



MOOVAIR[®] CENTRAL-MOOV



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QUICKSTART GUIDE INSTALLATION AT A GLANCE

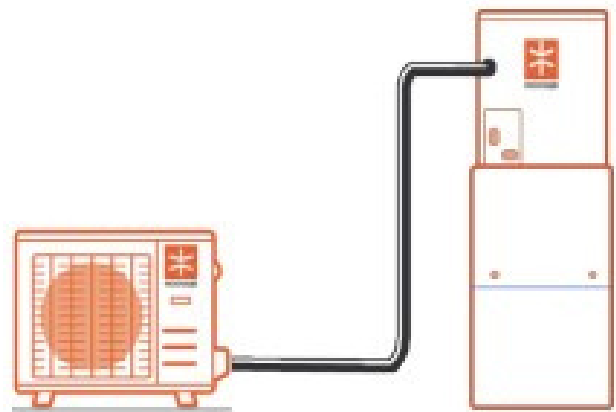
Piping Dimensions (Refrigerant Pre-Charge 25ft)

Condenser Size (BTU/h)	18,000	24,000	30,000	36,000	48,000	60,000
Liquid Line (in) <i>Does not require insulation</i>	3/8	3/8	3/8	3/8	3/8	3/8
Gas Line (in)	3/4	3/4	3/4	3/4	3/4	7/8
Max Line Set Length (ft)	98	164	213	213	213	213
Min Line Set Length (ft)	10	10	10	10	10	10
Max Height Difference (ft)	62	82	98	98	98	98
Refrigerant Added	.69 ounces per foot beyond 25ft.					

Please Note: Filter driers cannot be installed with the Central-MOOV system

Torque Settings

Pipe Gauge	Tightening Torque	Flare Dimensions (in)		Flare Shape
		Min.	Max.	
1/4"	18-20 N.m. 13-14 ft-lb	0.33	0.34	
3/8"	32-39 N.m. 23-28 ft-lb	0.52	0.53	
1/2"	49-59 N.m. 36-43 ft-lb	0.64	0.65	
5/8"	57-71 N.m. 42-52 ft-lb	0.76	0.78	
3/4"	67-101 N.m. 49-74 ft-lb	0.91	0.93	
7/8"	85-110 N.m. 62-81 ft-lb	1.04	1.06	



CAUTION



To maintain the product warranty, it is required to flow nitrogen when choosing to braze.



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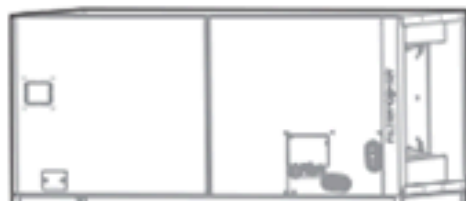
Selection of Installation Direction

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Different Installation Directions - unit can be installed in a **Vertical** (down and up) and **Horizontal** (right and left) configuration.



Vertical



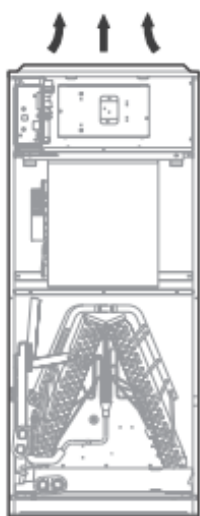
Horizontal



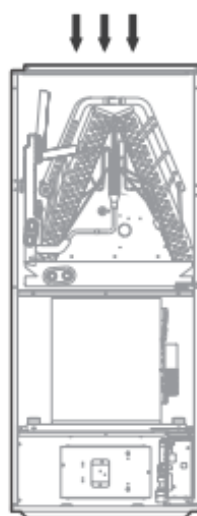
NOTICE

- A field fabricated secondary drain pan, with a drain pipe to the outside of the building, is required in all installations over a finished living space or in any area that may be damaged by overflow from the main drain pan. In some localities, local codes may require a secondary drain pan for any horizontal installation.

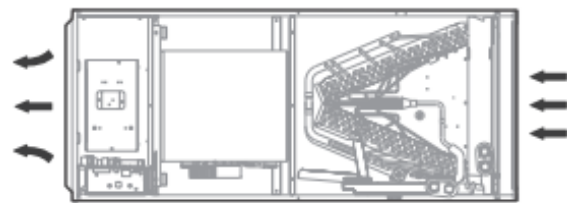
Airflow Direction of Different Installation Directions



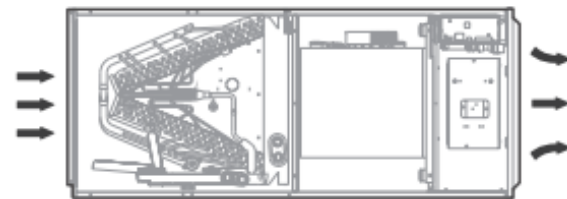
Upflow



Downflow



Horizontal left



Horizontal right



NOTICE

- When the application calls for an orientation of Upflow or Horizontal Left, there is no change required to the direction of the evaporator coil. When using a Downflow or Horizontal Right orientation, the T1 thermistor must be relocated to the return airstream using the releasable wires ties that are included with the unit.



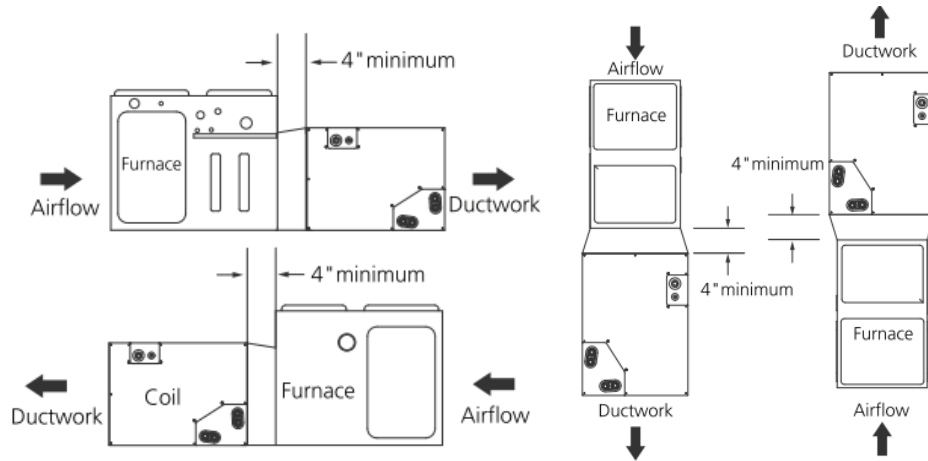
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Add-On Coil Installation Options

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Coil Installation Options



NOTICE

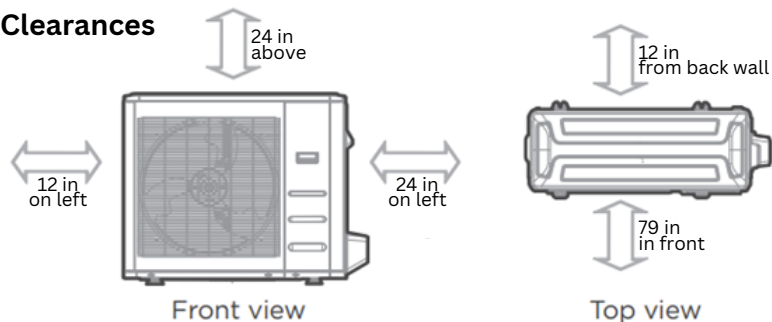
- When installing the CUB coil in a downflow application or on a furnace of a different width, it is critical to use minimum 4-inch transition as per the installation document shipped with the unit.

Clearances, Connection Point, and Operating Limit Conditions

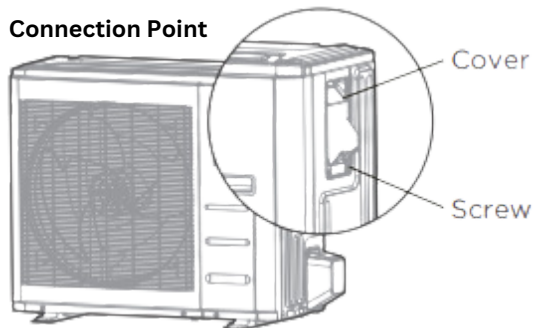
NOTICE

- In addition to the clearance requirements shown, it is important to use a firm, solid base and secure the unit to prevent tipping.

Clearances



Connection Point



Operating Limit Conditions

Air Temperature	Indoor		Outdoor	
	Cooling	Heating	Cooling	Heating
Minimum	60 F	32 F	5 F	-22 F
Maximum	90 F	86 F	122 F	75 F

CAUTION

HVAC inverters may retain electrical charge after disconnection. Wait 10 minutes before handling or performing any electrical work.



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Single Point Connection

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Please note that **Moovair models** listed below have been approved to use a single-point connection. To do this, you must perform the following 2 steps:

1. Use a single point connector **TBD (15 kW & 20 kW)**.
2. Field installed two wires between the circuit breaker and the connection terminal block of the Air Handler.
Please refer to the wiring diagrams on following page(s).

Moovair Central-Moov models:

- **18,000 BTU:** FMA18HIAHUU230X7 (Indoor) / DMA18HOS20230E7 (Outdoor)
- **24,000 BTU:** FMA24HIAHUU230X7 (Indoor) / DMA24HOS20230E7 (Outdoor)
- **30,000 BTU:** FMA30HIAHUU230X7 (Indoor) / DMA30HOS20230E7 (Outdoor)
- **36,000 BTU:** FMA36HIAHUU230X7 (Indoor) / DMC36HOS20230E7 (Outdoor)
- **48,000 BTU:** FMA48HIAHUU230X7 (Indoor) / DMA48HOS20230E7 (Outdoor)
- **60,000 BTU:** FMA60HIAHUU230X7 (Indoor) / DMA60HOS20230E7 (Outdoor)

Model	Group	Voltage	Min. circuit ampacity (w1)	Min. circuit ampacity (w2)	Max. fuse (w1)	Max. fuse (w2)	Full load amps	Total MCA	Max. fuse total
		208V	23		25		18	23	25
EAH-05B-UL	5KW, W1	230V	27		30		20	27	30
		240V Rated	27		30		21	27	30
		208V	37		40		28.8	37	40
EAH-08B-UL	8KW, W1	230V	37		45		30.4	42	45
		240V Rated	42		45		32	42	45
		208V	46		50		36.1	46	50
EAH-10B-UL	10KW, W1	230V	53		60		40	53	60
		240V Rated	53		60		41.7	53	60
		208V	46	23	50	25	54.1	69	70
EAH-15B-UL	10KW+5KW, W1+W2	230V	53	27	60	30	60	80	90
		240V Rated	53	27	60	30	62.5	80	90
		208V	46	46	50	50	72.1	92	100
EAH-20B-UL	10KW+10KW, W1+W2	230V	53	53	60	60	80	106	110
		240V Rated	53	53	60	60	83.4	106	110



NOTICE

- There are no airflow adjustments required as the indoor fan motor is rated up to 0.8 IWC static pressure, which is strong enough to handle most residential applications.



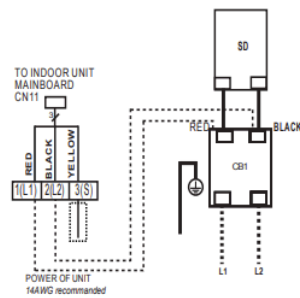
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Single Point Connection

3KW/5KW HEAT KIT

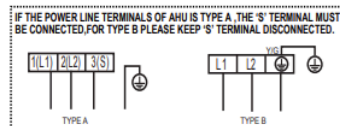
- : THERMAL CUT-OUT
- : THERMAL LINK, SELF-RESETTING



NOTE1: This symbol indicates the element is optional. The wiring type of the actual unit shall prevail.

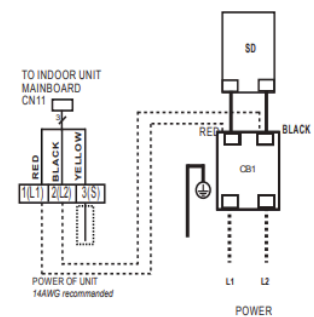
NOTE2: PLEASE ATTACH THE NAMEPLATE TO THE COVER OF THE ELECTRIC CONTROL BOX. ALL THE ROUND HOLES LOCATED ON THE PLATE REPRESENT NUMBERS. PLEASE REFER TO THE INSTALLATION MANUAL FOR DETAILS.

Round hole number	Relay number	Round hole number	Air switch number
○	RELAY 1	○	CB1
○○			
○○○			
○○○○			
○○○○○			



8KW/10KW HEAT KIT

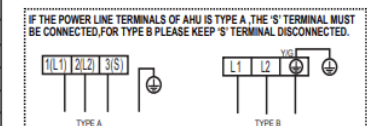
- : THERMAL CUT-OUT
- : THERMAL LINK, SELF-RESETTING



NOTE1: This symbol indicates the element is optional. The wiring type of the actual unit shall prevail.

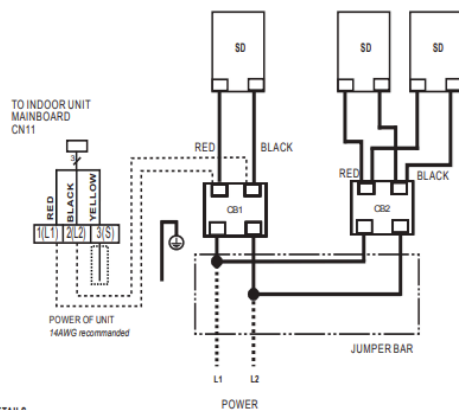
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Round hole number	Relay number	Round hole number	Air switch number
○	RELAY 1	○	CB1
○○	RELAY 2		
○○○			
○○○○			
○○○○○			



15KW HEAT KIT

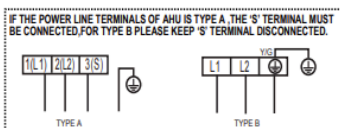
- : THERMAL CUT-OUT
- : THERMAL LINK, SELF-RESETTING



NOTE1: This symbol indicates the element is optional. The wiring type of the actual unit shall prevail.

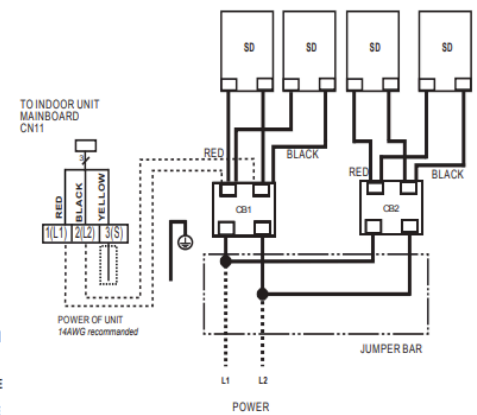
NOTE2: PLEASE ATTACH THE NAMEPLATE TO THE COVER OF THE ELECTRIC CONTROL BOX. ALL THE ROUND HOLES LOCATED ON THE PLATE REPRESENT NUMBERS. PLEASE REFER TO THE INSTALLATION MANUAL FOR DETAILS.

Round hole number	Relay number	Round hole number	Air switch number
○	RELAY 1	○	CB1
○○	RELAY 2	○○	CB2
○○○	RELAY 4		
○○○○			
○○○○○			



20KW HEAT KIT

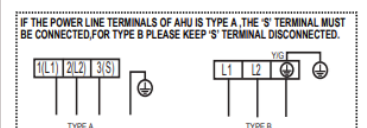
- : THERMAL CUT-OUT
- : THERMAL LINK, SELF-RESETTING



NOTE1: This symbol indicates the element is optional. The wiring type of the actual unit shall prevail.

NOTE2: PLEASE ATTACH THE NAMEPLATE TO THE COVER OF THE ELECTRIC CONTROL BOX. ALL THE ROUND HOLES LOCATED ON THE PLATE REPRESENT NUMBERS. PLEASE REFER TO THE INSTALLATION MANUAL FOR DETAILS.

Round hole number	Relay number	Round hole number	Air switch number
○	RELAY 1	○	CB1
○○	RELAY 2	○○	CB2
○○○	RELAY 3		
○○○○	RELAY 4		
○○○○○			

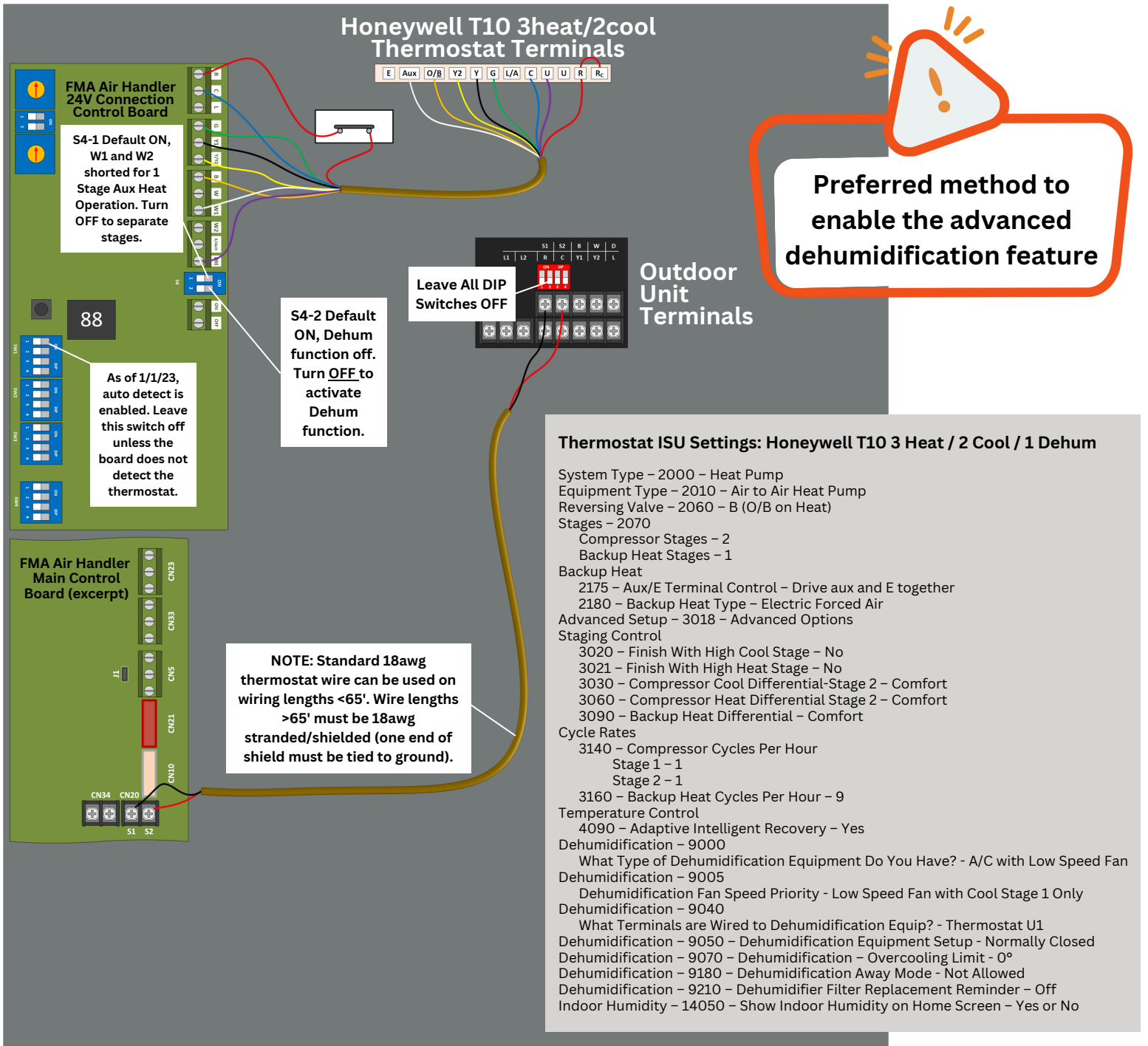




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DMA/DMC HP with FMA Indoor Conventional 24v Control to Indoor (2-wire communication to Outdoor)

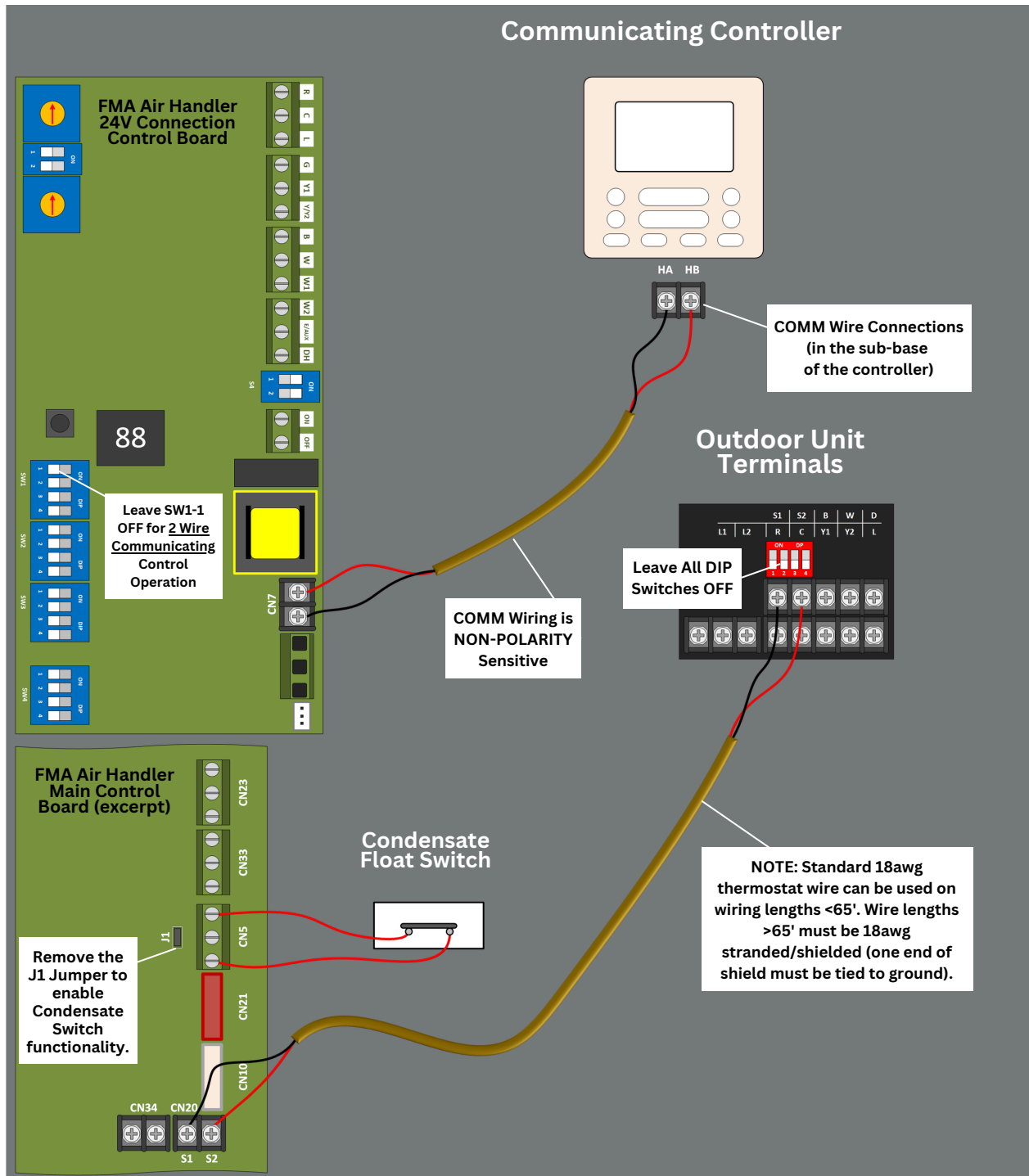
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DMA/DMC HP with FMA Indoor Communicating Control to Indoor (2-wire communication to Outdoor)

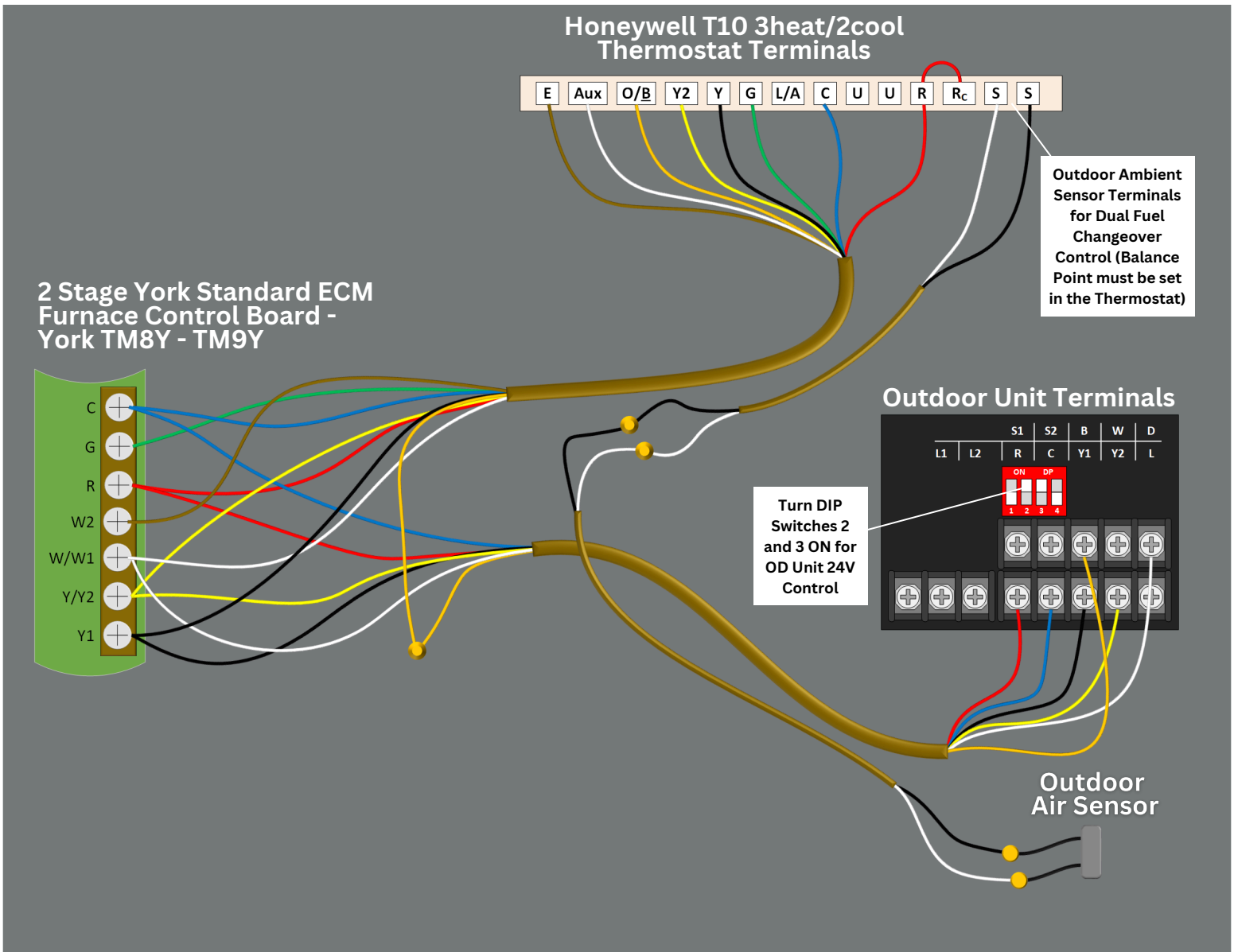




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DMA/DMC HP with 3rd Party 2-Stage Standard ECM Gas Furnace Conventional 24v Control

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NOTICE

- This document provides basic information intended for general guidance only. Always refer to the manufacturer's installation manual for detailed instructions, safety information, and regulatory compliance. This guide may be subject to change without notice.