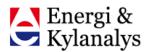
# GREEN BENERAL STREET ST

Green Refrigeration Systems





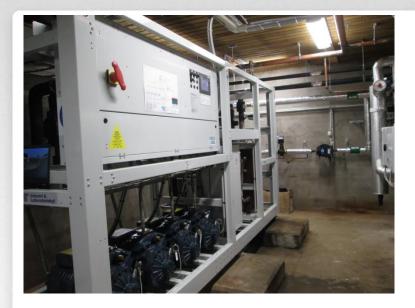


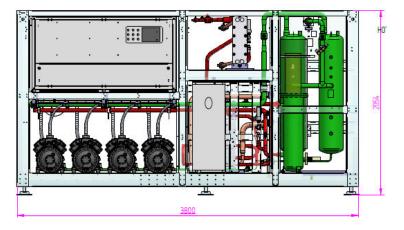












### **COMPRESSOR PACK:**

Model: Mistral 12025H32325H Cooling capacity: 250 kW Evaporating temp: -10C Ambient temp: +30C 1 pc. Dorin CD 3400H + 3 pc. Dorin CD 3500H

Improved oil separation
Larger oil receiver
Further enhanced PLC control







# **CO2 PUMP MODULE**

Volume: 2500 I

Design pressure: 52 Bar Total CO2 charge: 1950 kg

Oil return to compressor pack Energy harvester HEX (Heat pump)

Fully integrated control with pack PLC.







## **GAS COOLER**

Model: Profroid Tenor range 7 fans

Cooling capacity: 367 kW

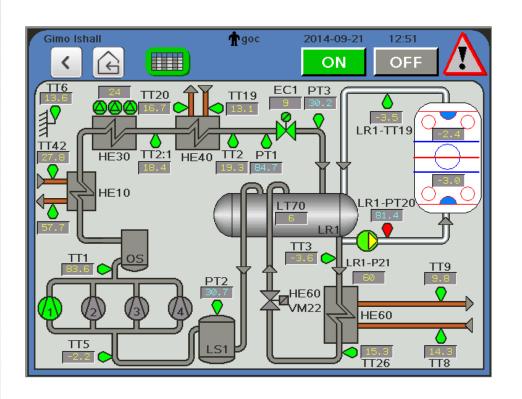
Ambient temp +30C

Sound pressure, 10m: 40 dB(A)

Fan motors connected to the PLC via Modbus for optimal and extended functionality, including "Coil cleanreverse fan" and energy monitoring.







## **CONTROL SYSTEM**

All components in refrigerant circuit monitored and controlled by the PLC on the compressor pack.







## **LESSONS LEARNED**

- •No operational problems since start up in October 2014
- •Very accurate capacity control.
- •High energy savings, 60-70% lower than traditional technology and potential for even higher savings.
- •Potential for optimization of gas cooler sizing.



