



Technical Datasheet

LH-A2L Series

Low Profile Evaporator/
Unit Cooler

P/N 3235738 Rev A
October 2025

Refrigerant Type
A2L
(R-454A or R-454C)



LHD4 shown

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Customer-Focused Solutions

Hussmann has a long history of innovation—continually updating and expanding current product offerings while developing new solutions to help reduce environmental impacts and meet or exceed regulatory requirements.

Hussmann can help you understand benefits and trade-offs associated with each solution and make the most of incentive and rebate programs.



Check all warnings and read the entire manual before installing, servicing, or conducting maintenance on any A2L-equipped unit to avoid potential risks including explosion, death, injury, and property damage.

Scan the QR code for more information on A2L systems.

Certifications



For food service installations, seal any joint between unit cooler and cooler wall with a sealant listed by the National Sanitation Foundation.

⚠ WARNING

Component parts shall be replaced with like components, and servicing shall be done by factory authorized service personnel only, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

LH-A2L Series

Model Overview

WARNING:

Read the entire installation, operation, and service manual before installing, servicing, or using this equipment. Refer to the manual for detailed information about minimum room floor area and installation, maintenance, and service processes.

If the information in the instructions are not followed exactly, a fire or explosion may result, causing property damage, personal injury, or death. Installation and service must be performed by a qualified installer or service agency.



Mildly flammable A2L refrigerant used. Units that are configured to use A2L refrigerants require special attention. No open flames, cigarettes, or other possible sources of ignition should be used inside or in the vicinity of units containing flammable refrigerants.

If a refrigerant leak is present or even suspected, do not allow untrained personnel to attempt to find the cause. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.

Information on pre-installed A2L refrigerant sensors and detectors, safety shut-off and check valves, relay information, and additional parts replacement information can be found in the associated installation, operation, and service manual. All manual information must be reviewed in full prior to performing any work.

Overview

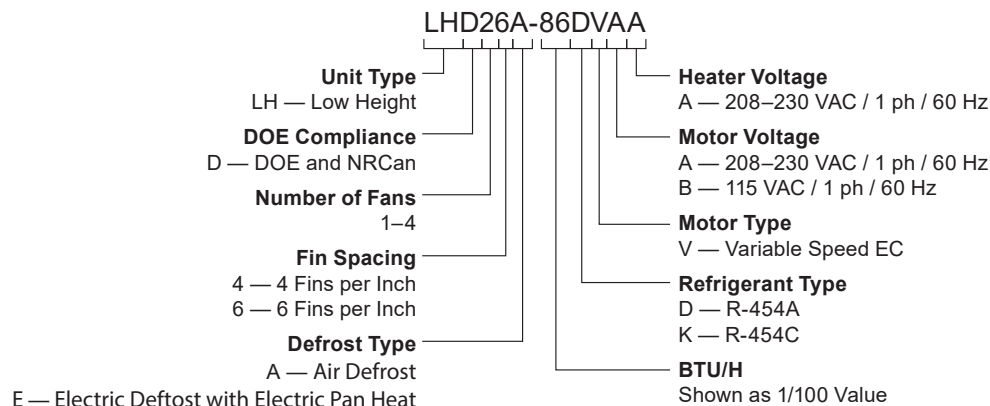
Krack LH-A2L Series evaporators are ideal solutions where a compact unit cooler is required. This system operates using A2L refrigerant (either R-454A or R-454C). A2Ls are synthetic, mildly-flammable refrigerants that meet low GWP regulatory requirements and offer the greatest ease of use for technicians compared to other solutions.

LH-A2L Series evaporators have a published AWEF rating which meets the efficiency requirements of the U.S. Department of Energy (DoE) and Natural Resources Canada (NRCAN) regulations. These specific regulations are for evaporators installed in refrigerated spaces 3,000 square feet (278 square meters) or less, and held at 55° F (12.8° C) room temperature or colder. Please note any additional compliance requirements at the time of ordering.

Controls may be factory installed or field supplied. Motors have default prevention programming. In the event of a control loss input (0 V), the motors will run at full speed.

Model Nomenclature

The nomenclature of a typical configuration is shown below, but not all variables are fully defined here. Please contact Hussmann for more details. If interested in non-standard configurations.



Ordering Information

Complete model number (including refrigerant), room temperature, saturated suction temperature, liquid refrigerant temperature, and any desired optional accessories and/or features must be specified during the ordering process.

Specifications

Application Specifications

Air Throw Distance (each side, unobstructed) ft (m)	Maximum Ceiling Height ^A ft (m)	Lowest Midpoint Evaporating Temp.	Minimum Operating TD	Maximum Operating TD ^B
15 (4.6)	12 (3.7)	-30° F (-34.4° C)	7° F (3.9° C)	15° F (8.3° C)

Electrical

Main disconnect for the unit will be an external breaker. See controller specifications or wiring diagrams for controller voltage requirements. Current is shown as the rated value, not the actual current draw.

Model	Fan Motor				Electric Defrost	
	115 VAC / 1 Φ / 60 Hz		208–230 VAC / 1 Φ / 60 Hz		208–230 VAC / 1 Φ / 60 Hz	
	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)
LHD1 (1-fan)	50	0.9	49	0.6	1,500	7.2
LHD2 (2-fan)	100	1.8	97	1.2	2,500	12
LHD3 (3-fan)	150	2.7	146	1.8	3,500	16.8
LHD4 (4-fan)	200	3.6	194	2.4	4,500	21.6

Standard Features

Model	LH-A2L
Coil Construction	heavy-wall copper tube and rippled full-collar aluminum fins
Defrost Type	air
Discharge	two-way
Factory Shipping State	sealed and pressurized
Fan Control	user specified, factory wired
Housing	aluminum (except steel top panel)
Leak Detection	Danfoss sensor
Leak Mitigation	solenoid shut-off valve and check valve (ship loose)

Optional Features

Model	LH-A2L
Alarm Buzzer/Light	115 VAC or 208–230 VAC option
Coil Coating	Electrofin or Heresite
Defrost Type	electric
Drain Pan	insulated drain pan
Expansion Valves	mechanical or electronic
Exterior Color	black or white housing and drain pan
Fan Control	VC4P — JC450 controller (requires amplifier)
Housing	stainless steel construction
Leak Detection	Copeland sensor
Liquid Line	solenoid valve and suction to liquid heat exchanger (ship loose)

^A Reflects typical WICF refrigeration loads and proper air circulation. Placement in WICF exceeding the maximum ceiling height shown or loads lower than typical may require additional fans to avoid warm spots.

^B Maximum TD for MT applications can be increased to 25° F (13.9° C) when evaporating temperature is above 34° F (1.1° C).

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Specifications

Performance Data

Model	AWEF		LT Capacity ^c BTU/hr (kWh)	MT Capacity ^d BTU/hr (kWh)	Air Flow CFM (m³/min)
	Freezer	Cooler			
LHD14A-36[]V	N/A	9	N/A	3,600 (1.06)	680 (19.3)
LHD16A-47[]V	N/A	9	N/A	4,700 (1.38)	650 (18.4)
LHD24A-73[]V	N/A	9	N/A	7,300 (2.14)	1,370 (38.8)
LHD26A-94[]V	N/A	9	N/A	9,400 (2.75)	1,300 (36.8)
LHD34A-109[]V	N/A	9	N/A	10,900 (3.19)	2,050 (58)
LHD36A-140[]V	N/A	9	N/A	14,000 (4.1)	1,950 (55.2)
LHD44A-145[]V	N/A	9	N/A	14,500 (4.25)	2,730 (77.3)
LHD46A-187[]V	N/A	9	N/A	18,700 (5.48)	2,600 (73.6)
LHD14E-33[]V	4.15	9	3,300 (0.97)	3,600 (1.06)	680 (19.3)
LHD16E-43[]V	4.15	9	4,300 (1.26)	4,700 (1.38)	650 (18.4)
LHD24E-67[]V	4.15	9	6,700 (1.96)	7,300 (2.14)	1,370 (38.8)
LHD26E-86[]V	4.15	9	8,600 (2.52)	9,400 (2.75)	1,300 (36.8)
LHD34E-100[]V	4.15	9	10,000 (2.93)	10,900 (3.19)	2,050 (58)
LHD36E-129[]V	4.15	9	12,900 (3.78)	14,000 (4.1)	1,950 (55.2)
LHD44E-132[]V	4.15	9	13,200 (3.87)	14,500 (4.25)	2,730 (77.3)
LHD46E-171[]V	4.15	9	17,100 (5.01)	18,700 (5.48)	2,600 (73.6)

[] Refrigerant letter code

Minimum Room Floor Area, Refrigerant Charge, and Connection Sizes (all defrost types)

Model	Estimated Refrigerant Charge ^E — lb (g)		Minimum Room Floor Area ft² (m²)	Line Connection Sizes	
	Operating Charge			Liquid	Suction
	R-454A	R-454C			
LHD14A-36[]V	0.7 (318)		60 (5.57)	1/2"	7/8"
LHD16A-47[]V	0.7 (318)		60 (5.57)	1/2"	7/8"
LHD24A-73[]V	1.2 (544)		64 (5.95)	1/2"	7/8"
LHD26A-94[]V	1.2 (544)		64 (5.95)	1/2"	7/8"
LHD34A-109[]V	1.8 (816)		80 (7.43)	1/2"	7/8"
LHD36A-140[]V	1.8 (816)		80 (7.43)	1/2"	7/8"
LHD44A-145[]V	2.4 (1,089)		96 (8.92)	1/2"	1 1/8"
LHD46A-187[]V	2.4 (1,089)		96 (8.92)	1/2"	1 1/8"
LHD14E-33[]V	0.7 (318)		60 (5.57)	1/2"	7/8"
LHD16E-43[]V	0.7 (318)		60 (5.57)	1/2"	7/8"
LHD24E-67[]V	1.3 (590)		64 (5.95)	1/2"	1 1/8"
LHD26E-86[]V	1.3 (590)		64 (5.95)	1/2"	1 1/8"
LHD34E-100[]V	1.9 (862)		80 (7.43)	1/2"	1 1/8"
LHD36E-129[]V	1.9 (862)		80 (7.43)	1/2"	1 1/8"
LHD44E-132[]V	2.4 (1,089)		96 (8.92)	1/2"	1 1/8"
LHD46E-171[]V	2.4 (1,089)		96 (8.92)	1/2"	1 1/8"

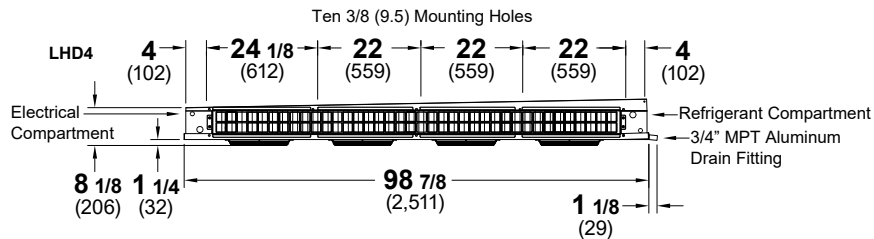
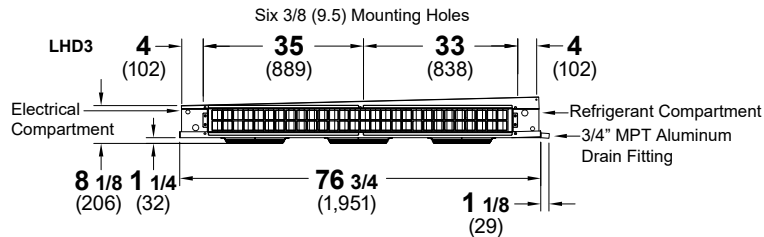
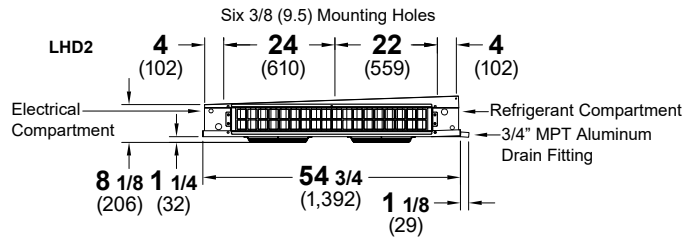
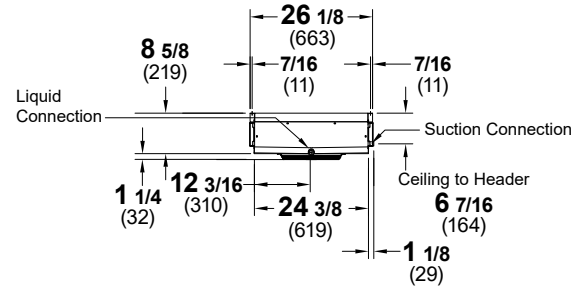
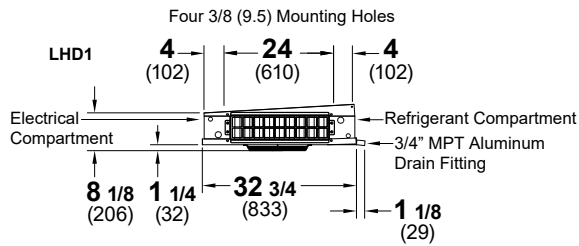
[] Refrigerant letter code

^c Based on -20° F (-28.9° C) suction temperature and 10° F (5.6° C) T.D.

^d Based on 25° F (-3.9° C) suction temperature and 10° F (5.6° C) T.D. for air defrost and 20° F (-6.7° C) suction temperature and 10° F (5.6° C) T.D. for electric defrost

^e Approximate charge based on normal operating conditions, contact Hussmann if releasable charge information is required

Dimensional Views



dimensions shown as in. (mm)

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Additional Specifications

Mounting and Weight Information

Air Defrost Models

Model	Number of Mounting Holes	Shipping Weight ^F
LHD14A-36[J]V	4	42 lb (19.1 kg)
LHD16A-47[J]V	4	46 lb (20.9 kg)
LHD24A-73[J]V	6	72 lb (32.7 kg)
LHD26A-94[J]V	6	78 lb (35.4 kg)
LHD34A-109[J]V	6	116 lb (52.6 kg)
LHD36A-140[J]V	6	134 lb (60.8 kg)
LHD44A-145[J]V	10	160 lb (72.6 kg)
LHD46A-187[J]V	10	178 lb (80.7 kg)
LHD14E-33[J]V	4	44 lb (20 kg)
LHD16E-43[J]V	4	48 lb (21.8 kg)
LHD24E-67[J]V	6	75 lb (34 kg)
LHD26E-86[J]V	6	81 lb (36.7 kg)
LHD34E-100[J]V	6	120 lb (54.4 kg)
LHD36E-129[J]V	6	138 lb (62.6 kg)
LHD44E-132[J]V	10	164 lb (74.4 kg)
LHD46E-171[J]V	10	183 lb (83 kg)

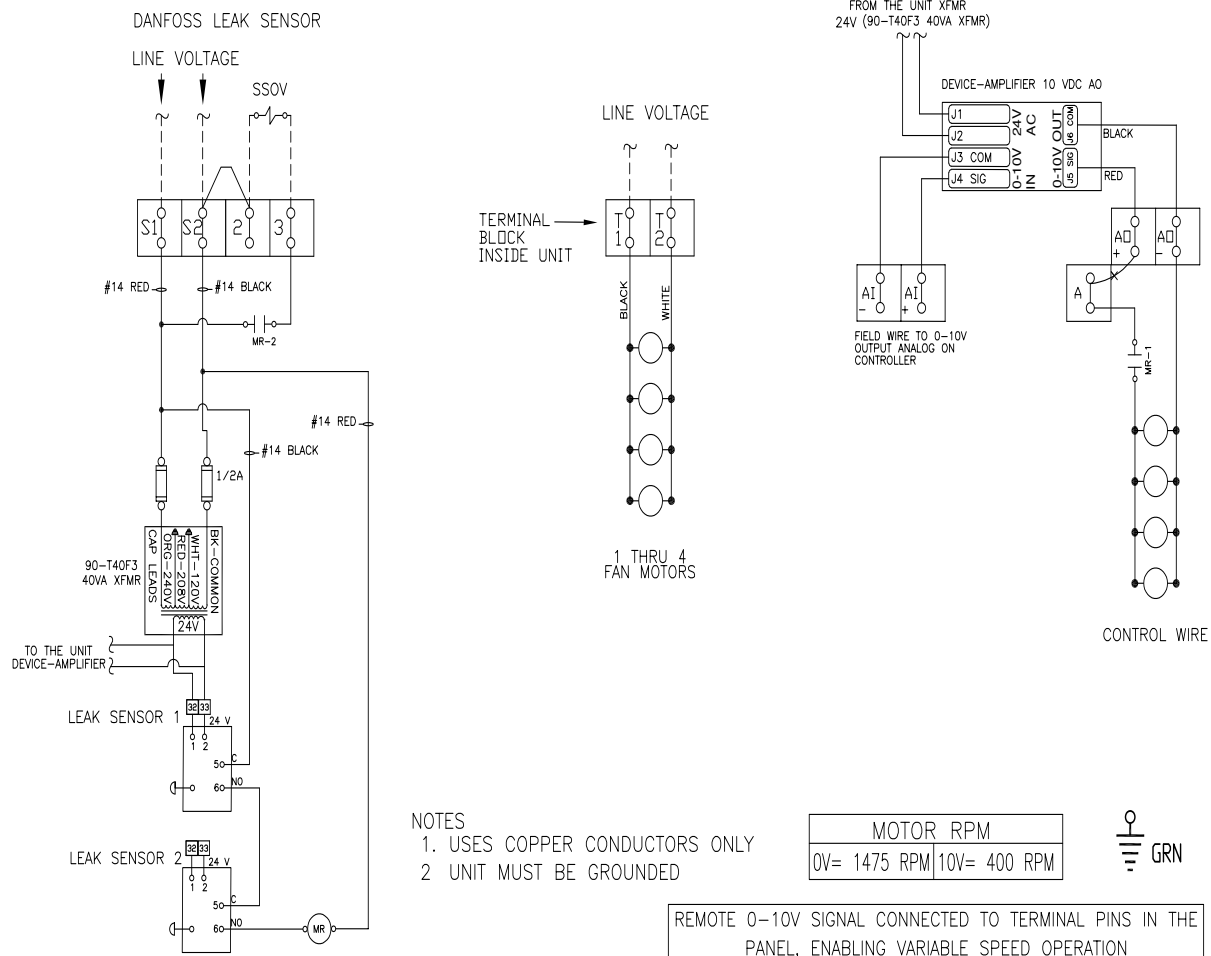
[] Refrigerant letter code

^F Approximate weight, may vary slightly depending on options ordered

Wiring Diagrams

Wire color and configuration depicted on defrost wiring diagrams provided in this document may change depending on configuration or for other design reasons. Example diagrams are provided, but do not represent every possible option. Always consult the wiring diagrams provided with the equipment being worked on for the most accurate information. Equipment-specific wiring diagrams are included in the electrical compartment of the equipment from the factory and must remain in the unit after installation for future use—do not discard.

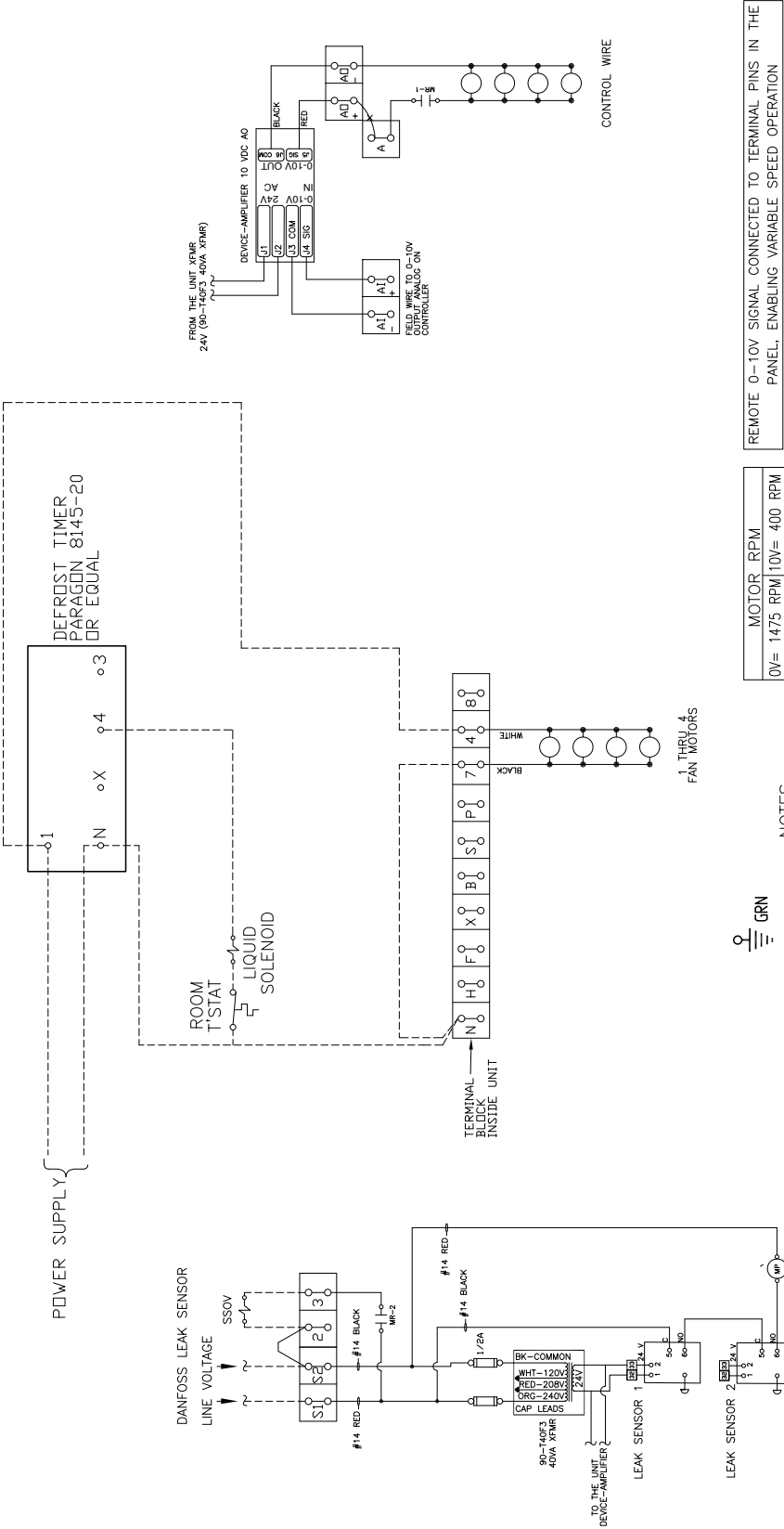
Air Defrost Wiring Diagram (without timer)



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Wiring Diagrams

Air Defrost Wiring Diagram (with timer)



NOTES

1. USES COPPER CONDUCTORS ONLY

2. UNIT MUST BE GROUNDED

3. TIMER IS PARAGON 8145-20 OR EQUAL

4. DEFROST HEATER LOAD MUST BE LESS THAN 25 AMPS

REMOVER 0-10V SIGNAL CONNECTED TO TERMINAL PINS IN THE
PANEL, ENABLING VARIABLE SPEED OPERATION

MOTOR RPM
0V= 1475 RPM 10V= 400 RPM

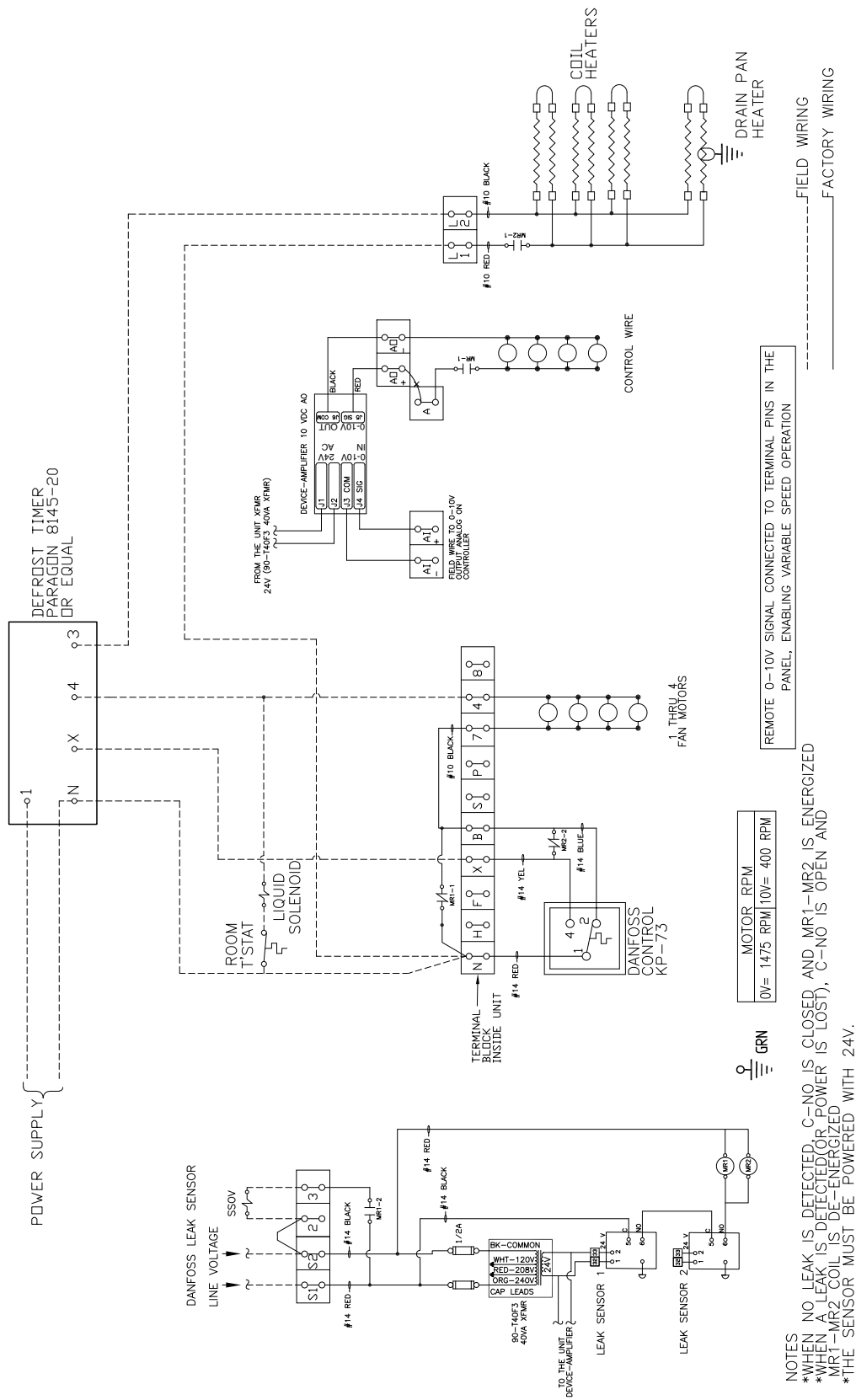
FIELD WIRE
-----FIELD WIRING
-----FACTORY WIRING

*WHEN NO LEAK IS DETECTED, C-NO IS CLOSED AND MR IS ENERGIZED

*WHEN A LEAK IS DETECTED (OR POWER IS LOST), C-NO IS OPEN AND MR COIL IS DE-ENERGIZED

*THE SENSOR MUST BE POWERED WITH 24V.

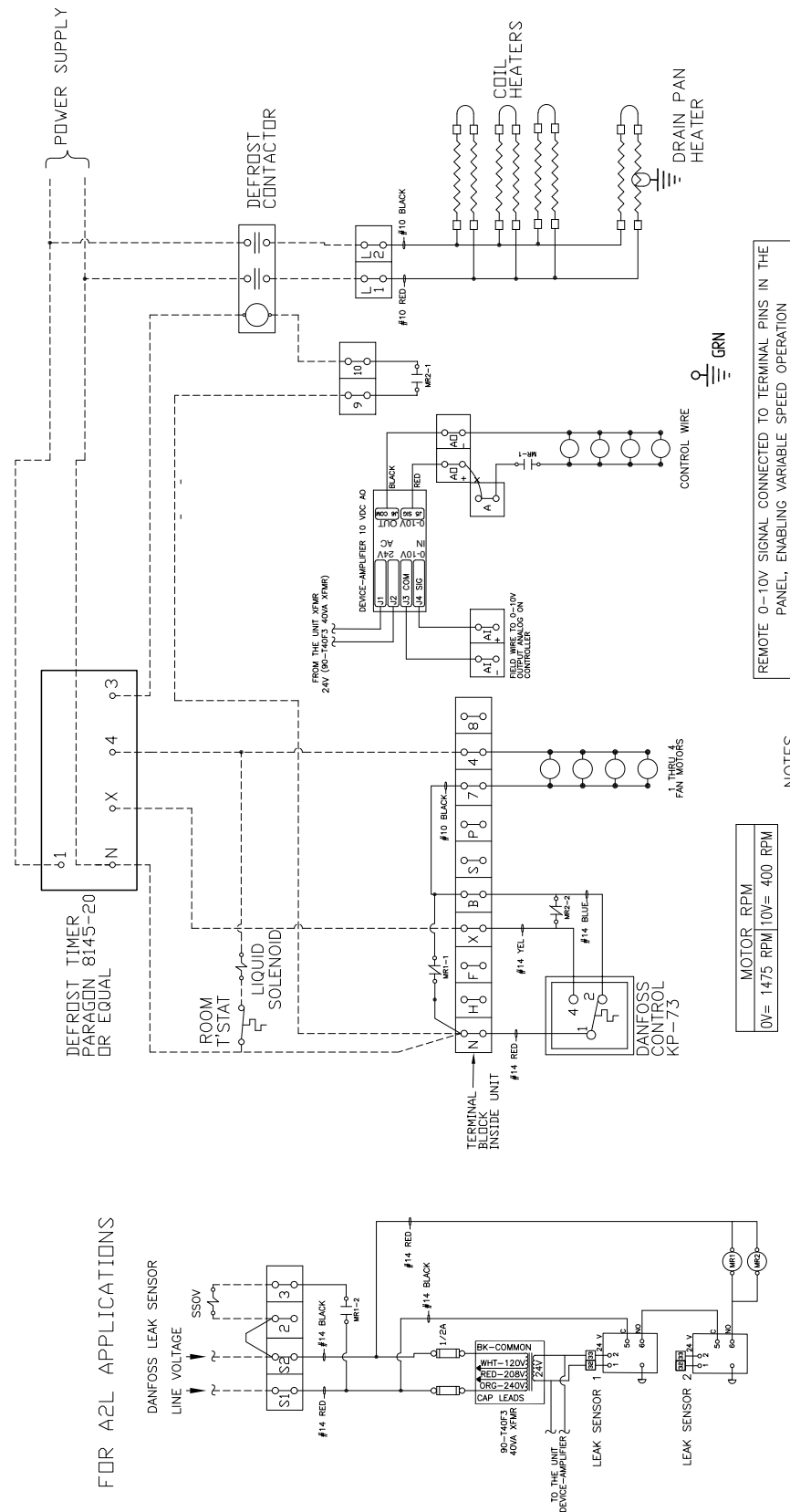
Electric Defrost Wiring Diagram (with timer only)



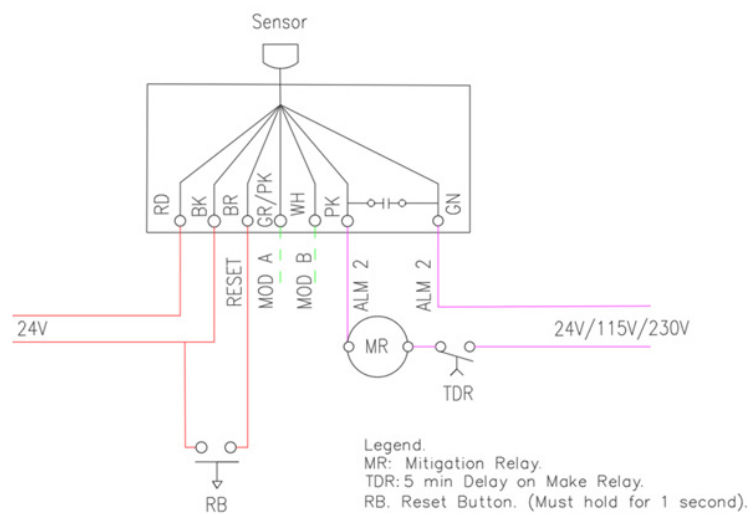
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Wiring Diagrams

Electric Defrost Wiring Diagram (with timer and defrost contactor)



Danfoss Sensor





3235738 Revision History

Revision A: (October 2025) Initial release



Scan the QR code on your mobile device to access additional product information or order parts using your unit's serial number.

Parts may also be ordered at:

parts.husmann.com

Call toll free: 1.855.487.7778

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.