Liebert® Variable Speed Upgrade Kits
Save Money Through Energy Efficient Operation

Get more efficient operation from your existing Chilled Water CRAC systems and quick payback through lower electricity costs and utility rebates.

The Variable Speed Drive (VSD/VFD) Upgrade is easily installed on your Liebert Deluxe System/3 Chilled Water systems, providing immediate results with lower electrical bills.

Typically, CRAC fans run at a constant speed and deliver a constant volume of air flow. Adding a Variable Speed Drive to the fan motor allows fan speed and power draw to be reduced as load decreases. A 20 percent reduction in fan speed provides almost 50 percent savings in fan power consumption.

VSD Features
Lowest Total Cost of Ownership
■ Average payback on electricity costs is less than two years
■ Utility rebates available in some regions, providing even faster payback

Flexibility
■ Easy field installation by a factory trained technician

Higher Availability
■ Variable fan speed increases the life of the fan and motor

The VSD/VFD Motor Upgrade Kit is Ideally Suited For Chilled Water Models of Liebert Deluxe System/3:
■ In IT operations looking for fast, easy methods of cutting costs long term
■ In IT operations looking for fast ROI on cost saving initiatives

...a 20% reduction in fan speed provides almost 50% savings in power consumption

Save from $1,700 to $5,100/year per unit
Estimate your savings

The example below shows the cost to operate a floormount chilled water cooling unit at $0.10/kWh. Average energy savings offer full payback on VSD/VFD upgrades in two years or less.

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>Annual Energy Cost to Run Fan ($0.10/kWh)</th>
<th>Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 HP</td>
<td>$1,700 Year Savings</td>
<td></td>
</tr>
<tr>
<td>7.5 HP</td>
<td>$2,500 Year Savings</td>
<td></td>
</tr>
<tr>
<td>10 HP</td>
<td>$3,400 Year Savings</td>
<td></td>
</tr>
<tr>
<td>15 HP</td>
<td>$5,100 Year Savings</td>
<td></td>
</tr>
</tbody>
</table>

Your Emerson Network Power/Liebert representative or local electric company can give you information about utility rebates for deploying energy efficiency initiatives. Rebates can lower the payback period to less than a year in many applications.

Real world payback

A customer in Texas has completed a VSD/VFD upgrade, and utility savings based on site kW measurement readings are:

- $3,400 energy cost savings per unit per year (34,427 kWh/unit/year)
- $1,100 first year utility incentive per unit
- $3,400 + $1,100 = $4,500 first year savings per unit.

Emerson Network Power.

The global leader in enabling Business-Critical Continuity™.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com