VRV Commissioning

TC-5.8 Outdoor Field Settings

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Agenda

How to access field settings

Outdoor Field Settings - Mode 1

Outdoor Field Settings - Mode 2

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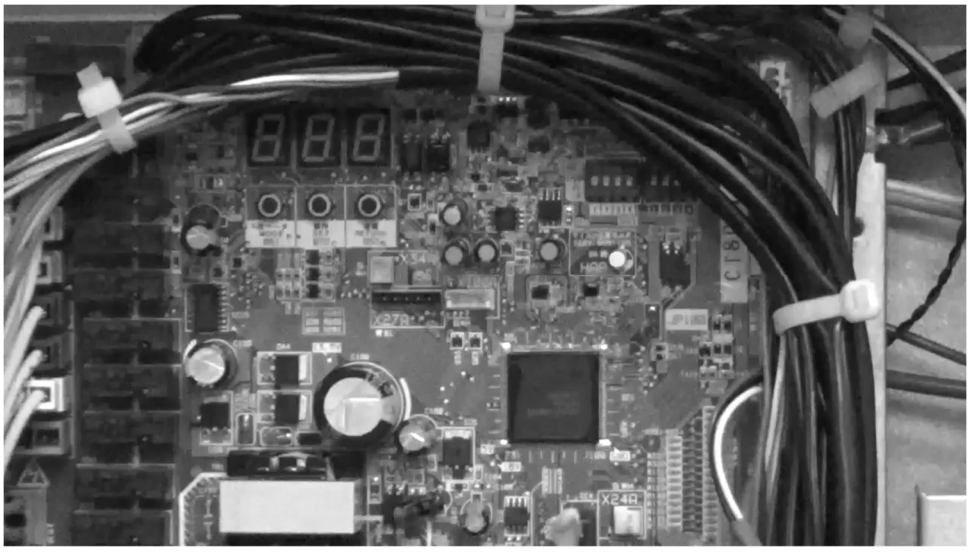
Video - How to access field settings *VRV IV-X*



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How to access field settings

Outdoor Field Settings - Mode 1

Outdoor Field Settings - Mode 2

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Outdoor Unit Field Settings Mode 1 Please refer to Service Manual for complete settings

The following Mode 1 settings are new with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
1-0	Shows Whether the unit you are checking is Master or Slave 1
1-1	Shows the Status of Night-time Low Noise Operation
1-2	Shows the Status of Power Consumption Limitation Operation
1-5	Shows the Current Te Target Parameter Position
1-6	Shows the Current Tc Target Parameter Position
1-10	Shows the Total Number of Connected Indoor Units
1-13	Shows the Total Number of Connected Outdoor Units
1-17	Shows the Latest Error Code
1-18	Shows the Second Last Error Code

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Outdoor Unit Field Settings Mode 1 Please refer to Service Manual for complete settings

The following Mode 1 settings are new with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
1-19	Shows the third Last Error Code.
1-35	Shows the Latest Prediction Code. **New for *VRV EMERION***
1-36	Shows the Second Latest Prediction Code. **New for *VRV EMERION***
1-37	Shows the Third Latest Prediction Code. **New for *VRV EMERION***
1-40	Shows the current Cooing Comfort Setting.
1-41	Shows the current Heating Comfort Setting.
1-42	Shows the current High Pressure Sensor Value. (PSI)
1-43	Shows the current Low Pressure Sensor Value. (PSI)
1-44	Shows current compressor speed. (Hz)

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Outdoor Unit Field Settings Mode 1 Please refer to Service Manual for complete settings

The following Mode 1 settings are new with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
1-45	Shows the current EEV (Heat Exchanger Upper) opening (Pulse Multiplied by 10).
1-46	Shows the current EEV (Heat Exchanger Lower) opening (Pulse Multiplied by 10).
1-47	Shows the current Compressor #1 discharge thermistor Value (°F)
1-48	Shows the current Compressor #2 discharge thermistor Value (°F) **New for *VRV EMERION***
1-49	Show the current Compressor #1 body Thermistor Value (°F).
1-50	Shows the current Outdoor Air thermistor value (°F).
1-51	Shows the current Compressor Suction thermistor Value (°F).
1-52	Shows the Current Subcooling Gas Thermistor Value. (°F)
1-53	Shows the current Heat Exchanger Gas (Upper) thermistor value (°F).

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Outdoor Unit Field Settings Mode 1 Please refer to Service Manual for complete settings

The following Mode 1 settings are new with the VRV EMERION & VRV IV-X systems

Mode	Description
1-54	Shows the current Heat Exchanger Gas (Lower) thermistor value (°F).
1-55	Shows the current Deicer (Right) thermistor value (°F).
1-56	Shows the current compressor run time (Multiply by 100).
1-57	Show the current Sub-Cooling of (Heat Exchanger Right) (°F). **New for *VRV EMERION***
1-58	Shows the current EEV (Heat Exchanger Left) opening (Pulse Multiplied by 10) **New**
1-59	Shows the current subcooling of (Heat Exchanger Left) (°F) **New for *VRV EMERION***
1-60	Shows the current Compressor #2 Body thermistor value. (°F) **New for *VRV EMERION***
1-61	Shows the current subcooling liquid thermistor value (°F) **New for *VRV EMERION***

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Outdoor Unit Field Settings Mode 1 Please refer to Service Manual for complete settings

The following Mode 1 settings are **NEW** with the *VRV EMERION*

Mode	Description
1-62	Shows the current Suction Pipe thermistor value (°F).
1-63	Shows the current Receiver inlet thermistor value (°F).
1-64	Shows the current Heat Exchanger Liquid (Upper) thermistor value (°F).
1-65	Shows the current Heat Exchanger Liquid (Lower) thermistor value (°F).
1-66	Shows the current Heat Exchanger Liquid (Left) thermistor value (°F).
1-67	Shows the current Deicer (Left) thermistor value (°F).
1-68	Shows the current Heat Exchanger Gas (Left) thermistor value (°F).
1-69	Shows the Compressor Average Load.

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Outdoor Unit Field Settings Mode 1

Please refer to Service Manual for complete settings

The following Mode 1 settings are **NEW** with the *VRV EMERION*

Mode	Description
1-70	Shows the current Receiver Gas Purge thermistor Value (°F)
1-71	Shows the current Subcooling Injection thermistor Value (°F)
1-72	Shows the current Electrical Components Box thermistor Value (°F)
1-73	Shows the current Cooling Jacket Outlet thermistor value (°F)

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Outdoor Mode 1

Setting 0

- Shows whether the unit you check is a master, sub 1, or sub 2.
  - No Indication: undefined situation
  - 0: outdoor unit is master unit
  - 1: outdoor unit is sub 1 unit
  - 2: outdoor unit is sub 2 unit

Setting 1

- Shows the status of night-time low noise operation.
  - 1: unit is currently operating under low noise restrictions
  - 0: unit is currently not operating under low noise restrictions.

DTA104

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Outdoor Mode 1

Setting 2

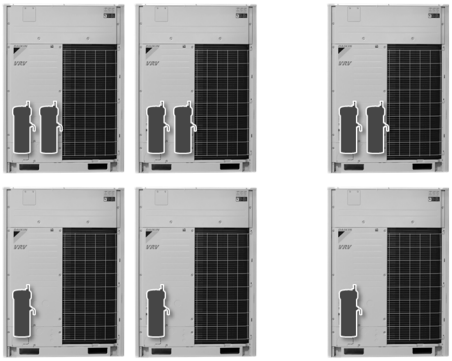
- Shows the status of power consumption limitation operation.
  - 1: unit is currently operating under power consumption limitation.
  - 0: unit is not currently operating under power consumption limitation.

Setting 3

- Shows the status of Emergency Operation
  - 1: unit is operating with emergency operation active
  - 0: unit is operating without emergency operation

Heat Pumps

Heat Recovery



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Outdoor Mode 1

Setting 4

- Shows currently programmed Defrost setting.
  - 0: slow
  - 1: normal
  - 2: quick
- Note: This applies to how often the system will look at the deicer thermistor to verify if defrost is required, not duration of defrost operation.

Setting 5

- Shows the current target evaporator temperature
  - 0: Auto
  - 2: 42.8°F (6°C)
  - 3: 44.6°F (7°C)
  - 4: 46.4°F (8°C)
  - 5: 48.2°F (9°C)
  - 6: 50°F (10°C)
  - 7: 51.8°F (11°C)

Variable Refrigerant Temperature

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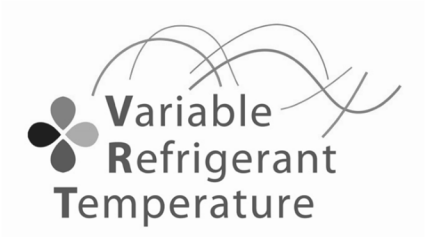
Outdoor Mode 1

Setting 6

- Shows the current target condensing temperature.
  - 0: Auto
  - 1: 105.8°F (41°C)
  - 3: 109.4°F (43°C)
  - 6: 114.8°F (46°C)

Setting 9

- Shows current AirNet address setting.
  - 0 ~ 63
- Outdoor Airnet address can also be used with service checker to identify systems on the same DIII-net communication network.



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Outdoor Mode 1

Setting 10, 11, 13, 16

- [1-10] Shows the total number of connected indoor units.
- [1-11] Shows the total number of connected branch selector ports used.
- [1-13] Shows the number of outdoor systems (DIII-net systems).
- [1-16] Shows the total number of connected indoor units on the DIII-net network.

Setting 17 thru 19

- [1-17] Shows the latest error code
- [1-18] Shows the error code which occurred 1 time before current error code.
- [1-19] Shows the error code which occurred 2 times before current error code.

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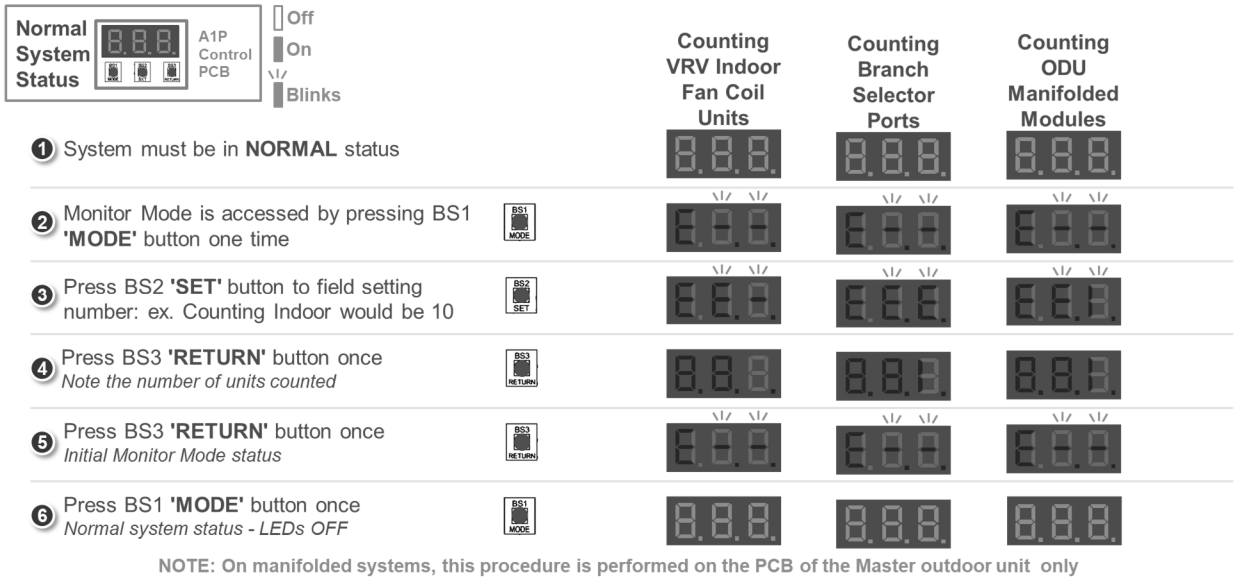
Outdoor Mode 1



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Outdoor Mode 1

Setting 23 thru 25

- [1-23] Shows the contents of most recent malfunction retry
- [1-24] Shows the contents of a retry (1 time before)
- [1-25] Shows the contents of a retry (2 times before)

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Unique to Daikin

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What is VRT?

- VRT allows the VRV system to dynamically change refrigerant temperatures (evaporating temps in cooling and condensing temperatures in heating) to enhance the operational savings.
- This function is called 'Variable Refrigerant Temperature' and is designed to not just save energy, but also enhance overall occupancy comfort by reducing cold drafts in the occupied space during the cooling season and prevents overheating the occupied space during the heating season.
- The VRT capability additionally enhances the performance attributes associated with the Variable Speed Inverter compressor to greatly improve part load efficiency by delivering the required part load capacity.

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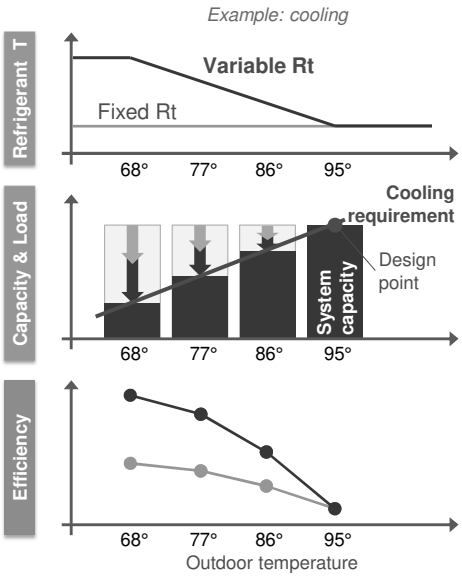
Variable Refrigerant Temperature (VRT)

Automatic VRT mode

Warmer refrigerant temperature (Rt) in changeover seasons etc

As outdoor temperature decreases, the capacity of the system is adjusted by reducing the speed of compressors AND by increasing the target evaporating temperature

Efficiency increases thanks to lower compression ratio and maintaining optimal compressor speed



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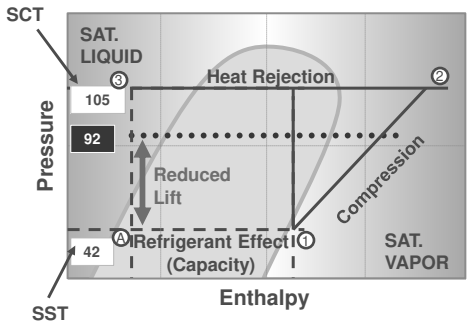
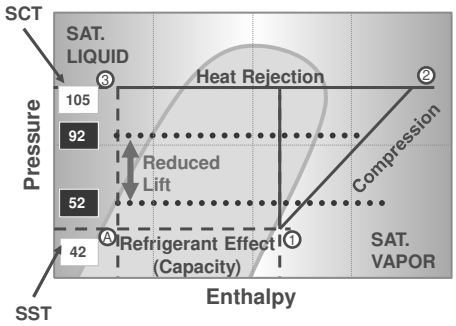
What does VRT do?

Now



With improvement in control



Lower Lift = Less Work = Lower power input
Bottom line: More efficient
SCT=Saturated Condensing Temp
SST=Saturated Suction Temp
Think Chilled Water or Boiler temperature reset function

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VRT Configuration Capabilities

- Variable Refrigerant Temperature control puts you in control of how the VRV IV X operates, allowing customized, exact design based on the design and climate situation

Variable Refrigerant Temperature control

Automatic* Floating weather-dependent T_E	**Powerful**	**Mild***	**Providing the best balance between comfort and efficiency.** **The system will automatically adapt to the building and climate conditions.** **** Default factory settings***
	Quick		
High-sensible	**Powerful**	**Mild**	**Mode for the use of a specific refrigerant temperature.** **The system will only deviate from the desired refrigerant temperature if allowed and if the load requires it (only load dependent)**
	Quick	**Eco**	
Basic	***No sub-modes***		

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VRT Comfort Settings

- With *VRV IV-X* there are also Comfort settings that can be made. These comfort settings will determine how quickly the system will achieve set temperature at the indoor units. There are 4 levels of Comfort settings:

Powerful | **Quick** | **Mild** | **Eco**

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VRV IV

Customize your VRV

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Outdoor Mode 1

Setting 40

- [1-40] Shows the current comfort setting for cooling operation.
  - 0: Eco
  - 1: Default (Mild)
  - 2: Quick
  - 3: Powerful

Setting 41

- [1-41] Shows the current comfort setting for heating operation.
  - 0: Eco
  - 1: Default (Mild)
  - 2: Quick
  - 3: Powerful

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Agenda

How to access field settings

Outdoor Field Settings - Mode 1

Outdoor Field Settings - Mode 2

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Outdoor Unit Field Settings Mode 2 Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-0	Cool/Heat Selection
2-2	Low Noise / Demand Address
2-5	Indoor Fan Forced High
2-6	Forced Thermostat
2-7	Eco Level Setting for Eco Mode Via External Control Adapter, **New for *VRV EMERION***
2-8	Te Setting (Cooling Operation)
2-9	Te Setting (Heating Operation)
2-10	The Heating Capacity cut offset temperature setting. **New for *VRV EMERION***

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Outdoor Unit Field Settings — Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-12	External Low Noise Setting / Demand Setting
2-13	Airnet Address Setting for outdoor unit
2-16	Heat Pump Lockout 1
2-18	High ESP setting Fan
2-19	Phased Installation Setting **New for *VRV EMERION***
2-20	Additional Charge Mode for VRV
2-20	Additional Charge Mode / Wrong wiring at BS Box. **New for *VRV EMERION***
2-21	Refrigerant Recovery Mode

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Outdoor Unit Field Settings — Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-22	Automatic Night-Time Low Noise Operation
2-25	External Low Noise Level
2-26	Automatic Night-time low Noise operation start
2-27	Automatic Night-time low Noise operation stop
2-28	Power Transistor Check
2-29	Intermittent Fan Operation **New for *VRV EMERION***
2-30	Demand 1 Setting
2-31	Demand 2 Setting

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Outdoor Unit Field Settings — Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-32	Normal Demand Setting
2-34	Indoor fan tap setting
2-35	Outdoor >40m (130ft) below indoor
2-37	Heat Pump Lockout 2
2-38	Emergency Operations Master
2-39	Emergency Operation Sub 1 *VRV IV-X* or Sub on *VRV EMERION*
2-40	Emergency Operation Sub 2 *VRV IV-X*
2-42	Outdoor Fan
2-45	Low Ambient Cooling

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Outdoor Unit Field Settings — Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-47	Te setting (Heat recovery operation)
2-49	Outdoor > 50 m (164 ft) above indoor / **110m (361 ft) for *VRV EMERION***
2-51	Sequence multi outdoor
2-60	Gas Furnace Setting
2-62	Cooling/Heating capacity learning control
2-64	Eco Mode Invalid setting **New for *VRV EMERION***
2-71	Branch Selector Switching Time
2-78	Heat Pump Lockout Temperature

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Outdoor Unit Field Settings

Please refer to Service Manual for complete settings

The following Mode 2 settings are available with the *VRV EMERION* & *VRV IV-X* systems

Mode	Description
2-79	Heat Pump Lockout Release Differential
2-81	Colling Comfort Setting
2-82	Heat Comfort Setting
2-89	Intermittent Fan *VRV IV-X*
2-90	Indoor Unit Without Power
2-92	Te Target Temperature Upper Limit
2-97	Auxiliary Heater Maximum Allowable Temperature
2-98	Auxiliary Heater Maximum Allowable Temperature Release Differential

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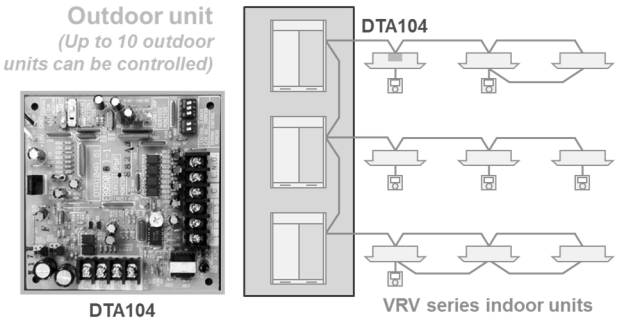
Outdoor Mode 2

Setting 0

- Cool/Heat Selection
  - 0: individual
  - 1: Main (need DTA104)
  - 2: Sub (need D
- C/H address for DTA104
  - 0-31
  - TA104)

Setting 1



- Unified changeover of Cool/Heat mode
- To change the mode of several outdoor units by one remote controller
- Demand Control: 70%, 40%, 0%
- Low Noise Control: 2 to 3 dB of outdoor unit

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Outdoor Mode 2

Setting 5

- Commands all indoor units fan ON in H speed.
  - 0: disabled
  - 1: enabled
- If testing communication from outdoor unit, all fan coils need to be operation stop condition (off).

Setting 6

- Forced operation to all indoor units.
  - 0: disabled
  - 1: enabled
- The current mode and set point will be used during forced operation.
- Manual operation at the local controller will be prohibited.

Note: Once activated, these command settings must be manually deactivated.

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Outdoor Mode 2 – Service Tip

Fan Coil – Forced Fan On Mode

- A very effective procedure to help troubleshoot missing indoor Fan Coil units is to force the fan coil blowers to 'ON'. By turning on the indoor blowers from the outdoor unit, you will see which indoor units are communicating with that particular system.
- At sites with multiple systems being installed, occasionally one indoor unit will get wired to the wrong outdoor unit. Using the 'Forced Fan On' procedure, you will quickly see which units are connected by which fans turn on
- Using the Forced Fan ON operation, enables the control system to put the Fan Coil fan motor in High fan speed
- The fan coils that do not respond by switching on the fan motor are the units not communicating with the control system

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Outdoor Mode 2

Indoor Fan Coil – Communication Troubleshooting Tips

- Verify correct power supply voltage is present at Fan Coil
  - PCB status: Green LED blinking
- Verify that all Remote Controllers have a display. This will also tell you that power is applied to the indoor units
- If there are Remote Controllers controlling more than one indoor unit, you must check the green LED on each PCB to see if it is flashing green. This will tell you that power is applied to the Indoor unit. Another method is to use your meter to check the voltage
- Turn on each Remote Controller one at a time. When you turn them on, note the error code if any appears on the display
- After you have turned them all on, you should see a pattern of the error codes. The pattern should show a few of the controllers with different error codes. The remote(s) with a different code is a good place to start checking your control wiring
- Check the control wiring to ensure the conductors are connected to the correct terminals and 16vdc is measured
- After the issues are corrected, recycle power to the (Master) ODU (Initialization mode starts) and press and hold the (BS3) 'RETURN' button for 5 seconds on the Control PCB. This will enable the indoor unit(s) that were not communicating to have an address assigned.

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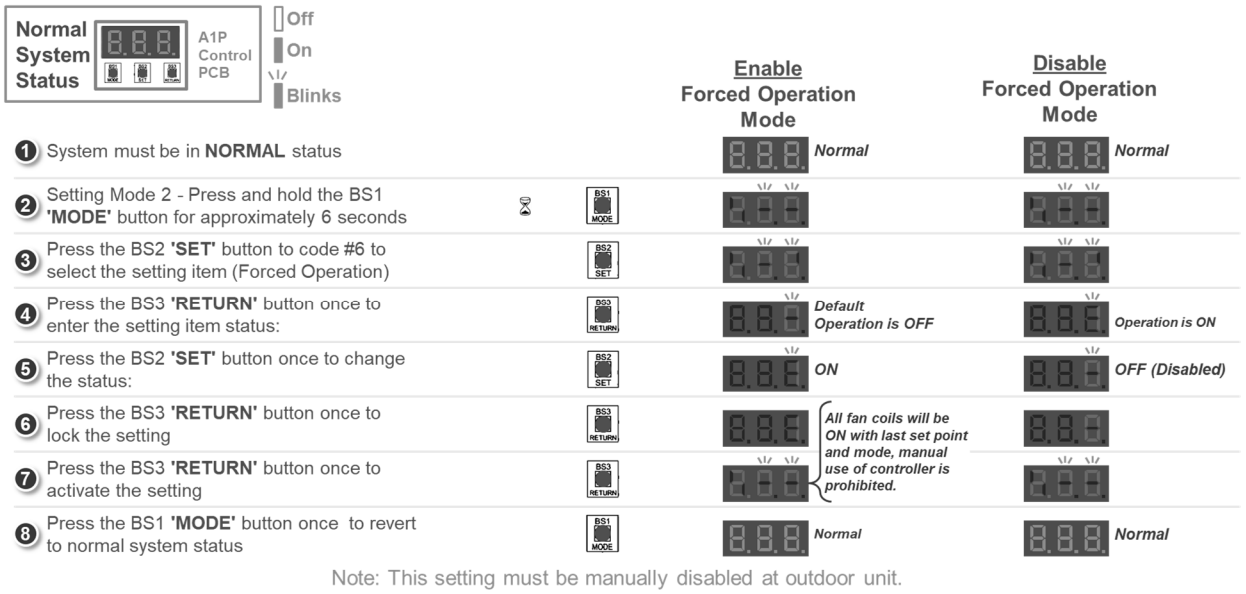
Outdoor Mode 2



Note: This setting must be manually disabled at outdoor unit.

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Outdoor Mode 2

VRV IV X Main Operation Modes: Basic

- Same operation that is in VRV-III. The refrigeration temperature is fixed and does not change depending on the situation.
- Operation is selected in Mode 2-8 for Cooling and Mode 2-9 for Heating.
  - Cooling Mode(Te): select 2-8-2 for Basic operation.
  - Heating Mode(Tc): select 2-9-6.

8	**Te setting**	Used to make setting of targeted evaporating temperature for cooling operation	2	0	8	Auto (43-52°F) Default Low level = 37°F **Standard = 43°F** High Sens. = 45°F High Sens. = 46°F High Sens. = 48°F High Sens. = 50°F High Sens. = 52°F			0 1 **2** 3 4 5 6 7
9	**Tc setting**	Used to make setting of targeted condensing temperature for heating operation	2	0	9	Auto (100-120°F) Default Low = 106°F Normal = 109°F **High = 115°F**			0 1 3 **6**

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Outdoor Mode 2

VRV IV X Main Operation Modes: Auto Mode

- In this mode the refrigerant temperature is set depending on outdoor ambient conditions.
- The temperature is adjusted to match the required load.
  - As the outdoor temperature drops the refrigerant temperature will be raised in Cool mode.
  - In Heat mode as the outdoor temperature rises the refrigerant temperature will be lowered.
- The VRV IV X is set to this mode from the factory. The settings will be 2-8-0 for Cool mode and 2-9-0 for Heat mode.

8	**Te setting**	Used to make setting of targeted evaporating temperature for cooling operation	2	0	8	**Auto (43-52°F) Default** Low level = 37°F Standard = 43°F High Sens. = 45°F High Sens. = 46°F High Sens. = 48°F High Sens. = 50°F High Sens. = 52°F			**0** 1 2 3 4 5 6 7
9	**Tc setting**	Used to make setting of targeted condensing temperature for heating operation	2	0	9	**Auto (100-120°F) Default** Low = 106°F Normal = 109°F High = 115°F			**0** 1 3 6

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Outdoor Mode 2

VRV IV X Main Operation Modes: Hi-Sensible/Economic Mode

- Refrigerant temperature is set higher/lower compared to the basic operation.
- Focus under high sensible mode is comfort level for the customer.
- When selecting indoor units that will use the high sensible mode, considerations must be taken into account as the available capacity is not the same as in basic mode.
- To select High sensible in Cooling use mode 2-8 3 thru 7.
- To select High sensible in Heating select mode 2-9-1 or 3.

8	**Te setting**	Used to make setting of targeted evaporating temperature for cooling operation	2	0	8	Auto (43-52°F) Default			0
						Low level = 37°F			1
						Standard = 43°F			2
						High Sens. = 45°F			**3**
						High Sens. = 46°F			**4**
						High Sens. = 48°F			**5**
						High Sens. = 50°F			**6**
						High Sens. = 52°F			**7**
9	**Tc setting**	Used to make setting of targeted condensing temperature for heating operation	2	0	9	Auto (100-120°F) Default			0
						Low = 106°F			**1**
						Normal = 109°F			**3**
						High = 115°F			6

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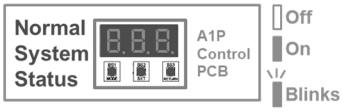
Outdoor Mode 2



		Target Evaporator Te Setting	Target Condenser Tc Setting
1 Start with system in normal status display		*Normal*	
2 Setting Mode 2 - Press and hold the BS1 **'MODE'** button for approximately 6 seconds	BS1 MODE		
3 Press the BS2 **'SET'** button to select the correct setting: Te = **08**; Tc = **09**	BS2 SET		
4 Press the BS3 **'RETURN'** button once to enter the setting item status - '0' = AUTO (Default) (**Te** 43-52ºF/**Tc** 100-120ºF)	BS3 RETURN	*Default*	
5 Press the BS2 **'SET'** button to change the Te temperature setting: Refer to temperature setting chart (Example '1')	BS2 SET		
6 Press the BS3 **'RETURN'** button once to lock the setting	BS3 RETURN		
7 Press the BS3 **'RETURN'** button once to activate the setting	BS3 RETURN		
8 Press the BS1 **'MODE'** button to terminate the operation and revert to normal system status	BS1 MODE	*Normal*	

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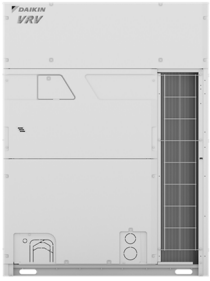
Outdoor Mode 2

Setting 10 *VRV IV* & *VRV IV-X*

- Defrost changeover setting.
  - 0: Quick
  - 1: Normal
  - 2: Slow
- Changes the temperature condition for defrost and sets to quick or slow defrost.

Setting 10 *VRV EMERION*

- The Heating capacity cut offset temperature Setting
  - 0: Default 3.6°F (2.0°C)
  - 1: 1.8°F (1°C)
  - 2: .9°F (.5°C)
- Used for heating capacity cut offset temperature setting



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Outdoor Mode 2

Setting 12

- Enable the night-time low noise function and/or power consumption limitation via external control adapter (DTA104A61/62)
  - 0: default (not active)
  - 1: active

DTA104

Setting 13

- Defines the AirNet address for the outdoor equipment.
  - Set 1 thru 63
- Used to assist service technicians to identify a system, when multiple systems reside on same DIII-net communication network.
- Duplicate AirNet address will indicate UC error.

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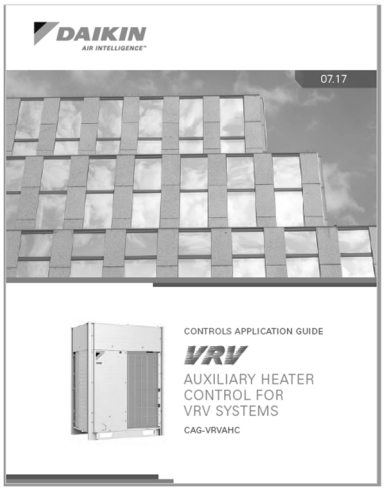
Outdoor Mode 2

Setting 16

- Heat pump lockout 1
  - 0: heat pump lockout OFF (default)
  - 1: heat pump lockout ON
- Reference the Auxiliary Heater Application Guide for detailed information. Field settings for auxiliary heat are different between system types.



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Outdoor Mode 2

Description	How to set the lockout mode		Result				Compatibility		
	ODU Field Setting	ABC terminal shorted between	When in heating Thermo-on		When in heating Thermo-on		VRV III	VRV IV	
			Aux Heater	Fan	Aux Heater	Fan		RXYQ, REYQ, RELQ, RXTQ	RWEYQ
Heat pump heating is always locked out	2-16 = 1 (& 2-37 = 0[4])	—	ON	ON (user set)	OFF	LL[3]	•	•	•
Lockout is controlled by ABC terminals[2]	2-37 = 1	A-C	ON	ON (user set)	OFF	LL[3]	•	•	•
		B-C				OFF	•	•	•
	2-37 = 2[1]	A-C		LL		LL[3]	•	•	N/A
		B-C		LL		OFF	•	•	N/A
Lockout is controlled by the outdoor ambient temperature and setpoint (configured by field settings)	2-37 = 3	—	ON	ON (user set)	OFF	LL[3]	N/A	•	N/A
	2-37 = 4	—				OFF	N/A	•	N/A
	2-37 = 5[1]	—		LL		LL[3]	N/A	•	N/A
	2-37 = 6[1]	—		LL		OFF	N/A	•	N/A

(1) Mode 2, 5, and 6 apply to an external heater which does not need air flow (i.e.: baseboard heater).

(2) For VRV III, an ABC terminal kit BRP2A81 is required. For VRV IV-S 4 ton and 5 ton outdoor units, an ABC terminal kit BRP2A82 is needed. For other VRV IV units, the ABC terminal is factory installed.

(3) In order to set the fan speed to go to LL (Low-Low) in heating thermo-off, the indoor unit field setting 12(22)-3-01 shall be set (default value). X3-X4 output is closed in LL fan speed.

(4) To always lock out the Heat Pump heating by setting 2-16 to 1, the field setting 2-37 must be set to 0 (Default) as well. Otherwise, the setting 2-16 =1 cannot lock out the Heat Pump heating.

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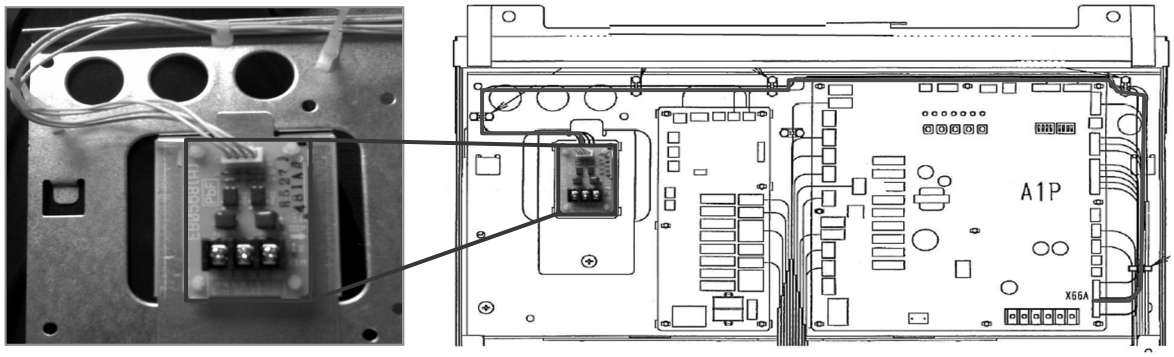
A-B-C Terminals

- Offered as a standard on *VRV IV-X* and as an option for *VRV III* outdoor units
- Remotely manage the operating mode of the heat pump system
- Integration point for ambient thermostats to engage lock-out



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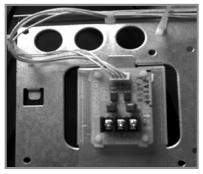
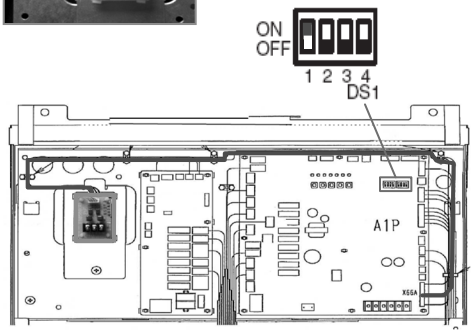
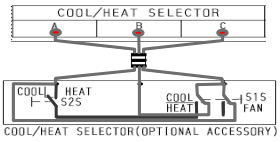
A-B-C Terminals

- BRP2A81 - Remotely manage the operating mode of the heat pump system



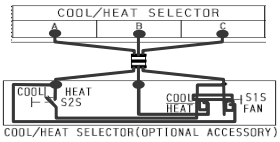
Dipswitch DS1-1 on the main PCB must be ON for remote COOL / HEAT selection





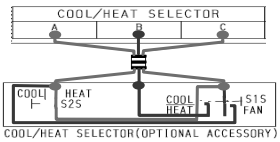
Fan Mode

When terminals A-B-C are shunted together only the FAN mode will be selectable at the indoor unit remote controller



Cooling Mode

When there is no connection between terminals A-B-C only the cooling, fan and dry modes will be selectable at the indoor unit remote controller



Heating Mode

When terminals A-C are shunted together only the heating and fan modes will be selectable at the indoor unit remote controller

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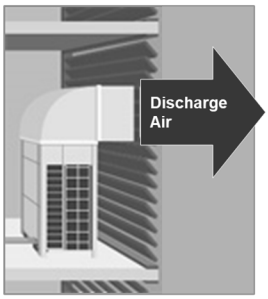
Outdoor Mode 2

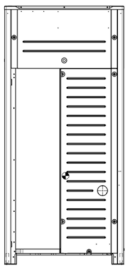
Setting 18: Selectable High Fan Static Pressure

- *VRV* Condensers have the flexibility to be installed in equipment rooms.
- The O.D. Fan performance can be configured to accommodate ducted discharge air.
- A field setting will increase the fan's output when operating under increased static pressure.

0.12' W.G
Standard

0.32' W.G
HIGH





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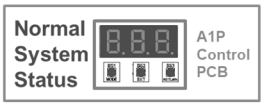
Outdoor Mode 2



Off
On
Blinks

		Fan High Static Setting	
❶ System must be in **NORMAL** status			***Normal***
❷ Setting Mode 2 - Press and hold the BS1 **'MODE'** button for approximately 6 seconds	BS1 MODE		
❸ Press the BS2 **'SET'** button to code #18 to select the setting item (OD Fan High Static)	BS2 SET		
❹ Press the BS3 **'RETURN'** button once to enter the setting item status - '0' = OFF (Default)	BS3 RETURN		***Default***
❺ Press the BS2 **'SET'** button once to change the status from '0' = OFF to '1' = ON	BS2 SET		
❻ Press the BS3 **'RETURN'** button once to lock the setting	BS3 RETURN		
❼ Press the BS3 **'RETURN'** button once to activate the setting	BS3 RETURN		***Outdoor Fan(s) now operating at .32' wg.***
❽ Press the BS1 'MODE' button to terminate the operation and revert to normal system status	BS1 MODE		

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Outdoor Unit Field Settings Mode 2

Normal System Status — A1P Control PCB

Off
On
Blinks

VRV EMERION Phased Install Setting 2-19

1. System must be in **NORMAL** status — *Normal*
2. Setting Mode 2 - Press and hold the BS1 **"MODE"** button for approximately 6 seconds
3. Press the BS2 **"SET"** button to code #19 to select the setting item (Phased installation setting)
4. Press the BS3 **"RETURN"** button once to enter the setting item status - "0" = OFF (Default) — *Default*
5. Press the BS2 **"SET"** button once to change the status from "0" = OFF to "1" = ON
6. Press the BS3 **"RETURN"** button once to lock the setting
7. Press the BS3 **"RETURN"** button once to activate the setting
8. Press the BS1 "MODE" button to terminate the operation and revert to normal system status

00 – Normal Installation
01 – Single Module to Dual Module Installation

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Outdoor Mode 2

Normal System Status — A1P Control PCB

Off
On
Blinks

	Additional Refrigerant Charge Mode	Refrigerant Recovery & Evacuation Mode
1. Start with system in normal status display	*Normal*	*Normal*
2. Setting Mode 2 - Press and hold the BS1 **'MODE'** button for approximately 6 seconds		*Normal*
3. Press the BS2 **'SET'** button to select the correct setting:		
4. Press the BS3 **'RETURN'** button once to enter the setting item status = '0' - OFF	*Default*	*Default*
5. Press the BS2 **'SET'** button once to change the status from OFF to ON – '1'		*Drives EXVs open*
6. Press the BS3 **'RETURN'** button once to lock the setting – '1'	*Weigh in the appropriate amount of refrigerant.*	*STOP- Pressurize, Evacuate or Recover now through the Liquid and Gas service ports*
7. Press the BS3 **'RETURN'** button once to activate the setting	*When complete close off high side gauge*	
8. Press the BS1 **'RETURN'** button once to terminate operation. Remove the high side hose from the charging port	*Normal*	*Normal*

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Outdoor Mode 2

Setting 20, 22 & 25 thru 27

- [2-20] Additional refrigerant charge/Wrong wiring automatic detection for branch Selector
  - 0: Off
  - 1: On for Refrigerant Charging
  - 2: Wrong wiring automatic detection (On)
- [2-22] Nighttime Low Noise Setting
  - 0: OFF (Default)
  - 1: Level 1 (OD fan set to Step 6 or)
  - 2: Level 2 (OD fan set to Step 5 or)
  - 3: Level 3 (OD fan set to Step 4 or)
- [2-25] Low Noise Setting (level) input DTA 104
  - 1: Level 1
  - 2: Level 2 (Default)
  - 3: Level 3
- [2-26] LNO Auto Start Time
  - 0: 20:00
  - 1: 22:00 (Default)
  - 2: 0:00
- [2-27] LNO End Time
  - 0: 6:00
  - 1: 7:00
  - 2: 8:00 (Default)
- Note: Time is based on outside air temperatures.

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Outdoor Mode 2 Setting 34 (Indoor fan tap Setting)

Indoor units fan speed limitation related to connection capacity and outdoor air temperature for energy saving. Default value=0.	
Value [2-34]	Indoor unit fan tap setting
0	Fan speed is limited to L tap when indoor units capacity ≥ 130%.
1	In heating mode, fan speed is limited to L tap when indoor units capacity ≥ 130%.
2	Fan speed follows the setting of remote controllers (not limited by indoor units connection capacity).
3	Fan speed is limited to L tap when outdoor air temperature goes down to below 85.1°F (29.5°C) and indoor air temperature is in condition A (*). It returns to remote controller setting when outdoor air temperature goes up to over 90.5°F (32.5°C) or indoor air temperature is in condition B (**).
4	Fan speed is limited to L tap when outdoor air temperature goes down to below 74.3°F (23.5°C) and indoor air temperature is in condition A (*). It returns to remote controller setting when outdoor air temperature goes up to over 79.7°F (26.5°C) or indoor air temperature is in condition B (**).

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Outdoor Mode 2 Setting 34 (Indoor fan tap Setting) (Cont'd)

Indoor units fan speed limitation related to connection capacity and outdoor air temperature for energy saving. Default value=0.	
Value [2-34]	Indoor unit fan tap setting
5	Fan speed is limited to L tap when outdoor air temperature goes down to below 66.7°F (19.3°C) and indoor air temperature is in condition A (*). It returns to remote controller setting when outdoor air temperature goes up to over 72.1°F (22.3°C) or indoor air temperature is in condition B (**).
6	Fan speed is limited to L tap when outdoor air temperature goes down to below 85.1°F (29.5°C). It returns to remote controller setting when outdoor air temperature goes up to over 90.5°F (32.5°C).
7	Fan speed is limited to L tap when outdoor air temperature goes down to below 74.3°F (23.5°C). It returns to remote controller setting when outdoor air temperature goes up to over 79.7°F (26.5°C).
8	Fan speed is limited to L tap when outdoor air temperature goes down to below 66.7°F (19.3°C). It returns to remote controller setting when outdoor air temperature goes up to over 72.1°F (22.3°C).

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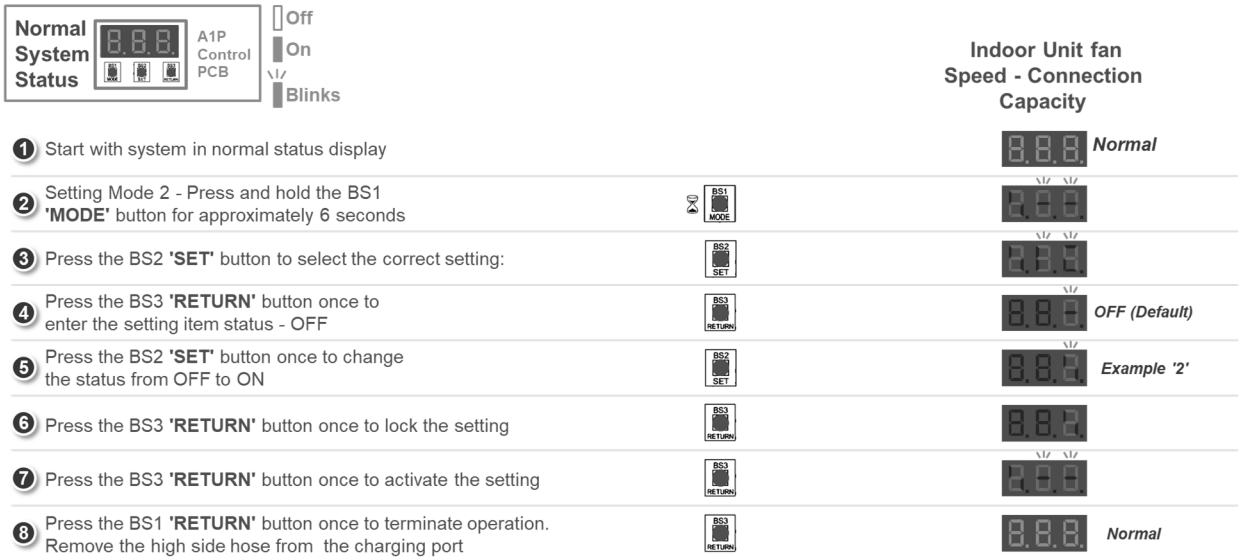
Outdoor Mode 2



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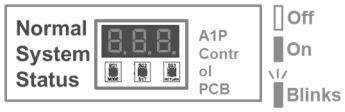
Outdoor Unit Field Settings



		ODU Height Difference – ODU Below IDUs	ODU Height Difference – ODU Above IDUs
❶ Start with system in normal status display		Normal	
❷ Setting Mode 2 - Press and hold the BS1 **"MODE"** button for approximately 6 seconds	BS1 MODE		
❸ Press the BS2 **"SET"** button to select the correct setting:	BS2 SET		
❹ Press the BS3 **"RETURN"** button once to enter the setting item status:	BS3 RETURN		
❺ Press the BS2 **"SET"** button to change the status code: "1" to "0" = ODU below IDUs; "0" to "1" = ODU above IDUs	BS2 SET		
❻ Press the BS3 "**RETURN**" button once to lock the setting	BS3 RETURN		
❼ Press the BS3 **"RETURN"** button once to activate the setting	BS3 RETURN		
❽ Press the BS1 **"MODE"** button to revert to normal system status	BS1 MODE	Normal	

Note: Setting 35 only applies if separation exceeds 131 feet and Setting 49 only applies if separation exceeds 164 ft, or 361 ft for *VRV EMERION.*

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VRV EMERION 361 Foot Rule for Defrost & Oil Return

361 ft. Rule for Defrost & Oil Return – *VRV EMERION* Only

- It can be extended as below by Field Setting on OD PC-board.
- OD units above ID units: 361 ft. (110 m)
- OD units below ID Units: 361 ft. (110 m)
- For additional information on this setting ref. to the install manual. In the case that the field setting of height difference is activated, heating oil return / defrost operation will be changed as to the tables list on the page.

WITH setting of extending height difference

	Above ambient temp. 50°F DB and room temp. 75°F	
	Oil return in heating	Defrost Operation
M	Cooling cycle	Cooling cycle
L	Cooling cycle	Cooling cycle
XL	Cooling cycle	Cooling cycle
Multi	Cooling cycle	Cooling cycle

Standard setting

	All condition	
Chassis	Oil return in heating	Defrost Operation
M	Cooling cycle	Cooling cycle
L	Cooling cycle	Cooling cycle
XL	Heating cycle	Heating cycle (Alternate defrost)
Multi	Heating cycle	Heating cycle (Alternate defrost)

	Above ambient temp. 50°F DB and room temp. 75°F	
	Oil return in heating	Defrost Operation
M	Cooling cycle	Cooling cycle
L	Cooling cycle	Cooling cycle
XL	Heating cycle	Heating cycle (Alternate defrost)
Multi	Heating cycle	Heating cycle (Alternate defrost)

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Outdoor Mode 2

Normal System Status — A1P Control PCB

Off
On
Blinks

		VRV EMERION & VRV IV-X Emergency Operation (Main)	VRV EMERION & VRV IV-X Emergency Operation (Sub 1)	VRV IV-X only Emergency Operation (Sub 2)
1 Start with system in normal status display		8.8.8.	8.8.8.	8.8.8.
2 Setting Mode 2 - Press and hold the BS1 **'MODE'** button for approximately 6 seconds	BS1 MODE	2.0.0.	2.0.0.	2.0.0.
3 Press the BS2 **'SET'** button to select the correct setting:	BS2 SET	2.0.0.	2.0.0.	2.0.0.
4 Press the BS3 **'RETURN'** button once to enter the setting item status:	BS3 RETURN	8.8.0.	8.8.0.	8.8.0.
5 Press the BS2 **'SET'** button to change the status code: '0' Normal to '1': Inv. 1, '2': Inv. 2, & '3': Full Module disabled.	BS2 SET	8.8.0.	8.8.0.	8.8.0.
6 Press the BS3 **'RETURN'** button once to lock the setting	BS3 RETURN	8.8.0.	8.8.0.	8.8.0.
7 Press the BS3 **'RETURN'** button once to activate the setting	BS3 RETURN	2.0.0.	2.0.0.	2.0.0.
8 Press the BS1 **'MODE'** button to revert to normal system status	BS1 MODE	8.8.8.	8.8.8.	8.8.8.

0: Normal
1: Inverter 1
2: Inverter 2
3: Module

Note: Emergency mode must be manually released once enabled. Diagnose reason compressor failed, then repair system and compressor immediately to avoid potential harm.

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Outdoor Unit Field Settings

Normal System Status — A1P Control PCB

Off
On
Blinks

		Gas Furnace Setting 2-60	
1 System must be in **NORMAL** status		8.8.8.	*Normal*
2 Setting Mode 2 - Press and hold the BS1 **"MODE"** button for approximately 6 seconds	BS1 MODE	2.0.0.	
3 Press the BS2 **"SET"** button to code #60 to select the setting item (Gas Furnace Setting)	BS2 SET	2.6.0.	
4 Press the BS3 **"RETURN"** button once to enter the setting item status - "0" = OFF (Default)	BS3 RETURN	8.8.0.	*Default*
5 Press the BS2 **"SET"** button once to change the status from "0" = OFF to "1" = ON	BS2 SET	8.8.1.	*Changing to 1 tells the unit a gas furnaces are connected*
6 Press the BS3 **"RETURN"** button once to lock the setting	BS3 RETURN	8.8.1.	
7 Press the BS3 **"RETURN"** button once to activate the setting	BS3 RETURN	2.0.0.	*Gas furnaces will not operate above outdoor amb. Temp that was set in field setting 2-97*
8 Press the BS1 "MODE" button to terminate the operation and revert to normal system status	BS1 MODE	8.8.8.	

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VRT Advanced Learning Function

- VRV IV X is equipped with an advanced learning function that considers how quickly the room temperature reaches setpoint
- Based on this information it will continuously learn and adjust system target
  - Note that this setting may result in a longer reaction time to large load variations

Value (2-62)	Description
0	OFF
1	Cooling Adjustment
2	Heating Adjustment
3	Cooling and Heating Adjustments

Note: Learning will be reset if the unit power is shut off or the is ± 5.4°F from setpoint,

Value (2-92)	Te Target Temperature Upper Limit
0	L
1	M
2	H

Note: In high humid areas, it is recommended to keep this setting to 0 or 1

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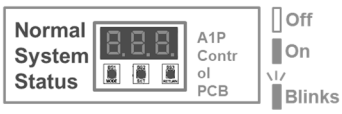
Outdoor Unit Field Settings



Cooling and Heating Capacity Learning Control 2-62

1. System must be in **NORMAL** status — *Normal*
2. Setting Mode 2 - Press and hold the BS1 **"MODE"** button for approximately 6 seconds
3. Press the BS2 **"SET"** button to code #62 to select the setting item (Cooling and Heating Capacity Learning Control)
4. Press the BS3 **"RETURN"** button once to enter the setting item status - "0" = OFF (Default) — *Default*
5. Press the BS2 **"SET"** button once to change the status from "0" = OFF to "desired setting — *Cooling Adjustment 1*, *Heating Adjustment 2*, *Cooling and Heating Adjustment 3*
6. Press the BS3 **"RETURN"** button once to lock the setting
7. Press the BS3 **"RETURN"** button once to activate the setting — *Capacity Learning Adjustment is now locked in.*
8. Press the BS1 "**MODE**" button to terminate the operation and revert to normal system status

Learning resets with power interruption or ± 5.4ºF from set point.

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Outdoor Mode 2

Setting 45

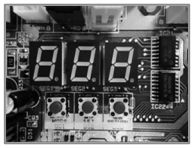
- [2-45] Technical Cooling
  - 0: Disabled
  - 1: Enabled
- All Branch Selector Boxes have Technical Cooling
- Indoor units assigned for low ambient cooling CANNOT exceed 50% of the nominal rating of the condensing unit.

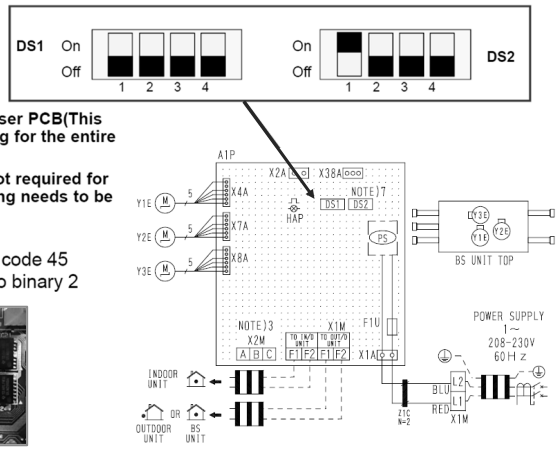
Technical Cooling

Limitations:

- **50-130% Index**
- **Setting made via Condenser PCB(This activates Tehnical Cooling for the entire system).**
- **For fan coils which are not required for Technical Cooling a setting needs to be made on the BS box.**

Change setting mode 2 code 45 from binary 1 (default) to binary 2





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Outdoor Mode 2

Comfort Setting Level: Powerful

- Allows an overshoot of refrigerant temperature in Heating mode and an undershoot of refrigerant temperature in Cool mode.
- When the system first starts up in cool mode the system will shoot for a 37°F evaporator refrigerant temperature on a temporary basis. In Heat mode the system will shoot for a 120°F condenser refrigeration temperature.
- When the difference between the set temperature and the actual room temperature is more moderate the system will operate in whichever Operation mode was set(Basic, Auto, or High sensible).
- For Cooling Comfort settings select 2-81-3, in Heat Comfort settings select 2-82-3.

Note: Powerful not used with Basic

Value (2-81)	Cooling Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

Value (2-82)	Heating Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

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Outdoor Mode 2

Comfort Setting Level: Quick

- This mode performs the same as powerful mode but the refrigerant temperatures that the system will shoot for during Quick operation are 43°F for Cool mode and 115°F for Heat mode on the temporary basis.
- Just Like Powerful, when the difference between the room temperature and the set temperature are more moderate the system will begin to operate in whichever mode was selected(Auto, Basic, or Hi-sensible).
- For cooling mode select 2-81-2 and for Heating mode select 2-82-2

Value (2-81)	Cooling Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

Value (2-82)	Heating Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

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Outdoor Mode 2

Comfort Setting Level: Mild

- This mode operates basically the same as Quick mode, shoots for the same indoor coil temperatures, 43°F in Cool mode, 115°F in heat mode.
- The Mild mode will not start to operate as soon as the Powerful and Quick modes do. So when the system first starts up it will perform in the mode set (Auto, Basic, and Hi-sensible) then perform the Mild function.
- The difference between Quick and Mild is when the operation begins. For Mild in cool mode select 2-81-1, for Heat mode select 2-82-1.
- The VRV IV X systems come set in this mode as default.

Value (2-81)	Cooling Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

Value (2-82)	Heating Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

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Outdoor Mode 2

Comfort Setting Level: Eco

- In this mode the original refrigerant temperature is kept, the one defined by the selected mode (Basic, Auto, or Hi-sensible).
- This mode will not affect any overshooting or undershooting of the refrigerant temperatures.
- For Cool mode select 2-81-0, for Heat mode select 2-82-0.

Value (2-81)	Cooling Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

Value (2-82)	Heating Comfort Setting
0	Eco
1	Mild (Default)
2	Quick
3	Powerful

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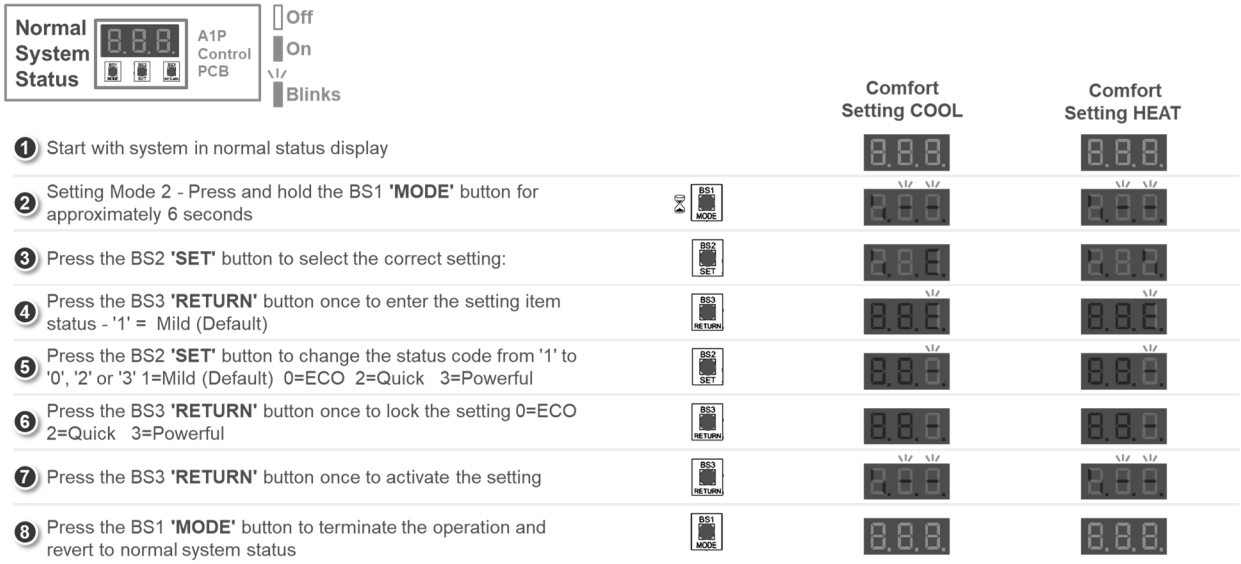
Outdoor Mode 2



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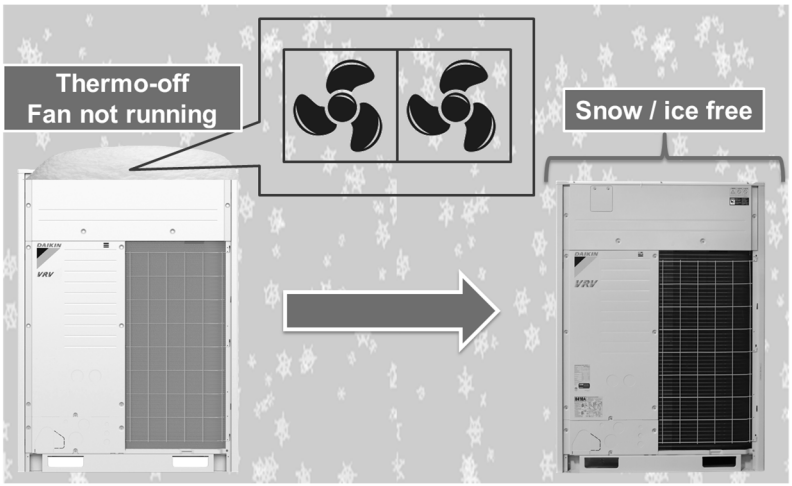
Intermittent Outdoor Fan Operation – Mode 2-89 *VRV IV-X* Heat Recovery / Mode 2-29 *VRV EMERION*



- Minimizes snow accumulation on fan blades when thermo-off
- Fans kick in every 30 Mins during thermo-off
- Needs to be activated thru field settings
- Set Mode 2-89 to on for this operation.
  - 0= Mode Setting Off
  - 1= Every 30 mins low fan
  - 2= Every 30 mins high fan

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Exercise

Exercise

Making ODU Field Settings

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Assessment

1. Select the correct definition for Setting 0 In Outdoor Mode 1
   a) Shows whether the unit you check is a master, slave 1, or slave 2.
   b) Shows the status of night-time low noise operation.
   c) Shows the status of power consumption limitation operation.
   d) Shows the status of Emergency Operation

2. Select the correct definition for Setting 1 In Outdoor Mode 1
   a) Shows whether the unit you check is a master, slave 1, or slave 2.
   b) Shows the status of night-time low noise operation.
   c) Shows the status of power consumption limitation operation.
   d) Shows the status of Emergency Operation

3. Select the correct definition for Setting 2 In Outdoor Mode 1
   a) Shows whether the unit you check is a master, slave 1, or slave 2.
   b) Shows the status of night-time low noise operation.
   c) Shows the status of power consumption limitation operation.
   d) Shows the status of Emergency Operation

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Assessment

4. Select the correct definition for Setting 3 In Outdoor Mode 1
   a) Shows whether the unit you check is a master, slave 1, or slave 2.
   b) Shows the status of night-time low noise operation.
   c) Shows the status of power consumption limitation operation.
   d) Shows the status of Emergency Operation

5. Select the correct definition for Setting 4 In Outdoor Mode 1
   a) Shows currently programmed Defrost setting.
   b) Shows the current target evaporator parameter position
   c) Shows the current target condensing parameter position.
   d) Shows current AirNet address setting.

6. Select the correct definition for Setting 5 In Outdoor Mode 1
   a) Shows currently programmed Defrost setting.
   b) Shows the current target evaporator parameter position
   c) Shows the current target condensing parameter position.
   d) Shows current AirNet address setting.

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Assessment

7. Select the correct definition for Setting 6 In Outdoor Mode 1
   a) Shows currently programmed Defrost setting.
   b) Shows the current target evaporator parameter position
   c) Shows the current target condensing parameter position.
   d) Shows current AirNet address setting.

8. Select the correct definition for Setting 9 In Outdoor Mode 1
   a) Shows currently programmed Defrost setting.
   b) Shows the current target evaporator parameter position
   c) Shows the current target condensing parameter position.
   d) Shows current AirNet address setting.

9. Select the correct definition for Setting 0 In Outdoor Mode 2
   a) Cool/Heat Selection
   b) C/H address for DTA104
   c) Commands all indoor units fan ON in H speed.
   d) Forced operation to all indoor units.

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Assessment

10. Select the correct definition for Setting 1 In Outdoor Mode 2
    a) Cool/Heat Selection
    b) C/H address for DTA104
    c) Commands all indoor units fan ON in H speed.
    d) Forced operation to all indoor units.

11. Select the correct definition for Setting 5 In Outdoor Mode 2
    a) Cool/Heat Selection
    b) C/H address for DTA104
    c) Commands all indoor units fan ON in H speed.
    d) Forced operation to all indoor units.

12. Select the correct definition for Setting 6 In Outdoor Mode 2
    a) Cool/Heat Selection
    b) C/H address for DTA104
    c) Commands all indoor units fan ON in H speed.
    d) Forced operation to all indoor units.

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