANGE

Not Configured
Single On/Off
Single Digital
Single 2 Stage
A1=On/Off A2=On/Off
A1=Dig A2=On/Off
A1=Dig A2=Dig
A1=Dig A2=2-Stage
A1=2-Stage A2=On/Off
A1 & A2=2-Stage

#### **RSMD #1 All Versions –**

RSM#1 CONFIGURATION Refrigeration Circuit Split Use < or > to CHANGE

# **Refrigeration Circuit**

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

# **RSMD #1 All Versions –**

RSM#1 CONFIGURATION Single Comp Startup YES Use < or > to CHANGE

# **Single Compressor Startup**

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

#### RSMD #1 All Versions – WSE Operation

RSM#1 CONFIGURATION WSE Operation No Use < or > to CHANGE

□ YES □ NO Check one of the boxes above. Defaul

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

# RSMD CONFIGURATION – All Modules - All Versions – WSE Enabled By

RSM#1 CONFIGURATION WSE Enabled By Outdoor Air Temp Use < or > to CHANGE

□ Outdoor Air Temp □ Return Air Temp Check one of the boxes above. Default is "Outdoor Air Temp". NOTE: This screen only appears in the RSMD Module 1 screens, but also applies to modules 2, 3 & 4.

# RSMD #1 SS1067 v.1.19

#### and Lower – Compressor Option

RSMD #1 v1.19 Only Compressor Option DUAL Use < or > to CHANGE

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

#### RSMD #1 SS1067 v.1.19

and Lower – Compressor #1 Type

> RSMD #1 v1.19 Only Compressor #1 Type MODULATING Use < or > to CHANGE

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

# RSMD #1 SS1067 v.1.19 and Lower – Compressor #2 Type

RSMD #1 v1.19 Only Compressor #2 Type MODULATING Use < or > to CHANGE

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

# RSMD #1 SS1067 v.1.19 and Lower – 2-Stage Compressor

RSMD #1 v1.19 Only 2-Stage Compressor NO Use < or > to CHANGE

#### $\Box$ YES

 $\Box$  NO

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

RSMD #2 SS1067 v.3.00 and Higher

RSMD #2 v3.xx Only RSMD B Comp Config Not Configured Use < or > to CHANGE

Not Configured
Single On/Off
Single Digital
Single 2 Stage
B1=On/Off B2=On/Off
B1=Dig B2=On/Off
B1=Dig B2=Dig
B1=Dig B2=2-Stage
B1=2-Stage B2=On/Off
B1 & B2=2-Stage

#### **RSMD #2 All Versions –**

RSM#2 CONFIGURATION Refrigeration Circuit Split Use < or > to CHANGE

#### **Refrigeration Circuit**

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

#### **RSMD #2 All Versions –**

RSM#2 CONFIGURATION Single Comp Startup YES Use < or > to CHANGE

#### **Single Compressor Startup**

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

#### RSMD #2 All Versions – WSE Operation

RSM#2 CONFIGURATION WSE Operation No

Use < or > to CHANGE

#### $\Box$ YES

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

# RSMD #2 SS1067 v.1.19

#### and Lower – Compressor Option

RSMD #2 v1.19 Only Compressor Option DUAL

Use < or > to CHANGE

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

#### RSMD #2 SS1067 v.1.19

# and Lower – Compressor

#### #1 Type

RSMD #2 v1.19 Only Compressor #1 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

#### RSMD #2 SS1067 v.1.19

and Lower – Compressor #2 Type

RSMD #2 v1.19 Only Compressor #2 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

# RSMD #2 SS1067 v.1.19 and Lower – 2-Stage Compressor

RSMD #2 v1.19 Only 2-Stage Compressor NO Use < or > to CHANGE

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

RSMD #3 SS1067 v.3.00 and Higher

> RSMD #3 v3.xx Only RSMD C Comp Config Not Configured Use < or > to CHANGE

Not Configured
Single On/Off
Single Digital
Single 2 Stage
C1=On/Off C2=On/Off
C1=Dig C2=Dig
C1=Dig C2=Dig
C1=Dig C2=2-Stage
C1=2-Stage C2=On/Off
C1 & C2=2-Stage

#### **RSMD #3 All Versions –**

RSM#3 CONFIGURATION Refrigeration Circuit Split Use < or > to CHANGE

#### **Refrigeration Circuit**

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

#### **RSMD #3 All Versions –**

RSM#3 CONFIGURATION Single Comp Startup YES Use < or > to CHANGE

#### **Single Compressor Startup**

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

#### RSMD #3 All Versions – WSE Operation

RSM#3 CONFIGURATION WSE Operation No

Use < or > to CHANGE

#### $\Box$ YES

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

# RSMD #3 SS1067 v.1.19

#### and Lower – Compressor Option

RSMD #3 v1.19 Only Compressor Option DUAL Use < or > to CHANGE

USE < UI > LO CHANGE

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

# RSMD #3 SS1067 v.1.19

# and Lower – Compressor

#### #1 Type

RSMD #3 v1.19 Only Compressor #1 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

#### RSMD #3 SS1067 v.1.19

#### and Lower – Compressor #2 Type

RSMD #3 v1.19 Only Compressor #2 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

# RSMD #3 SS1067 v.1.19 and Lower – 2-Stage Compressor

RSMD #3 v1.19 Only 2-Stage Compressor NO Use < or > to CHANGE

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

RSMD #4 SS1067 v.3.00 and Higher

RSMD #4 v3.xx Only RSMD D Comp Config Not Configured Use < or > to CHANGE

Not Configured
Single On/Off
Single Digital
Single 2 Stage
D1=On/Off D2=On/Off
D1=Dig D2=On/Off
D1=Dig D2=Dig
D1=Dig D2=2-Stage
D1=2-Stage D2=On/Off
D1 & D2=2-Stage

#### **RSMD #4 All Versions –**

RSM#4 CONFIGURATION Refrigeration Circuit Split Use < or > to CHANGE

#### **Refrigeration Circuit**

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

#### **RSMD #4 All Versions –**

RSM#4 CONFIGURATION Single Comp Startup YES Use < or > to CHANGE

#### **Single Compressor Startup**

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

#### RSMD #4 All Versions – WSE Operation

RSM#4 CONFIGURATION WSE Operation No

Use < or > to CHANGE

#### $\Box$ YES

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

# RSMD #4 SS1067 v.1.19

#### and Lower – Compressor Option

RSMD #4 v1.19 Only Compressor Option DUAL

Use < or > to CHANGE

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

# RSMD #4 SS1067 v.1.19

# and Lower – Compressor

#### #1 Type

RSMD #4 v1.19 Only Compressor #1 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

#### RSMD #4 SS1067 v.1.19

#### and Lower – Compressor #2 Type

RSMD #4 v1.19 Only Compressor #2 Type MODULATING Use < or > to CHANGE

#### □ MODULATING

□ **FIXED** Check one of the boxes above. Default is "MODULATING".

# RSMD #4 SS1067 v.1.19 and Lower – 2-Stage Compressor

RSMD #4 v1.19 Only 2-Stage Compressor NO Use < or > to CHANGE

#### □ YES □ NO Check one of the boxes above. Default is "NO".