

## 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**

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

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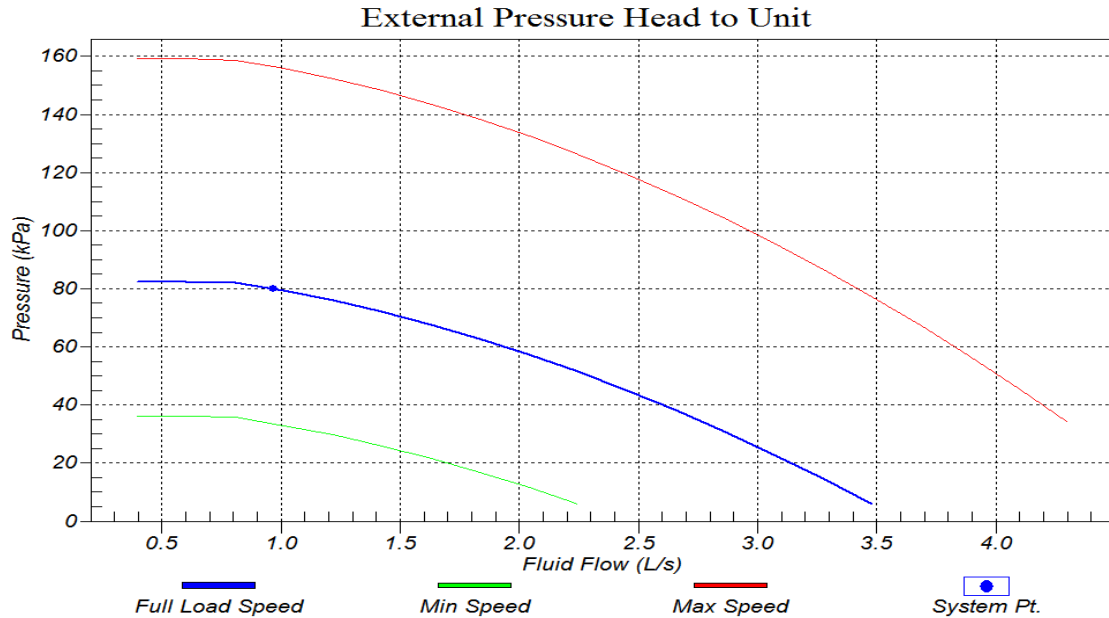
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Max Start Up Current (ICF)	163.0
Nominal Unit Current Draw (A)	21.5

## Integrated Pump Information

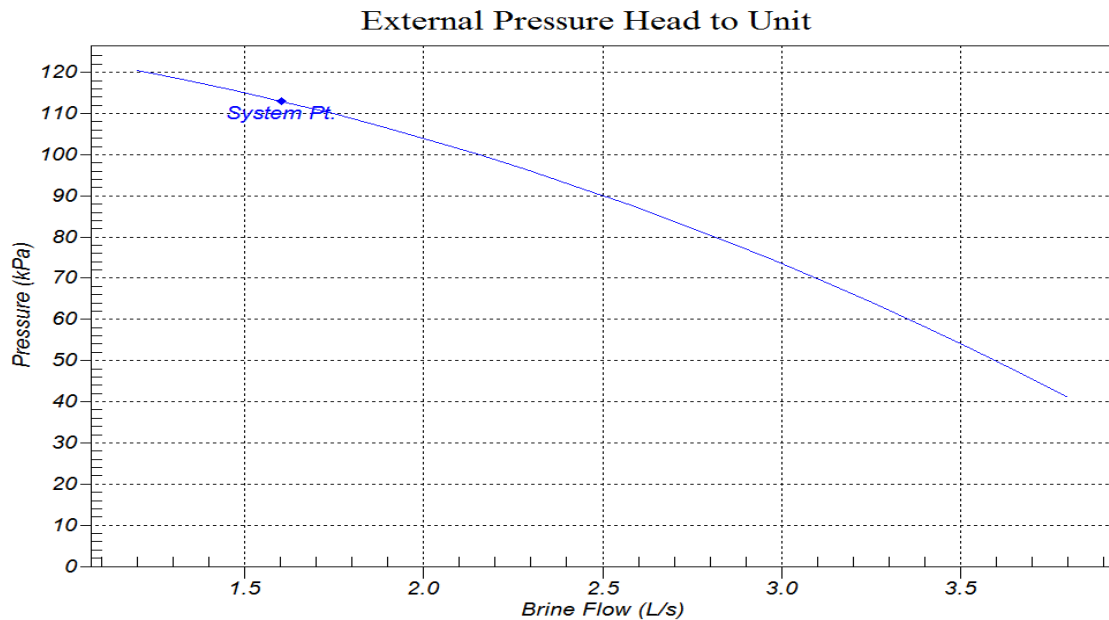
### Condenser Side

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



### Evaporator Side

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



## 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

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### 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).