



# Ice cold facts how to reduce the cost for High Power Drive installations

Visit Danfoss Drives USA and learn about how the Danfoss VLT® High Power Drives can reduce your cost of ownership dramatically

98%

Efficiency

The patented back-channel cooling system reduces the heat loss to a minimum

50%

cost saving on energy

A 20% reduction in speed can typically cut energy costs by up to 50% for pump and fan applications

# Invitation for a visit to Danfoss Drives, Rockford USA

With energy prices rising at an unprecedented rate and economical outlooks being not very promising it is high time to really start saving energy and reduce costs.

## Save energy, reduce CO<sub>2</sub> emission

The Danfoss High Power Drives are part of the new generation VLT® frequency drives based on a completely new control and power platform.

- **VLT® AutomationDrive** – for industrial applications
- **VLT® HVAC Drive** – for climate control applications
- **VLT® AQUA Drive** – for applications in water and wastewater

These frequency drives in the power range of 90 kW to 1400 kW are produced by the Danfoss Drives production location in Rockford, USA.

The high reliability and userfriendliness that are so characteristic for the new generation VLT® drives also apply to the new High Power Drives. The small dimensions and weights of the new High Power Drives makes them the smallest drives in their league, easy to install and commission.

However, the biggest asset of the Danfoss High Power Drives is their extremely high efficiency (> 98%). Together with their patented back-channel cooling system – that reduces ventilation requirements to a minimum – this guarantees the best possible energy savings and a dramatic reduction of CO<sub>2</sub> emission.

## Reduce costs

- Most efficient drives available at this moment (efficiency >98%), reducing energy losses to a minimum
- Higher efficiency means less heat dissipation, reducing costs for ventilation
- Electronics not in contact with cooling air – longer lifetime, higher reliability
- Small dimensions and side-by-side mounting – less space
- Extremely reliable – maximum dependability
- Low harmonic drives and active harmonic filters with best efficiency in the market
- Worldwide service organisation available 24 hours a day, 7 days in the week

## Programme

During your visit the experts of Danfoss Drives will inform you about:

- High Power Drives theory and principles
- High Power Drives applications
- Advantages of the new generation VLT® control and power platform
- Installation and cooling of the new VLT® High Power Drives
- EMC and Harmonics
- Extensive tour through the production facilities – construction ongoing to double factory size by the end of 2009

For more information about the visit to Rockford please contact your local sales representative. You can also contact Hans de Groot at | [hans.de.groot@danfoss.nl](mailto:hans.de.groot@danfoss.nl) |



## Agenda

### Saturday, October 3

Flight Europe to Chicago  
Arrival Central Chicago Hotel

### Sunday, October 4

Explore Chicago  
Departure to Rockford  
Arrival Rockford Hotel

### Monday, October 5 (Rockford facility)

08:30 Welcome, opening remarks, agenda review and logistics  
8:45 High Power Drives Key Applications  
09:00 High Power Product Overview  
10:45 Coffee Break  
11:00 Supply Chain Logistics and Leadtimes  
11:30 Quality Systems and Product Testing

12:00 Lunch  
13:00 Plant Tour  
14:15 Break  
14:30 Service and Support  
15:15 Product Development  
15:45 Basic Installation, Start-Up and EMC  
16:45 Questions & Answers  
17:00 Transport to hotel  
19:00 Dinner

### Tuesday, October 6 (Rockford facility)

08:30 Welcome Back  
08:45 Harmonics – Application Issues and Low Harmonic Solutions  
09:45 Drive and Motor Application Issues – dV/dt filters, sinewave filters, cable lengths, bearing currents and motor lifetime  
10:45 Coffee break

11:00 Parallel Sessions:  
– Harmonics calculations  
– Energy Savings  
– Commissioning and Hand-on Drive Set-up  
– Individual Meetings  
12:00 Lunch  
13:00 Closing Comments  
13:30 Departure to Chicago O'Hare Airport

The cost to take part in the visit to Danfoss Drives in Rockford III, USA is **1450,- € per person**. This price includes all travel and accomodation expenses.