

# Detailed Performance Summary For Ericsson 30WG

Project: Rydell Lembke  
Prepared By:

04-14-2014  
02:37

## Unit Information

Tag Name:..... **Ericsson 30WG**  
 Model Number:..... **30WG-040**  
 Condenser Type:..... **Water Cooled**  
 Compressor Type:..... **Scroll**  
 Nameplate Voltage:..... **400-3-50** V-Ph-Hz  
 Quantity:..... **1**  
 Manufacturing Source:..... **Montluel, France**  
 Refrigerant:..... **R410A**  
 Capacity Control Steps:..... **1**  
 Minimum Capacity:..... **100.0** %  
 Shipping Weight:..... **316** kg  
 Operating Weight:..... **341** kg  
 Unit Length:..... **1044** mm  
 Unit Width:..... **600** mm  
 Unit Height:..... **1463** mm

## Performance Information

Cooling Capacity:..... **46.9** kW  
 Heating Capacity:..... **55.1** kW  
 Evaporator Pump Power:..... **0.7** kW  
 Condenser Pump Power:..... **0.3** kW  
 Total Unit Power:..... **8.4** kW  
 Cooling Efficiency (E.E.R.):..... **5.59** kW/kW  
 Heating Efficiency (C.O.P.):..... **6.56** kW/kW

## Acoustics Information

A-Weighted Sound Power Level:..... **75** dbA

## Evaporator Information

Fluid Type:..... **Fresh Water**  
 Fouling Factor:..... **0.0180** (sqm-K)/kW  
 Leaving Temperature:..... **10.0** °C  
 Entering Temperature:..... **17.0** °C  
 Fluid Flow:..... **1.60** L/s  
 Total Pressure Drop:..... **14.6** kPa

## Condenser Information

Fluid Type:..... **Ethylene Glycol**  
 Brine Concentration:..... **35.0** %  
 Fouling Factor:..... **0.0180** (sqm-K)/kW  
 Leaving Temperature:..... **35.0** °C  
 Entering Temperature:..... **20.0** °C  
 Fluid Flow:..... **0.96** L/s  
 Total Pressure Drop:..... **7.4** kPa

## Condenser Integrated Variable Pump Information (Full Load)

System Desired Head:..... **80.0** kPa  
 Static Head at Pump:..... **87.4** kPa  
 Static Head External to Unit:..... **80.0** kPa

## Electrical Information

Unit Voltage:..... **400-3-50** V-Ph-Hz  
 Standby Power:..... **0.03** kW  
 Minimum Voltage:..... **360** Volts  
 Maximum Voltage:..... **440** Volts  
 Power Factor:..... **0.82**

	Electrical Circuit 1	Electrical Circuit 2
Amps (Un)		
Max Unit Current Draw (RLA)	30.4	

# Detailed Performance Summary For Ericsson 30WG

Project: Rydell Lembke  
Prepared By:

04-14-2014  
02:37

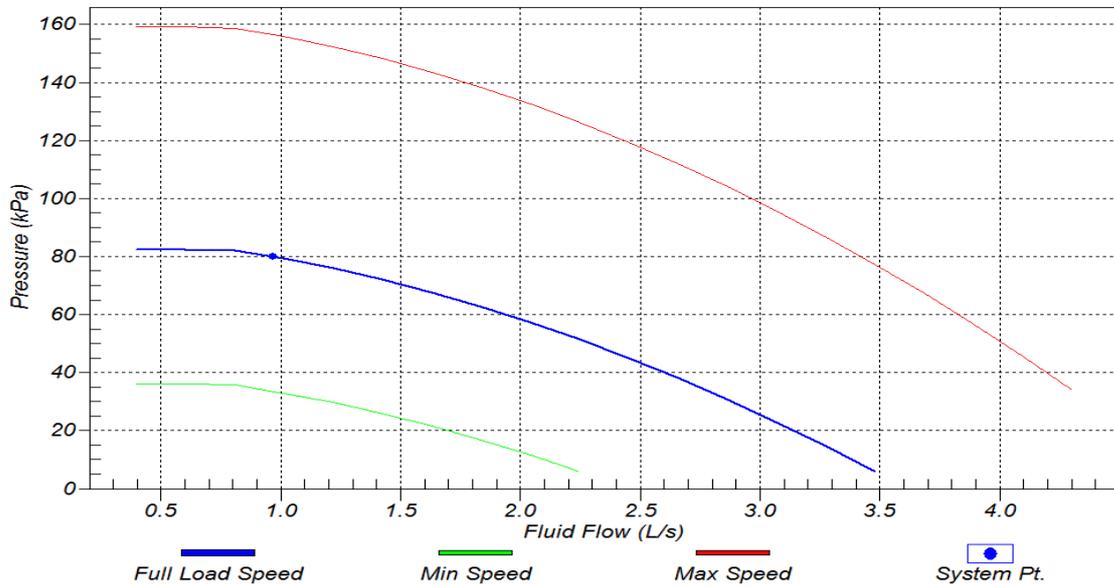
Max Start Up Current (ICF)	163.0
Nominal Unit Current Draw (A)	21.5

## Integrated Pump Information

### Condenser Side

Static Head at Pump:..... **87.4** kPa  
Static Head External to Unit:..... **80.0** kPa

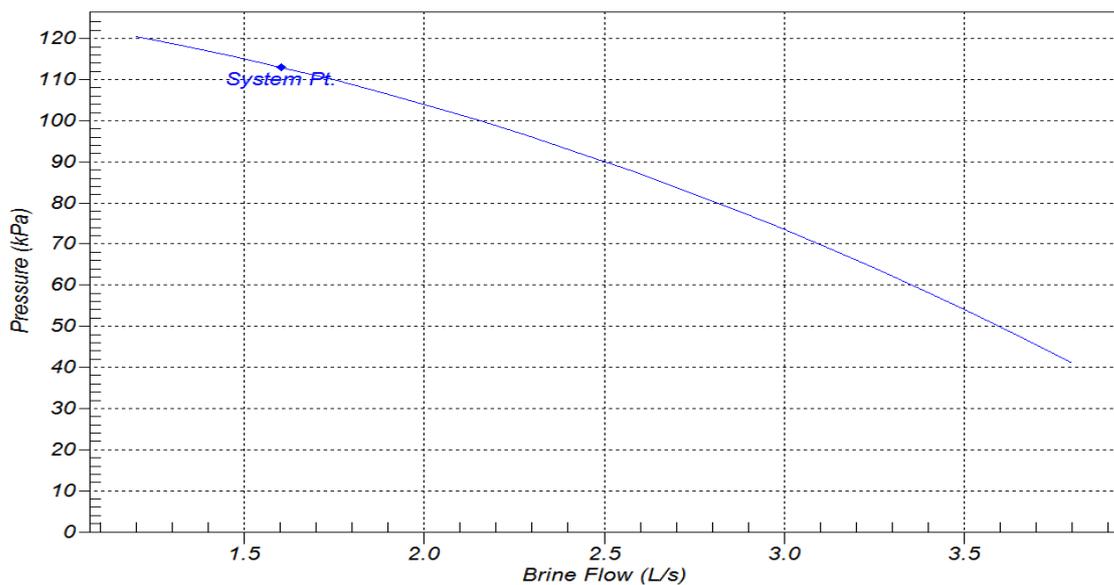
External Pressure Head to Unit



### Evaporator Side

Static Head at Pump:..... **127.6** kPa  
Static Head External to Unit:..... **113.0** kPa

External Pressure Head to Unit



## Accessories and Installed Options

- Opt. 86 Condenser insulation
- Opt. 116F Evap Fixed speed single pump LP
- Opt. 270J Cond Variable speed single pump HP
- Opt. 265 Cond screwed Connections
- Opt. 264 Evap screwed Connections

## Detailed Performance Summary For Ericsson 30WG

Project: Rydell Lembke  
Prepared By:

04-14-2014  
02:37

### Staging

<b>Unit Performance</b>	
Chiller Stage	1
Percent Full Load Cooling Capacity, %	100
Percent of Full Load Power, %	100
Unloading Sequence	A
Cooling Capacity, kW	46.9
Heating Capacity, kW	55.1
Total Unit Power, kW	8.4
Cooling Efficiency, kW/kW	5.59
Heating Efficiency, kW/kW	6.56
<b>Evaporator Data</b>	
Fluid Entering Temperature, °C	17.0
Fluid Leaving Temperature, °C	10.0
Fluid Flow Rate, L/s	1.60
Static Head External to Unit, kPa	113.0
Fouling Factor, (sqm-K)/kW	0.0180
<b>Condenser Data</b>	
Fluid Entering Temperature, °C	20.0
Fluid Leaving Temperature, °C	35.0
Fluid Flow Rate, L/s	0.96
Static Head External to Unit, kPa	80.0
Fouling Factor, (sqm-K)/kW	0.0180

Standard performances are as per EN14511-3 : 2011.

Sound Power Lw according to ISO 9614-1 and EUROVENT standard 8/1.

Unit is outside of the scope of AHRI Water-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P).