



MSD4

Technical Datasheet

MS-A2L Series

Medium Profile
Evaporator / Unit Cooler

P/N 3237215 Rev A
October 2025

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

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Customer-Focused Solutions

Krack 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.

Krack 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.

MS-A2L Series

Model Overview

WARNING:

Read the entire installation, operation, and service manual before installing, servicing, or using this equipment.

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 MS-A2L series evaporators are ideal solutions where a medium-profile 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.

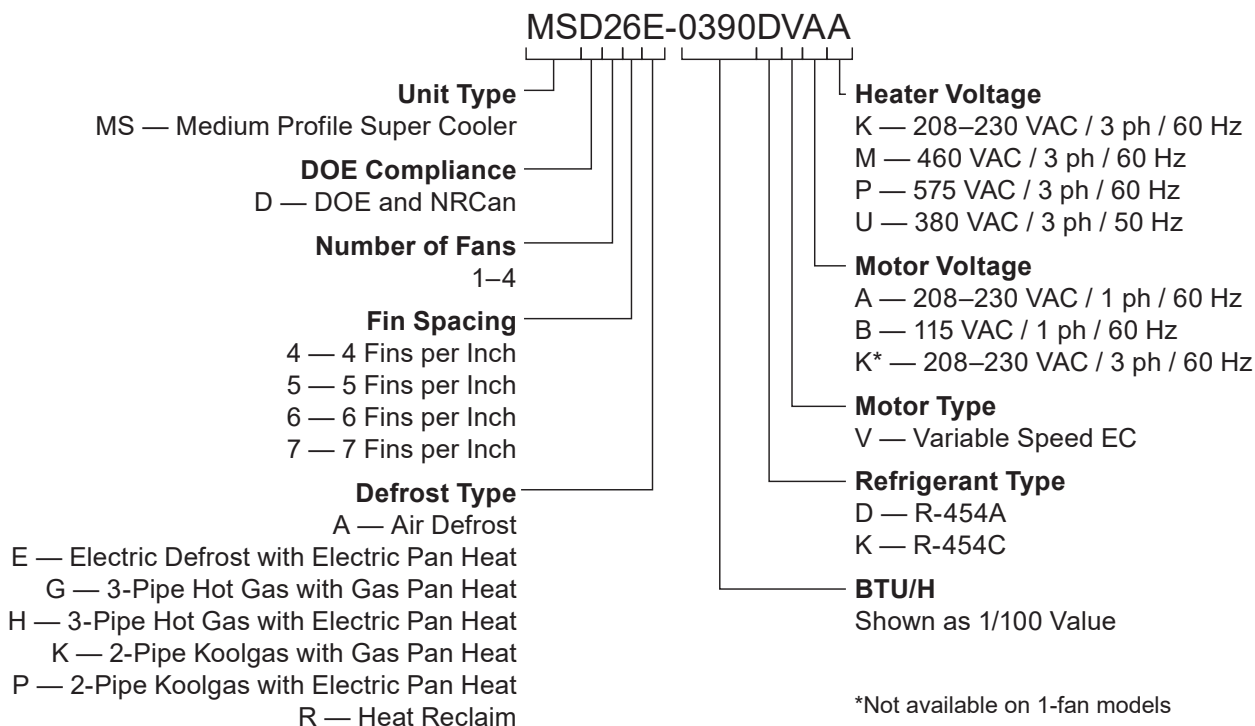
MS-A2L series evaporators have a published AWEF rating which meets the efficiency requirements of the U.S. Department of Energy (DoE) and Natural Resources Canada (NRCAN) regulations. These specific regulations are for evaporators installed in refrigerated spaces 3,000 square feet (278 square meters) 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 Krack 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 (unobstructed) ft (m)		Maximum Ceiling Height ^A ft (m)	Lowest Midpoint Evaporating Temp.	Minimum Operating TD	Maximum Operating TD ^B
standard	with long throw adapter				
60 (18.3)	100 (30.5)	25 (7.6)	-30° F (-34.4° C)	8° F (4.4° C)	15° F (8.3° C)

^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).

MS-A2L Series

Specifications

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					
	115 VAC / 1 Φ / 60 Hz		208–230 VAC / 1 Φ / 60 Hz		208–230 VAC / 3 Φ / 60 Hz	
	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)
MSD1 (1-fan)	455	7	442	4	N/A	N/A
MSD2 (2-fan)	910	14	884	8	884	7
MSD3 (3-fan)	1,365	21	1,326	12	1,326	7
MSD4 (4-fan)	1,820	28	1,768	16	1,768	10.6

MS Electric Defrost

Model	Electric Defrost							
	230 VAC / 3 Φ / 60 Hz (two circuits on 4-fan models)		380 VAC / 3 Φ / 60 Hz		460 VAC / 3 Φ / 60 Hz		575 VAC / 3 Φ / 60 Hz	
	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)
MSD14E-0162[]	5,100	15.2	3,500	6.3	5,100	7.6	5,100	6
MSD14E-0212[]	6,100	15.2	4,100	6.3	6,100	7.6	6,100	6
MSD15E-0178[]	5,100	15.2	3,500	6.3	5,100	7.6	5,100	6
MSD15E-0223[]	6,100	15.2	4,100	6.3	6,100	7.6	6,100	6
MSD16E-0195[]	5,100	15.2	3,500	6.3	5,100	7.6	5,100	6
MSD16E-0239[]	6,100	15.2	4,100	6.3	6,100	7.6	6,100	6
MSD24E-0323[]	10,100	30.4	6,900	12.6	10,100	15.2	11,000	14
MSD24E-0424[]	12,100	30.4	8,300	12.6	12,100	15.2	14,000	14
MSD25E-0356[]	10,100	30.4	6,900	12.6	10,100	15.2	11,000	14
MSD25E-0444[]	12,100	30.4	8,300	12.6	12,100	15.2	14,000	14
MSD26E-0390[]	10,100	30.4	6,900	12.6	10,100	15.2	11,000	14
MSD26E-478[]	12,100	30.4	8,300	12.6	12,100	15.2	14,000	14
MSD34E-0445[]	12,900	38.7	8,800	16	12,900	19.4	14,000	16.8
MSD34E-0602[]	15,400	38.7	10,500	16	15,400	19.4	16,800	16.8
MSD35E-0502[]	12,900	38.7	8,800	16	12,900	19.4	14,000	16.8
MSD35E-0643[]	15,400	38.7	10,500	16	15,400	19.4	16,800	16.8
MSD36E-0532[]	12,900	38.7	8,800	16	12,900	19.4	14,000	16.8
MSD36E-0685[]	15,400	38.7	10,500	16	15,400	19.4	16,800	16.8
MSD44E-0594[]	10,500 and 6,900	26.3 and 26.3	11,900	21.7	17,400	26.3	18,900	22.9
MSD44E-0803[]	10,500 and 10,500	26.3 and 26.3	14,300	21.7	20,900	26.3	22,700	22.9
MSD45E-0669[]	10,500 and 6,900	26.3 and 26.3	11,900	21.7	17,400	26.3	18,900	22.9
MSD45E-0858[]	10,500 and 10,500	26.3 and 26.3	14,300	21.7	20,900	26.3	22,700	22.9
MSD46E-0710[]	10,500 and 6,900	26.3 and 26.3	11,900	21.7	17,400	26.3	18,900	22.9
MSD46E-0914[]	10,500 and 10,500	26.3 and 26.3	14,300	21.7	20,900	26.3	22,700	22.9

[] Refrigerant letter code

MS Drain Pan Heater

Model	Drain Pan Heater							
	230 VAC / 3 Φ / 60 Hz		380 VAC / 3 Φ / 60 Hz		460 VAC / 3 Φ / 60 Hz		575 VAC / 3 Φ / 60 Hz	
	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)	Wattage (W)	Current (A)
MSD1 (1-fan)	1,000	4.4	700	1.8	1,000	2.2	1,000	1.8
MSD2 (2-fan)	2,000	8.8	1,400	3.6	2,000	4.4	2,200	3.8
MSD3 (3-fan)	2,600	11.2	1,800	4.6	2,600	5.6	2,800	4.9
MSD4 (4-fan)	3,500	15.2	2,400	6.3	3,500	7.6	3,800	6.6

Standard Features

Model	MS-A2L
Coil Construction	heavy-wall copper tube and rippled full-collar aluminum fins
Defrost Type	air
Factory Shipping State	sealed and pressurized
Fan Control	user specified, factory wired (10 VDC amplifier for remote controller standard)
Housing	galvanized steel
Leak Detection	Danfoss sensor
Leak Mitigation	solenoid shut-off valve and check valve (ship loose)

Optional Features

Model	MS-A2L
Alarm Buzzer/Light	115 VAC or 208–230 VAC option
Coil Coating	Electrofin or Heresite
Defrost Type ^A	electric, hot gas, or Koolgas
Drain Pan	insulated drain pan
Exterior Color	black or white housing and drain pan
Housing	stainless steel construction
Leak Detection	Copeland sensor
Liquid Line	solenoid valve (installed or ship loose)
Long Throw Adapters	increase air throw distance

MS-A2L Series

Specifications

Performance and Refrigeration Data (air defrost)

Model	AWEF	MT Capacity ^c / BTU/hr (kWh)	Air Flow / CFM (m³/min)
MSD14A-0150[]	9	15,020 (4.4)	4,200 (118.9)
MSD14A-0190[]	9	19,030 (5.58)	4,120 (116.7)
MSD14A-0225[]	9	22,470 (6.59)	4,000 (113.3)
MSD14A-0249[]	9	24,910 (7.3)	3,920 (111)
MSD16A-0184[]	9	18,360 (5.38)	4,120 (116.7)
MSD16A-0229[]	9	22,940 (6.72)	4,040 (114.4)
MSD16A-0260[]	9	26,010 (7.62)	3,940 (111.6)
MSD16A-0281[]	9	28,100 (8.24)	3,850 (109)
MSD17A-0199[]	9	19,880 (5.83)	4,080 (115.5)
MSD17A-0246[]	9	24,590 (7.21)	4,000 (113.3)
MSD17A-0275[]	9	27,500 (8.06)	3,900 (110.4)
MSD17A-0295[]	9	29,450 (8.63)	3,800 (107.6)
MSD24A-0300[]	9	30,040 (8.8)	8,400 (237.9)
MSD24A-0381[]	9	38,050 (11.15)	8,240 (233.3)
MSD24A-0450[]	9	44,950 (13.17)	8,000 (226.5)
MSD24A-0498[]	9	49,820 (14.6)	7,840 (222)
MSD26A-0367[]	9	36,710 (10.76)	8,240 (233.3)
MSD26A-0459[]	9	45,880 (13.45)	8,080 (228.8)
MSD26A-0520[]	9	52,030 (15.25)	7,880 (223.1)
MSD26A-0562[]	9	56,190 (16.47)	7,700 (218)
MSD27A-0398[]	9	39,760 (11.65)	8,160 (231.1)
MSD27A-0492[]	9	49,180 (14.41)	8,000 (226.5)
MSD27A-0550[]	9	55,000 (16.12)	7,800 (220.9)
MSD27A-0591[]	9	59,080 (17.31)	7,600 (215.2)
MSD34A-0524[]	9	52,400 (15.36)	12,135 (343.6)
MSD34A-0623[]	9	62,250 (18.24)	11,505 (325.8)
MSD34A-0708[]	9	70,820 (20.76)	11,325 (320.7)
MSD36A-0626[]	9	62,610 (18.35)	11,895 (336.8)
MSD36A-0712[]	9	71,180 (20.86)	11,040 (312.6)
MSD36A-0806[]	9	80,620 (23.63)	10,995 (311.3)
MSD37A-0663[]	9	66,340 (19.44)	11,700 (331.3)
MSD37A-0755[]	9	75,540 (22.14)	10,995 (311.3)
MSD37A-0849[]	9	84,870 (24.87)	10,905 (308.8)
MSD44A-0699[]	9	69,870 (20.48)	16,180 (458.2)
MSD44A-0830[]	9	83,000 (24.32)	15,340 (434.4)
MSD44A-0944[]	9	94,430 (27.67)	15,100 (427.6)
MSD46A-0835[]	9	83,480 (24.47)	15,860 (449.1)
MSD46A-0949[]	9	94,900 (27.81)	14,720 (416.8)
MSD46A-1075[]	9	107,490 (31.5)	14,660 (415.1)
MSD47A-0885[]	9	88,450 (25.92)	15,600 (441.7)
MSD47A-1007[]	9	100,720 (29.52)	14,660 (415.1)
MSD47A-1132[]	9	113,170 (33.17)	14,540 (411.7)

[] Refrigerant letter code

^c Based on 25° F (-3.9° C) suction temperature and 10° F (5.6° C) T.D.

Minimum Room Floor Area, Refrigerant Charge, and Connection Size (air defrost)

Model	Estimated Refrigerant Charge ^D — lb (kg)		Minimum Floor Area ft ² (m ²)	Line Connection Sizes	
	R-454A	R-454C		Liquid	Suction
MSD14A-0150[]	2.8 (1.27)		180 (16.7)	5/8"	1 1/8"
MSD14A-0190[]	3.7 (1.68)		200 (18.6)	5/8"	1 1/8"
MSD14A-0225[]	4.5 (2.04)	4.6 (2.09)	216 (20.1)	5/8"	1 1/8"
MSD14A-0249[]	5.4 (2.45)	5.5 (2.5)	240 (22.3)	5/8"	1 1/8"
MSD16A-0184[]	2.8 (1.27)		180 (16.7)	5/8"	1 1/8"
MSD16A-0229[]	3.7 (1.68)		200 (18.6)	5/8"	1 1/8"
MSD16A-0260[]	4.5 (2.04)	4.6 (2.09)	216 (20.1)	5/8"	1 1/8"
MSD16A-0281[]	5.4 (2.45)	5.5 (2.5)	240 (22.3)	5/8"	1 1/8"
MSD17A-0199[]	2.8 (1.27)		180 (16.7)	5/8"	1 1/8"
MSD17A-0246[]	3.7 (1.68)		200 (18.6)	5/8"	1 1/8"
MSD17A-0275[]	4.5 (2.04)	4.6 (2.09)	216 (20.1)	5/8"	1 1/8"
MSD17A-0295[]	5.4 (2.45)	5.5 (2.5)	336 (31.2)	7/8"	1 1/8"
MSD24A-0300[]	5.4 (2.45)		360 (33.4)	7/8"	1 3/8"
MSD24A-0381[]	7.1 (3.22)		384 (35.7)	7/8"	1 3/8"
MSD24A-0450[]	8.8 (3.99)	8.9 (4.04)	448 (41.6)	7/8"	1 3/8"
MSD24A-0498[]	10.5 (4.76)	10.6 (4.81)	448 (41.6)	7/8"	1 3/8"
MSD26A-0367[]	5.4 (2.45)		360 (33.4)	7/8"	1 3/8"
MSD26A-0459[]	7.1 (3.22)		384 (35.7)	7/8"	1 3/8"
MSD26A-0520[]	8.8 (3.99)	8.9 (4.04)	448 (41.6)	7/8"	1 3/8"
MSD26A-0562[]	10.5 (4.76)	10.6 (4.81)	448 (41.6)	7/8"	1 3/8"
MSD27A-0398[]	5.4 (2.45)		360 (33.4)	7/8"	1 3/8"
MSD27A-0492[]	7.1 (3.22)		384 (35.7)	7/8"	1 3/8"
MSD27A-0550[]	8.8 (3.99)	8.9 (4.04)	448 (41.6)	7/8"	1 3/8"
MSD27A-0591[]	10.5 (4.76)	10.6 (4.81)	448 (41.6)	7/8"	1 3/8"
MSD34A-0524[]	9.2 (4.17)	9.3 (4.22)	448 (41.6)	7/8"	1 5/8"
MSD34A-0623[]	11.4 (5.17)	11.5 (5.22)	480 (44.6)	7/8"	1 5/8"
MSD34A-0708[]	13.6 (6.17)	13.7 (6.21)	900 (83.6)	1 3/8"	1 5/8"
MSD36A-0626[]	9.2 (4.17)	9.3 (4.22)	448 (41.6)	7/8"	1 5/8"
MSD36A-0712[]	11.4 (5.17)	11.5 (5.22)	480 (44.6)	7/8"	1 5/8"
MSD36A-0806[]	13.6 (6.17)	13.7 (6.21)	900 (83.6)	1 3/8"	1 5/8"
MSD37A-0663[]	9.2 (4.17)	9.3 (4.22)	448 (41.6)	7/8"	1 5/8"
MSD37A-0755[]	11.4 (5.17)	11.5 (5.22)	480 (44.6)	7/8"	1 5/8"
MSD37A-0849[]	13.6 (6.17)	13.7 (6.21)	900 (83.6)	1 3/8"	1 5/8"
MSD44A-0699[]	12.3 (5.58)	12.4 (5.62)	900 (83.6)	1 3/8"	2 1/8"
MSD44A-0830[]	15.3 (6.94)	15.4 (6.99)	900 (83.6)	1 3/8"	2 1/8"
MSD44A-0944[]	18.2 (8.26)	18.4 (8.35)	1,200 (111.5)	1 3/8"	2 1/8"
MSD46A-0835[]	12.3 (5.58)	12.4 (5.62)	900 (83.6)	1 3/8"	2 1/8"
MSD46A-0949[]	15.3 (6.94)	15.4 (6.99)	900 (83.6)	1 3/8"	2 1/8"
MSD46A-1075[]	18.2 (8.26)	18.4 (8.35)	1,200 (111.5)	1 3/8"	2 1/8"
MSD47A-0885[]	12.3 (5.58)	12.4 (5.62)	900 (83.6)	1 3/8"	2 1/8"
MSD47A-1007[]	15.3 (6.94)	15.4 (6.99)	900 (83.6)	1 3/8"	2 1/8"
MSD47A-1132[]	18.2 (8.26)	18.4 (8.35)	1,200 (111.5)	1 3/8"	2 1/8"

[] Refrigerant letter code

^D Approximate operating charge based on normal operating conditions, contact Krack if releasable charge information is required

MS-A2L Series

Specifications

Performance and Refrigeration Data (electric or gas defrost)

Model	AWEF		LT Capacity ^E BTU/hr (kWh)	MT Capacity ^F BTU/hr (kWh)	Air Flow CFM (m³/min)
	Cooler	Freezer			
MSD14()-0162[]	9	4.15	16,180 (4.74)	19,030 (5.58)	4,120 (116.7)
MSD14()-0212[]	9	4.15	21,170 (6.2)	24,910 (7.3)	3,920 (111)
MSD15()-0178[]	9	4.15	17,790 (5.21)	20,930 (6.13)	4,060 (115)
MSD15()-0223[]	9	4.15	22,260 (6.52)	26,190 (7.68)	3,890 (110.2)
MSD16()-0195[]	9	4.15	19,500 (5.71)	22,940 (6.72)	4,040 (114.4)
MSD16()-0239[]	9	4.15	23,890 (7)	28,100 (8.24)	3,850 (109)
MSD24()-0323[]	9	4.15	32,340 (9.48)	38,050 (11.15)	8,240 (233.3)
MSD24()-0424[]	9	4.15	42,350 (12.41)	49,820 (14.6)	7,840 (222)
MSD25()-0356[]	9	4.15	35,580 (10.43)	41,860 (12.27)	8,120 (229.9)
MSD25()-0444[]	9	4.15	44,450 (13.03)	52,290 (15.32)	7,780 (220.3)
MSD26()-0390[]	9	4.15	39,000 (11.43)	45,880 (13.45)	8,080 (228.8)
MSD26()-0478[]	9	4.15	47,760 (14)	56,190 (16.47)	7,700 (218)
MSD34()-0445[]	9	4.15	44,540 (13.05)	52,400 (15.36)	12,135 (343.6)
MSD34()-0602[]	9	4.15	60,200 (17.64)	70,820 (20.76)	11,325 (320.7)
MSD35()-0502[]	9	4.15	50,180 (14.71)	59,030 (17.3)	12,015 (340.2)
MSD35()-0643[]	9	4.15	64,330 (18.85)	75,680 (22.18)	11,205 (317.3)
MSD36()-0532[]	9	4.15	53,220 (15.6)	62,610 (18.35)	11,895 (336.8)
MSD36()-0685[]	9	4.15	68,530 (20.08)	80,620 (23.63)	10,995 (311.3)
MSD44()-0594[]	9	4.15	59,390 (17.41)	69,870 (20.48)	16,180 (458.2)
MSD44()-0803[]	9	4.15	80,270 (23.52)	94,430 (27.67)	15,100 (427.6)
MSD45()-0669[]	9	4.15	66,900 (19.61)	78,710 (23.07)	16,020 (453.6)
MSD45()-0858[]	9	4.15	85,770 (25.14)	100,910 (29.57)	14,940 (423.1)
MSD46()-0710[]	9	4.15	70,960 (20.8)	83,480 (24.47)	15,860 (449.1)
MSD46()-0914[]	9	4.15	91,370 (26.78)	107,490 (31.5)	14,660 (415.1)

() Electric or gas defrost letter code

[] Refrigerant letter code

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

^F Based on 20° F (-6.7° C) suction temperature and 10° F (5.6° C) T.D.

Minimum Room Floor Area, Refrigerant Charge, and Connection Size (electric or gas defrost)

Model	Estimated Refrigerant Charge ^D — lb (kg)		Minimum Floor Area ft ² (m ²)	Line Connection Sizes	
	R-454A	R-454C			
MSD14()-0162[]	3.7 (1.68)	3.8 (1.72)	200 (18.6)	5/8"	1 1/8"
MSD14()-0212[]	5.5 (2.5)		336 (31.2)	7/8"	1 1/8"
MSD15()-0178[]	3.7 (1.68)	3.8 (1.72)	200 (18.6)	5/8"	1 1/8"
MSD15()-0223[]	5.5 (2.5)		336 (31.2)	7/8"	1 1/8"
MSD16()-0195[]	3.7 (1.68)	3.8 (1.72)	200 (18.6)	5/8"	1 1/8"
MSD16()-0239[]	5.5 (2.5)		336 (31.2)	7/8"	1 1/8"
MSD24()-0323[]	7.2 ()	7.3 (3.31)	384 (35.7)	7/8"	1 3/8"
MSD24()-0424[]	10.6 (4.81)	10.8 (4.9)	448 (41.6)	7/8"	1 3/8"
MSD25()-0356[]	7.2 ()	7.3 (3.31)	384 (35.7)	7/8"	1 3/8"
MSD25()-0444[]	10.6 (4.81)	10.8 (4.9)	448 (41.6)	7/8"	1 3/8"
MSD26()-0390[]	7.2 ()	7.3 (3.31)	384 (35.7)	7/8"	1 3/8"
MSD26()-0478[]	10.6 (4.81)	10.8 (4.9)	448 (41.6)	7/8"	1 3/8"
MSD34()-0445[]	9.3 (4.22)	9.4 (4.26)	448 (41.6)	7/8"	1 5/8"
MSD34()-0602[]	13.8 (6.26)	13.9 (6.3)	900 (83.6)	1 3/8"	1 5/8"
MSD35()-0502[]	9.3 (4.22)	9.4 (4.26)	448 (41.6)	7/8"	1 5/8"
MSD35()-0643[]	13.8 (6.26)	13.9 (6.3)	900 (83.6)	1 3/8"	1 5/8"
MSD36()-0532[]	9.3 (4.22)	9.4 (4.26)	448 (41.6)	7/8"	1 5/8"
MSD36()-0685[]	13.8 (6.26)	13.9 (6.3)	900 (83.6)	1 3/8"	1 5/8"
MSD44()-0594[]	12.5 (5.67)	12.6 (5.72)	900 (83.6)	1 3/8"	2 1/8"
MSD44()-0803[]	18.4 (8.35)	18.6 (8.44)	1,200 (111.5)	1 3/8"	2 1/8"
MSD45()-0669[]	12.5 (5.67)	12.6 (5.72)	900 (83.6)	1 3/8"	2 1/8"
MSD45()-0858[]	18.4 (8.35)	18.6 (8.44)	1,200 (111.5)	1 3/8"	2 1/8"
MSD46()-0710[]	12.5 (5.67)	12.6 (5.72)	900 (83.6)	1 3/8"	2 1/8"
MSD46()-0914[]	18.4 (8.35)	18.6 (8.44)	1,200 (111.5)	1 3/8"	2 1/8"

() Electric or gas defrost letter code

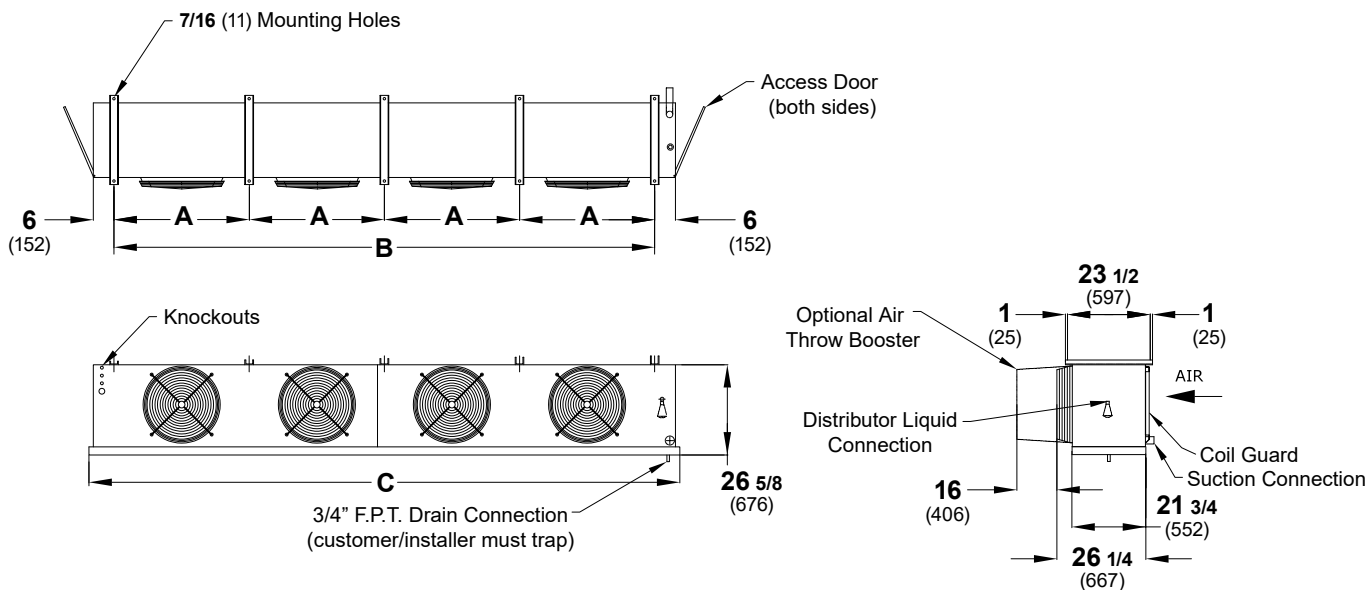
[] Refrigerant letter code

^D Approximate operating charge based on normal operating conditions, contact Krack if releasable charge information is required

MS-A2L Series

Dimensional Views

Dimensional Views



Model	A	B	C
MSD1 (1-fan)	45 (1,143)	45 (1,143)	57 (1,448)
MSD2 (2-fan)	45 (1,143)	90 (2,286)	102 (2,591)
MSD3 (3-fan)	39 (991)	117 (2,972)	129 (3,277)
MSD4 (4-fan)	39 (991)	156 (3,962)	168 (4,267)

MS-A2L Series

Additional Specifications

Mounting and Weight Information

Air Defrost

Model	Number of Mounting Points	Shipping Weight ^G	Model	Number of Mounting Points	Shipping Weight ^F
MSD14A-0150[]	4	151 lb (68.5 kg)	MSD27A-0492[]	6	359 lb (162.8 kg)
MSD14A-0190[]	4	162 lb (73.5 kg)	MSD27A-0550[]	6	387 lb (175.5 kg)
MSD14A-0225[]	4	180 lb (81.6 kg)	MSD27A-0591[]	6	436 lb (197.8 kg)
MSD14A-0249[]	4	193 lb (87.5 kg)	MSD34A-0524[]	8	393 lb (178.3 kg)
MSD16A-0184[]	4	160 lb (72.6 kg)	MSD34A-0623[]	8	426 lb (193.2 kg)
MSD16A-0229[]	4	173 lb (78.5 kg)	MSD34A-0708[]	8	457 lb (207.3 kg)
MSD16A-0260[]	4	191 lb (86.6 kg)	MSD36A-0626[]	8	426 lb (193.2 kg)
MSD16A-0281[]	4	206 lb (93.4 kg)	MSD36A-0712[]	8	462 lb (209.6 kg)
MSD17A-0199[]	4	170 lb (77.1 kg)	MSD36A-0806[]	8	496 lb (225 kg)
MSD17A-0246[]	4	183 lb (83 kg)	MSD37A-0663[]	8	443 lb (200.9 kg)
MSD17A-0275[]	4	203 lb (92.1 kg)	MSD37A-0755[]	8	480 lb (217.7 kg)
MSD17A-0295[]	4	218 lb (98.9 kg)	MSD37A-0849[]	8	516 lb (234 kg)
MSD24A-0300[]	6	264 lb (119.7 kg)	MSD44A-0699[]	10	522 lb (236.8 kg)
MSD24A-0381[]	6	289 lb (131.1 kg)	MSD44A-0830[]	10	557 lb (252.7 kg)
MSD24A-0450[]	6	318 lb (144.2 kg)	MSD44A-0944[]	10	607 lb (275.3 kg)
MSD24A-0498[]	6	343 lb (155.6 kg)	MSD46A-0835[]	10	567 lb (257.2 kg)
MSD26A-0367[]	6	286 lb (129.7 kg)	MSD46A-0949[]	10	605 lb (274.4 kg)
MSD26A-0459[]	6	314 lb (142.4 kg)	MSD46A-1075[]	10	659 lb (298.9 kg)
MSD26A-0520[]	6	345 lb (156.5 kg)	MSD47A-0885[]	10	589 lb (267.2 kg)
MSD26A-0562[]	6	372 lb (168.7 kg)	MSD47A-1007[]	10	629 lb (285.3 kg)
MSD27A-0398[]	6	326 lb (147.9 kg)	MSD47A-1132[]	10	685 lb (310.7 kg)

[] Refrigerant letter code

Electric or Gas Defrost

Model	Number of Mounting Points	Shipping Weight ^F	Model	Number of Mounting Points	Shipping Weight ^F
MSD14()-0162[]	4	183 lb (83 kg)	MSD34()-0445[]	8	422 lb (191.4 kg)
MSD14()-0212[]	4	217 lb (98.4 kg)	MSD34()-0602[]	8	494 lb (224.1 kg)
MSD15()-0178[]	4	195 lb (88.5 kg)	MSD35()-0502[]	8	449 lb (203.7 kg)
MSD15()-0223[]	4	230 lb (104.3 kg)	MSD35()-0643[]	8	526 lb (238.6 kg)
MSD16()-0195[]	4	207 lb (93.9 kg)	MSD36()-0532[]	8	476 lb (215.9 kg)
MSD16()-0239[]	4	245 lb (111.1 kg)	MSD36()-0685[]	8	558 lb (253.1 kg)
MSD24()-0323[]	6	314 lb (142.4 kg)	MSD44()-0594[]	10	570 lb (258.5 kg)
MSD24()-0424[]	6	374 lb (169.6 kg)	MSD44()-0803[]	10	645 lb (292.6 kg)
MSD25()-0356[]	6	334 lb (151.5 kg)	MSD45()-0669[]	10	607 lb (275.3 kg)
MSD25()-0444[]	6	398 lb (180.5 kg)	MSD45()-0858[]	10	687 lb (311.6 kg)
MSD26()-0390[]	6	354 lb (160.6 kg)	MSD46()-0710[]	10	644 lb (292.1 kg)
MSD26()-0478[]	6	423 lb (191.9 kg)	MSD46()-0914[]	10	729 lb (330.7 kg)

() Electric or gas defrost letter code

[] Refrigerant letter code

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

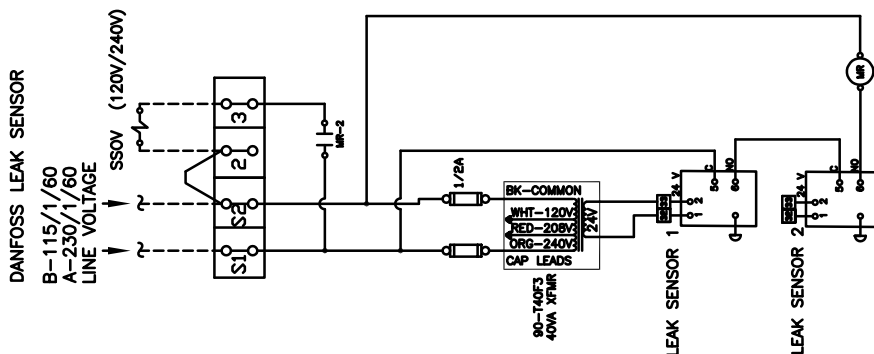
Wiring Diagrams

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.

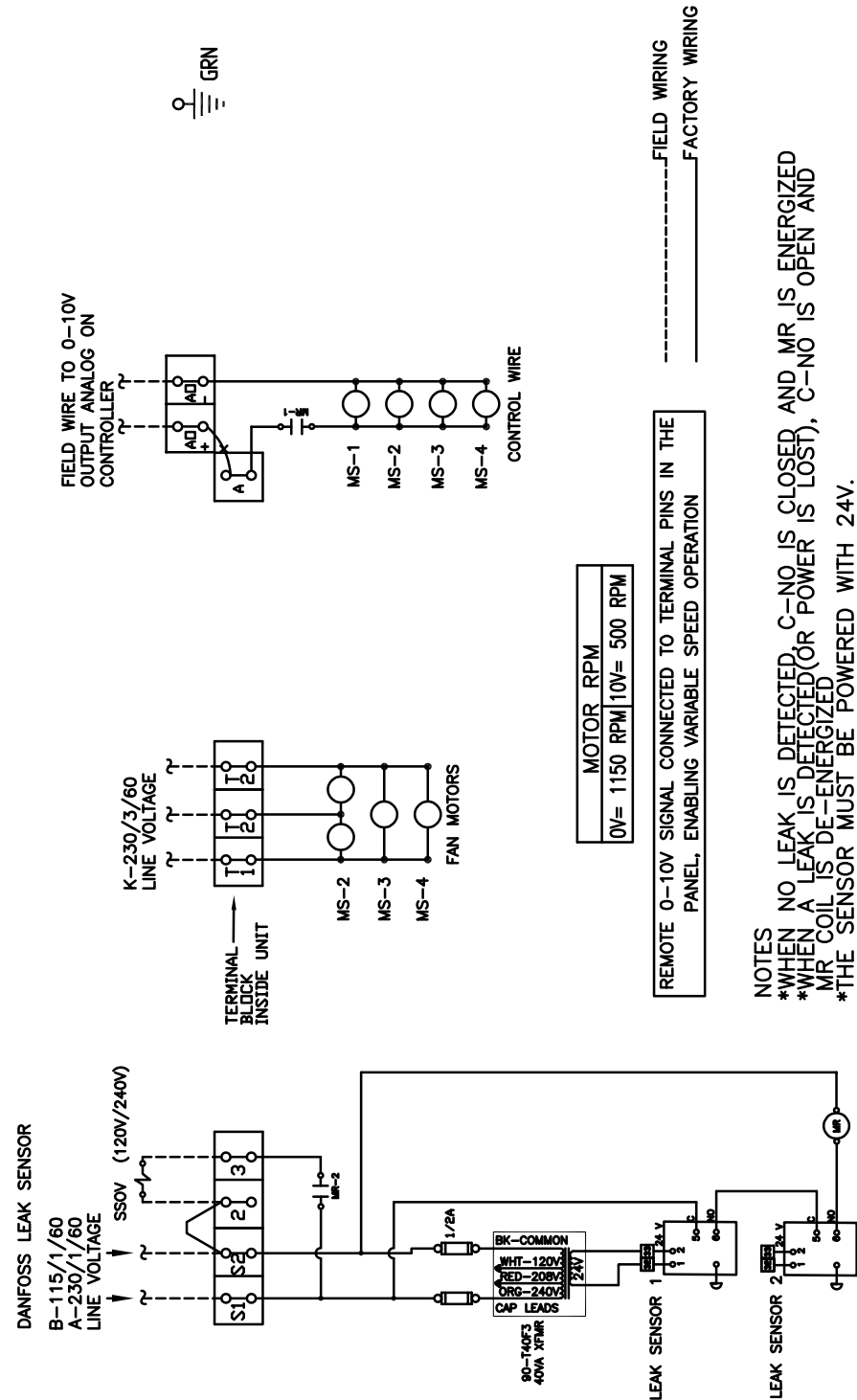
[illegible]

NOTES

- *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.



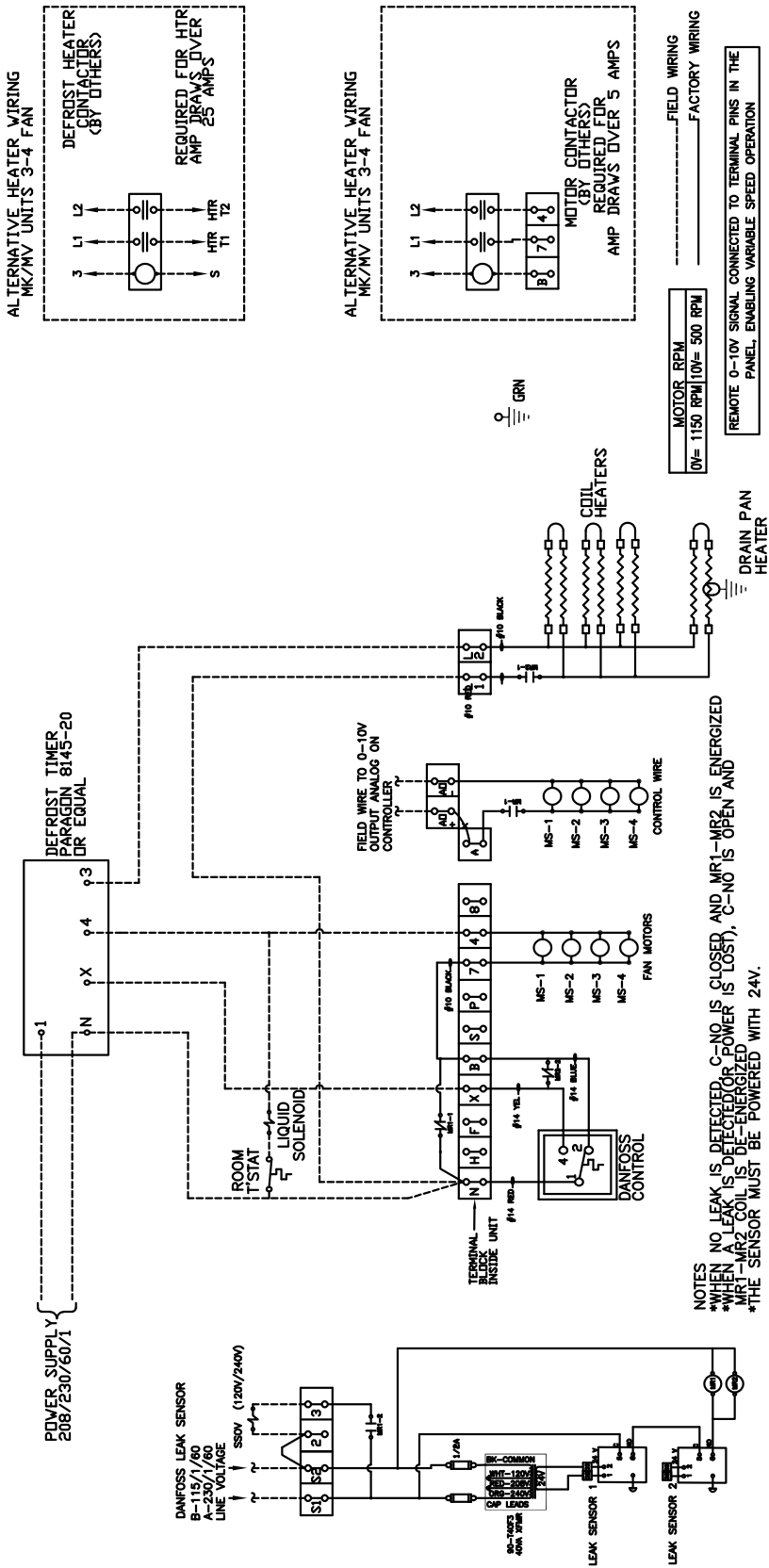
Air Defrost Wiring Diagram (three phase)



MS-A2L Series

Wiring Diagrams

Electric Defrost Wiring Diagram (single phase)



DEFROST TIMER PARAGON 8145-20 OR EQUAL

POWER SUPPLY 208/230/60/3

DEFROST CONTACTOR

ROOM T-STAT

LIQUID SOLENOID

FIELD WIRE TO 0-10V OUTPUT ANALOG ON CONTROLLER

MS-1 MS-2 MS-3 MS-4

MS-1 MS-2 MS-3 MS-4

FAN MOTORS

TERMINAL INSIDE UNIT

DANFOSS CONTROL

COIL HEATERS

DRAIN PAN HEATER

LEGEND: ——— FIELD WIRING ——— FACTORY WIRING

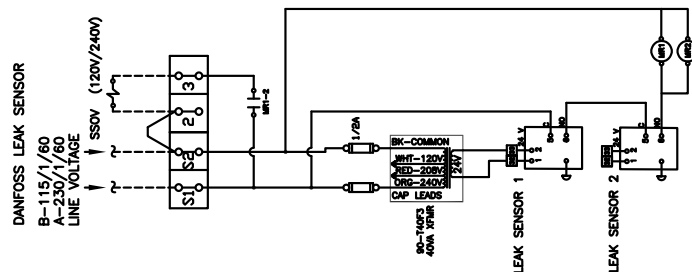
NOTES: 1. USES COPPER CONDUCTORS ONLY 2. UNIT MUST BE GROUNDED 3. TIMER IS PARAGON 8145-20 OR EQUAL 4. DEFROST HEATER LOAD MUST BE LESS THAN 25 AMPS

NOTES: NO LEAK IS DETECTED, C-NO IS CLOSED AND MR1-MB2 IS ENERGIZED WHEN A LEAK IS DETECTED OR POWER IS LOST. C-NO IS OPEN AND MR1-MB2 IS ENERGIZED WHEN A LEAK IS DETECTED OR POWER IS LOST.

LEGEND: ——— MOTOR RPM ——— 1150 RPM/10V= 500 RPM

LEGEND: ——— FIELD WIRING ——— FACTORY WIRING

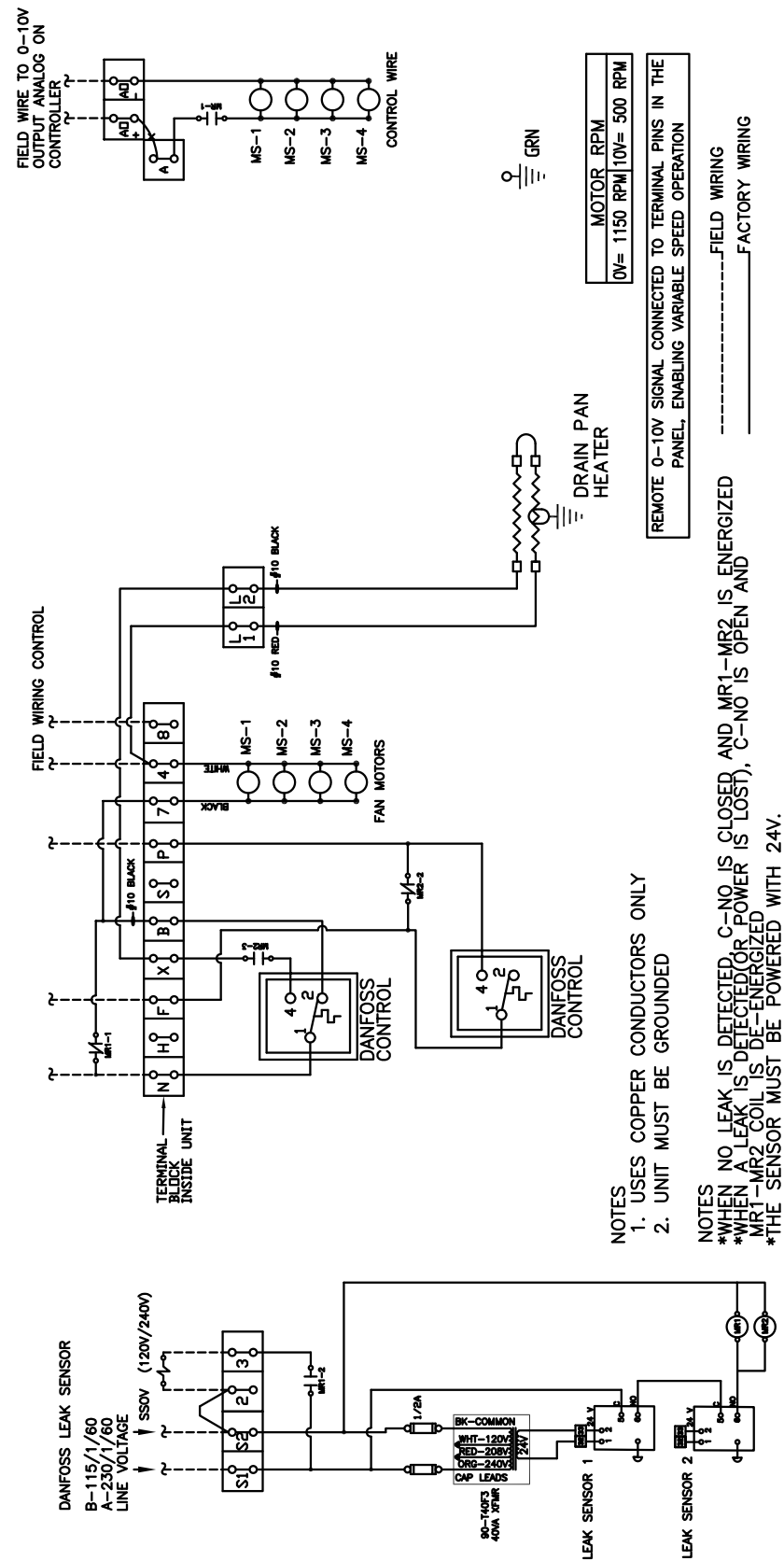
LEGEND: ——— 0-10V SIGNAL CONNECTED TO TERMINAL PINS IN THE PANEL, ENABLING VARIABLE SPEED OPERATION



MS-A2L Series

Wiring Diagrams

Gas Defrost Wiring Diagram (with electric pan heater)



FIELD WIRING CONTROL

FIELD WIRE TO 0-10V OUTPUT ANALOG ON CONTROLLER

TERMINAL BLOCK INSIDE UNIT

FAN DELAY

FAN DELAY

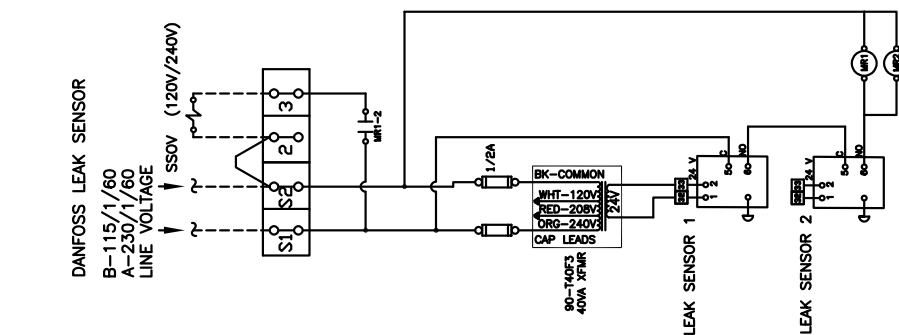
FAN MOTORS

DANFOSS

CONTROL WIRE

MOTOR RPM	
0V=	1150 RPM
10V=	500 RPM

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



NOTES

1. USES COPPER CONDUCTORS ONLY

2. UNIT MUST BE GROUNDED

-----FIELD WIRING

-----FACTORY WIRING

NOTES

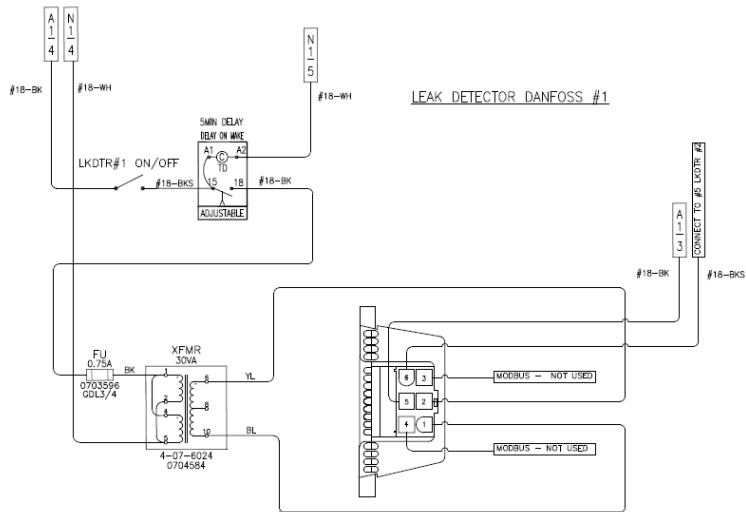
- *WHEN NO LEAK IS DETECTED, C-NO IS CLOSED AND MR1-MR2 IS ENERGIZED
- *WHEN A LEAK IS DETECTED(OR POWER IS LOST), C-NO IS OPEN AND MR1-MR2 COIL IS DE-ENERGIZED
- *THE SENSOR MUST BE POWERED WITH 24V.

 ORION

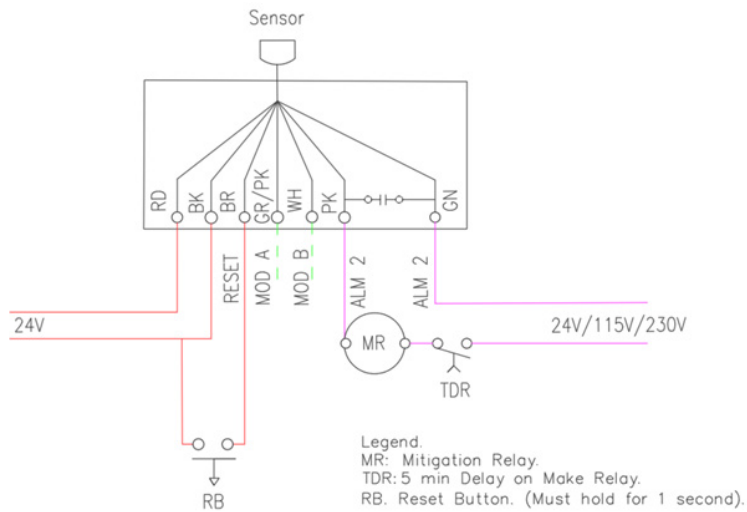
Wiring Diagrams

A2L Sensors

Danfoss Sensor



Copeland Sensor



Notes



3237215 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

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