You Can't Afford Less Than a Lintern

A Message to Our Customers from Dick Lintern

To meet environmental regulations and so many other changing needs, you've had to invest mightily in just-right technology. Another one of your key research and development priorities has probably been to improve energy efficiency by investing in more efficient melting and shaping methods. To protect those investments in expensive computers and other electrical, pressure, and vacuum technology systems, you must also be a priority in your development planning. That's why you may find this brochure useful.

Lintern Corporation has been advancing the technology of severe-duty air conditioning for more than 70 years. We've been growing as a family-owned enterprise since 1932. We're well known for building long-term relationships with our worldwide customers. We've been serving many of our present customers for generations. They know us for our integrity, reliability, and innovation. My son, Kirk, recently joined the company, carrying the fifth generation of Linterns to work for us. As the representative of the fourth generation, I'm working on the new air conditioning and filtering techniques, technologies and developments that can help you meet the competition that has forced you to reduce expenses and increase quality. I believe our air conditioning products can help. We're proud to have served the primary metals industries for so many years. I believe that once you know us better, you will agree that you cannot afford anything less than a Lintern air conditioner or filtration system.

Dick Lintern

Lintern Corporation pioneered the first severe-duty air conditioners over 70 years ago, and continues as the innovation leader wherever conditions exceed the capabilities of commercial and heavy-duty air conditioning and filtration equipment.

- Founded: 1932
- Headquarters: Mentor, Ohio USA
- Sales Offices: United States, Argentina, Australia, Brazil, Chile, Czech Republic, Germany and Northern Europe, Hungary, India, Mexico, Poland, Singapore, Spain and Western Europe, UAE, United Kingdom and Vietnam
- Built the world's first severe-duty air conditioner
- Over 80% of severe-duty air conditioning units still in operation in the US: Lintern units
- Engineered specifically for high temperature, vibration, dirt, erosion and humidity

MARKETS

Lintern equipment can be found in a variety of industrial markets around the world, including:
- Primary Metals
- Chemical Processing Plants
- Tire and Rubber
- Chemicals
- Steel Plants
- Metallurgical Control Room Drives
- Construction
- Paper and Pulp
- Electrical
- Mining
- Oil and Gas
- Utilities
- Chemical Processing

ENGINEERING DESIGN AND APPLICATION

Lintern equipment is designed to meet stringent operating criteria developed in conjunction with the customer's severe-duty requirements and specifications. Each application receives a comprehensive engineering review before equipment is selected or recommended.

Compressors Employed in Lintern Air Conditioning Systems

I. COPLED SCROLL COMPRESSORS

- Most recommended for HFC-134a Systems
- One of the most powerful compression techniques
- Continuous operation up to 140°F ambient temperature
- Excellent behavior of performance with temperature change, which means less reduction of capacity at high temperature
- Fast and efficient startup to reach operating temperature
- Automatic start/stop
- Zero leak possibility
- Quiet operation
- Considerable tolerance for liquid flashing back
- Most compact in size, lightweight, and lowest noise
- No oil pump required
- Support all standard industrial powers and VFD operation

II. BITZER OCTAGON SEMI HERMETIC RECIRCUITING COMPRESSORS

- Most recommended for HFC-134a Systems
- Continuous operation up to 160°F ambient temperature for HFC-124 systems, and up to 140°F for HFC-134 systems
- Capable of 50% unloading for all HFC-124 systems, and for HFC-134a systems with capacity of 30,000 Btu/h and higher
- Very low oil level
- Quiet operation
- No oil pump required
- Support all standard industrial powers and VFD operation

III. BITZER OPEN DRIVE COMPRESSORS

- For Extreme High Ambient and Special Power Supply Only
- Capable of operating up to 159°F ambient for HFC-134a systems
- Designed for AC and special AC power supplies.
- Equipped with oil pump
- Sensitive to liquid flood back due to fluctuation of ambient condition
- Certain risk of freeze seal leak

Comparaison of Typical Performance Curve Between Recirculating and Scroll Compressors

Lintern Performance from a Historical Perspective

- 1948: M.L. Lintern Co. is established by William Lintern
- 1949: The M.L. Lintern Co. is incorporated and begins providing signal lights and sanders for locomotive applications
- 1952: Lintern introduces the first 10-ton unit, the 10 Series
- 1954: Lintern introduces the first 10-ton unit, the 10 Series
- 1956: Lintern introduces the first 10-ton unit, the 10 Series
- 1958: Lintern introduces the first 10-ton unit, the 10 Series
- 1960: Lintern introduces the first 10-ton unit, the 10 Series
- 1962: Lintern introduces the first 10-ton unit, the 10 Series
- 1964: Lintern introduces the first 10-ton unit, the 10 Series
- 1966: Lintern introduces the first 10-ton unit, the 10 Series
- 1968: Lintern introduces the first 10-ton unit, the 10 Series
- 1970: Lintern introduces the first 10-ton unit, the 10 Series
- 1972: L27 Series released, utilizing the first horizontal single compressor motor.
- 1974: L29 Series released, utilizing the first horizontal single compressor motor.
- 1978: L73 Series released, utilizing the first horizontal single compressor motor.
- 1980: L75 Series released, utilizing the first horizontal single compressor motor.
- 1982: L77 Series released, utilizing the first horizontal single compressor motor.
- 1984: L79 Series released, utilizing the first horizontal single compressor motor.
- 1986: L81 Series released, utilizing the first horizontal single compressor motor.
- 1988: L83 Series released, utilizing the first horizontal single compressor motor.
- 1990: L85 Series released, utilizing the first horizontal single compressor motor.
- 1992: L87 Series released, utilizing the first horizontal single compressor motor.
- 1994: L89 Series released, utilizing the first horizontal single compressor motor.
- 1996: L91 Series released, utilizing the first horizontal single compressor motor.
- 1998: L93 Series released, utilizing the first horizontal single compressor motor.
- 2000: L95 Series released, utilizing the first horizontal single compressor motor.
- 2002: L97 Series released, utilizing the first horizontal single compressor motor.
- 2004: L99 Series released, utilizing the first horizontal single compressor motor.
- 2006: L101 Series released, utilizing the first horizontal single compressor motor.
- 2008: L103 Series released, utilizing the first horizontal single compressor motor.
- 2010: L105 Series released, utilizing the first horizontal single compressor motor.
- 2012: L107 Series released, utilizing the first horizontal single compressor motor.
LINTERN EQUIPMENT

- Operates in ambient temperatures up to 160°F (70°C). For higher ambient temperatures, please contact the factory.
- Operates in conditions where corrosion dirt and high vibration require severe-duty equipment.
- Customer-driven equipment design.
- Design parameters developed through empirical testing in Lintern's Psychrometric Laboratory.
- Utilizes a proprietary Lintern Load Questionnaire and formula to ensure exact equipment selection and application by Lintern engineers.

ENVIRONMENT

Lintern equipment uses environmentally-acceptable refrigerants that comply with the Montreal Protocol, Title VI of the United States Clean Air Act, and United States EPA regulations. Refrigerants used in Lintern products:

| HCFC-124   | HFC-134a |

QUALITY

The Lintern reputation has grown through four generations of superior product quality and service. Customers recognize that buying anything less than a Lintern can increase their risk and overall cost. The Lintern philosophy includes:

- Total Lower Cost: Reduced customer risk and expense through superior quality.
- Cost-Effectiveness: High-quality investment saves money over time and reduces probability of operation downtime.

CAPACITY COMPARISONS

Some manufacturers rely upon formulas to determine theoretical operating capacities.

- What one manufacturer represents as 14 kW/48,000 BTUH, may be equivalent to another manufacturer's 7 kW/24,000 BTUH unit.
- Lintern Corporation utilizes the industry's most sophisticated psychrometric testing lab to assure accurate operating capacities.

Evaluating different manufacturers' equipment can be complicated and confusing. But you can rely upon Lintern's design, testing and application engineering experience to help you specify the right equipment for your unique situation.

SERVICE

Lintern Corporation has the ability to provide service worldwide.

- Technicians available 24 hours per day for equipment service.
- Preventative maintenance.
- World's largest dedicated inventory for severe-duty equipment.

TWO-YEAR WARRANTY

Lintern now offers a full two-year warranty for all major components when we size and start-up your system.

- Provides a full year more than any other manufacturer.
- More than 70 years of experience in severe-duty air conditioning applications enable Lintern to stand behind this promise

THE LINTERN MISSION

To be the world quality leader in the innovation, design, manufacturing and service of severe-duty air conditioning and filtration equipment.

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For over 65 years, Lintern has been the recognized leader in the design and manufacturing of specialty air conditioning and filtration equipment for severe environments.

If we can be of service to you, call us Toll-free in North America at: 1-800-321-3638 or (440) 255-9333.

You can also fill out the enclosed questionnaire and fax it to us at (440) 255-6427 or send us an email at solutions@lintern.com. We will calculate your requirements and provide you with an equipment recommendation.

**LINTERN AIR CONDITIONING**

The criteria for Lintern air conditioning is: Any one or a combination of the following conditions means we can offer our experience to address your problems.

**HIGH AMBIENT TEMPERATURE**

Designed for applications where ambient temperatures range from 80°F (26°C) to 160°F (71°C).

**HEAVY DIRT LOADING**

Lintern’s condenser and evaporator coils are designed for severe duty operation. Our coils are constructed of heavy-gauge, hardened aluminum alloy fins, epoxy coated for corrosion protection and offer low fin density to allow dirt to pass through the coils. Condenser coils are 6 fins or 8 fins per inch (3.2mm or 4.2mm). Commercial air conditioning coils utilize soft aluminum fin material, typically 12 to 14 fins per inch (2.1 to 1.8mm). The high fin density collects dirt, causing loss of airflow and system failure.

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**CORROSION RESISTANCE**

For optimum corrosion protection, cabinet construction is mild steel epoxy powder coated or stainless steel. Heat exchangers and copper tubing are coated with a flexible epoxy coating. Fasteners are stainless steel and fittings are optional in stainless steel, where available.

**HIGH VIBRATION**

Frames are heavy gauge all welded construction for maximum performance in high vibration applications such as overhead traveling cranes, mobile applications and others.
INTRODUCTION
LINTERN LEADERSHIP
WORLDWIDE

REFRIGERANTS
Refrigerants and their compatible lubricants are much more important today than they were just a few years ago. That's why it's important to select the right refrigerant for your specific application. Lintern equipment is engineered to give you that assurance.

HCFC-124 (R-124):
Lintern recommended optimal high temperature refrigerant offers extremely low ozone depletion and low global warming potential. Ideal for applications where the minimum ambient temperature during condenser operation is above 80°F (26°C) to a maximum continuous temperature of 160°F (71°C). Optional high-temperature motors are required when equipment is operated in ambient temperatures exceeding 160°F (71°C). HCFC-124 original phase-out is scheduled for year 2030.

HFC-134A (R-134A):
An excellent alternative for applications where the minimum ambient temperature during condenser operation is above 80°F (26°C) to a maximum continuous temperature of 140°F (60°C) for units with Scroll compressors and a maximum continuous temperature of 158°F (70°C) for units with “Bitzer” Semi-Hermetic compressors.

HCFC-401A (MP-39):
A retrofit alternative for Lintern R-12 equipment. Excellent for applications where the ambient temperature range is between 80°F (26°C) and 125°F (52°C). HCFC-401A original phase-out is scheduled for year 2030.

LUBRICANTS
Mineral oils, used in conjunction with CFC's are not fully compatible with HCFC, and are immiscible with HFC. They are not recommended for use with the new environmentally acceptable refrigerants.

MISCIBILITY/LUBRICITY:
Lubricants must be miscible throughout the refrigerant cycle and provide maximum lubricity (antiwear) for efficient, reliable compressor operation.

HCFC REFRIGERANTS R-124 AND R-401A (MP-39):
Lintern recommends and uses Alkyl-Benzene type lubricant (Zerol-300, ISO-68) for compatibility with the HCFC refrigerants.

HFC REFRIGERANT R-134A:
Alkyl-Benzene lubricants are not compatible with HFC-type refrigerants such as HFC-134a. Lintern recommends and uses a second generation POE-type (Polyol Ester, ISO-68) for its HFC requirements.

Lintern Equipment Designs

SEVERE DUTY:
- Operation in temperatures from 80°F (26°C) to 160°F (71°C)
- R-124 or R-134a refrigerant
- Open Drive, Semi-Hermetic or Hermetic Scroll Compressors
- 6 or 8 fins per inch (4.2 mm or 3.2 mm) on condenser coils.

HEAVY DUTY:
- Operation in temperatures to 140°F (60°C)
- R-134a refrigerant
- Hermetic Scroll Compressors
- 8 fins per inch (3.2 mm) on condenser coils.

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LIN-Intro
CAPACITY
13,000 BTUH (3.8 kW)
Will operate up to 140°F (60°C) ambient air temperature.

COMRESSOR
Open Drive, Reciprocating.

WELDED FRAME CONSTRUCTION
Welded tube frame epoxy painted.
Optional: Embossed 304 Stainless Steel.

COILS
Aluminum fin, copper tube. Epoxy coated.
Heavy gauge .01” (0.254mm) hardened fin stock.
Condenser: 6 fins per inch (4.2mm fin spacing).
Evaporator: 8 fins per inch (3.2mm fin spacing).

MOTORS
Condenser: 3 kW. (4 HP) totally enclosed. V.A.C.
3 HP. totally enclosed. V.D.C
Evaporator: Backward curved motorized impeller.
Optional high static blower for ducted applications.

VOLTAGES
230/460/575/3/60 VAC
380-415/3/50 VAC
250 VDC

REFRIGERANTS
R-134a.

HEAT
4KW Heat (13,660 BTUH)

CONTROLS
Dual pressure switch.
Crankcase heater.
Optional Digital controls.

WEIGHT
345 lbs. (156 kg)

SEVERE DUTY AIR CONDITIONING
CAPACITY:
18,000-24,000 BTUH (5.3kW-7.0kW)
80°F (27°C) – 190°F (88°C) ambient air temperature.

COMPRESSOR:
“BITZER” Open drive, reciprocating.
Positive displacement oil pump.

WELDED FRAME CONSTRUCTION:
14 gauge 0.075” (1.9mm)
Embosed 304 stainless steel frame.

COILS:
Aluminum finned, copper tube. Epoxy coated.
Heavy gauge 0.01” (0.254mm) hardened fin stock.
Condenser: 6 fins per inch. (4.2mm fin spacing)
Evaporator: 8 fins per inch. (3.2mm fin spacing)

MOTORS:
Condenser: 5.0HP (3.73kW) Totally enclosed.
Evaporator: 1/4HP (.19kW) or 1/2HP (.37kW).

VOLTAGES:
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

REFRIGERANTS:
R-124 and R-134a

CONTROLS:
High/Low Pressure Switch.
Oil Failure Switch.
Crankcase Heater.
Receiver Tank for system pump down.
Pressure Relief Valve.

FANS:
Condenser: Fiberglass reinforced nylon with
Aluminum hub.
Evaporator: Forward curved, direct drive.

WEIGHT:
650 lbs. (294 kg)
**CAPACITY**
14,000 BTUH (4.1 kW)
Will operate up to 140°F (60°C) ambient air temperature.

**COMPRESSOR**
"Copeland" Hermetic Scroll.

**WELDED FRAME CONSTRUCTION**
Welded tube frame epoxy painted.
Optional: Embossed 304 Stainless Steel.

**COILS**
Aluminum fin, copper tube. *Epoxy coated.*
Heavy gauge .01" (0.254mm) hardened fin stock.
Condenser: 6 fins per inch (4.2mm fin spacing).
Evaporator: 8 fins per inch (3.2mm fin spacing).

**MOTORS**
Condenser Fan: Axial fan
Evaporator: Backward curved motorized impeller.
Optional high static blower for ducted applications.

**VOLTAGES**
208-230/460/575/3/60 VAC
380-415/3/50 VAC

**REFRIGERANTS**
R134a.

**HEAT**
4KW Heat (13,660 BTUH)

**CONTROLS**
Dual pressure switch.
Optional digital controls.

**WEIGHT**
300 lbs. (136 kg)

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SEVERE DUTY AIR CONDITIONING
CAPACITY:
18,000-24,000 BTUH (5.3kW-7.0kW)
80°F (27°C) – 140°F (60°C) ambient air temperature.

COMPRESSOR:
“Copeland” Scroll Hermetic.

WELDED FRAME CONSTRUCTION:
14 gauge 0.075” (1.9mm)
Embossed 304 stainless steel frame.

COILS:
Aluminum finned, copper tube. Epoxy coated.
Heavy gauge 0.01” (0.254mm) hardened fin stock.
Condenser: 6 fins per inch. (4.2mm fin spacing)
Evaporator: 8 fins per inch. (3.2mm fin spacing)

MOTORS:
Condenser Fan: Axial fan.
Evaporator: 1/4HP (.19kW) or 1/2HP (.37kW).

VOLTAGES:
230-460/3/60 VAC
380-400-415/3/50 VAC

REFRIGERANT:
R-134a

CONTROLS:
High/Low Pressure Switch.
Receiver Tank for system pump down.
Pressure Relief Valve.

FANS:
Condenser: Axial fan.
Evaporator: Forward curved, direct drive.

WEIGHT:
650 lbs. (294 kg)
CAPACITY:
20,000-65,000 BTUH (5.8kW - 19kW).
50°F (10°C) - 135°F (57°C) Ambient air temperature.
Variation in capacity dependent on compressor sizing,
type of refrigerant, ambient operating temperature and
return air temperature to evaporator.

COMPRESSOR:
“Copeland” hermetic Scroll.

WELDED FRAME CONSTRUCTION:
16 gauge 0.06” (1.5mm).
304 Stainless Steel.

COIL:
Aluminum fin, copper tube. Epoxy coated.
Heavy gauge .01” (0.254mm) hardened fin stock.
Condenser: 8 fins per inch (3.2mm).
Evaporator: 8 fins per inch (3.2mm).

MOTOR:
Condenser Fan: Axial fan.
Evaporator: Backward curved motorized impeller.

VOLTAGES:
208-230/460/575/3/60 VAC
380-415/3/50 VAC
Single phase available on limited models.

REFRIGERANT:
R-134a

HEATER:
Optional 4KW, 6KW, 8KW or 10KW.

FANS:
Condenser: Axial Fan.
Evaporator: Backward curved, motorized impeller.

WEIGHT:
520 lbs. (236 kg)

HEAVY DUTY AIR CONDITIONING
SUPER DUTY

YOU CAN’T AFFORD ANYTHING LESS THAN A LINTERN!

CONDENSER

TOTAL COOLING CAPACITY
20,000 BTUH (5.9 kW)

OPERATING RANGE
70° F (21° C) - 135° F (57° C) ambient air temperature

WELDED FRAME CONSTRUCTION
Welded, heavy duty gauge steel frame
Condenser polyester powder coated

WEIGHT
Condenser weight is 243 lbs (110 kg)

CONDENSER COIL
Aluminum tube and fin microchannel construction
14 fins per inch (1.8 mm)
Fully ElectroFin® E-Coated

REFRIGERANT
R-134a

MOTOR
Condenser Fan: motorized axial fan, 18” (457 mm) diameter
Coated aluminum blades

VOLTAGES
Most 3 phase industrial voltages 50/60 Hz
208-230/1/60 Hz & 220-240/1/50 Hz

EVAPORATOR

MOUNTING
Ceiling mount or wall mount

WELDED FRAME CONSTRUCTION
Welded, heavy duty gauge steel frame
Evaporator epoxy powder coated

REFRIGERANT FLOW CONTROL
Balance port thermostatic expansion valve

HEATER
4 kW Electric heat (optional)

MECHANICAL AIR FILTER
Polyester fiber cleanable filter

WEIGHT
152 lbs. (68 kg)

EVAPORATOR COIL
Aluminum tube construction
12 fins per inch (2.1 mm)
Fully ElectroFin® E-Coated

AIR FLOW
430 CFM / 1140 RPM (60 Hz)
345 CFM / 1450 RPM (50 Hz)

THERMOSTAT
Electronic NEMA type 4X with LCD display screen
Mounted in evaporator frame with Fan-Off-Auto Rocker mode switch

INCLUDED WITH THE UNIT:
Condenser • Evaporator • 20’ (6.1 m) hook up kit

YOU CAN’T AFFORD ANYTHING LESS THAN A LINTERN!
CAPACITY:
13,000 BTUH (3.8 kW)
Will operate up to 140°F (60°C) ambient air temperature.

COMPRESSOR:
Open Drive, Reciprocating.

WELDED FRAME CONSTRUCTION:
16 gauge 0.08" (1.5mm)
Epoxy Painted.
Optional embossed 304 stainless steel frame.

CONDENSER COILS:
Aluminum fin, copper tube. 6 fins per inch (4.2mm)
Heavy gauge hardened fin stock 0.01" (0.254mm) thickness.
Epoxy coated.

MOTORS
3.0 kW. (4.0HP) totally enclosed.
3.0HP for 250 V.D.C
Suitable for high ambient applications.

VOLTAGES
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

REFRIGERANTS
R-134a.

CONTROLS
High/Low Pressure Switch.
Crankcase Heater.
Receiver Tank for system pump down.
Pressure Relief Value.

FANS
Fiberglass reinforced nylon with Aluminum hub.

WEIGHT
345 lbs. (156 kg)

SEVERE DUTY AIR CONDITIONING
21334SC SELF-CONTAINED UNIT WHEN MOUNTED WITH EVAPORATOR
CAPACITY:
18,000-24,000 BTUH (5.3kW-7.0kW)
80°F (27°C) – 190°F (88°C) ambient air temperature.

COMPRESSOR:
“BITZER” Open drive, reciprocating.
Positive displacement oil pump.

WELDED FRAME CONSTRUCTION:
14 gauge 0.075” (1.9mm)
Embossed 304 stainless steel frame.

CONDENSER COIL:
Aluminum finned, copper tube. 6 fins per inch (4.2mm).
Heavy gauge hardened fin stock 0.01” (0.254mm)
thickness. Epoxy coated.

MOTOR:
5.0HP (3.73kW) Totally enclosed.
Suitable for high ambient applications.

VOLTAGES:
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

REFRIGERANTS:
R-124 and R-134a

CONTROLS:
High/Low Pressure Switch.
Oil Failure Switch.
Crankcase Heater.
Receiver Tank for system pump down.
Pressure Relief Valve.

FANS:
Fiberglass reinforced nylon with
Aluminum hub.

WEIGHT:
510 lbs. (231 kg)
228SC SELF-CONTAINED UNIT WHEN MOUNTED WITH 924E EVAPORATOR
CAPACITY
13,000 BTUH (3.8kW)
80°F (27°C) – 140°F (60°C) ambient air temperature.

COMPRESSOR
“Copeland” hermetic scroll

WELDED FRAME CONSTRUCTION
16 gauge 0.060” (1.5mm)
Embosed 304 stainless steel frame.

CONDENSER COIL
Aluminum finned, copper tube. 6 fins per inch (4.2mm).
Heavy gauge hardened fin stock 0.01” (0.254mm)
thickness. Epoxy coated.

MOTORS
Axial fan, 13.8” diameter
Suitable for high ambient applications.
Single phase available.

VOLTAGES
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC

REFRIGERANT
R-134a

CONTROLS
High/Low Pressure Switch.
Receiver Tank for system pump down.
Pressure Relief Valve.

FAN
Axial Fan

WEIGHT
300 lbs. (137 kg)
214 SERIES
CONDENSER
SECTION

21434SC SELF-CONTAINED UNIT WHEN MOUNTED WITH EVAPORATOR

Lintern
Corporation Worldwide

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www.lintern.com

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LIN-C-214-2-CB-807-2.5M
CAPACITY:
18,000-24,000 BTUH (5.3kW-7.0kW)
80°F (27°C) – 140°F (60°C) ambient air temperature.

COMPRESSOR:
“Copeland” hermetic scroll

WELDED FRAME CONSTRUCTION:
14 gauge 0.075” (1.9mm) Embossed 304 stainless steel frame.

CONDENSER COIL:
Aluminum finned, copper tube. 6 fins per inch (4.2mm). Heavy gauge hardened fin stock 0.01” (0.254mm) thickness. Epoxy coated.

CONDENSER FAN MOTOR:
Axial fan.
Suitable for high ambient applications.

VOLTAGES:
230-460/3/60 VAC
380-400-415/3/50 VAC

REFRIGERANTS:
R-134a

CONTROLS:
High/Low Pressure Switch.
Receiver Tank for system pump down.
Pressure Relief Valve.

FANS:
Axial Fan

WEIGHT:
510 lbs. (231 kg)
229SC SELF-CONTAINED UNIT WHEN MOUNTED WITH 924E EVAPORATOR
CAPACITY
18,000-48,000 BTUH (5.3kW-14.1kW)
80°F (27°C) - 160°F (71°C) ambient air temperature.

COMPRESSOR
“BITZER” Semi-Hermetic, reciprocating.
4 cylinder, with 50% unloading compressor or “Copeland” Scroll Compressor.

WELDED FRAME CONSTRUCTION
Heavy gauge epoxy painted frame.
Option: 316 stainless steel frame.

COMPRESSOR COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge hardened fin stock 0.01” (0.254mm) thickness.
Epoxy coated.
1 or 2 coils, depending on capacity required.

CONDENSER FAN MOTORS
Motorized axial fan, 18” dia.
Coated aluminum blades.

VOLTAGES
208-230/460/575/3/60 VAC
200,220/380,400/415/500/3/50 VAC

REFRIGERANTS
R-124 and R-134a

CONTROLS
Dual pressure switch.
Low pressure switch for unloading.
Optional low ambient controls.
Crankcase heater.
Receiver tank for system pumpdown.
Pressure relief valve.

MODULAR DESIGN
Can be mounted side-by-side or stacked vertically.

SEVERE DUTY AIR CONDITIONING
Capacity
18,000-48,000 BTUH (5.3kW-14.1kW)
80°F (27°C) – 160°F (71°C) ambient air temperature.

Compressor
“BITZER” Open drive, reciprocating.
Positive displacement oil pump.
2 or 4 cylinder, depending on capacity required.
Optional Semi-Hermetic or Scroll compressors Available.

Welded Frame Construction
Heavy gauge epoxy painted frame.
Optional 316 stainless steel frame.

Compressor Coil
Aluminum fin, copper tube. 6 fins per inch (4.2mm).
Heavy gauge hardened fin stock 0.01” (0.254mm) thickness.
Epoxy coated.
1 or 2 coils, depending on capacity required.

Motors
Totally enclosed motors. Sized for required capacity.
Suitable for high ambient applications.

Voltages
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

Refrigerants
R-124 and R-134a

Controls
Dual pressure switch.
Oil failure switch.
Crankcase heater.
Receiver tank for system pumpdown.
Pressure relief valve.

Fans
Motorized axial fan.
Optional fiberglass reinforced nylon with aluminum hub.

Severe Duty Air Conditioning
NEW FROM LINTERN!

CAPACITY
17,000-110,000 BTUH (4.9kW - 32.2kW).
80°F (26°C) - 158°F (70°C) ambient air temperature.
Variation in capacity dependent on compressor sizing,
ambient operating temperature and return air temperature
to evaporator.

COMPRESSOR
“BITZER” Semi-Hermetic reciprocating compressor.
2 cylinder for single coil configuration.
4 cylinder, with 50% unloading solenoid for
dual coil configuration.

WELDED FRAME CONSTRUCTION
Heavy gauge 304 Stainless Steel frame.
4” [102] common base channel.

COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge .01” (0.254mm) hardened fin stock.
Epoxy coated.

CONDENSER FAN
Motorized Axial Fan.

VOLTAGES
208-230/460/575/3/60 VAC
380-415/3/50 VAC

REFRIGERANTS
R-134a.

CONTROLS
High pressure switch.
Low pressure switch.
Receiver tank for system pump down.
Pressure relief valve.
Unloading switch.
120 watt crankcase heater.

WEIGHT
350 lbs. (159 kg). Single Coil
Up to 850 lbs. (386 kg.) Dual Coils

HEAVY DUTY AIR CONDITIONING
G20 SERIES
CONDENSER
SECTION

G201 & G202 SERIES CONDENSER (SINGLE COIL)

G203 THRU G207 SERIES CONDENSER (DUAL COILS)
**CAPACITY:**
20,000-65,000 BTUH (5.8kW - 19kW).
50°F (10°C) - 140°F (60°C) Ambient air temperature.
Variation in capacity dependent on compressor sizing, type of refrigerant, ambient operating temperature and return air temperature to evaporator.

**COMPRESSOR:**
“Copeland” Hermetic Scroll Compressor.

**WELDED FRAME CONSTRUCTION:**
Heavy gauge 304 Stainless Steel frame.

**COIL:**
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge .01” (0.254mm) hardened fin stock.
Epoxy coated.

**CONDENSER FAN/ MOTOR:**
Motorized Axial Fan.

**VOLTAGE:**
208-230/460/575/3/60 VAC
380-415/3/50 VAC
Single phase available on limited models up to 3 ton (10kW).

**REFRIGERANTS:**
R-134a.

**CONTROLS:**
High pressure switch.
Low pressure switch.
Receiver tank for system pump down.
Pressure relief valve.

**WEIGHT:**
310 lbs. (141 kg).

**HEAVY DUTY AIR CONDITIONING**
WHEN USED IN COMBINATION WITH THE LHDE36 EVAPORATOR, SYSTEMS CAN BE COMBINED TO OPERATE AS A SELF-CONTAINED WALL MOUNT UNIT.

LHDW SELF-CONTAINED WALL MOUNT FRONT VIEW

LHDW SELF-CONTAINED WALL MOUNT SIDE VIEW
931SE SLIM LINE EVAPORATOR SERIES

CAPACITY
8,000-29,000 BTUH (2.3kW-8.5kW) with 80°F (27°C) return air temperature.

MOUNTING
Ceiling mount or wall mount.
No changes to the frame.

WELDED FRAME CONSTRUCTION
Heavy gauge epoxy painted frame.
Optional Embossed 304 stainless steel.

EVAPORATOR COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge hardened fin stock 0.0095" (0.241mm) thickness.
Epoxy coated.

BLOWER MOTOR
1/4HP (0.19kW) or 1/2HP (0.37kW)
NEMA 56 frame TENV 960-1140/1450-1750 RPM.

VOLTAGES
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

REFRIGERANT FLOW CONTROL
Balance port thermostatic expansion valve.

HEATER
4kW Electric heat

MECHANICAL AIR FILTER
Polyester fiber cleanable filter.

REFRIGERANT
R-124 and R-134a

WEIGHT
AC-152 lbs. (69 kg)
DC-160 lbs. (73 kg)

AIR FLOW
1/4HP Motor: 430 CFM (60Hz), 345 CFM (50Hz)
1/2HP Motor: 630 CFM (60Hz), 550 CFM (50Hz)

EVAPORATORS
MOUNTING CONFIGURATIONS

CEILING MOUNT

RETURN AIR

11.125 [283]

SUPPLY AIR

WALL MOUNT

RETURN AIR

SUPPLY AIR

26.000 [661]

33.500 [850]
CAPACITY
11,500-29,000 BTUH (3.4kW-8.5kW) with 80°F (27°C) return air temperature.

MOUNTING CONFIGURATIONS
Ceiling mounting, Roof mounting, Thru-wall mounting.

WELDED FRAME CONSTRUCTION
14 gauge 0.075” (1.9mm) and 11 gauge 0.120” (3.04mm) Embossed 304 stainless steel.

EVAPORATOR COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm). Heavy gauge hardened fin stock 0.0095” (0.241mm) thickness. Epoxy coated.

BLOWER MOTOR
1/4HP (0.19kW) or 1/2HP (0.37kW) NEMA 56 frame TENV 960-1140/1450-1750 RPM.

VOLTAGES
208-230/460/575/3/60 VAC
190,200/380,400,415/500/3/50 VAC
250 VDC

REFRIGERANT FLOW CONTROL
Balance port thermostatic expansion valve.

HEATER
4kW (13,660 BTUH.)

MECHANICAL AIR FILTER
Polyester fiber throw-away filter.

REFRIGERANT
R-124 and R-134a.

WEIGHT
140 LBS. (64kg.)

AIR FLOW
1/4HP Motor: 430 CFM (60Hz), 345 CFM (50Hz)
1/2HP Motor: 630 CFM (60Hz), 550 CFM (50Hz)

Air Conditioning and Filtration Equipment
EVAPORATORS
CAPACITY
10,000 BTUH (2.9kW) Based on 95°F (35°C)
evaporator return air temperature. For higher capacities
we offer multiple evaporators for use with larger Lintern
condenser sections.

MOUNTING CONFIGURATIONS
Horizontally or vertically, front or back for mounting on an
inside ceiling roof, inside wall of an office, or outside wall
of a electrical enclosure.

WELDED FRAME CONSTRUCTION
Heavy gauge embossed 304 stainless steel frame.

EVAPORATOR COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge hardened fin stock 0.0095” (0.241mm) thickness.
Epoxy coated.

BLOWER WHEEL/MOTOR
Motorized impeller. Backward curved.

VOLTAGES
380-460/3/50-60Hz, VAC
208-230/1/50-60Hz, VAC

REFRIGERANT FLOW CONTROL
Balance port thermostatic expansion valve.

MECHANICAL AIR FILTER
Polyester fiber cleanable filter.

REFRIGERANT
R-124 and R-134a

WEIGHT
50 LBS. (23kg.)

NOISE LEVEL
60Hz 56dBA
50Hz 52dBA
**Capacity**
18,000-24,000 BTUH (5.3-7.0kW) Based on 90°F (32°C)
evaporator return air temperature. For higher capacities
we offer multiple evaporators for use with larger Lintern
condenser sections.

**Mounting Configurations**
Vertically, for mounting on an outside wall
of an electrical enclosure.

**Welded Frame Construction**
Heavy gauge embossed 304 stainless steel frame.

**Evaporator Coil**
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge hardened fin stock 0.0095” (0.241mm) thickness.
Epoxy coated.

**Blower Wheel/Motor**
Motorized impeller. Backward curved.

**Voltages**
230,460/3/60Hz, VAC
220,380-415/3/50Hz VAC

**Refrigerant Flow Control**
Balance port thermostatic expansion valve.

**Mechanical Air Filter**
Polyester fiber cleanable filter.

**Refrigerant**
R-124 and R-134a

**Weight**
105 LBS. (48kg.)

Air Conditioning and Filtration Equipment

**Evaporators**
CAPACITY:
20,000-65,000 BTUH (5.8kW-19kW).
50°F (10°C) - 135°F (57°C) Ambient temperature.
Variation in capacity dependent on condenser sizing, type of refrigerant, ambient operating temperature and return air temperature.

MOUNTING CONFIGURATIONS:
Wall mounting, Roof mounting or ceiling hung mounting.

WELDED FRAME CONSTRUCTION:
Heavy gauge 304 stainless steel frame.

EVAPORATOR COIL:
Aluminum fin, copper tube. 8 fins per inch (3.2mm).
Heavy gauge hardened fin stock 0.0095" (0.241mm) thickness.
Epoxy coated.

BLOWER WHEEL / MOTOR:
Motorized impeller. Backward curved.

VOLTAGES:
208-230/460/575/3/60Hz, VAC
380-415/3/50Hz VAC
Single phase available on limited models up to 3 tons (10kW).

REFRIGERANT FLOW CONTROL:
Balance port thermostatic expansion valve.

HEATER:
Optional 4KW, 6KW, 8KW or 10KW

MECHANICAL AIR FILTER:
Polyester fiber cleanable filter.

REFRIGERANTS:
R-134a

WEIGHT:
212 LBS. (96kg.)

AIR FLOW:
1200 CFM 50/60Hz
CAPACITY
45,000 BTU/H @ 45° F evap. temp/110° F liq. temp, 60 HZ. For higher capacities, we offer multiple evaporators for use with larger Lintern condenser sections.

MOUNTING CONFIGURATIONS
Indoor Ceiling Mount Only. Specially designed for electric room cooling.

WELDED FRAME CONSTRUCTION
Heavy (#16 GA) frame, stainless steel drip pan. Epoxy coated.

EVAPORATOR COIL
Aluminum fin, copper tube. 8 fins per inch (3.2mm). Heavy gauge hardened fin stock 0.0095" (0.241mm) thickness. Epoxy coated.

BLOWER WHEEL / MOTOR
Motorized impeller.

VOLTAGES
230, 460/3/60Hz, VAC
220, 380-415/3/50Hz VAC
Supports DC-VFD power option for 240 VDC

REFRIGERANT FLOW CONTROL
Balance port thermostatic expansion valve.

MECHANICAL AIR FILTER
Polyester fiber cleanable filter.

REFRIGERANTS
HFC-134a

WEIGHT
150 LBS. (68kg.)
**CAPABILITY**
Pressurization of enclosures up to 840 ft³ (24 m³) @ 50/60Hz,
Calculations based on 10% of room volume leakage per minute.
Pressurization level of 0.05 inches W.C. (12.5 Pa)

**CABINET**
Constructed of heavy gauge steel.
Epoxy painted.
Optional 316 Stainless Steel.

**MOUNTING**
Vertical mount only. Directly to interior or exterior wall of enclosure,
or remote mount not exceeding 6 ft (1.8m) away from enclosure.

**BLOWER**
Motorized impeller backward curved.

**FILTER TRAIN**
Combination of 5 filters:
No. 1 Filter: Electrostatic Pre-filter, washable
No. 2 Filter: Disposable 2" (50mm) Pleated filter.
No. 3 and No. 4 Filter: Two (2) Cells (40 lbs. each) with
disposable media of Zeolite impregnated with potassium permanganate.
No. 5 Filter: Absolute HEPA filter using a disposable glass medium.
99.97% efficient on particulate 0.3 microns or larger.

**SLIDE PLATE**
Adjustable slide plate located on return air opening.

**VFD**
Variable Frequency Drive package with pressure transducer
to automatically maintain internal room pressure.

**VOLTAGES**
All Industrial Voltages.

**OPTIONS**
316 Stainless Steel Cabinet and Service Panels.
Caustic impregnated charcoal filter media for chlorine contaminated areas.
**Capability**
Pressurization of enclosures up to 3000 ft³ (85 m³).
Calculations based on 10% of room volume leakage per minute.
Pressurization level of 0.05 inches W.C. (12.5 Pa).
For additional pressurization level contact factory.

**Cabinet**
Constructed of heavy gauge steel. Epoxy painted cabinet provides superior resistance to inorganic acids, water, and corrosive solutions.

**Mounting**
Standard Vertical Mount.

**Blower**
Motorized backward curve blower with VFD controls.

**Heat**
Optional 4kW electric duct heater. (Not available for DC power.)

**Filter Train**
Combination of 4 filters:
No. 1 Filter: Electrostatic Pre-filter, washable.
No. 2 Filter: Disposable 4” (102mm) Pleated filter.
No. 3 Filter: Two (2) Cells (60 lbs. each) with disposable media of Zeolite impregnated with potassium permanganate.
No. 4 Filter: Absolute HEPA filter using a disposable glass medium. 99.97% efficient on particulate 0.3 microns or larger.

**Slide Plate**
For return air adjustment. Different level of pressurization requests different initial settings.

**VFD**
Variable Frequency Drive package with pressure transducer to automatically maintain internal room pressure.

**Voltages**
All Industrial Voltages, AC and DC.

**Options**
316 Stainless Steel Cabinet and Service Panels.
Cautious impregnated charcoal filter media for chlorine contaminated areas. Insulation package to cut off cooling/heating capacity lost through the walls of the cabinet.
LIF3000 FILTRATION PRESSURIZATION UNIT

APPLICATION OF ADJUSTABLE RETURN AIR GRILL WHEN FILTER UNIT IS MOUNTED OUTSIDE CONDITIONED SPACE.

APPLICATION OF ADJUSTABLE RETURN AIR GRILL WHEN FILTER UNIT IS MOUNTED INSIDE CONDITIONED SPACE.

HEPA FILTER BLOWER ACCESS

FILTER ACCESS

M6 BOLTS 10MM HEX HEAD (8) PLACES

0.550 DIA. [14] (6) PLACES

26.125" [664]

25.125" [638]

68.75" [1746]

1.375" [35] LIFTING EYE

25.00" [635] SERVICE CLEARANCE

JUNCTION BOX

8685 Station Street • P.O. Box 90 • Mentor, OH 44061-0090 USA
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Printed in U.S.A. on recycled paper
LIN-F-LIF3000
**Capacity:**
Primary Tank: 3.2 kW (9.8 lbs./hr.) 1.2 GPH (5.5 LPH)
Secondary Tank: 3.2 kW (9.8 lbs./hr.) 1.2 GPH (5.5 LPH)
Total System Capacity: 6.4 kW (19.6 lbs./hr.) 2.4 GPH. (11 LPH)

**Welded Frame Construction:**
16 gauge 0.06” (1.5mm)
316 Stainless Steel.
Continuously welded seams.
Each tank is equipped with 3/4” FPT (19mm) ports.
3/8” FPT (9.5mm) clean out drains.

**Heater Elements:**
Four (4) heavy incoloy sheath tubular elements.

**Voltages:**
All industrial voltages.

**Controls:**
- 16” X 16” X 6” (406mm X 406mm X 152mm) remote mounted control panel.
- Indicator light for primary tank overflow.
- Indicator light for secondary tank high water level and shut down of air conditioner.
- 30 second timer delay on floats to compensate for crane movement.
- Over temperature thermostat to protect heaters.

**Weight:**
Tank: 47 lbs. (21.3 kg).
Controls: 40 lbs. (18 kg).

**Optional Single Tank Condensate Evaporator:**
Model No. CED-260.
Capacity: 6 kW (9 lbs./hr.) 1 GPH. (4.5 LPH). Two (2) heavy incoloy sheath tubular elements.
Controls: 16” X 16” X 6” (406mm X 406mm X 152mm) remote mounted control panel, (less indicator lights).
Weight: 30lbs. (13.6 kg)
CED 964
CONDENSER EVAPORATOR

DUAL TANK CONDENSATE EVAPORATOR

SINGLE TANK CONDENSATE EVAPORATOR

8685 Station Street • P.O. Box 90 • Mentor, OH 44061-0090 USA
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www.lintern.com

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900X-1 GLOWLITE:
Meets OSHA safety color code for marking physical hazards
Top and lens ring assembly made of
Light weight, pressure-cast aluminum. Heavy-duty prismatic glass lens reinforced with ribbing inside and out for extra strength, provides maximum signal effect in all directions. Receptacle focuses lamp center with prism to increase signaling efficiency. The receptacle is suitable for use up to 250V AC or DC, LED bulb included. (LED Bulb 120VAC only). Wide wiring clearances make installation easy and prevents exposed leads from touching top of casting.

Accommodates 3/4“conduit for vertical, right angle, or straight-through wiring. Screw-in plugs in unused tapped openings. Captive neoprene “C” gasket seal top to lens ring assembly to make weather and dust resistant. Unique snap-clamp and safety chain arrangement make lamp changes safe and easy. Weight 4 lbs. (2 kg.) some assembly is required.

COLORS: Amber, Blue, Clear, Green, Magenta, & Red (Lens sold separately)

LED BULB: (P/N: 140609)
*9 Watts (Equivalent to a 60 Watt Standard Incandescent light bulb).
*750 lumens brightness, 4,000 K light appearance.
*Uses 85% less energy compared to a standard Incandescent light bulb.
*360° Light directional.
*Rated for indoor and outdoor use.

LENS GUARD: (P/N: 140030)
Wire guard can be used to protect lens from damage yet allows maximum signal visibility. (Optional)
<table>
<thead>
<tr>
<th>Item Number</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>140081</td>
<td>Casting, Top</td>
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<td>2</td>
<td>140082</td>
<td>Casting, Ring</td>
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<td>3</td>
<td>140388</td>
<td>Spacer, Receptacle</td>
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<tr>
<td>4</td>
<td>140060-1</td>
<td>Receptacle</td>
<td>1</td>
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<tr>
<td>5</td>
<td>100221</td>
<td>M4 x 10MM Pan Head Screw</td>
<td>2</td>
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<td>6</td>
<td>140389</td>
<td>Washer, Nylon</td>
<td>2</td>
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<td>7</td>
<td>140390</td>
<td>Shield, Receptacle</td>
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<td>140391</td>
<td>Cap, 3/4&quot; Threaded</td>
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<td>140356</td>
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<td>140137</td>
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<td>140138</td>
<td>Lens, Amber</td>
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<td>140139</td>
<td>Lens, Green</td>
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<td>Lens, Clear</td>
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<td>140141</td>
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<td>140016</td>
<td>Snap Ring</td>
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<td>12</td>
<td>140583</td>
<td>Spring Clip</td>
<td>3</td>
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<td>13</td>
<td>100222</td>
<td>Screw, 10-24 x 3/8&quot;</td>
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<td>140025</td>
<td>Chain, #8 12&quot; Long</td>
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<td>15</td>
<td>140030</td>
<td>Guard, (optional)</td>
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<td>16</td>
<td>140609</td>
<td>LED Light Bulb</td>
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</table>

Top Assembly & Receptacle – Part # 900XA-1
Includes Item Number – 1, 3, 4, 5, 6, 7, 8

Ring & Gasket Assembly – Part # 140586
Includes Item Number – 2, 9, 11, 12, 13, 14

Optional: Shock Absorber – Part # 240-26
**SIGNAL LIGHT WITH MOUNTING BRACKET:**

**A900-1 GLOWLIGHT:**
Single signal light with mounting bracket. Weather resistant, dust-resistant models with all the features of the 900X-1. Heavy steel bracket supports signal light.

**MULTIPLE SIGNAL LIGHT WITH BRACKET:**
Multiple A900-1 can be assembled in series with heavy steel mounting brackets supporting each signal assembly.

**COLORS:** Amber, Blue, Clear, Green, Magenta, & Red (Lens Sold Separately)

**MULTIPLE SIGNAL LIGHT SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of Lights</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A900-1</td>
<td>1</td>
<td>7.375” (187mm)</td>
<td>5.438” (138mm)</td>
<td>8.25” (210mm)</td>
<td>4.1 lbs. (1.8kg)</td>
</tr>
<tr>
<td>2A900-1</td>
<td>2</td>
<td>7.375” (187mm)</td>
<td>12” (305mm)</td>
<td>8.25” (210mm)</td>
<td>9.6 lbs. (4.4kg)</td>
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<tr>
<td>3A900-1</td>
<td>3</td>
<td>7.375” (187mm)</td>
<td>18.5” (471mm)</td>
<td>8.25” (210mm)</td>
<td>14.6 lbs. (6.6kg)</td>
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<tr>
<td>4A900-1</td>
<td>4</td>
<td>7.375” (187mm)</td>
<td>25.125” (638mm)</td>
<td>8.25” (210mm)</td>
<td>19.6 lbs. (8.9kg)</td>
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<td>5A900-1</td>
<td>5</td>
<td>7.375” (187mm)</td>
<td>31.68” (210mm)</td>
<td>8.25” (210mm)</td>
<td>24.5 lbs. (11.1kg)</td>
</tr>
</tbody>
</table>

**DUAL SIGNALS:**

**910EM-1 GLOWLIGHT:**
Weather resistant, dust-resistant, dual signal light with heavy steel mounting bracket; 3/4 “ conduit connections on each section simplify mounting and wiring. Unique snap-clamp and safety chain arrangement make lamp changes safe and easy. Lens ring and top assembly made of light weight, pressure-cast aluminum. Receptacles suitable for up to 250V, AC or DC, LED bulb included. (LED Bulb 120VAC only).
SINGLE LIGHT FLASHER: (P/N 140607)
Totally encapsulated & solid state single light fixed
60 flashes per minute (FPM). Small design (1.875” x 1.00”)
with mounting tab. Two 6” long wire leads for termination.
120VAC, 50/60 supply voltage.
Ideal for mounting inside 900X Glowlites or
440-11 Traffic Lanterns.

DUAL LIGHT ADJUSTABLE ALTERNATING FLASHER:
(P/N 140606)
Alternating flasher with adjustable speed control knob.
2” x 3” adjustable speed board from 3 times/second to
Once every 3 seconds, (20-180FPM).
Also can be used on a dual light when only one
light is needed to flash.
120VAC, 50/60 supply voltage.
Ideal for 440-21 Traffic Lanterns.

DUAL LIGHT INDUSTRIAL FIXED ALTERNATING FLASHER:
(P/N 140608)
Industrial duty encapsulated alternating flasher with a
set flash rate of 56 FPM.
2.375” x 1.75” with aluminum heat sink baseplate.
Also can be used on a dual light when only one
light is needed to flash.
120VAC, 50/60 supply voltage.
Ideal for 440-21 Traffic Lanterns in extreme environments.

3 LIGHT TRAFFIC SIGNAL FLASHER: (P/N140605)
Standard Red/Amber/Green traffic sequence flash.
2” x 3” board with adjustable speed sequence control knob
for total cycle time from 6 seconds to 130 seconds.
120VAC, 50/60 supply voltage.

Included Options: DIP switch modes for Flash Red only,
Flash Yellow only and alternating Red/Yellow flash.
Ideal for 440-31 Traffic Lanterns.
PLANT TRAFFIC SIGNALS:
Lintern lanterns offer many advantages for traffic at dangerous corners, weigh scales, underpasses and abutments. Equipped with metal reflectors, hoods and high-quality lenses which provide a brilliant signal under all conditions. 6 3/8” (162mm) diameter semaphore glass lenses meet OSHA Safety Color Code for marking physical hazards. Strongly built of welded 16 gauge steel. Equipped with hinged doors and 1/4 turn captivated fasteners for easy lamp changes. Weather resistant and dust resistant. Traffic signals provided with receptacle to handle up to 110VAC. Supplied with halogen flood light. Lanterns can be combined to face different directions.

COLORS: Red, Blue, Amber, Railroad Green.

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of Lights</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>440-11</td>
<td>1</td>
<td>8”(203mm)</td>
<td>8”(203mm)</td>
<td>12.188”(310mm)</td>
<td>8.5 lbs. (4.3kg)</td>
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<tr>
<td>440-21</td>
<td>2</td>
<td>16”(406mm)</td>
<td>8”(203mm)</td>
<td>12.188”(310mm)</td>
<td>14 lbs. (7kg)</td>
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<tr>
<td>440-31</td>
<td>3</td>
<td>24”(610mm)</td>
<td>8”(203mm)</td>
<td>12.188”(310mm)</td>
<td>22 lbs. (11kg)</td>
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</tbody>
</table>

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CAPACITY VS POWER REQUIREMENTS

DO NOT BE FOOLED BY FALSE CLAIMS OF CAPACITY.

It takes a specific amount of power to achieve cooling capacity requirements.

The Below chart will give you a general understanding of obtainable capacities and the amount of horsepower that is required to meet these capacities.

**Compression Power Consumption for Typical A/C with Open Drive Compressor**

![Graph showing compression power consumption vs cooling capacity](image_url)

- **OAT up to 140 F, R134a and R124**
- **OAT up to 160 F, R124**
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