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Service BULLETIN

S007D **August 2017**

Outdoor Unit Dip Switch Settings

When installing a Fujitsu Airstage VRF system, the installing contractor must determine the proper dip-switch and dial settings for all indoor units, outdoor units, controls and other accessories. These settings, which control features such as external inputs, fan speed, addressing, and communications, will be different for almost every installation.

While some settings will be different, the dip-switch settings on the outdoor units will be mostly the same based on the size of the system. The “terminal resistor” setting on the Master Unit will need to be determined when setting the outdoor unit dip-switches.

The following diagrams show the settings for a simple VRF system where all indoor and outdoor units are on the same refrigerant circuit and the communication network does not include a signal amplifier.

Dip switch settings can also be different between Heat Pump and Heat Recovery systems as well as the different voltage systems. When using this bulletin, always make sure to use the proper settings for the correct system model, voltage, and size.

Warning ⚠

If a network segment contains more than one refrigerant circuit, or if a signal amplifier is used, **DO NOT use Dip SW SET5-4 settings listed in this bulletin**. Instead, refer to the Installation manual Section 7 "FIELD SETTING" or the D&T Manual Chapter 7 Section 1-6 "TERMINAL RESISTOR SETTING" to properly set Dip-SW SET5-4 of the Master unit

Caution ⚠

Be sure to set the terminal resistor according to specifications.
Set the terminal resistor for every network segments (NS).

- If terminal resistor is set in multiple devices, the overall communication system may be damaged.
- If terminal resistor is not set in a device, abnormal communication may occur.

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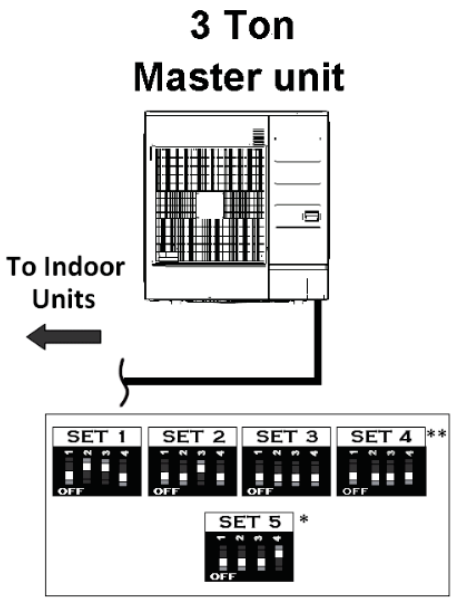
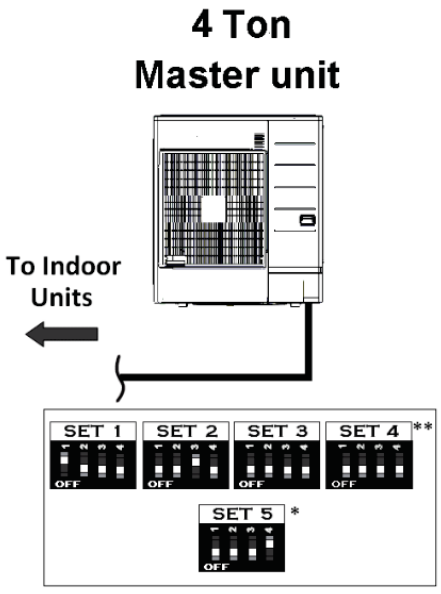


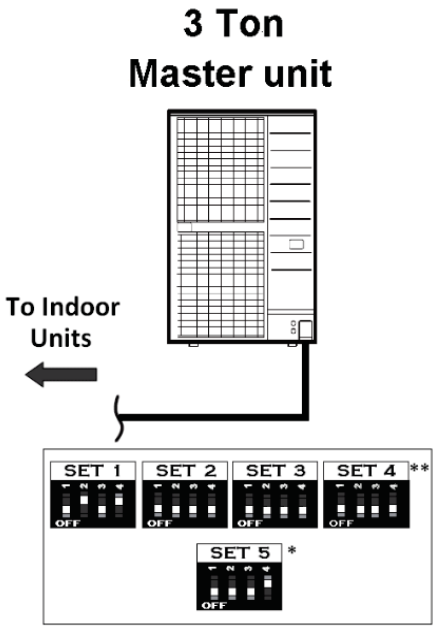
J-IIS Heat Pump (230V – 1 Phase) – (4 TON) AOU48RLAVS



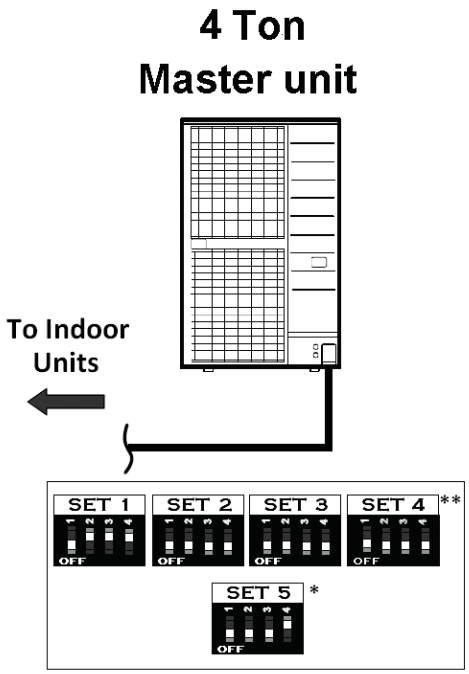
See Dip-SW SET5-4 and SET4-1 option on page 7.

J-II Heat Pump (208/230V – 1 Phase)

J-II Heat Pump (230V – 1 Phase) – (3 TON) AOU36RLAVM



J-II Heat Pump (230V – 1 Phase) – (4 TON) AOU48RLAVM



See Dip-SW SET5-4 and SET4-1 option on page 7.

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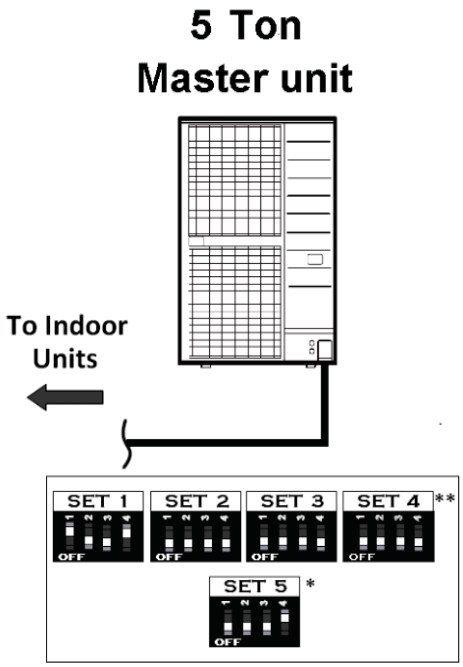
J-II Heat Pump (230V – 1 Phase) – (5 TON) AOU60RLAVM



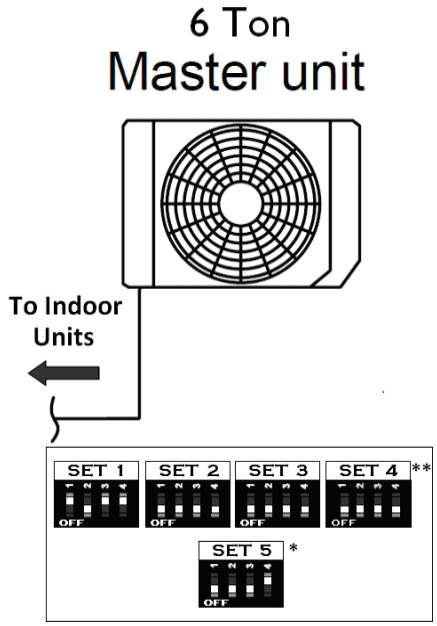
* Dip-SW SET5-4 diagrams are only used with one refrigerant system configuration. When there are more than one refrigerant systems on a communication network, confirm that the setting of Dip-SW SET5-4 complies with the Terminal Resistor requirements in the Installation Manual.

** Dip-SW SET4-1 in all Airstage outdoor units, except V-II 208/230V-3 Phase RLBV, provides a system protection function that is activated by default from the factory. When activated, Dip-SW SET4-1 is ON, the system will shut down whenever an indoor unit fails. If Dip-SW SET4-1 is set to OFF, a failure in an indoor unit will display error and the system will continue its normal operation. The activation of Dip-SW SET4-1 is crucial to VRF equipment protection. Under extreme conditions Fujitsu allows the de-activation of Dip-SW SET4-1 **ONLY AFTER closing the Isolation Valve/Ball Valve** connecting the failed indoor unit to the refrigerant system. Please refer to AE015 Bulletin for Isolation Ball Valves for proper installation of Isolation Ball valves in Heat Pump and Heat Recovery systems. The de-activation of Dip-SW SET4-1 without closing the indoor unit Isolation Valve/Ball Valve shall void the outdoor unit warranty. It is important to activate Dip-SW SET4-1 again immediately after the indoor unit failure has been rectified.

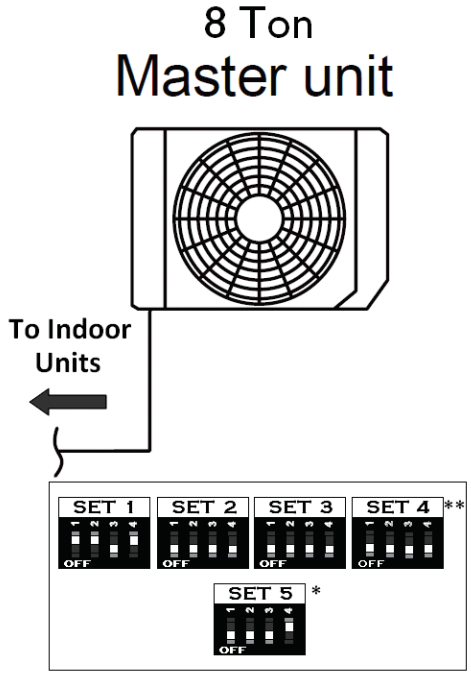
See Dip-SW SET5-4 and SET4-1 option on page 7.

V-II Heat-Pumps (208/230V - 3 Phase)

Heat-Pump (208/230V – 3 Phase) - (6 TONS) AOUA72RLBV1

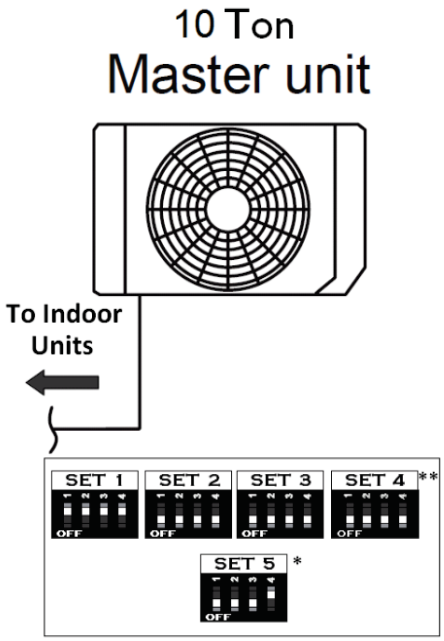


Heat-Pump (208/230V – 3 Phase) - (8 TONS) AOUA96RLBV1

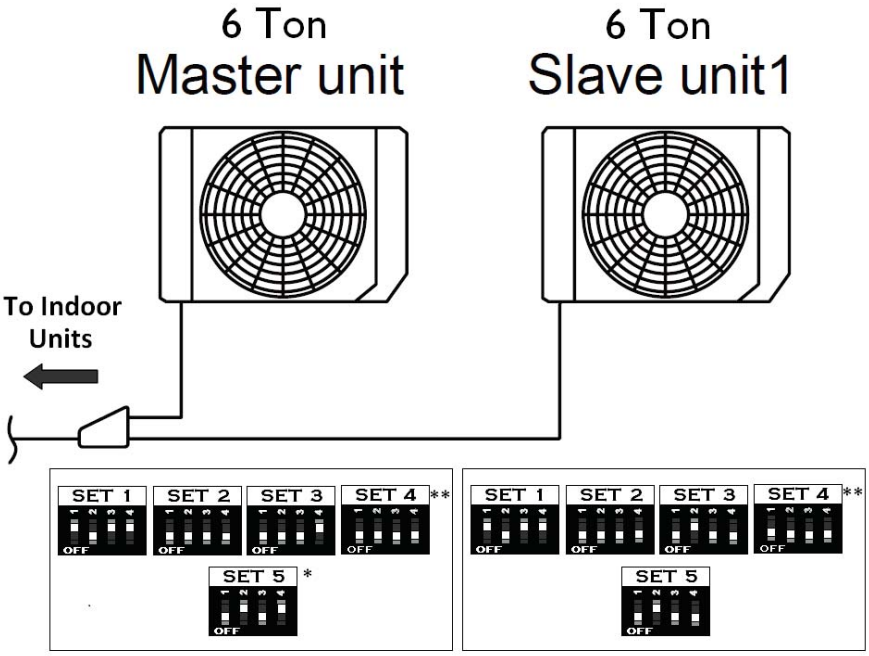


See Dip-SW SET5-4 and SET4-1 option on page 13.

Heat-Pump (208/230V – 3 Phase) - (10 TONS) AOUA120RLBV1

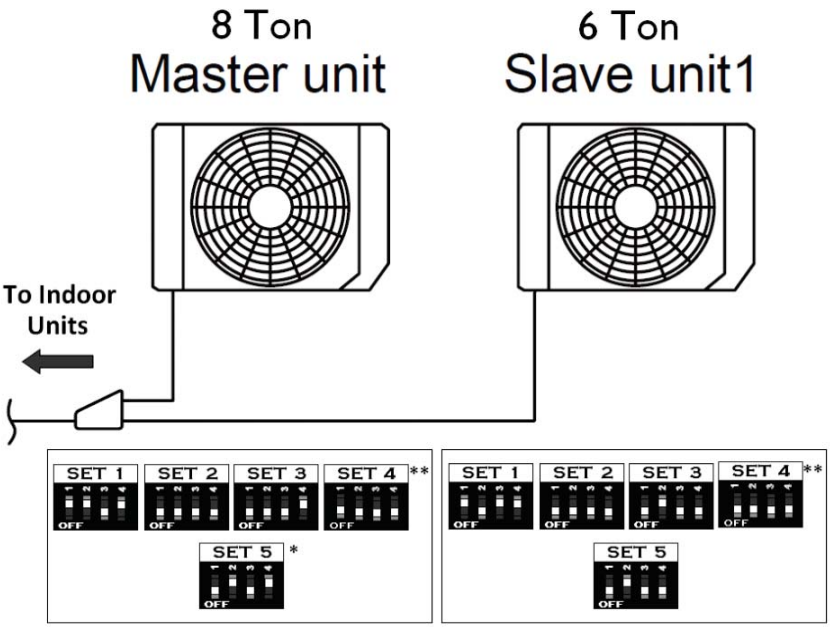


Heat-Pump (208/230V – 3 Phase) - (12 TONS) AOUA144RLBV1

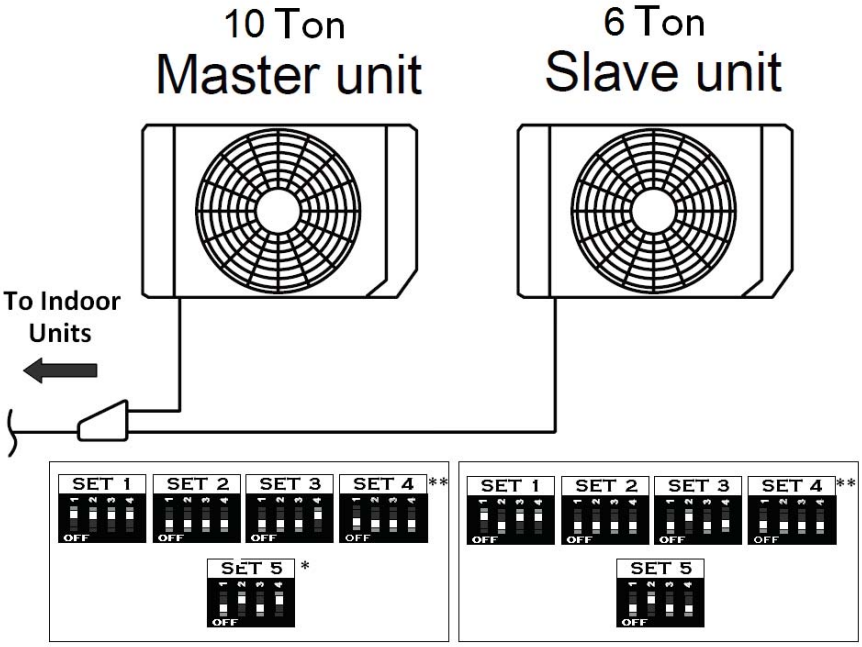


See Dip-SW SET5-4 and SET4-1 option on page 13.

Heat-Pump (208/230V – 3 Phase) - (14 TONS) AOUA168RLBV1



Heat-Pump (208/230V – 3 Phase) - (16 TONS) AOUA192RLBV1



See Dip-SW SET5-4 and SET4-1 option on page 13.

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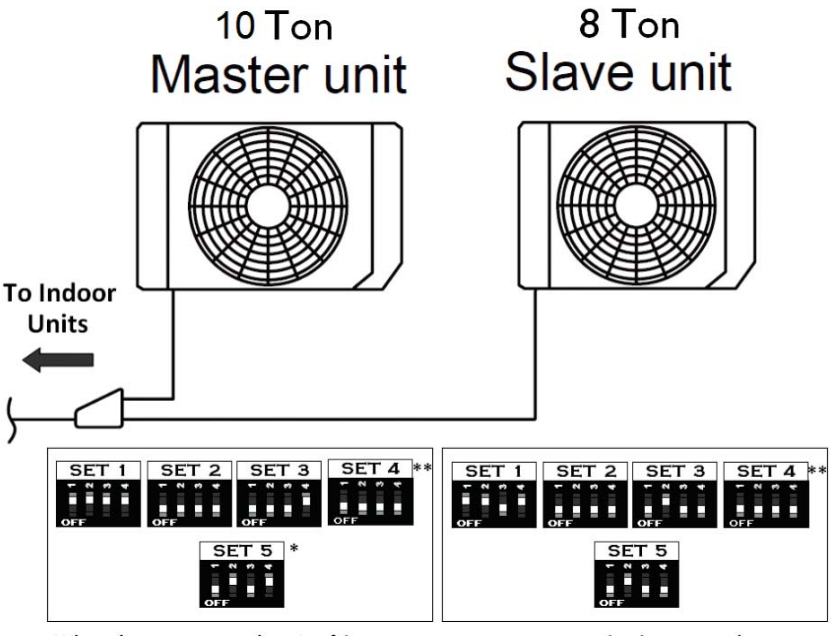
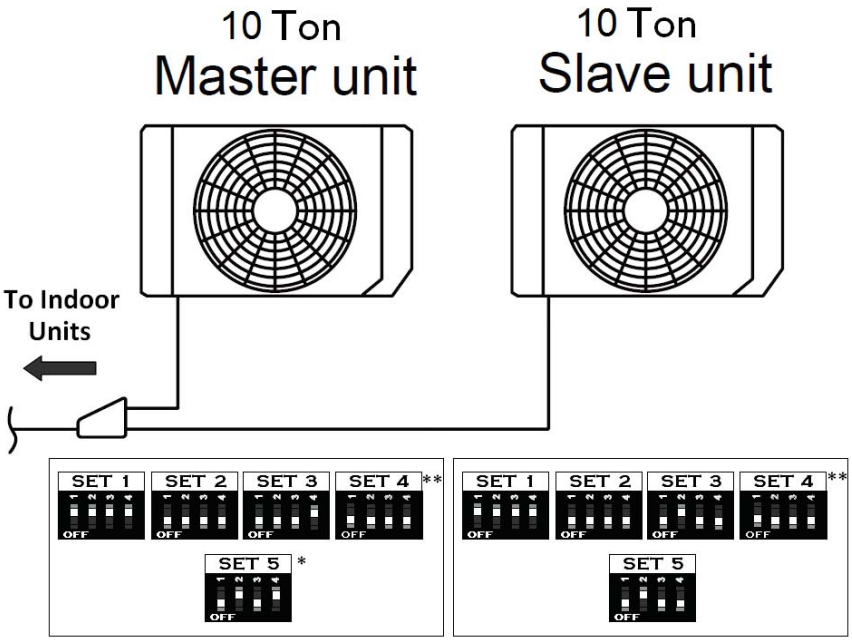
Heat-Pump (208/230V – 3 Phase) - (18 TONS) AOUA216RLBV1

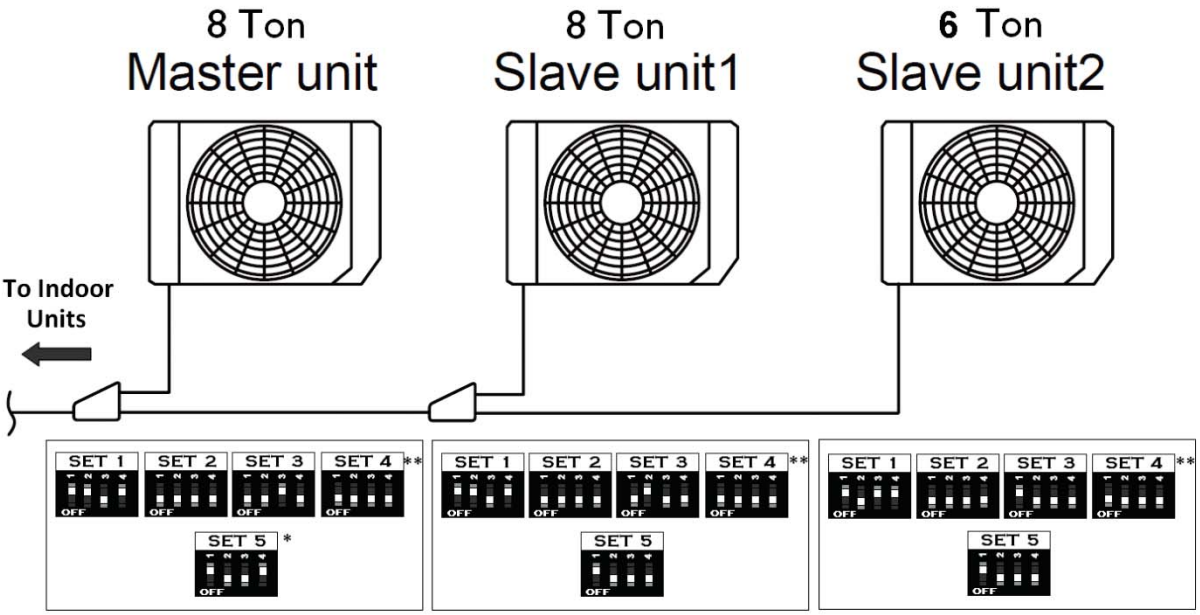


Heat-Pump (208/230V – 3 Phase) - (20 TONS) AOUA240RLBV1

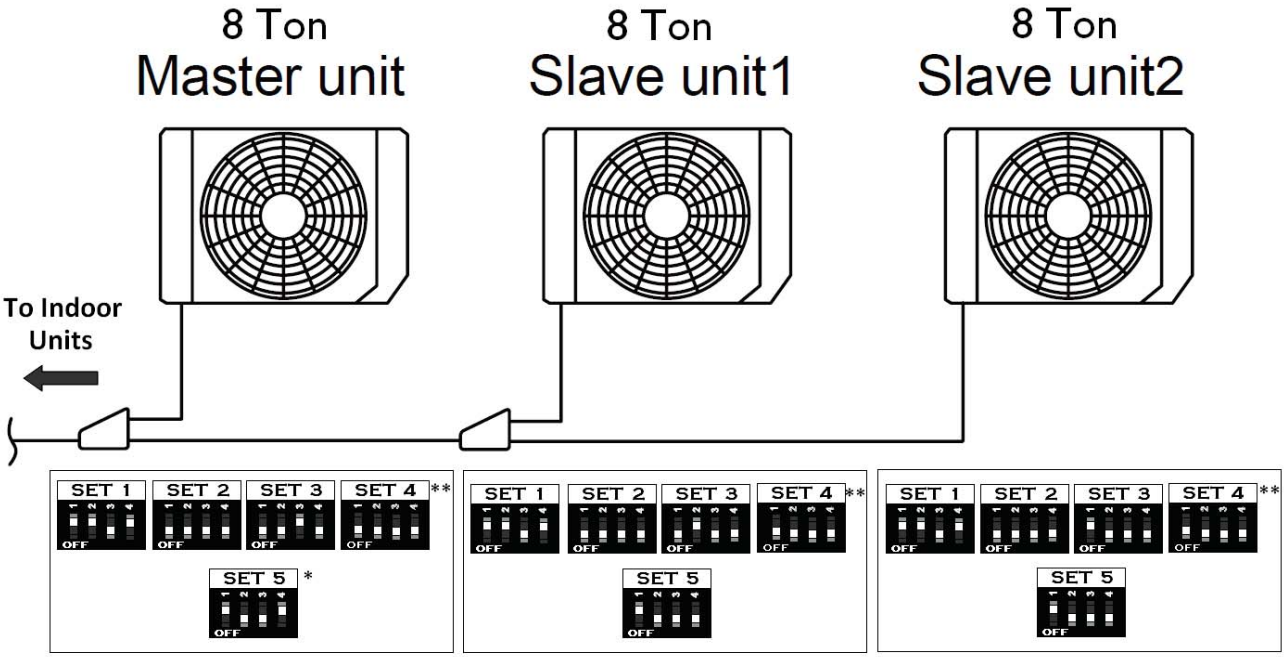


See Dip-SW SET5-4 and SET4-1 option on page 13.

Heat-Pump (208/230V – 3 Phase) - (22 TONS) AOUA264RLBV1



Heat-Pump (208/230V – 3 Phase) - (24 TONS) AOUA288RLBV1



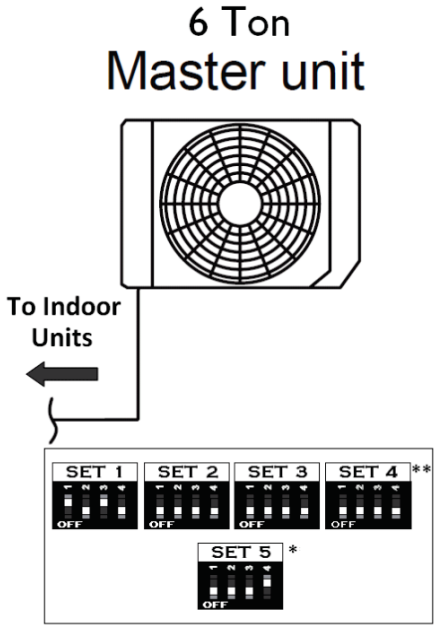
See Dip-SW SET5-4 and SET4-1 option on page 13.

* Dip-SW SET5-4 diagrams are only used with one refrigerant system configuration. When there are more than one refrigerant systems on a communication network, confirm that the setting of Dip-SW SET5-4 complies with the Terminal Resistor requirements in the Installation Manual.

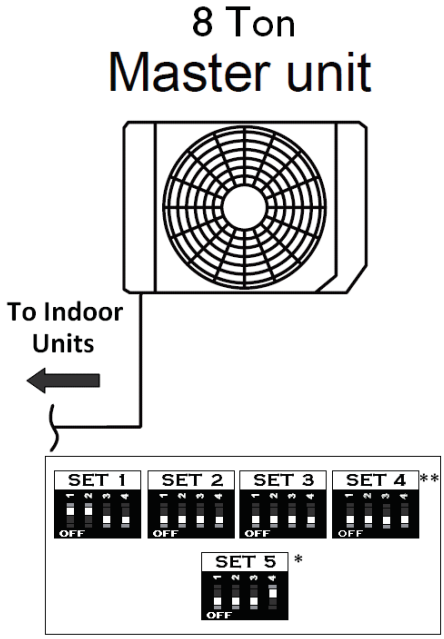
** Dip-SW SET4-1 in all Airstage outdoor units, except V-II 208/230V-3 Phase RLBV, provides a system protection function that is activated by default from the factory. When activated, Dip-SW SET4-1 is ON, the system will shut down whenever an indoor unit fails. If Dip-SW SET4-1 is set to OFF, a failure in an indoor unit will display error and the system will continue its normal operation. The activation of Dip-SW SET4-1 is crucial to VRF equipment protection. Under extreme conditions Fujitsu allows the de-activation of Dip-SW SET4-1 **ONLY AFTER closing the Isolation Valve/Ball Valve** connecting the failed indoor unit to the refrigerant system. Please refer to AE015 Bulletin for Isolation Ball Valves for proper installation of Isolation Ball valves in Heat Pump and Heat Recovery systems. The de-activation of Dip-SW SET4-1 without closing the indoor unit Isolation Valve/Ball Valve shall void the outdoor unit warranty. It is important to activate Dip-SW SET4-1 again immediately after the indoor unit failure has been rectified.

V-II Heat-Pumps (208/230V - 3 Phase) – Old model RLBV

Heat-Pump (208/230V – 3 Phase) - (6 TONS) AOUA72RLBV

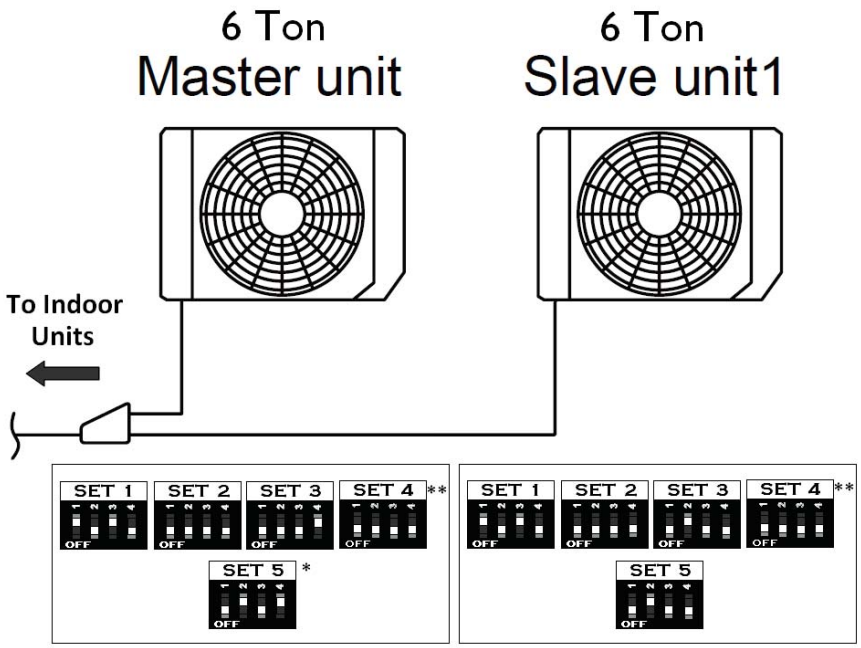


Heat-Pump (208/230V – 3 Phase) - (8 TONS) AOUA96RLBV

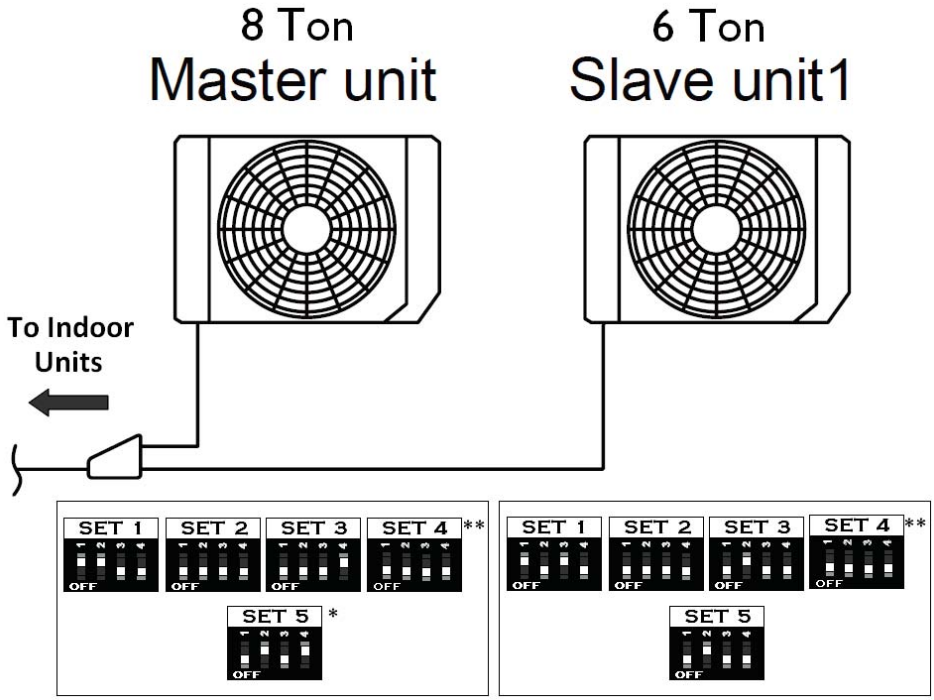


See Dip-SW SET5-4 and SET4-1 option on page 18.

Heat-Pump (208/230V – 3 Phase) - (12 TONS) AOUA144RLBVG

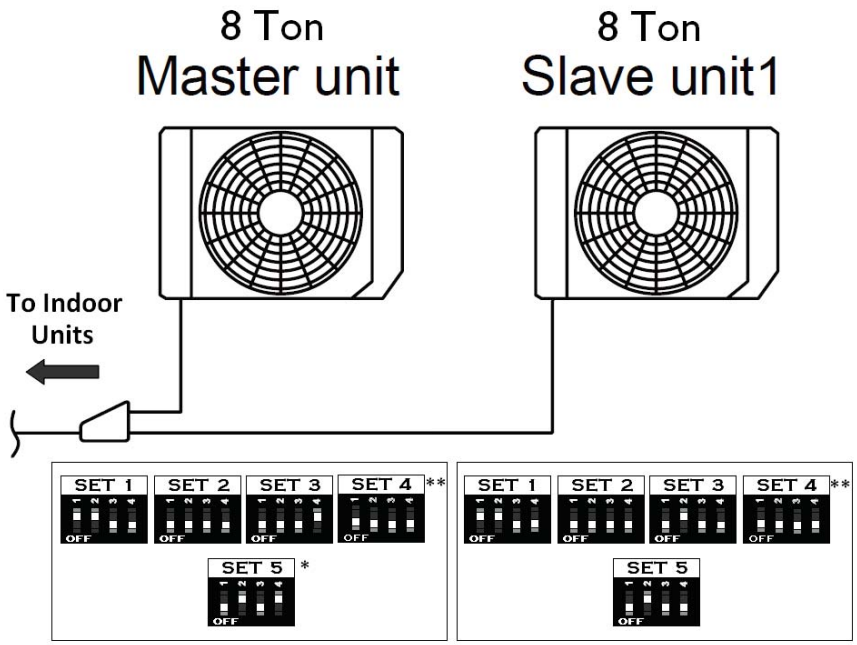


Heat-Pump (208/230V – 3 Phase) - (14 TONS) AOUA168RLBVG

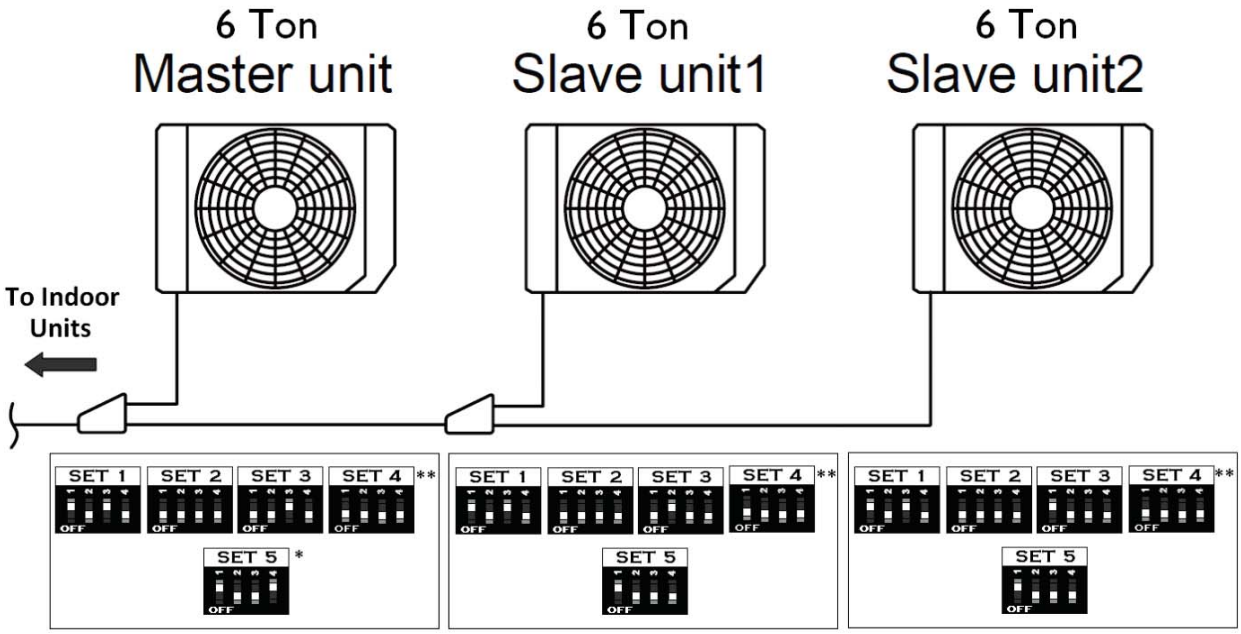


See Dip-SW SET5-4 and SET4-1 option on page 18.

Heat-Pump (208/230V – 3 Phase) - (16 TONS) AOUA192RLBVG

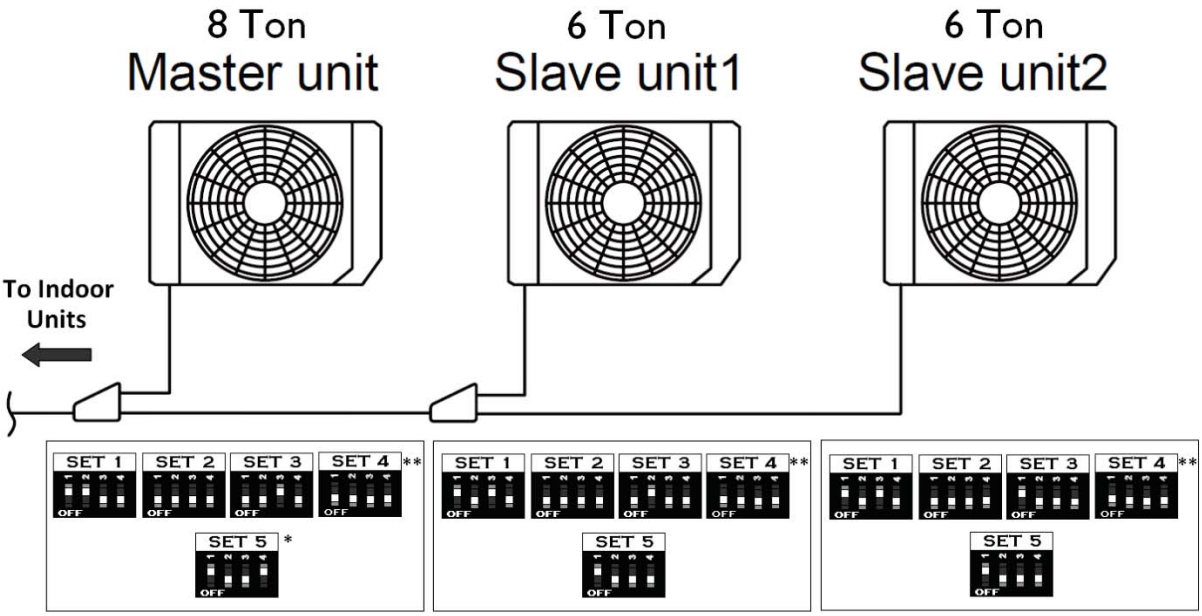


Heat-Pump (208/230V – 3 Phase) - (18 TONS) AOUA216RLBVG

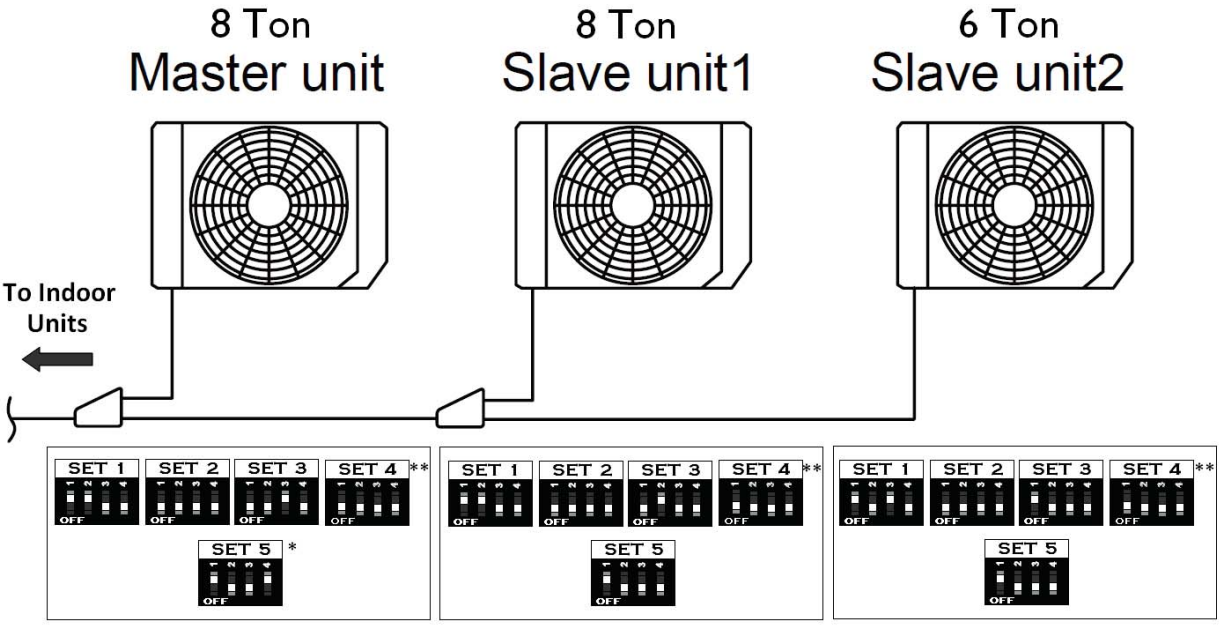


See Dip-SW SET5-4 and SET4-1 option on page 18.

Heat-Pump (208/230V – 3 Phase) - (20 TONS) AOUA240RLBVG



Heat-Pump (208/230V – 3 Phase) - (22 TONS) AOUA264RLBVG



See Dip-SW SET5-4 and SET4-1 option on page 18.

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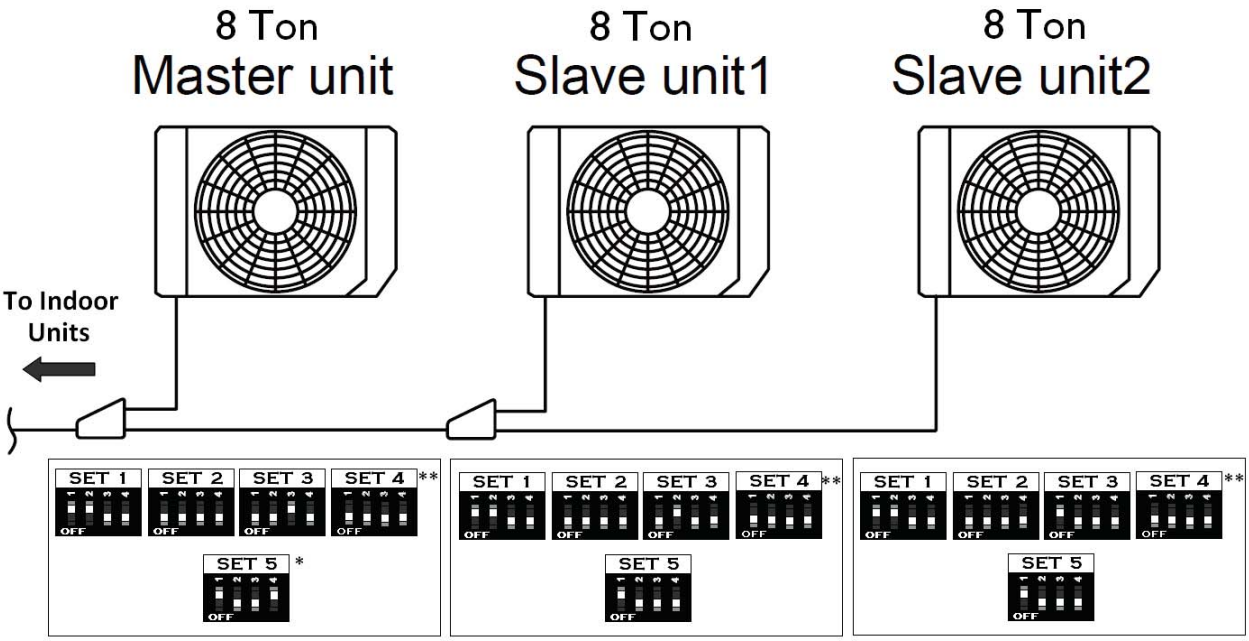
Heat-Pump (208/230V – 3 Phase) - (24 TONS) AOUA288RLBVG



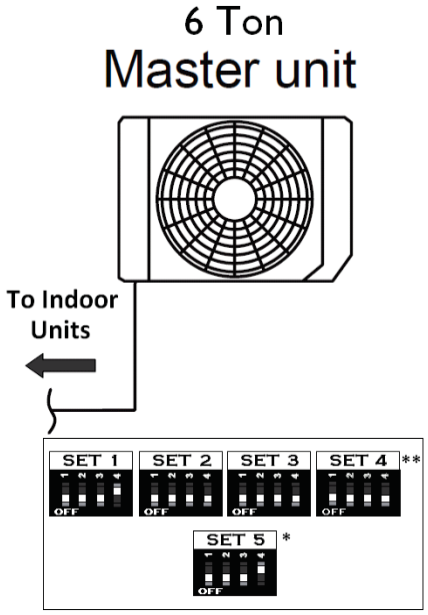
* Dip-SW SET5-4 diagrams are only used with one refrigerant system configuration. When there are more than one refrigerant systems on a communication network, confirm that the setting of Dip-SW SET5-4 complies with the Terminal Resistor requirements in the Installation Manual.

** Dip-SW SET4-1 in all Airstage outdoor units, except V-II 208/230V-3 Phase RLBV, provides a system protection function that is activated by default from the factory. When activated, Dip-SW SET4-1 is ON, the system will shut down whenever an indoor unit fails. If Dip-SW SET4-1 is set to OFF, a failure in an indoor unit will display error and the system will continue its normal operation. The activation of Dip-SW SET4-1 is crucial to VRF equipment protection. Under extreme conditions Fujitsu allows the de-activation of Dip-SW SET4-1 **ONLY AFTER closing the Isolation Valve/Ball Valve** connecting the failed indoor unit to the refrigerant system. Please refer to AE015 Bulletin for Isolation Ball Valves for proper installation of Isolation Ball valves in Heat Pump and Heat Recovery systems. The de-activation of Dip-SW SET4-1 without closing the indoor unit Isolation Valve/Ball Valve shall void the outdoor unit warranty. It is important to activate Dip-SW SET4-1 again immediately after the indoor unit failure has been rectified.

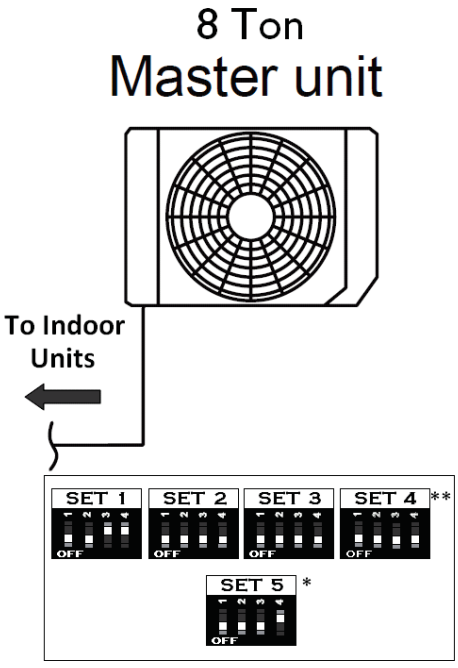
See Dip-SW SET5-4 and SET4-1 option on page 18.

V-II Heat-Pumps (460V - 3 Phase)

Heat-Pump (460V – 3 Phase) - (6 TONS) AOUA72RLCV

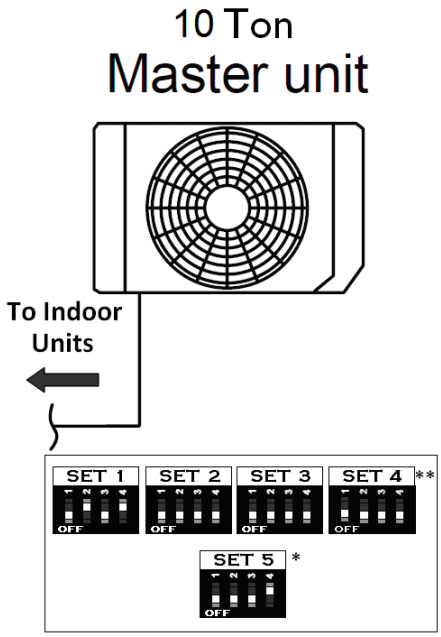


Heat-Pump (460V – 3 Phase) - (8 TONS) AOUA96RLCV

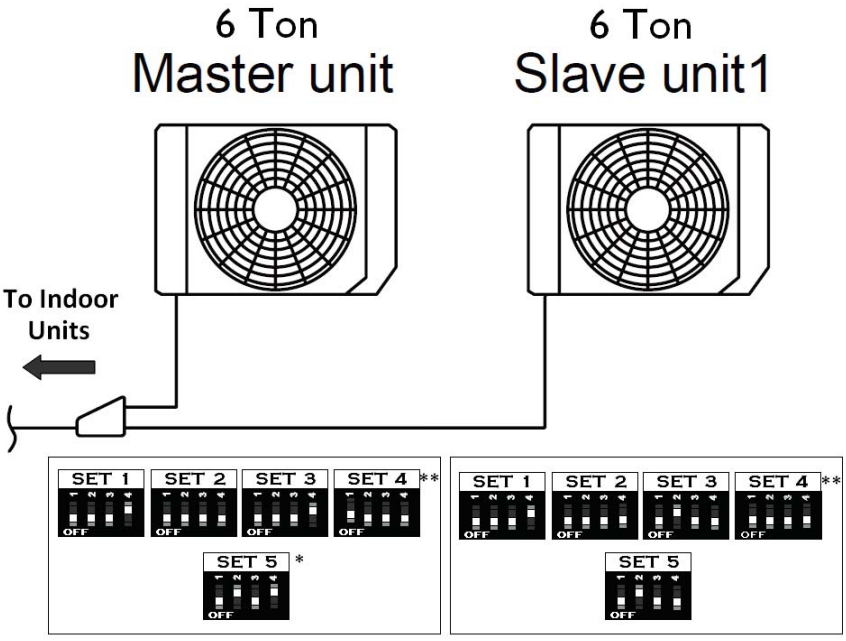


See Dip-SW SET5-4 and SET4-1 option on page 24.

Heat-Pump (460V – 3 Phase) - (10 TONS) AOUA120RLCV

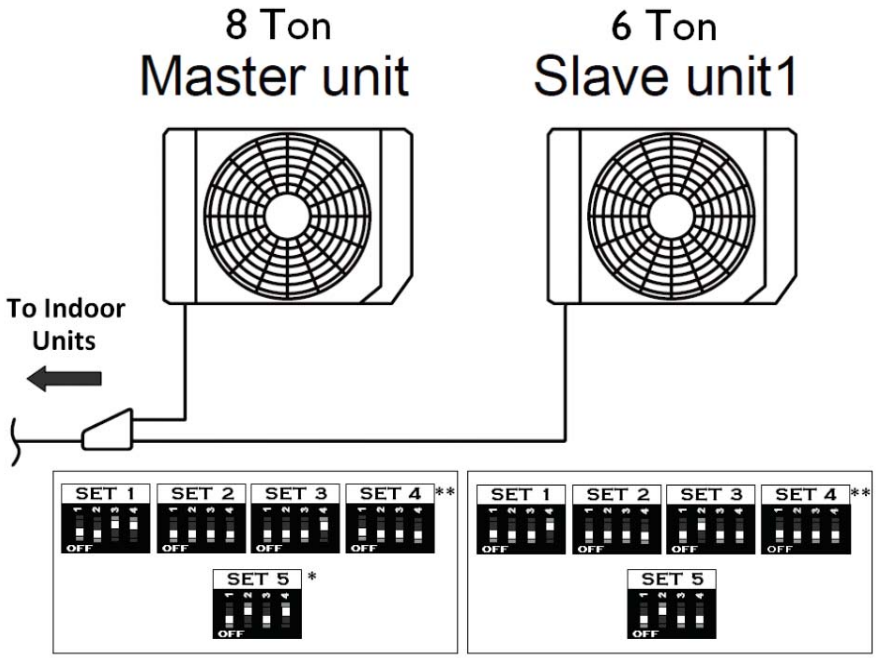


Heat-Pump (460V – 3 Phase) - (12 TONS) AOUA144RLCVG

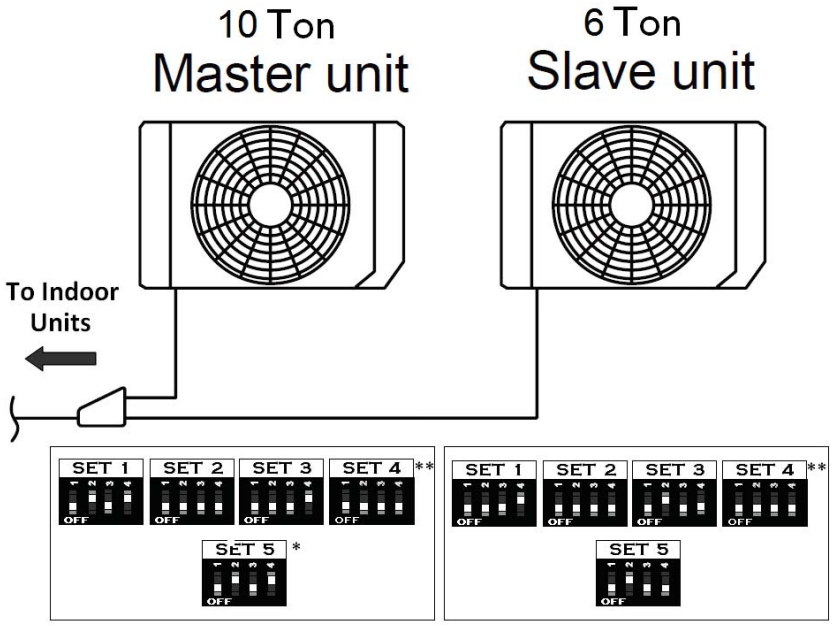


See Dip-SW SET5-4 and SET4-1 option on page 24.

Heat-Pump (460V – 3 Phase) - (14 TONS) AOUA168RLCVG

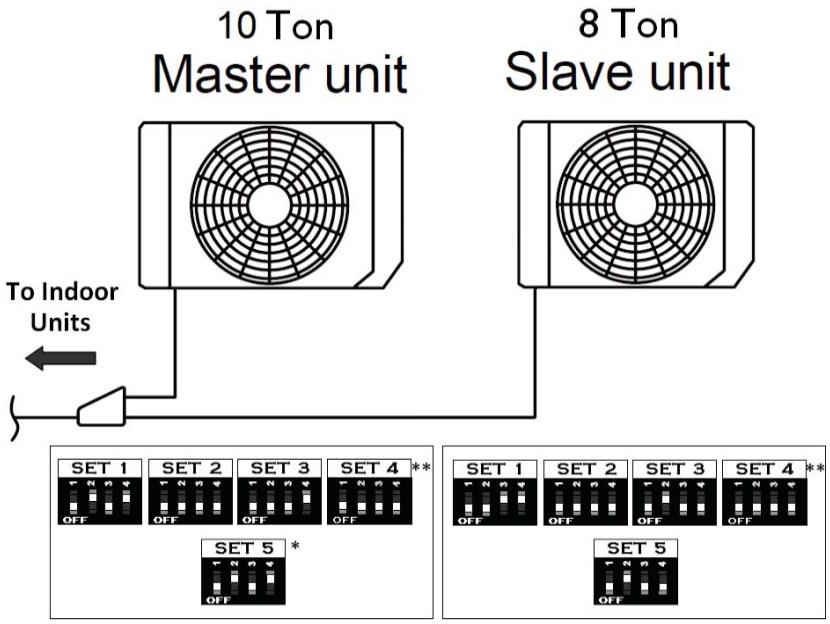


Heat-Pump (460V – 3 Phase) - (16 TONS) AOUA192RLCVG

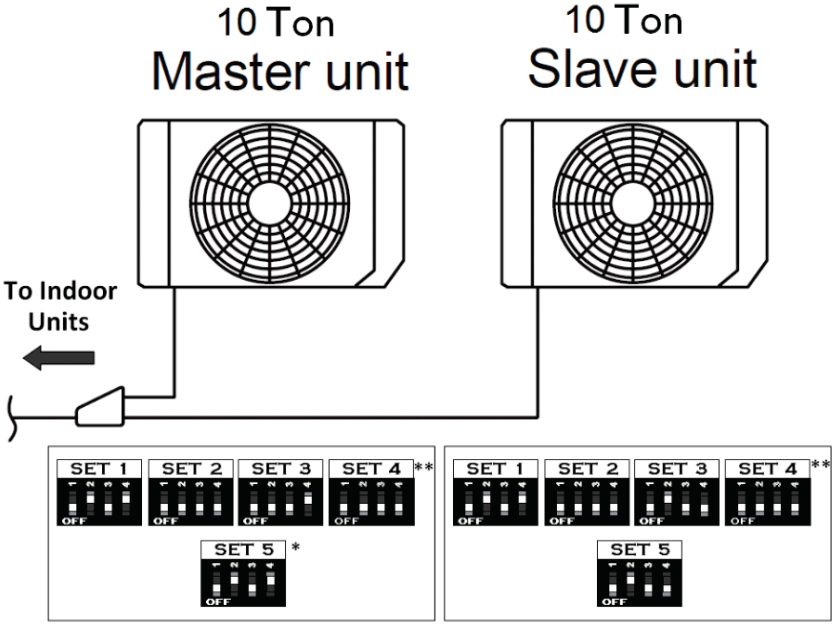


See Dip-SW SET5-4 and SET4-1 option on page 24.

Heat-Pump (460V – 3 Phase) - (18 TONS) AOUA216RLCVG

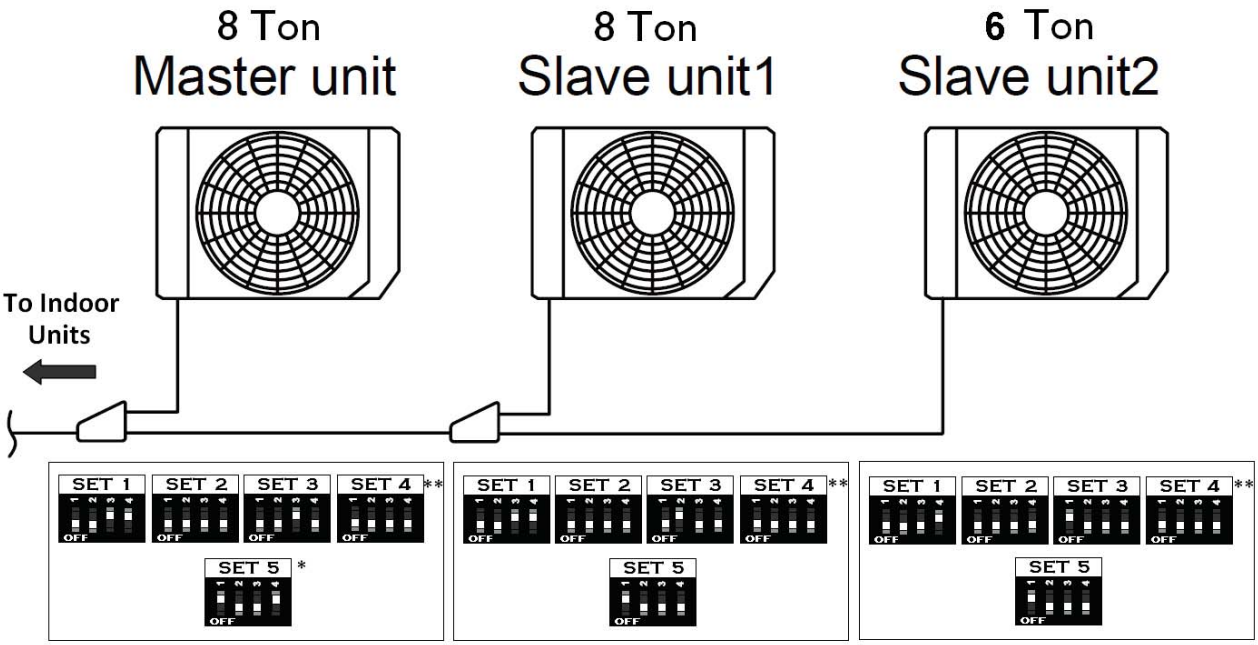


Heat-Pump (460V – 3 Phase) - (20 TONS) AOUA240RLCVG

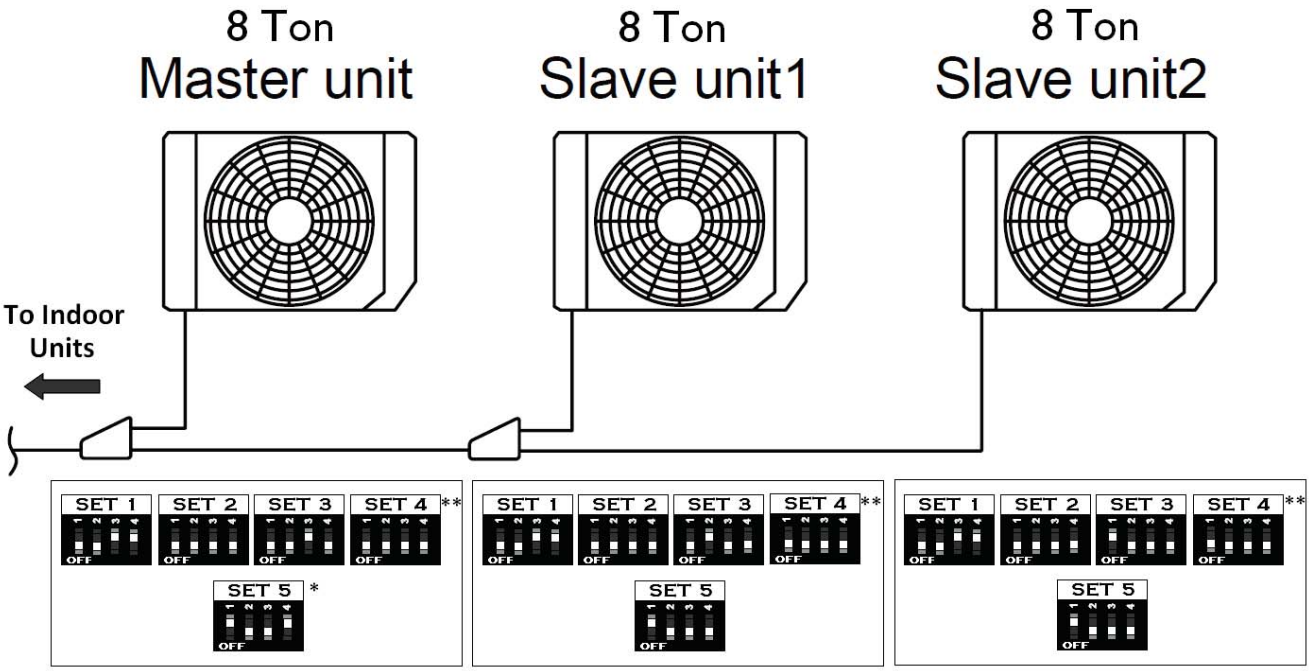


See Dip-SW SET5-4 and SET4-1 option on page 24.

Heat-Pump (460V – 3 Phase) - (22 TONS) AOUA264RLCVG



Heat-Pump (460V – 3 Phase) - (24 TONS) AOUA288RLCVG



See Dip-SW SET5-4 and SET4-1 option on page 24.

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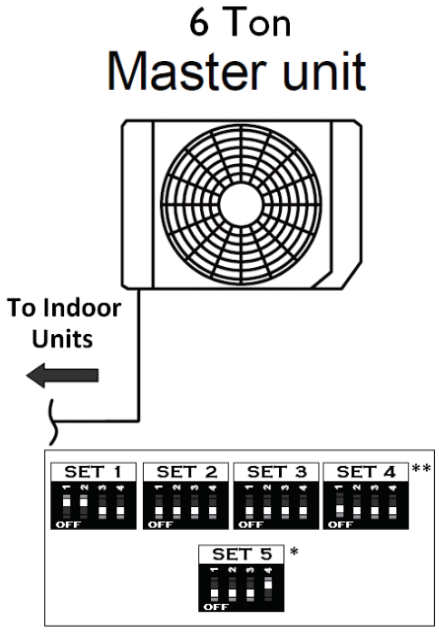
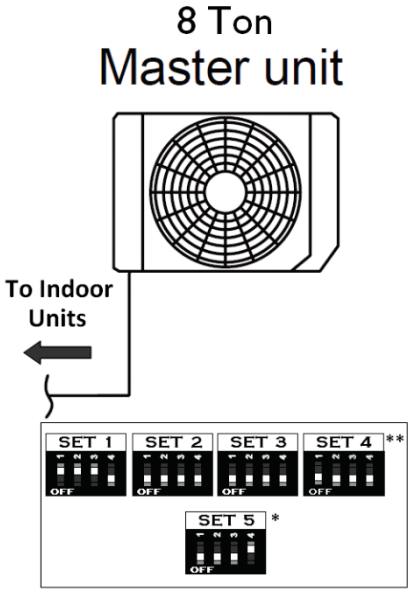
VR-II Heat Recovery (208/230V – 3 Phase)

Heat Recovery (208/230V – 3 Phase) - (6 TONS) AOUA72TLBV

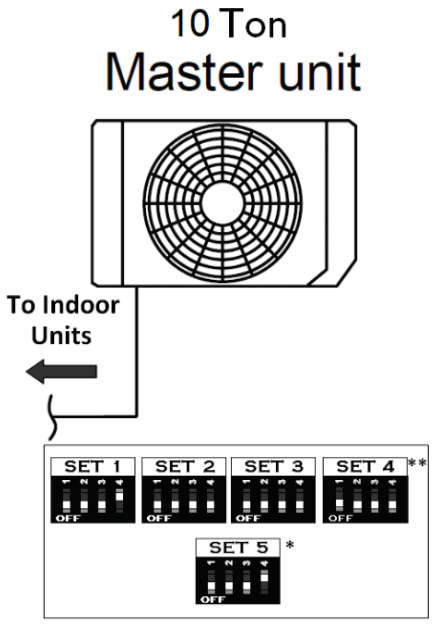


Heat Recovery (208/230V – 3 Phase) - (8 TONS) AOUA96TLBV

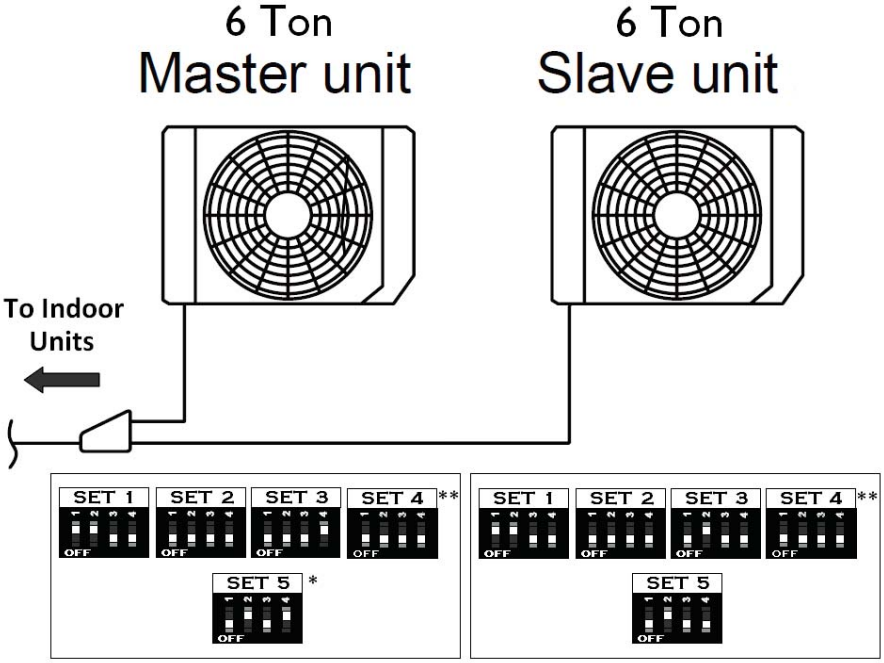


See Dip-SW SET5-4 and SET4-1 option on page 30.

Heat Recovery (208/230V – 3 Phase) - (10 TONS) AOUA120TLBV

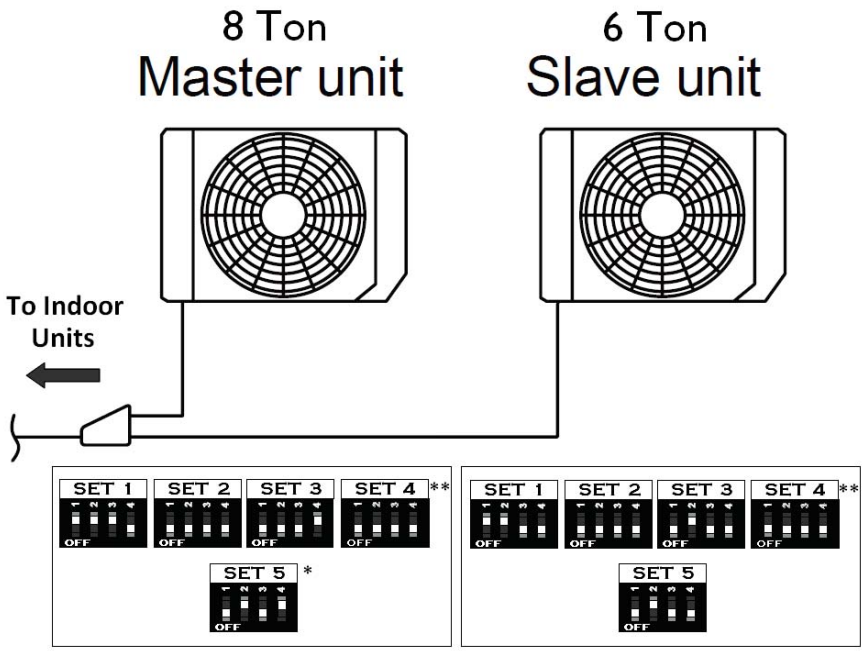


Heat Recovery (208/230V – 3 Phase) - (12 TONS) AOUA144TLBVG

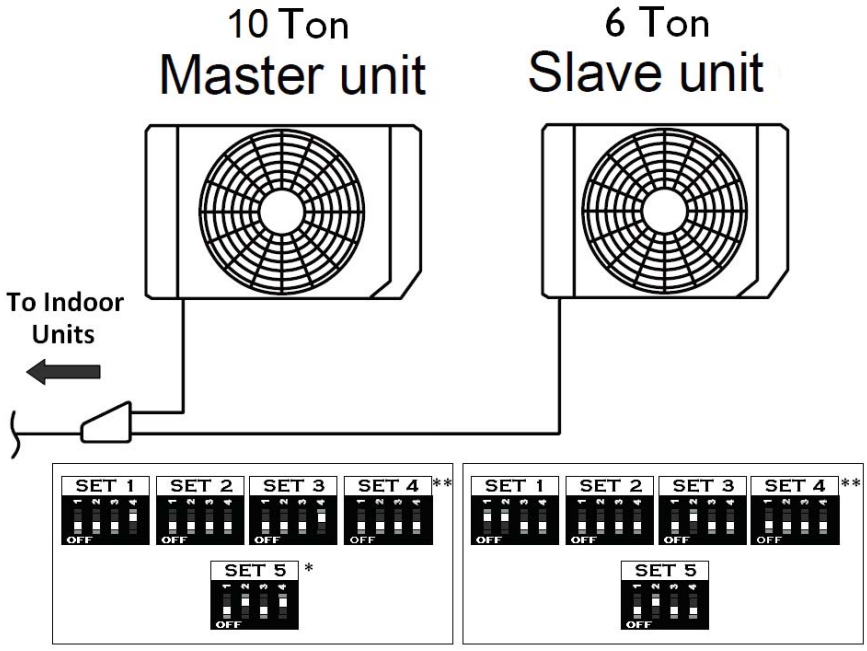


See Dip-SW SET5-4 and SET4-1 option on page 30.

Heat Recovery (208/230V – 3 Phase) - (14 TONS) AOUA168TLBVG

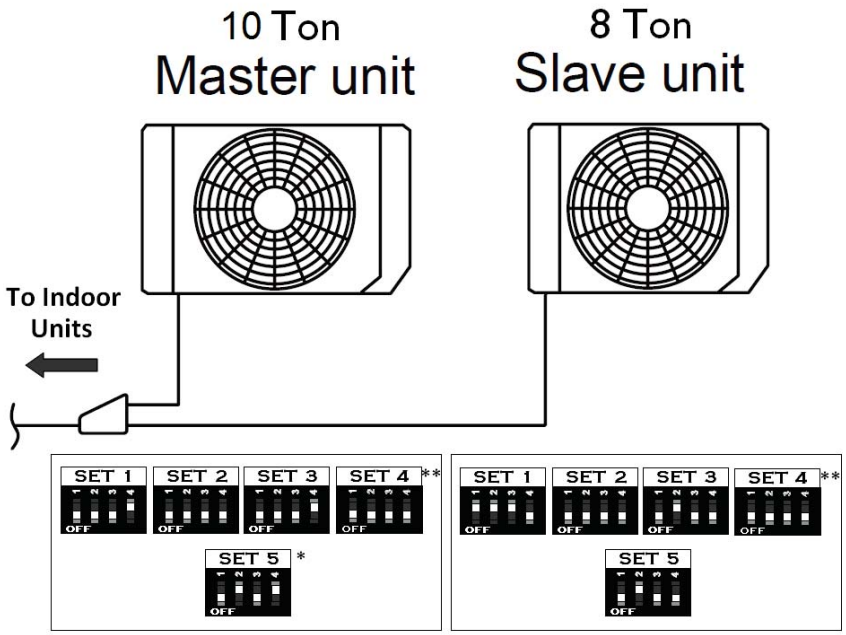


Heat Recovery (208/230V – 3 Phase) - (16 TONS) AOUA192TLBVG

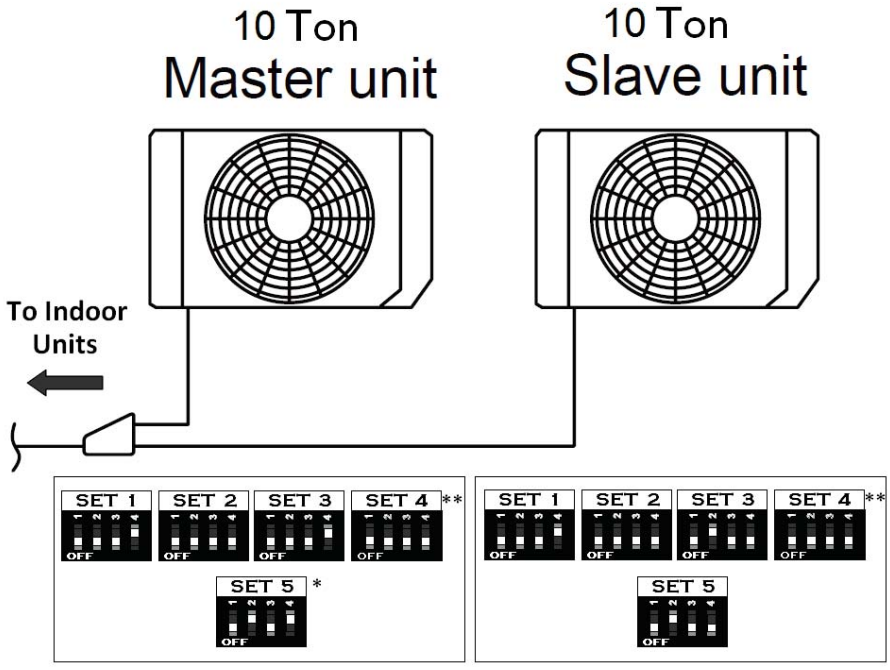


See Dip-SW SET5-4 and SET4-1 option on page 30.

Heat Recovery (208/230V – 3 Phase) - (18 TONS) AOUA216TLBVG

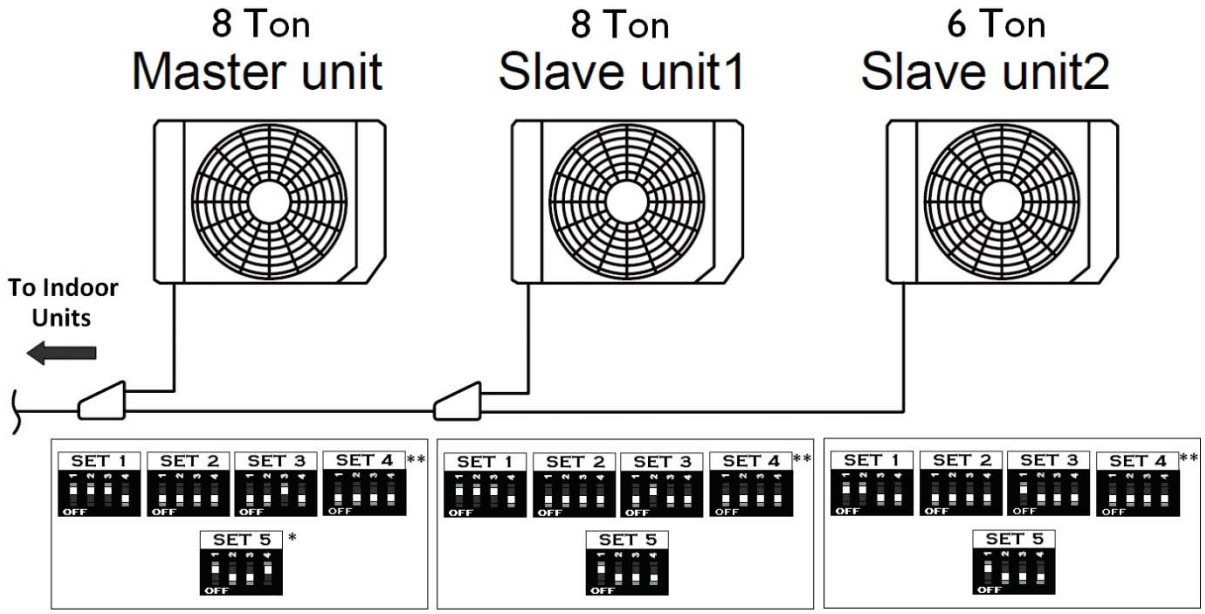


Heat Recovery (208/230V – 3 Phase) - (20 TONS) AOUA240TLBVG

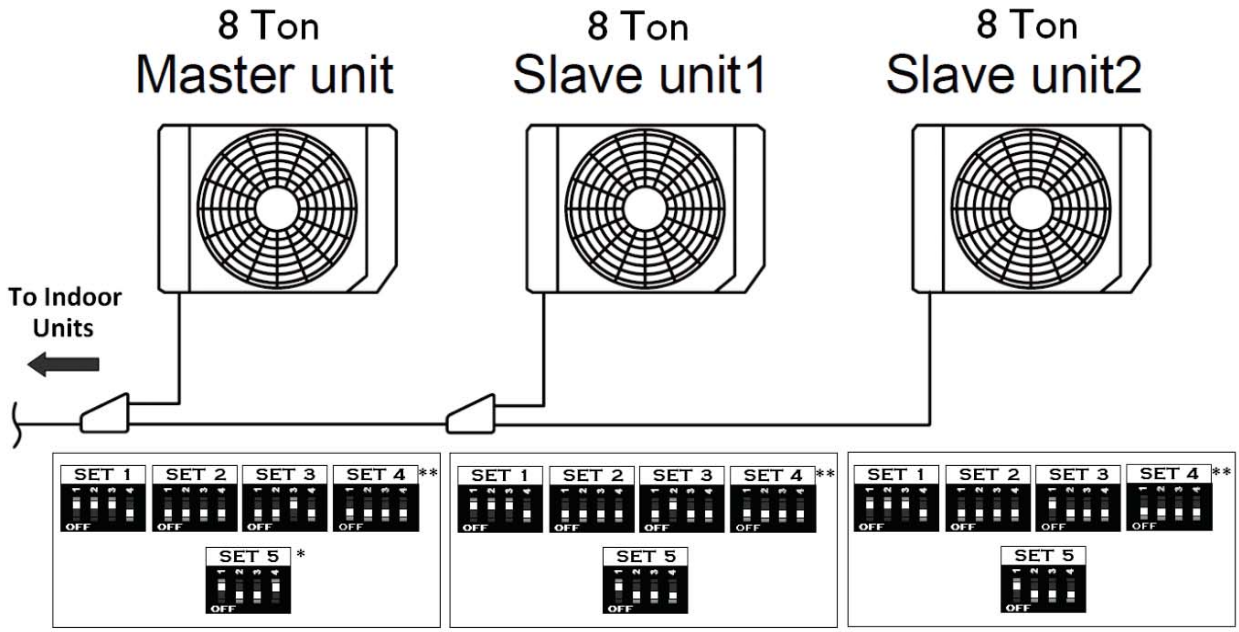


See Dip-SW SET5-4 and SET4-1 option on page 30.

Heat Recovery (208/230V – 3 Phase) - (22 TONS) AOUA264TLBVG



Heat Recovery (208/230V – 3 Phase) - (24 TONS) AOUA288TLBVG



See Dip-SW SET5-4 and SET4-1 option on page 30.

* Dip-SW SET5-4 diagrams are only used with one refrigerant system configuration. When there are more than one refrigerant systems on a communication network, confirm that the setting of Dip-SW SET5-4 complies with the Terminal Resistor requirements in the Installation Manual.

** Dip-SW SET4-1 in all Airstage outdoor units, except V-II 208/230V-3 Phase RLBV, provides a system protection function that is activated by default from the factory. When activated, Dip-SW SET4-1 is ON, the system will shut down whenever an indoor unit fails. If Dip-SW SET4-1 is set to OFF, a failure in an indoor unit will display error and the system will continue its normal operation. The activation of Dip-SW SET4-1 is crucial to VRF equipment protection. Under extreme conditions Fujitsu allows the de-activation of Dip-SW SET4-1 **ONLY AFTER closing the Isolation Valve/Ball Valve** connecting the failed indoor unit to the refrigerant system. Please refer to AE015 Bulletin for Isolation Ball Valves for proper installation of Isolation Ball valves in Heat Pump and Heat Recovery systems. The de-activation of Dip-SW SET4-1 without closing the indoor unit Isolation Valve/Ball Valve shall void the outdoor unit warranty. It is important to activate Dip-SW SET4-1 again immediately after the indoor unit failure has been rectified.

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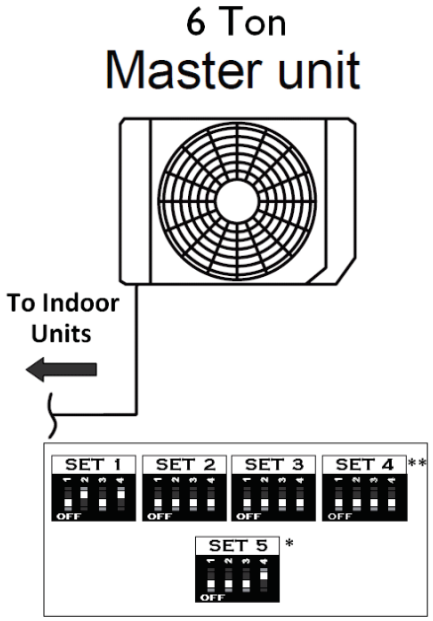
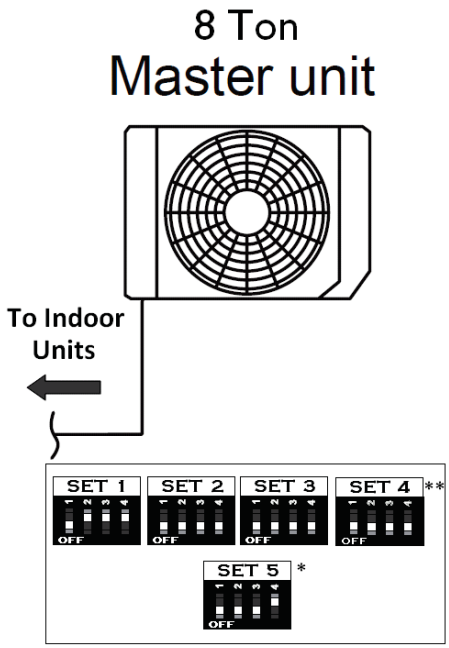
VR-II Heat Recovery (460V – 3 Phase)

Heat Recovery (460V – 3 Phase) - (6 TONS) AOUA72TLCV

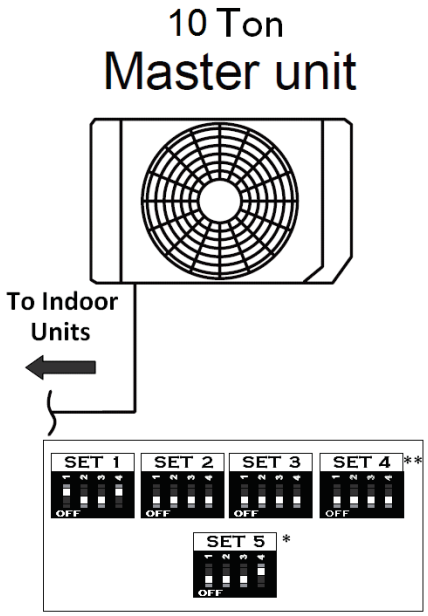


Heat Recovery (460V – 3 Phase) - (8 TONS) AOUA96TLCV

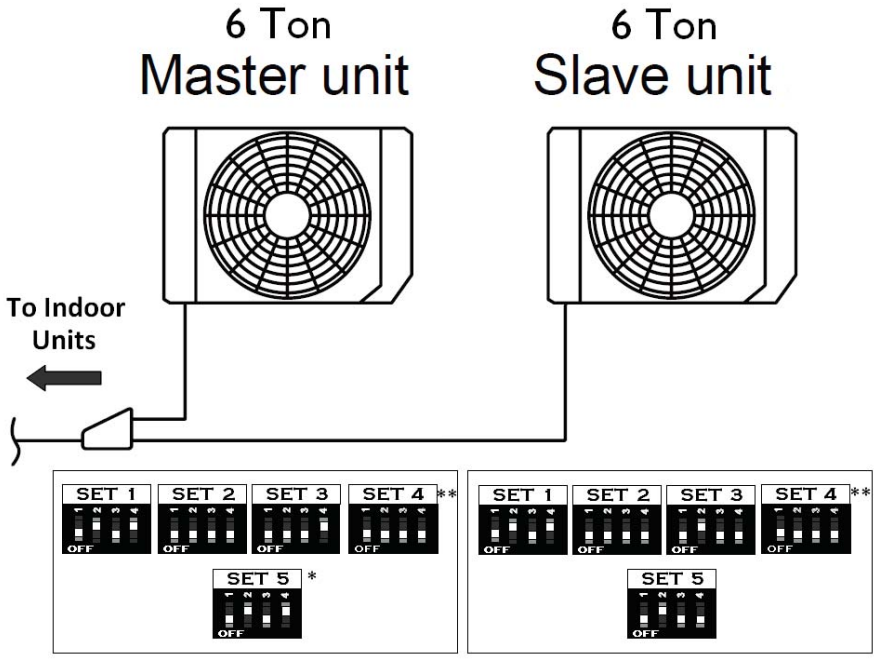


See Dip-SW SET5-4 and SET4-1 option on page 36.

Heat Recovery (460V – 3 Phase) - (10 TONS) AOUA120TLCV

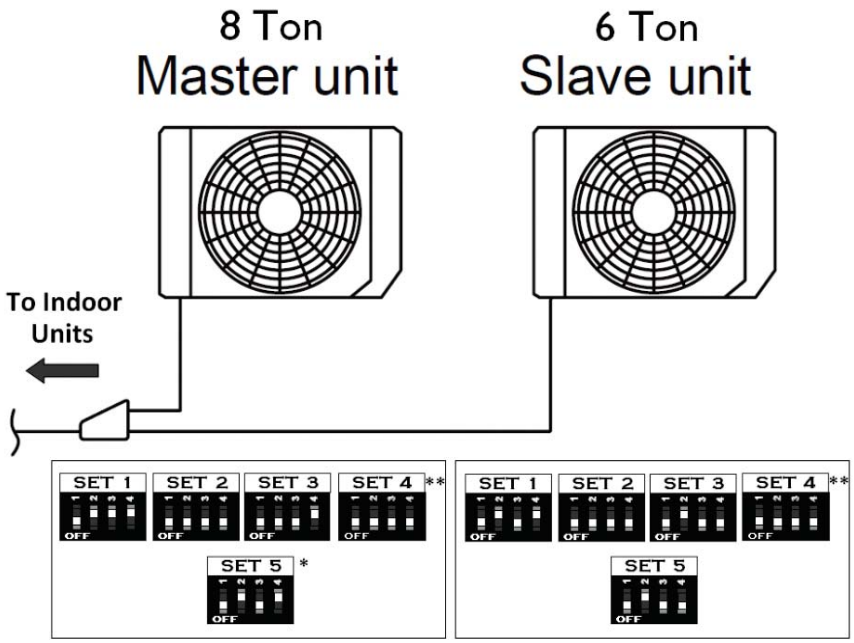


Heat Recovery (460V – 3 Phase) - (12 TONS) AOUA144TLCVG

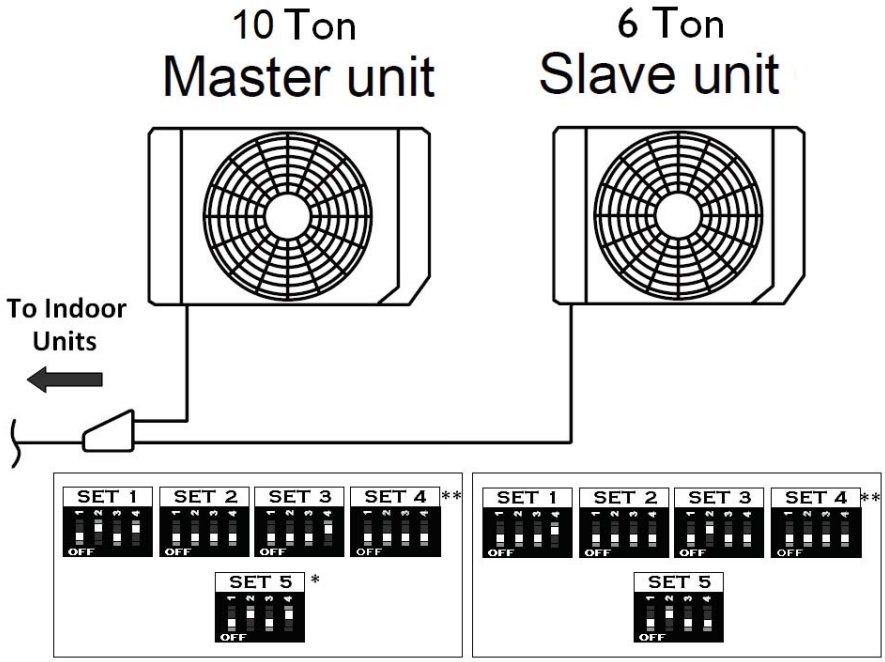


See Dip-SW SET5-4 and SET4-1 option on page 36.

Heat Recovery (460V – 3 Phase) - (14 TONS) AOUA168TLCVG

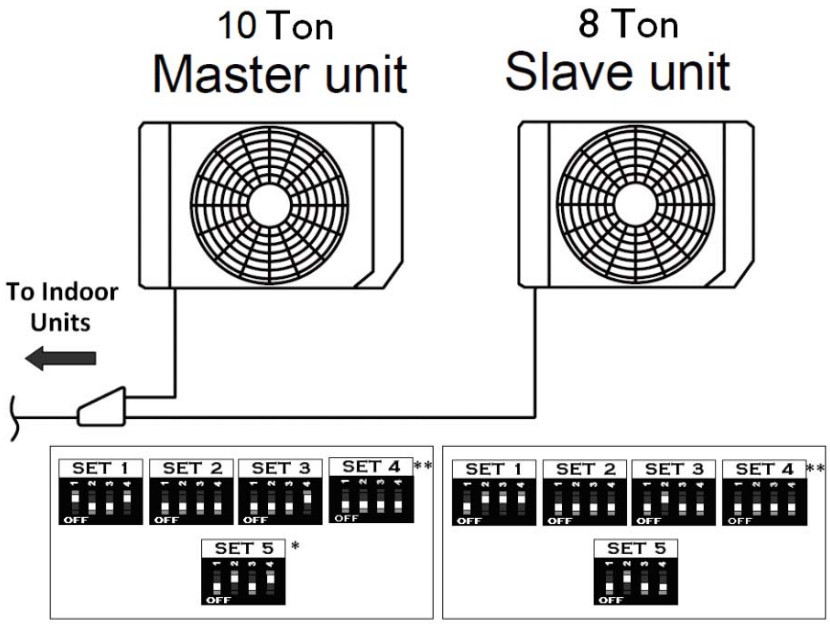


Heat Recovery (460V – 3 Phase) - (16 TONS) AOUA192TLCVG

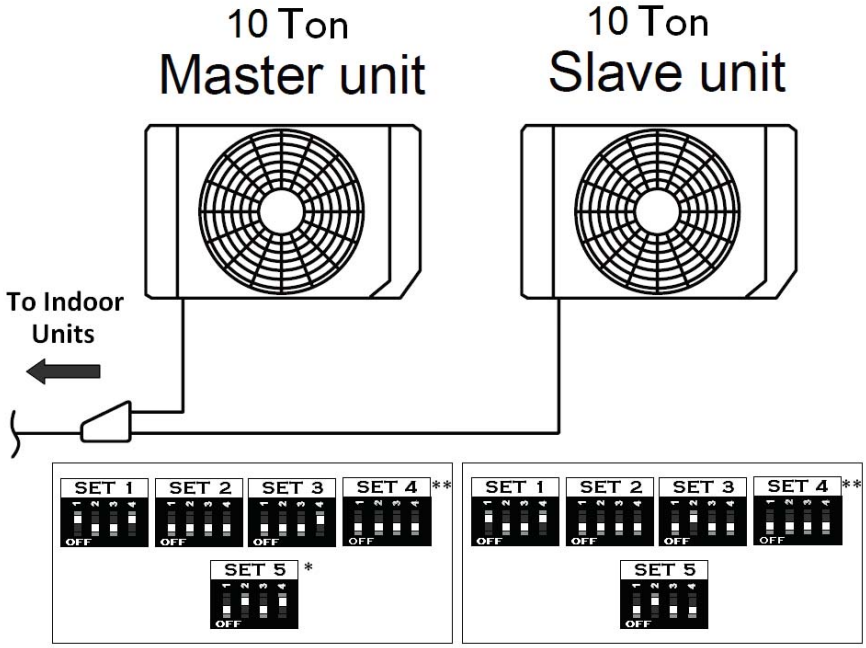


See Dip-SW SET5-4 and SET4-1 option on page 36.

Heat Recovery (460V – 3 Phase) - (18 TONS) AOUA216TLCVG

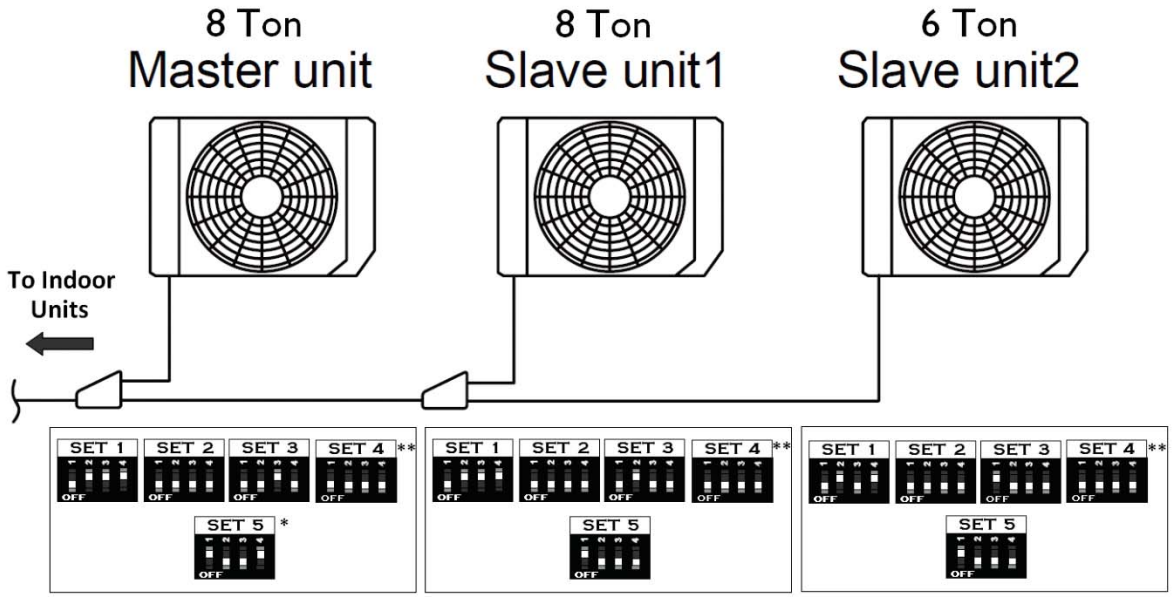


Heat Recovery (460V– 3 Phase) - (20 TONS) AOUA240TLCVG

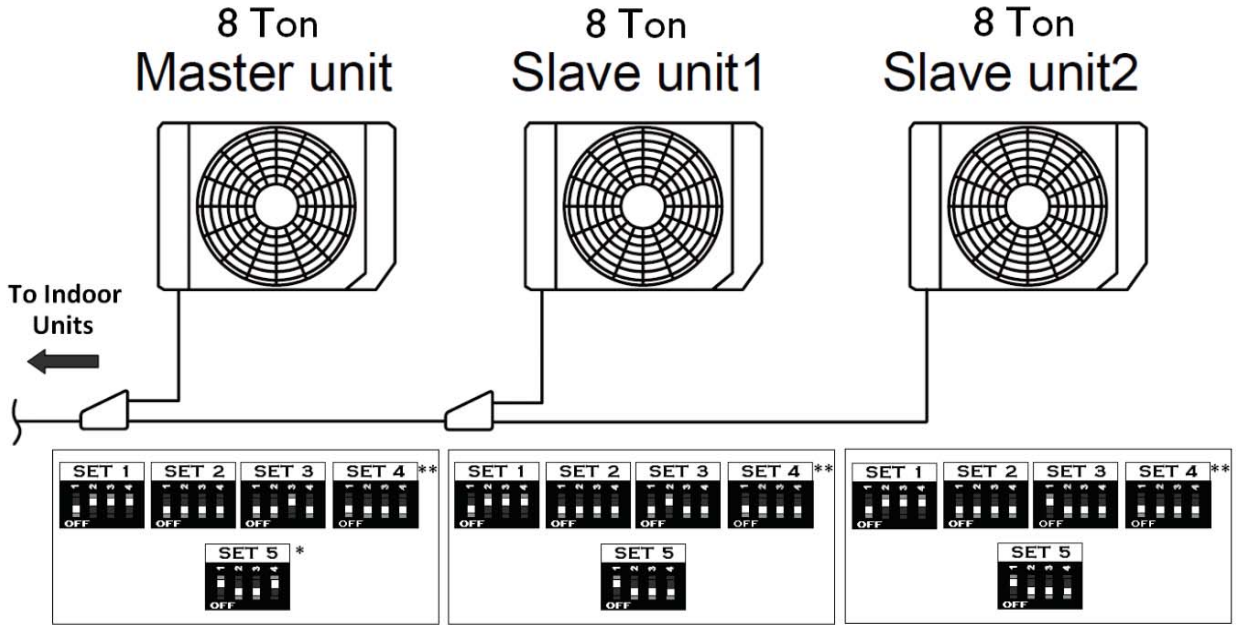


See Dip-SW SET5-4 and SET4-1 option on page 36.

Heat Recovery (460V – 3 Phase) - (22 TONS) AOUA264TLCVG



Heat Recovery (460V – 3 Phase) - (24 TONS) AOUA288TLCVG



See Dip-SW SET5-4 and SET4-1 option on page 36.

* Dip-SW SET5-4 diagrams are only used with one refrigerant system configuration. When there are more than one refrigerant systems on a communication network, confirm that the setting of Dip-SW SET5-4 complies with the Terminal Resistor requirements in the Installation Manual.

** Dip-SW SET4-1 in all Airstage outdoor units, except V-II 208/230V-3 Phase RLBV, provides a system protection function that is activated by default from the factory. When activated, Dip-SW SET4-1 is ON, the system will shut down whenever an indoor unit fails. If Dip-SW SET4-1 is set to OFF, a failure in an indoor unit will display error and the system will continue its normal operation. The activation of Dip-SW SET4-1 is crucial to VRF equipment protection. Under extreme conditions Fujitsu allows the de-activation of Dip-SW SET4-1 **ONLY AFTER closing the Isolation Valve/Ball Valve** connecting the failed indoor unit to the refrigerant system. Please refer to AE015 Bulletin for Isolation Ball Valves for proper installation of Isolation Ball valves in Heat Pump and Heat Recovery systems. The de-activation of Dip-SW SET4-1 without closing the indoor unit Isolation Valve/Ball Valve shall void the outdoor unit warranty. It is important to activate Dip-SW SET4-1 again immediately after the indoor unit failure has been rectified.