

3PR

**Complete Real-Time
Cooling System Control**

Achieve optimal cooling system performance with this revolutionary technology – customized for your needs.

For the first time ever, you can now get a complete overview of your entire Ecodry and/or Heavygel central chiller system in real time.

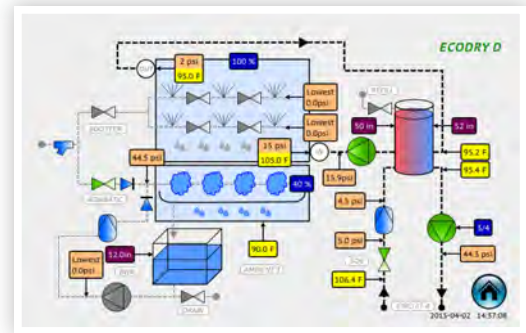


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Full Operating Schematics

Build your system – only installed features will be monitored and visible for each system.



See everything at-a-glance

- Pressures
- Temperatures
- Coolant levels

Color-coded indicators

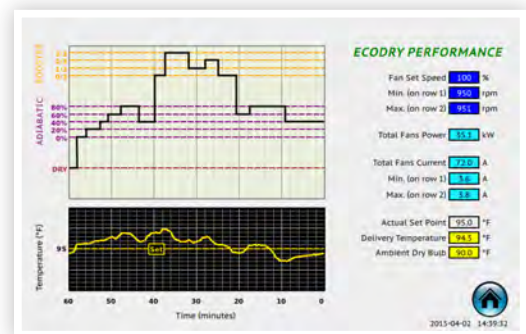
- Colors indicate device status
- Green = open/active
- Gray = closed/inactive

Alarms

- Monitor every system function for faults

Reactive System Performance

Monitor functions and operational control over time.



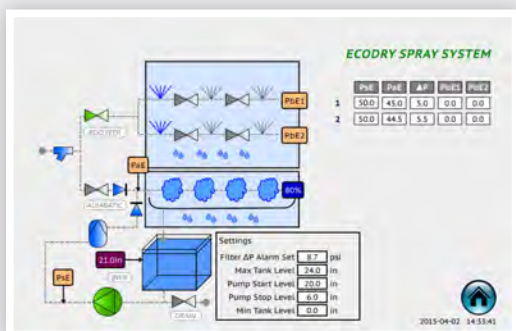
Full operating parameters

- Next generation technology
- Monitor energy consumption for system devices
- Examine oscillating performance over time for functions like Ecodry spray system operation

Monitor performance to set point

- Observe system functions over time versus operating conditions, such as ambient temperatures for Ecodry systems

Spray and Water Recovery Operation



Check the entire Ecodry spray and optional water recovery systems for proper operation.

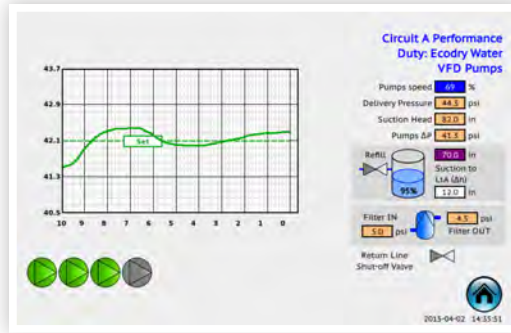
Allows you to check:

- ✓ Spray levels of the adiabatic chamber or the booster system
- ✓ Recovery tank level and filter pressure drop for the available water recovery system
- ✓ Pressure readings for the adiabatic booster spray system to verify valve functions when operating in full spray mode

Alarm and warnings are either default or set by Frigel technicians at time of start-up.

Pump Performance

Get real-time pump performance data for your Ecodyr and/or Heavygel central cooling system.



Multiple pump status – indicates which process pumps are active

Reservoir level – shows precise reservoir level for protection against pump cavitation

Hydraulic system operating characteristics – displays pump system pressures (VFD or on/off) and system ΔP

System filter status – monitors filter pressure drop and indicates when cleaning is required

Return line shutoff valve function – activates (closes) when system shuts down to prevent reservoir overflow

PROVEN Advantages



Trusted by top-performing companies worldwide. As your needs continue to evolve, we continue to improve on our industry-leading central cooling technology to support your success.

Alarms and Service

Take the guesswork out of troubleshooting and speed up service time with quick, accurate information.



- Pinpoint the EXACT location of a fault
- Locate Ecodyr, Heavygel central chiller or hydraulic system faults or even, for example, the precise row and number for a fan fault
- Easy to understand instructions – in multiple languages – to clearly identify alarm conditions and troubleshooting recommendations

Preventative Maintenance

Take pre-emptive measures to avoid “run to failure” mode. 3PR guides you along the way.



Let's Discuss Your Application

Contact the Frigel team today to get the world's most efficient cooling – optimized for your needs.





Communications

The 3PR system control panel gives you the ability to connect to a higher building-wide monitoring system via Modbus RTU over Ethernet TCP/IP network.

This system is also designed to give remote, real-time monitoring capabilities to Frigel's global service technicians at all times.

By overseeing system performance, we will help you prevent downtime and speed up required service.



GLOBAL HEADQUARTERS

Frigel Firenze S.p.A.

Scandicci (FI), Italy
P +39 055 72209 20
E sales.italia@frigel.com
E sales.emea@frigel.com

Frigel Custom Cooling Solutions s.r.l.

Ronco Briantino (MB), Italy
P +39 039 53000 22
E info.ccs@frigel.com

Frigel North America

East Dundee (Chicago), IL USA
P +1 847 540 0160
E sales.fna@frigel.com

Frigel Latino América Ltda

Itacemápolis (Sao Paulo), Brazil
P +55 19 3010 1900
E sales.fla@frigel.com

Frigel Intelligent Energy Solutions S.r.l.

Gallarate (Milan), Italy
P +39 033 17846 49
E energysaving@frigel.com

Frigel Asia Pacific

Bang Pakong (Bangkok), Thailand
P +66 3857 7799
E sales.fap@frigel.com

Frigel Australia Pty Ltd

Braeside Victoria, Australia
P +613 9587 8047
E sales.fau@frigel.com

Frigel GmbH

Rheinfelden, Germany
P +49 7623 748 7245
E sales.gmbh@frigel.com