

OLP 6-Compressor with Integrated
Microchannel MW-A2L 2-Fan Condenser

Technical Datasheet

Protocol® A2L

Horizontal Compact Outdoor Rack System

P/N 3233028 Rev A
September 2025

Refrigerant

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

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Customer-Focused Solutions

Hussmann has a long history of innovation—continually updating current product offerings and developing new solutions to help reduce your environmental impact and satisfy regulatory requirements.

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



Scan the QR code for more information on A2L systems.

Certifications



⚠ 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.

Protocol A2L

Model Information

WARNING:

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

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. No open flames, cigarettes, or other possible sources of ignition should be used inside or in the vicinity of the unit(s). 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.

Failure to abide by all warnings contained within the associated manual could result in an explosion, death, injury, and property damage.

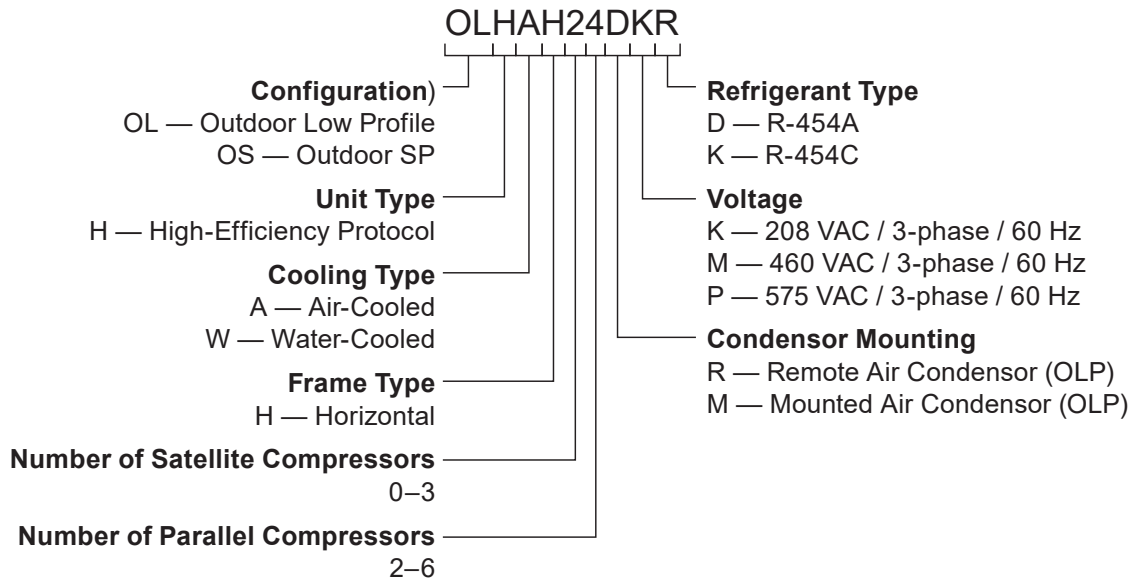
Model Overview

Husmann Protocol A2L is an ideal solution for both new construction and remodel projects for supermarkets and warehouses. This system operates using A2L refrigerant (R-454A or R-454C) and serves as a solution to meet current and upcoming regulatory requirements. 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.

Model Nomenclature

The nomenclature of a typical configuration is shown below, but not all variables are fully defined here.

If interested in other options or configurations, please contact Husmann for more details.



Specifications

Electrical

Model	SPO / OLP
Protocol Voltage	208 VAC / 3-phase / 60 Hz 460 VAC / 3-phase / 60 Hz 575 VAC / 3-phase / 60 Hz
SCCR Rating	10k AIC
Main Disconnect	internal
Control Voltage	120 VAC or 208 VAC
Control Voltage Supply	single or separate feed
Courtesy Outlet	standard
Courtesy Outlet Voltage	optional (120 VAC, 10 A max.)
Lighting (in rack)	none
Lighting (in panel)	optional

Controls

Model	SPO / OLP
Rack Controller Options	Copeland E3 and Site Supervisor Danfoss AK-SM 820A, AK-SM 850A, AK-SM 880A Micro Thermo MT-722G
Rack Controller Provider	Hussmann
Rack Controller Location	on Protocol
Rack Controller Program	included
Leak Detection	none
Defrost Type (MT/LT)	off-time / electric

Capacity (MBH [kW])

Model		Protocol SPO	Protocol OLP
R-454A (Low Temp.) ^A	Maximum	117 (34)	240 (70)
R-454A (Medium Temp.) ^B	Maximum	215 (63)	431 (126)
R-454C (Low Temp.) ^A	Maximum	100 (29)	205 (60)
R-454C (Medium Temp.) ^B	Maximum	189 (55)	378 (111)

^A Low temp. conditions -20° F (-28.9° C) ST, 100° F (37.8° C) CT, and 50° F (10° C) LT

^B Medium temp. conditions 20° F (-6.7° C) ST, 100° F (37.8° C) CT; and 0° F (-17.8° C) SC

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Specifications

Compressors

Model	Protocol SPO / OLP 3	Protocol OLP 6
LT/MT Compressor Type	Copeland Scroll	
Total Number of Compressors	2-3	2-6
Excess Design Capacity	10-15%	
Oil in Compressors	optional	

Filters, Driers, and Accumulators

Model	SPO / OLP
Drier	1 shipped loose (for remote receiver only)
Suction Filter	factory installed

Oil System

Model	SPO / OLP
Oil Separator	helical
Compressor Oiling	Emerson OMB
Oil Type	POE 32

Heat Exchanger

Model	SPO / OLP
MT Superheat Control	brazed-plate heat exchanger
Liquid Subcooling	brazed-plate heat exchanger

Ship-Loose Items

Model	SPO / OLP
Isolation Pads	included

Physical Information

Model	SPO / OLP
Outdoor Enclosure	galvanized steel panels
Access Panels	lift-off
Access Location	all sides
Ventilation	exhaust fan (electrical panel)

Design Pressures

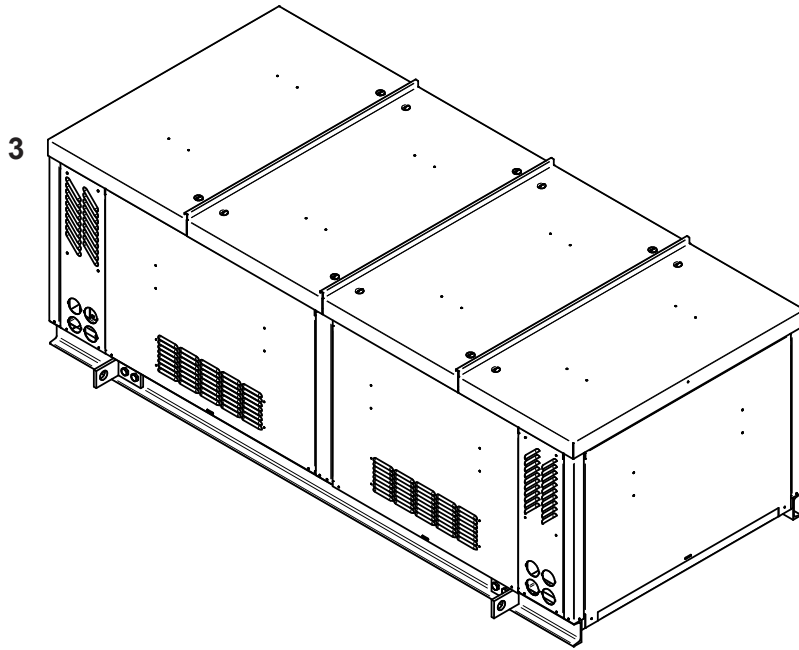
Model	SPO / OLP
Relief Pressure	450 psig (31 bar)

Design Considerations

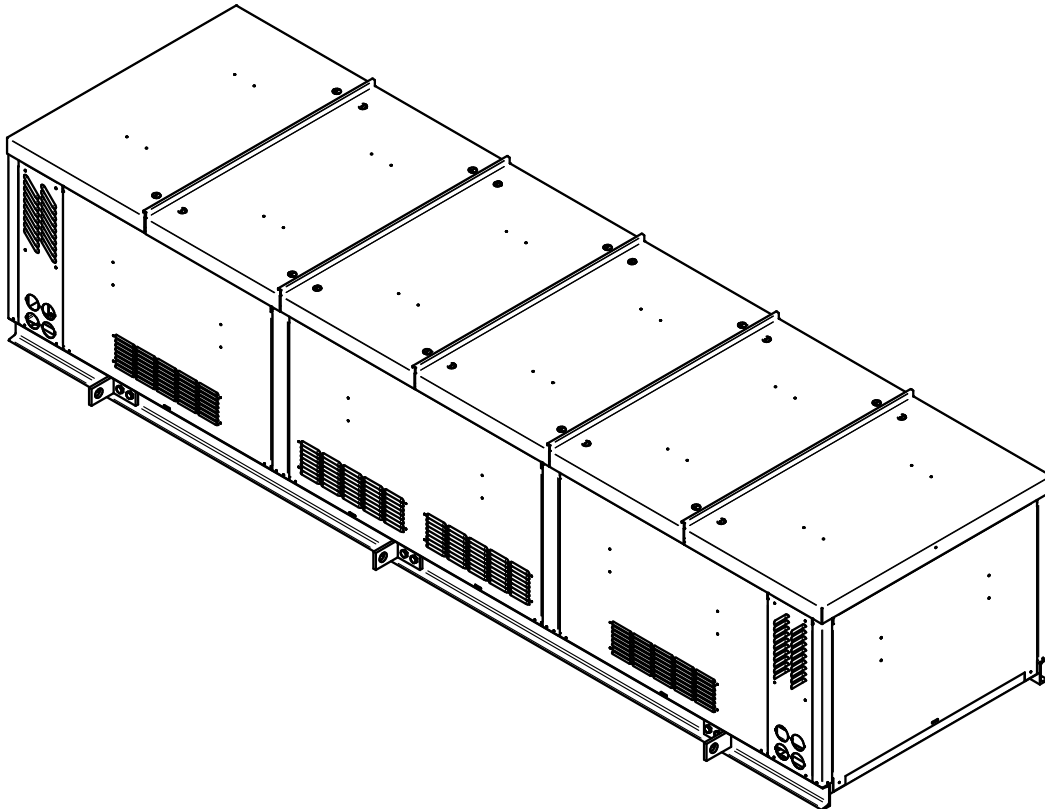
Model	SPO / OLP
Design Temp Source	ASHRAE, 0.04% average

Configurations

SPO / OLP 3



OLP 6



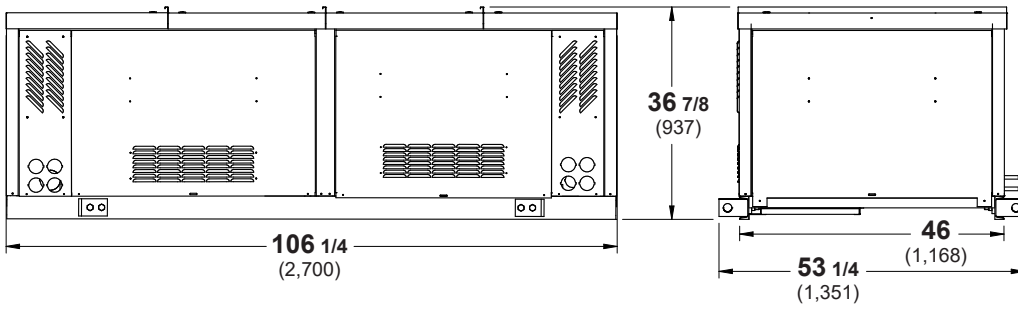
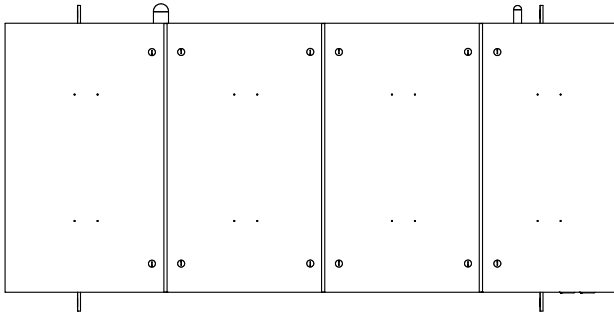
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Dimensional Views

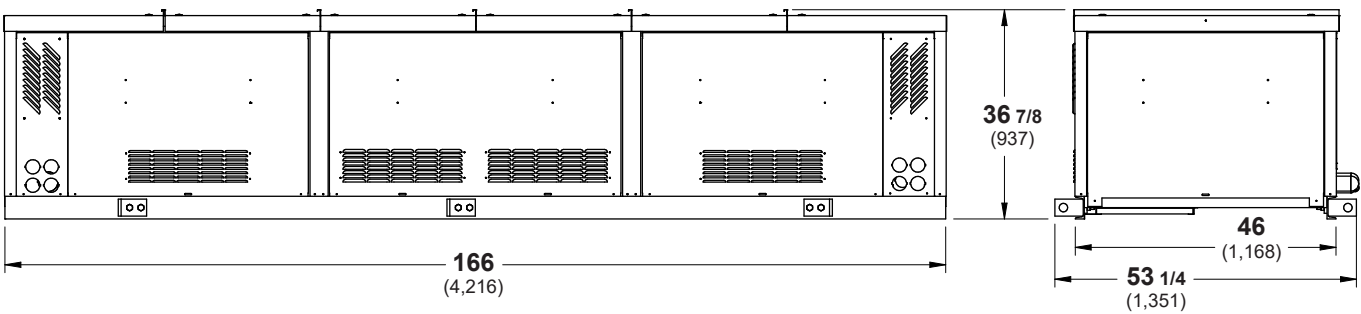
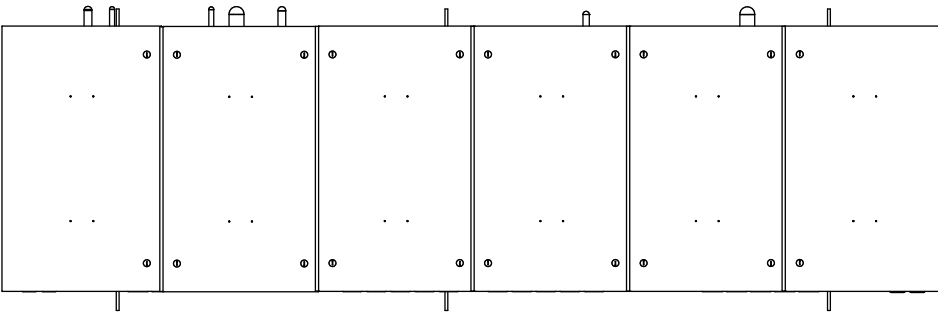
Dimensions

Images depict a typical design, but some dimensions may vary depending on configuration.

SPO / OLP 3



OLP 6



dimensions shown as in. (mm)

Connections

Connection locations and sizes vary depending on configuration. Contact Hussmann and/or consult legend or mechanical/piping diagram supplied with the Protocol for specific information on any Protocol unit.

Wiring Diagrams

Unit-specific wiring diagrams / schematics are located packed into one of the doors of each Protocol.

Estimated Weight^c

Model	Unit Weight
SPO / OLP 3	1,900 lb (862 kg)
OLP 6	2,600 lb (1,179 kg)

^c Approximate weight. Weight will vary depending on options selected.

Revision History

Revision A: (September 2025) Initial release



Scan the QR code on your mobile device to access additional product information or order parts.

Parts may also be ordered at:

parts.husmann.com

Call toll free: 1.855.487.7778

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