

## Extended Thin Profile Unit Cooler

Technical Guide

*LTA & LTL: Air & Electric Defrost*



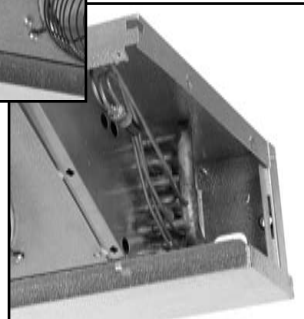
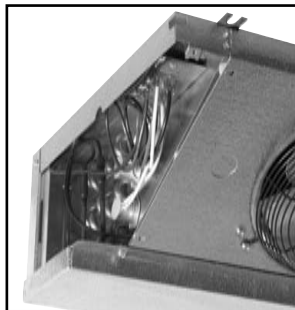
## Standard Features:

The Extended Thin Profile unit cooler is the most compact designed unit for reach in display cases. The unit's low height design allows the unit to 'hide' at the top of the cooler, which gives the case a cleaner look and also allows for more room for shelves and product. These units have front access end panels for easy access to the refrigerant and electrical compartments, along with modular front access panels that make it easy to access the motors. Internally enhanced tube design produces better unit performance.

**Better performance, easy installation, servicing and the quality of Larkin makes this unit the perfect fit for your display case needs.**

### Cabinet:

- One of the most compact cabinet designs in the market, providing flexibility to fit the evaporator where space is limited and allows more room for shelving
- Low height design hides the unit away, giving a cleaner look to the display
- Compact depth accommodates for narrow displays
- End compartments with front access panels allow easy access to the refrigerant and electrical compartments
- Modular front access panels make it easy to access motors
- All access panels can be removed independently of the drain pan
- Plastic vibration isolators for fan panels and drain pan to reduce noise and vibration
- Liquid Line solenoid wire harness comes standard for quick installation



### Unit:

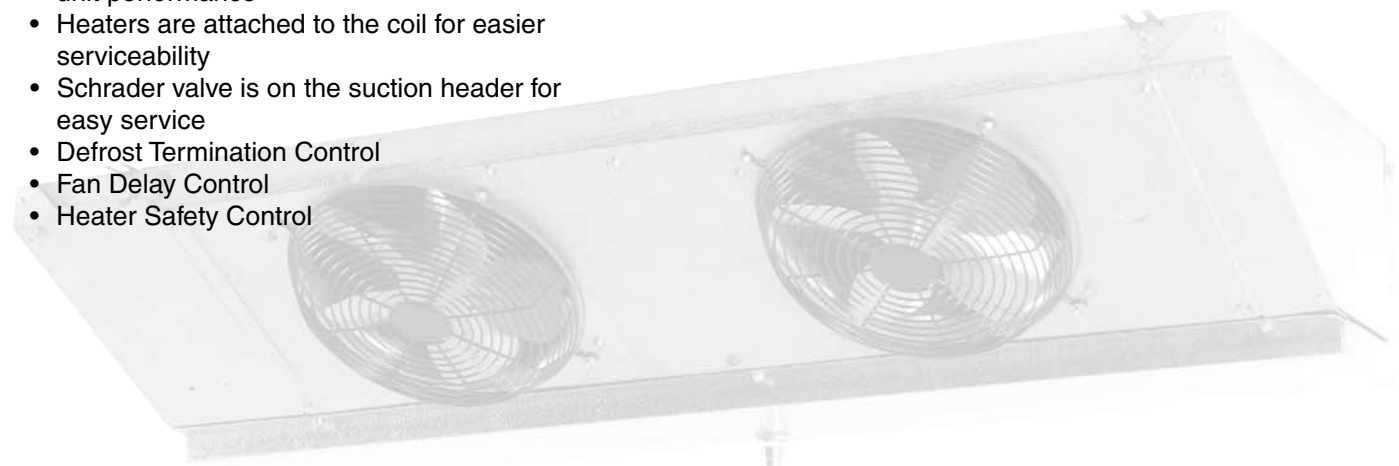
- Product line range:
  - Coolers: from 5,300 to 17,200 BTUH
  - Freezers: from 4,600 to 13,300 BTUH
- Textured aluminum cabinet
- Blow-through coil - air is discharged through the coil
- Available in 115V/208-230V for air defrost and 208-230V for electric defrost
- Standard R-404A and R-22 refrigerant
- UL/NSF approved

### Options:

- Reverse air flow
- Beacon II™ compatible with a front access Beacon II™ compartment and front LED readout
- Smooth, white painted cabinet
- TXV, solenoid valve and room thermostat factory mounted
- Coated coil for corrosion protection

### Coil and Heaters:

- Internally enhanced tube design produces better unit performance
- Heaters are attached to the coil for easier serviceability
- Schrader valve is on the suction header for easy service
- Defrost Termination Control
- Fan Delay Control
- Heater Safety Control



## Performance Data - Air Defrost LTA

| Model Size | Capacity<br>BTUH<br>10°F TD/ 6°C TD<br>+25°F SST/-4°C<br>SST |     | Fan Data<br>CFM M³H No. of Fans HP Each |       |   |      | Shaded Pole Motor Data<br>(Total AMPS / Watts) |       |              |       |
|------------|--|-----|---|-------|---|------|--|-------|--------------|-------|
|            |  |     |   |       |   |      | 115/1/60                                       |       | 208-230/1/60 |       |
|            |  |     |   |       |   |      | AMPS   | Watts | AMPS         | Watts |
| LTA 053    | 5,300  | 1.6 | 850                                     | 1,450 | 2 | 1/20 | 3.6  | 220   | 2.0          | 200   |
| LTA 079    | 7,900  | 2.3 | 1,350                                   | 2,300 | 3 | 1/20 | 5.4  | 330   | 3.0          | 300   |
| LTA 102    | 10,200   | 3.0 | 1,800                                   | 3,100 | 4 | 1/20 | 7.2  | 440   | 4.0          | 400   |
| LTA 134    | 13,400   | 3.9 | 2,250                                   | 3,850 | 5 | 1/20 | 9  | 550   | 5.0          | 500   |
| LTA 172    | 17,200   | 5.0 | 2,550                                   | 4,350 | 6 | 1/20 | 10.8   | 660   | 6.0          | 600   |

## Performance Data - Electric Defrost LTL

| Model Size | Capacity<br>BTUH<br>10°F TD/ 6°C TD<br>-10°F SST/-23°C<br>SST |     | Fan Data<br>CFM M³H No. of Fans HP Each |       |   |      | Shaded Pole Motor Data<br>(Total AMPS / Watts) |       | Defrost Heaters |       |
|------------|---|-----|---|-------|---|------|--|-------|-----------------|-------|
|            |   |     |   |       |   |      | 208-230/1/60                                   |       | 208-230/1/60    |       |
|            |   |     |   |       |   |      | AMPS   | Watts | AMPS            | Watts |
| LTL 046BA  | 4,600   | 1.3 | 850                                     | 1,450 | 2 | 1/20 | 2.0  | 200   | 4.8             | 1100  |
| LTL 068BA  | 6,800   | 2.0 | 1,300                                   | 2,200 | 3 | 1/20 | 3.0  | 300   | 7.2             | 1650  |
| LTL 093BA  | 9,300   | 2.7 | 1,700                                   | 2,900 | 4 | 1/20 | 4.0  | 400   | 9.6             | 2200  |
| LTL 115BA  | 11,500  | 3.4 | 2,100                                   | 3,600 | 5 | 1/20 | 5.0  | 500   | 12.0            | 2750  |
| LTL 133BA  | 13,300  | 3.9 | 2,550                                   | 4,350 | 6 | 1/20 | 6.0  | 600   | 14.4            | 3300  |

## Capacity Correction Factor Electric Defrost Units

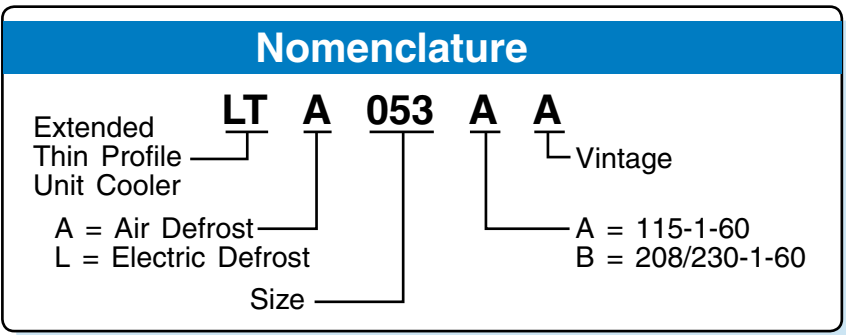
|                                  |      |      |      |
|----------------------------------|------|------|------|
| Saturated Suction Temperature °F | +20  | -10  | -20  |
| Saturated Suction Temperature °C | -7   | -23  | -29  |
| Multiply Capacity By             | 1.11 | 1.00 | 0.96 |

## Connections- Air Defrost

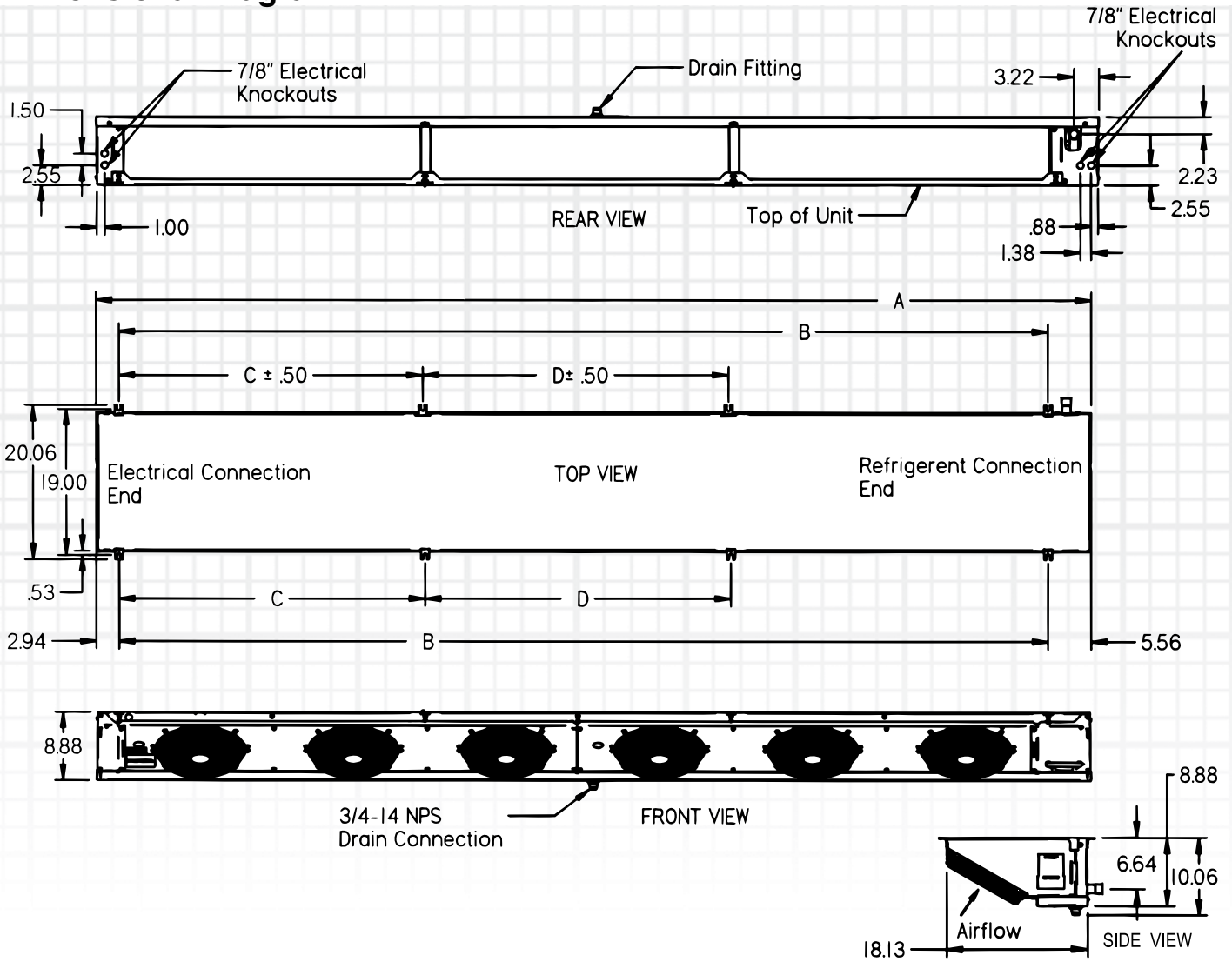
| Model Size | Number of Fans | Connections (Inches) |          |                    |         | Net Weight (Lbs.) |
|------------|----------------|----------------------|----------|--------------------|---------|-------------------|
|            |                | Coil Inlet           | Suction  | External Equalizer | Drain   |                   |
| LTA 053    | 2              | 1/2 OD               | 5/8 ID   | 1/4                | 3/4 MPT | 48                |
| LTA 079    | 3              | 1/2 OD               | 5/8 ID   | 1/4                | 3/4 MPT | 69                |
| LTA 102    | 4              | 1/2 OD               | 7/8 ID   | 1/4                | 3/4 MPT | 85                |
| LTA 134    | 5              | 1/2 OD               | 7/8 ID   | 1/4                | 3/4 MPT | 108               |
| LTA 172    | 6              | 1/2 OD               | 1 1/8 ID | 1/4                | 3/4 MPT | 124               |

## Connections- Electric Defrost

| Model Size | Number of Fans | Connections (Inches) |          |                    |         | Net Weight (Lbs.) |
|------------|----------------|----------------------|----------|--------------------|---------|-------------------|
|            |                | Coil Inlet           | Suction  | External Equalizer | Drain   |                   |
| LTL 046    | 2              | 1/2 OD               | 5/8 ID   | 1/4                | 3/4 MPT | 48                |
| LTL 068    | 3              | 1/2 OD               | 5/8 ID   | 1/4                | 3/4 MPT | 69                |
| LTL 093    | 4              | 1/2 OD               | 7/8 ID   | 1/4                | 3/4 MPT | 85                |
| LTL 115    | 5              | 1/2 OD               | 7/8 ID   | 1/4                | 3/4 MPT | 108               |
| LTL 133    | 6              | 1/2 OD               | 1 1/8 ID | 1/4                | 3/4 MPT | 124               |



# Dimensional Diagram



## Dimensional Data

| Air Defrost LTA | Electric Defrost LTL | Number of Fans | Dimensions (Inches / mm) |      |         |      |        |      |        |      |
|-----------------|----------------------|----------------|--------------------------|------|---------|------|--------|------|--------|------|
|                 |                      |                | A                        |      | B       |      | C      |      | D      |      |
|                 |                      |                | Inches                   | mm   | Inches  | mm   | Inches | mm   | Inches | mm   |
| 053             | 046                  | 2              | 49 3/8                   | 1254 | 40 7/8  | 1038 | ---    | ---  | ---    | ---  |
| 079             | 068                  | 3              | 69 1/8                   | 1756 | 60 5/8  | 1540 | ---    | ---  | ---    | ---  |
| 102             | 093                  | 4              | 88-7/8                   | 2257 | 80 3/8  | 2042 | 40 7/8 | 1038 | ---    | ---  |
| 134             | 115                  | 5              | 108-5/8                  | 2759 | 100 1/8 | 2543 | 40 7/8 | 1038 | ---    | ---  |
| 172             | 133                  | 6              | 128-3/8                  | 3261 | 119 7/8 | 3045 | 40 7/8 | 1038 | 39 1/2 | 1003 |

For more information on Larkin products, contact your Larkin Sales Representative or visit us at [www.larkinproducts.com](http://www.larkinproducts.com)

Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.



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