

## Liebert® Variable Speed Upgrade Kits

Save Money Through Energy Efficient Operation

Save from  
\$1,700 to  
\$5,100/year  
per unit

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.



Liebert Deluxe System/3 Chilled Water systems are easily field retrofitted with the VSD/VFD motor kit to maximize energy efficiency

### 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

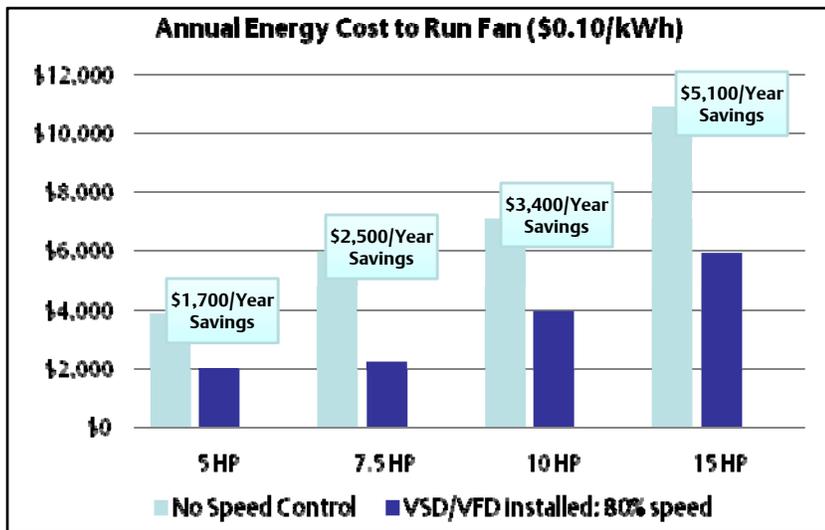
#### The VSD/VFD Motor Upgrade Kit is Ideally Suited For Chilled Water Models of Liebert Deluxe System/3:

- In IT operations looking for fast, easy methods of cutting costs long term
- In IT operations looking for fast ROI on cost saving initiatives

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## 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.



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.**



A factory-trained service professional will assess your existing Liebert Deluxe System/3 for VSD/VFD compatibility.



### Liebert Corporation

1050 Dearborn Drive  
P.O. Box 29186  
Columbus, Ohio 43229  
800 877 9222 Phone (U.S. & Canada Only)  
614 888 0246 Phone (Outside U.S.)  
614 841 6022 FAX

### liebert.com

### 24 x 7 Tech Support

800 222 5877 Phone  
614 841 6755 (outside U.S.)

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