

ADIRONDACK AIRE

Series LS Slope Top Console Water Source Heat Pump

New Construction and Replacement Applications

Application Flexible | Fast and Easy Replacement | Damage Protection
Field Reversible Cabinet and Chassis for Left and Right Side Water Connections



ADIRONDACK-AIRE LS SERIES SLOPE TOP CONSOLE

New Construction and Replacement Applications

The Cold Point LS series slope top console water source heat pump unit provides environment friendly, high efficiency, cooling and heating where individual, quiet control of space is a priority.

The LS series is designed with the growing retrofit market in mind, making it an ideal choice for renovation or new construction projects. The unit cabinet is powder-painted appliance-grade steel and includes an attractive extruded aluminum grille and control door.

The LS series has two chassis sizes, small (models 08, 10 and 12), and large (models 15 and 18). Quality components, careful design and testing, and the latest in environmentally friendly technology advances assure long life, user satisfaction, and lower energy cost.

Standard Features:

- Made in the USA
- Designed for easy installation and compatibility.
- ETL Safety approved
- Quiet, durable, and efficient compressor with built-in pressure and temperature protection
- Heavy gauge G90 galvanized steel construction
- Stainless steel drain pan
- High efficiency copper tube-aluminum fin evaporator coil
- High efficiency coaxial condenser coil with low water-side pressure drop
- Unit-mounted digital controls
- Electronic control board with anti-short cycle protection and lockout protection
- High pressure switch
- Frost-free cooling
- Water coil freeze protection
- Refrigerant circuit access ports
- Capillary expansion
- Positive shift reversing valve
- Precision charged with R-410A refrigerant
- 1/2 Inch water connections
- Electrostatic washable air filter

Performance Ratings

| Model | Cool Btuh | Sens Btuh | EER | Heat Btuh | COP | CFM Hi/Lo | GPM | Coil PD | Refrig |
|-------|-----------|-----------|------|-----------|------|-----------|------|---------|--------|
| LS-08 | 8000 | 6200 | 15.5 | 9000 | 4.7 | 300/250 | 2 | 10 | R-410A |
| LS-10 | 10500 | 7900 | 14.9 | 11800 | 4.6 | 375/300 | 2.5 | 11 | R-410A |
| LS-12 | 12400 | 9100 | 14.8 | 13500 | 4.4 | 400/325 | 3 | 12 | R-410A |
| LS-15 | 15500 | 11400 | 15.0 | 16200 | 4.5 | 500/440 | 3.75 | 21 | R-410A |
| LS-18 | 19000 | 13700 | 14.8 | 20700 | 4.36 | 600/550 | 4.25 | 16 | R-410A |

Continuous engineering improvements may result in performance changes without notice.

Replacement Opportunities

| JUST SOME OF THE MANUFACTURERS PRODUCTS THAT THE CS SERIES CAN REPLACE | |
|--|--------------------------|
| CLIMATE MASTER CS SERIES | ISLANDAIRE LR SERIES |
| CLIMATE MASTER TRC SERIES | MCQUAY WMHC SERIES |
| CLIMATE MASTER CLE SERIES | ICE AIR CHPW SERIES |
| FLORIDA HEAT PUMP CA SERIES | WATER FURNACE NCC SERIES |
| FLORIDA HEAT PUMP BC SERIES | BULLDOG SKC SERIES |
| CARRIER 50 PEC SERIES | TRANE GEC SERIES |

Electrical Data

| Model | Compressor Type | Voltage | Fans | | Compressor | | Total Amps | Ckt Amps | Max Fuse | Min Volts |
|-------|-----------------|--------------|------|-----|------------|------|------------|----------|----------|-----------|
| | | Volt-Hz-Ph | Amps | HP | RLA | LRA | | | | |
| LS-08 | Rotary | 115/60/1 | 1.4 | 1/6 | 6.1 | 39.1 | 8.5 | 10.0 | 15 | 104 |
| LS-08 | Rotary | 208-230/60/1 | 0.5 | 1/6 | 3.0 | 15.0 | 4.5 | 5.3 | 15 | 197 |
| LS-08 | Rotary | 265/60/1 | 0.4 | 1/6 | 2.7 | 11.0 | 4.0 | 4.7 | 15 | 240 |
| LS-10 | Rotary | 115/60/1 | 1.4 | 1/6 | 8.0 | 50.0 | 10.4 | 12.4 | 15 | 104 |
| LS-10 | Rotary | 208-230/60/1 | 0.5 | 1/6 | 4.4 | 20.0 | 5.9 | 7.0 | 15 | 197 |
| LS-10 | Rotary | 265/60/1 | 0.4 | 1/6 | 3.4 | 21.0 | 4.7 | 5.6 | 15 | 240 |
| LS-12 | Rotary | 115/60/1 | 1.4 | 1/6 | 9.5 | 50.0 | 11.9 | 14.3 | 20 | 104 |
| LS-12 | Rotary | 208-230/60/1 | 0.5 | 1/6 | 4.7 | 25.0 | 6.2 | 7.4 | 15 | 197 |
| LS-12 | Rotary | 265/60/1 | 0.4 | 1/6 | 4.2 | 22.0 | 5.5 | 6.6 | 15 | 240 |
| LS-15 | Rotary | 208-230/60/1 | 0.5 | 1/6 | 5.6 | 29.0 | 7.1 | 8.5 | 15 | 197 |
| LS-15 | Rotary | 265/60/1 | 0.4 | 1/6 | 5.0 | 28.0 | 6.3 | 7.6 | 15 | 240 |
| LS-18 | Rotary | 208-230/60/1 | 0.5 | 1/6 | 7.4 | 33.0 | 8.9 | 10.8 | 15 | 197 |
| LS-18 | Rotary | 265/60/1 | 0.4 | 1/6 | 6.0 | 28.0 | 7.3 | 8.8 | 15 | 240 |

Electrical Heat Ratings

| Heater No. | Volt | Watts | Btuh | HTR Amps | Total HTR Amps | Min Ckt Amps | Max Fuse |
|------------|------|-------|------|----------|----------------|--------------|----------|
| 1 | 208 | 1000 | 3400 | 4.8 | 6.3 | 7.5 | 15 |
| | 230 | 1220 | 4160 | 5.3 | 6.8 | 8.1 | 15 |
| | 277 | 1000 | 3400 | 3.6 | 5.1 | 5.8 | 15 |
| 2 | 208 | 2000 | 6820 | 9.6 | 11.1 | 13.5 | 20 |
| | 230 | 1450 | 8350 | 10.7 | 12.2 | 14.9 | 20 |
| | 277 | 2000 | 6820 | 7.3 | 8.6 | 10.4 | 20 |

Water Connection Space

| Model | 48" | 52" |
|-------|-------|-------|
| LS-08 | 9.25" | N/A |
| LS-10 | 9.25" | N/A |
| LS-12 | 9.25" | N/A |
| LS-15 | N/A | 7.75" |
| LS-18 | N/A | 7.75" |

LS SERIES APPLICATION & BENEFITS

Damage Protection

The standard high-pressure switch and evaporator coil freeze protection, in conjunction with the electronic control board, stops unit operation before damage occurs, should airflow become reduced or obstructed due to dirty filters, or motor failure. A freeze stat protects the water coil from freeze damage due to low water temperature or flow problems. The water coil is designed for low water-side pressure drop, eliminating potential pump sizing and water flow problems. High efficiency compressors provide demonstrated reliability and low sound levels and reduce energy costs.

Fast and Easy Replacement

Because the LS dimensions and construction details were established with retrofit projects in mind, replacement work is fast and easy. With the compact footprint and a cabinet height short enough to fit under window sills, the need for expensive room renovation, redecorating, or piping & wiring changes is eliminated. The LS Series is the solution that gets your property back in service quickly and at the lowest total cost.

Field Reversible Cabinet and Chassis

The LS console system will allow you to field reverse the chassis and cabinet to

accommodate your facilities water supply configuration. One system for both left and right hand water supply.

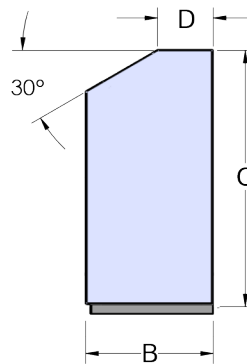
Options and Accessories

- Flow control valve
- Electric or hydronic heat
- Control options
- Valves and unions
- Line cords
- Boilerless
- Low temp option
- Hose kits
- Customer-specified custom features

Dimensional Data

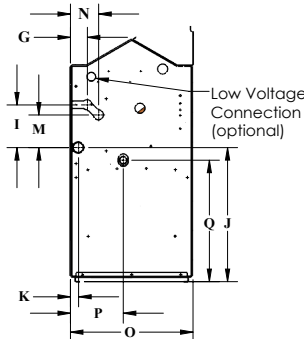
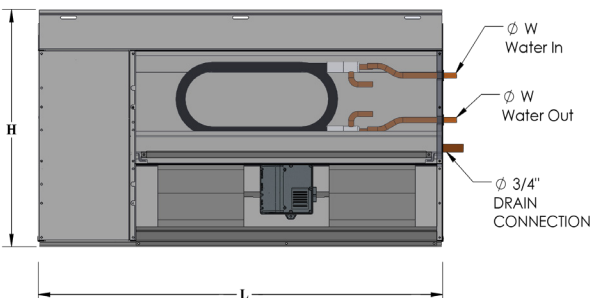
Cabinet Dimensions

| Model | A | B | C | D |
|-------|--------|-------|----|------|
| | Inches | | | |
| LS-08 | 48 | 11 | 22 | 4.38 |
| LS-10 | 48 | 11 | 22 | 4.38 |
| LS-12 | 48 | 11 | 22 | 4.38 |
| LS-15 | 52 | 12.81 | 22 | 5.35 |
| LS-18 | 52 | 12.81 | 22 | 5.35 |



Chassis Dimensions

| Model | G | H | I | J | K | L | M | N | O | P | Q | W |
|-------|--------|-------|-------|-------|-----|-------|------|-----|--------|-------|-------|------|
| | Inches | | | | | | | | | | | |
| LS-08 | 1.5 | 21.95 | 4.125 | 11.75 | .75 | 37.75 | N/A | N/A | 10.125 | 4.188 | 9.14 | .5 |
| LS-10 | 1.5 | 21.95 | 4.125 | 11.75 | .75 | 37.75 | N/A | N/A | 10.125 | 4.188 | 9.14 | .5 |
| LS-12 | 1.5 | 21.95 | 4.125 | 11.75 | .75 | 37.75 | N/A | N/A | 10.125 | 4.188 | 9.14 | .5 |
| LS-15 | 1.625 | 22.17 | 4.25 | 10.12 | .7 | 42.75 | 3.25 | 2.7 | 12.04 | 5.16 | 10.41 | .625 |
| LS-18 | 1.625 | 22.17 | 4.25 | 10.12 | .7 | 42.75 | 3.25 | 2.7 | 12.04 | 5.16 | 10.41 | .625 |



Optional Hot Water Performance Data

| Size | EWT (°F) | Delta T (°F) | Total Capacity | GPM | Pressure Drop (Ft) |
|------|----------|--------------|----------------|-----|--------------------|
| 08 | 180 | 10 | 9.6 | 2.0 | 0.5 |
| | | 12 | 9.2 | 1.6 | 0.3 |
| | | 14 | 8.9 | 1.3 | 0.2 |
| | | 16 | 8.6 | 1.1 | 0.2 |
| 10 | 180 | 10 | 12.9 | 2.6 | 1.0 |
| | | 12 | 12.6 | 2.2 | 0.7 |
| | | 14 | 12.2 | 1.8 | 0.5 |
| | | 16 | 11.8 | 1.5 | 0.4 |
| 12 | 180 | 10 | 13.0 | 2.7 | 1.0 |
| | | 12 | 12.7 | 2.1 | 0.7 |
| | | 14 | 12.3 | 1.5 | 0.5 |
| | | 16 | 11.9 | 1.5 | 0.4 |
| 15 | 180 | 10 | 16.2 | 3.3 | 1.7 |
| | | 12 | 15.8 | 2.7 | 1.2 |
| | | 14 | 15.5 | 2.3 | 0.9 |
| | | 16 | 15.0 | 1.9 | 0.6 |
| 18 | 180 | 10 | 17.5 | 3.6 | 2.0 |
| | | 12 | 17.0 | 2.9 | 1.3 |
| | | 14 | 16.6 | 2.5 | 1.0 |
| | | 16 | 16.2 | 2.1 | 0.7 |

| Size | EWT (°F) | Delta T (°F) | Total Capacity | GPM | Pressure Drop (Ft) |
|------|----------|--------------|----------------|-----|--------------------|
| 08 | 140 | 10 | 5.2 | 1.0 | 0.2 |
| | | 12 | 4.9 | 0.8 | 0.1 |
| | | 14 | 4.7 | 0.7 | 0.1 |
| | | 16 | 4.5 | 0.6 | 0.1 |
| 10 | 140 | 10 | 7.3 | 1.5 | 0.4 |
| | | 12 | 7.0 | 1.2 | 0.3 |
| | | 14 | 6.6 | 1.0 | 0.2 |
| | | 16 | 6.2 | 0.8 | 0.1 |
| 12 | 140 | 10 | 7.4 | 1.5 | 0.4 |
| | | 12 | 7.0 | 1.2 | 0.3 |
| | | 14 | 6.7 | 1.0 | 0.2 |
| | | 16 | 6.3 | 0.8 | 0.1 |
| 15 | 140 | 10 | 9.4 | 1.9 | 0.7 |
| | | 12 | 8.9 | 1.5 | 0.4 |
| | | 14 | 8.6 | 1.3 | 0.3 |
| | | 16 | 8.0 | 1.0 | 0.2 |
| 18 | 140 | 10 | 10.1 | 2.1 | 0.8 |
| | | 12 | 9.6 | 1.6 | 0.5 |
| | | 14 | 9.1 | 1.3 | 0.3 |
| | | 16 | 8.7 | 1.1 | 0.3 |

INNOVATIVE HEATING AND COOLING SOLUTIONS

Cold Point equipment has been specified in hundreds of projects in these and other applications:
Direct Replacement | New Construction | Renovation | Commercial & Residential Solutions

Cold Point values reliability as much as you

Your Cold Point sales representative knows their reputation is on the line with every sale. Therefore, they are as personally invested in your comfort as you are, and take great pride in creating your perfect indoor environment.

Rest comfortably, knowing Cold Point stands behind our products

The Cold Point Corporation backs our products with a standard warranty that includes parts and labor for the entire first year of ownership. For all coverage options and complete coverage terms, check with your local Cold Point representative for full details.

Industry-leading expertise

Cold Point Corporation is an industry-leading supplier of aftermarket comfort solutions for commercial and residential applications. We have over 20 years of experience developing OEM-style replacement products to keep you comfortable. Whether it is a water source heat pump, air source PTAC system, or a fan coil application, Cold Point has the knowledge and products to restore your system to its original operating condition.

Reliable comfort products backed by the industry experts in OEM-style replacement units

To learn more about how the Cold Point Corporation can help you save time and money on your next project, contact your local Cold Point representative or call **315-339-2331** to speak with one of our specialists, or e-mail your request to info@coldpointcorp.com.

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