Precision Cooling
for Business-Critical Continuity

# *Liebert Quiet-Line Air Cooled Condensers*

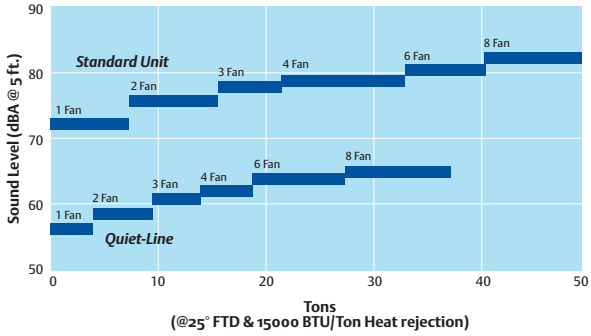
*Quiet, Reliable Heat Rejection*


Liebert®

EMERSON™
Network Power

# *Liebert Quiet-Line...*
# *A Sound, Responsible Investment*

## *Sound vs. Footprint*




*The actual sound level that will occur in a given application is dependent on many environmental factors. These charts are not intended to predict actual sound levels of specific applications, but to provide relative comparisons.*

Quiet-Line air cooled condensers from Liebert Corporation operate with the lowest noise level of any heat rejection equipment available. So quiet, in fact, that they meet all current and projected standards for noise emissions in crowded urban environments.

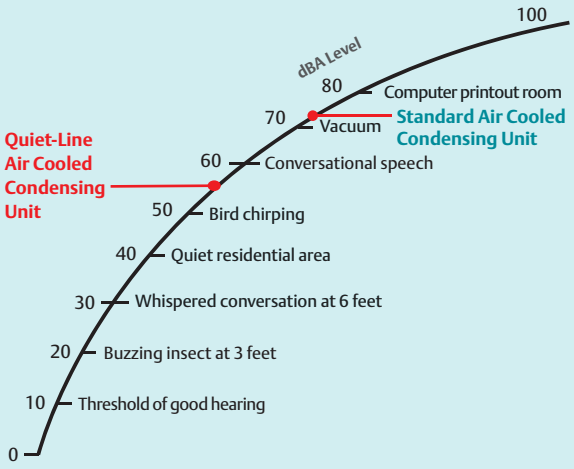
Quiet-Line condensers can help your facility meet the strictest municipal noise codes and do so at less cost than traditional condensers with acoustical shielding. They're quieter for building occupants, for maintenance personnel, and for people in adjacent offices or residential units.

Just as important, Quiet-Line condensers are built for reliability. Fully wired and factory-tested, Quiet-Line condensers are designed and built to deliver dependable performance from start-up through years of exposure to the worst weather conditions.

**Just how quiet is the Quiet-Line condenser?**

An eight-fan Quiet-Line at 65.6 dBA generates less than 25% of the noise made by our standard single-fan condenser at 72.6 dBA.

## *Common Sound Levels*




**What's a dBA?**

A dBA (decibel-audio) is a measure of sound volume. But, like the Richter scale for earthquakes, it's not a linear function. Doubling the dBA level does not mean that a noise becomes twice as loud; the increase will be much more. Likewise, halving the dBA level cuts volume by a lot more than 50%. In fact, a 3 dBA increase means that the volume has doubled, and a 3dBA decrease means that the volume has been cut in half. So, for example, a 60 dBA noise is more than three times as loud as a 50 dBA noise.

The intensity of sound is also affected by the distance; the further away you are, the quieter the noise. Doubling the distance between yourself and the source of a noise effectively cuts the intensity of the sound by 6 dBA. That means the noise will only sound about 25% as loud. Halving the distance between you and the noise is the equivalent of a 6 dBA increase, and the noise will seem to be 200% louder.

# *Liebert Quiet-Line Condensers Give You All These Standard Features*


***Direct-drive motors. Three-phase motors are connected directly to the fans. No belts to loosen or break.***

***Low speed fans. At a sedate 515 RPM, these fans move air slowly through the cooling coils, generating minimal noise.***

***Disconnect switch. An emergency disconnect switch, prominently mounted, is required by most codes. No field installation required.***

***High efficiency heat transfer. Cooling coils are copper tubing with aluminum radiation fins, allow heat to be carried out quickly by the air stream.***

***Lee-Temp winter control system. Heated refrigerant receiver permits start-up and positive head pressure control at ambient temperatures as low as -30°F (-34.4°C).***

***All aluminum construction. Frame and skin resist corrosion, require no maintenance.***

***Refrigerant and electrical connections. Minimal field assembly is required for Quiet-Line condensers.***

## *The Liebert Advantage: Products and Service*

**Specification assistance** — Liebert sales associates can help select the right Quiet-Line condensers to meet your requirements.

**Easy installation** — Position, secure, and make the electrical and refrigerant connections. Minimal field assembly required.

**System flexibility** — With eight models ranging from five to 45 tons of capacity, you can specify and locate Quiet-Line condensers for maximum efficiency.

**Dependable performance** — Designed for years of foul weather operation, Quiet-Line condensers are wired and tested at the factory. There are no extra parts to obtain, and minimal field assembly is needed.

**Liebert Customer Service and Support** — Your Liebert sales associate is your source for factory trained contractors for installation, maintenance, and emergency service.

## *Technical Data - Liebert Quiet-Line Air Cooled Condensers*

### 60 Hz Data

| Model Number | No. | THR | | Air Flow | | dBA | Dimensions In. (mm) | | | | Net Wt. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fans | BTUh/°F | kW/°C | CFM | CMH | (@ 5 ft) | A | | B | | (lbs) | (kg) |
| DCSL / DCSC / DCDL063 | 1 | 2533 | 1.3 | 2880 | 4893 | 56.5 | 511/2 | (1308) | 44 | (1118) | 315 | 143 |
| DCSC / DCST / DCDL119 | 2 | 4769 | 2.5 | 6155 | 10457 | 59.5 | 911/2 | (2324) | 84 | (2134) | 425 | 193 |
| DCSL / DCSC / DCDL127 | 2 | 5067 | 2.7 | 5755 | 9778 | 59.5 | 911/2 | (2324) | 84 | (2134) | 495 | 225 |
| DCSL / DCSC / DCDL143 | 2 | 5716 | 3.0 | 5735 | 9744 | 59.5 | 911/2 | (2324) | 84 | (2134) | 515 | 234 |
| DCST / DCDL214 | 3 | 8574 | 4.5 | 8600 | 14611 | 61.3 | 1311/2 | (3340) | 124 | (3150) | 840 | 381 |
| DCST / DCDL286 | 4 | 11433 | 6.0 | 11465 | 19479 | 62.5 | 1711/2 | (4356) | 164 | (4166) | 1105 | 501 |
| DCDT409 | 6 | 16357 | 8.6 | 18000 | 30582 | 64.3 | 1311/2 | (3340) | 124 | (3150) | 1380 | 626 |
| DCDT572 | 8 | 22865 | 12.1 | 22933 | 38963 | 65.5 | 1711/2 | (4356) | 164 | (4166) | 2430 | 1102 |

### 50 Hz Data

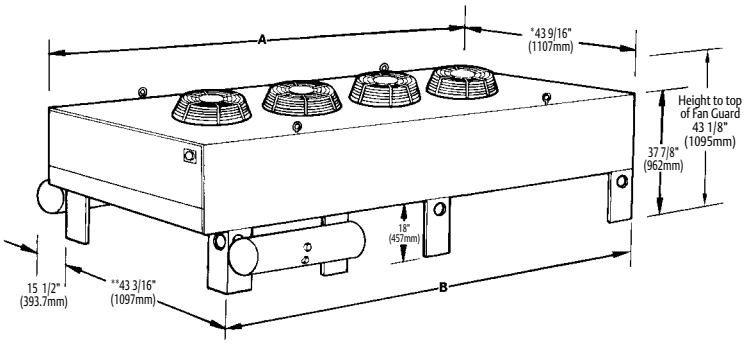
| Model Number | No. | THR | | Air Flow | | dBA | Dimensions In. (mm) | | | | Net Wt. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fans | BTUh/°F | kW/°C | CFM | CMH | (@ 5 ft) | A | | B | | (lbs) | (kg) |
| DCSL / DCSC / DCDL063 | 1 | 2187 | 1.2 | 2400 | 4078 | 56.5 | 511/2 | (1308) | 44 | (1118) | 315 | 143 |
| DCSC / DCST / DCDL119 | 2 | 4278 | 2.3 | 5130 | 8716 | 59.5 | 911/2 | (2324) | 84 | (2134) | 425 | 193 |
| DCSL / DCSC / DCDL127 | 2 | 4375 | 2.3 | 4795 | 8147 | 59.5 | 911/2 | (2324) | 84 | (2134) | 495 | 225 |
| DCSL / DCSC / DCDL143 | 2 | 4790 | 2.5 | 4780 | 8121 | 59.5 | 911/2 | (2324) | 84 | (2134) | 515 | 234 |
| DCST / DCDL214 | 3 | 7185 | 3.8 | 7165 | 12173 | 61.3 | 1311/2 | (3340) | 124 | (3150) | 840 | 381 |
| DCST / DCDL286 | 4 | 9580 | 5.1 | 9555 | 16234 | 62.5 | 1711/2 | (4356) | 164 | (4166) | 1105 | 501 |
| DCDT409 | 6 | 14152 | 7.5 | 15000 | 25485 | 64.3 | 1311/2 | (3340) | 124 | (3150) | 1380 | 626 |
| DCDT572 | 8 | 19161 | 10.1 | 19110 | 32468 | 65.5 | 1711/2 | (4356) | 164 | (4166) | 2430 | 1102 |

## *Coolant Distribution Unit: Site Planning Dimensions*

*A clearance of 36 in. (914.4mm) is recommended on all sides for proper operation and component access.*

**87 1/8" (2213mm) for 6 and 8 fan units.*
***86 3/4" (2203mm) for 6 and 8 fan units.*

*Note:*
*4 legs furnished for 1-fan model.*
*6 legs furnished for 2,3, and 6-fan models.*
*8 legs furnished for 4 and 8-fan models.*





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