80 ton Aluminum E coat

Tag Cover Sheet
Unit Report
Certified Drawing
Wiring Diagram
Performance Report
Acoustic Summary
Unit Report For 80 ton Aluminum E coat

Project: ~Untitled1 06/04/2019
Prepared By: 11:11AM

Unit Information
Tag Name: 80 ton Aluminum E coat
Model Number: 30RB080
Condenser Type: Air Cooled
Compressor Type: Scroll
Nameplate Voltage: 460-3-60 V-Ph-Hz
Quantity: 1
Manufacturing Source: Charlotte, NC USA
Refrigerant: R410A
Independent Refrigerant Circuits: 2
Capacity Control Steps: 5
Minimum Capacity: 16.0%
Shipping Weight: 4002 lb
Operating Weight: 4267 lb
Unit Length: 95 in
Unit Width: 89 in
Unit Height: 90 in

Accessories and Installed Options
Freeze Protection
Suction Line Insulation
Suction Service Valves
Non-Fused Disconnect
Micro Channel, E-Coat
Minimum Load Control
Single Point
BACnet Communications
Coil Trim Panels, Grilles, Upper Hail Guards
Greenspeed Intelligence: High-Efficiency Variable Condenser Fans

Chiller Warranty Information (Note: for US & Canada only)
First Year - Parts Only (Standard)
Start-up and Complete Unit 1st Year Labor, First Unit
Complete Unit Years 2-5 Parts Only
Complete Unit Less Hydronic System Year 2-10 Parts Only
Complete Unit Years 2-5 Parts & Carrier CCS Labor
Complete Unit Less Hydronic System Year 2-10 Parts & Labor

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>30RBX08065-LN73C</td>
<td>Packaged Chiller</td>
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<tr>
<td></td>
<td>Base Unit</td>
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<tr>
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<td>Freeze Protection</td>
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<td>Suction Line Insulation</td>
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<td>Suction Service Valves</td>
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<td></td>
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<td>Minimum Load Control</td>
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<td></td>
<td>BACnet Communications</td>
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<td></td>
<td>Coil Trim Panels, Grilles, Upper Hail Guards</td>
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<td>Greenspeed Intelligence: High-Efficiency Variable Condenser Fans</td>
<td></td>
</tr>
</tbody>
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Field Wiring Diagram for 80 ton Aluminum E coat

6/4/2019
11:11 AM
Summary Performance Report For 80 ton Aluminum E coat

Project: ~Untitled106/04/2019
Prepared By: 11:11AM

Packaged Chiller Report: Do Not Edit;

30RB with Greenspeed® Intelligence

Unit Information
Tag Name: 80 ton Aluminum E coat
Model Number: 30RB080
Quantity: 1
Manufacturing Source: Charlotte, NC USA
ASHRAE 90.1: 2010, 2007
Refrigerant: R-410A
Independent Refrigerant Circuits: 2
Shipping Weight: 4002 lb
Operating Weight: 4267 lb
Refrigerant Weight (Circuit A): 33 lb
Refrigerant Weight (Circuit B): 33 lb
Unit Length: 95 in
Unit Width: 89 in
Unit Height: 90 in

Evaporator Information
Fluid Type: Fresh Water
Fouling Factor: 0.000100 (hr-sqft-F)/BTU
Leaving Temperature: 44.00 °F
Entering Temperature: 54.00 °F
Fluid Flow: 180.8 gpm
Pressure Drop: 6.94 ft H2O

Condenser Information
Altitude: 0.000 ft
Number of Fans: 4
Total Condenser Fan Air Flow: 49,600 CFM
Entering Air Temperature: 95.0 °F

Integrated Pump Information
No Pump Selected

Performance Information
Cooling Capacity: 75.63 Tons
Total Compressor Power: 83.90 kW
Total Fan Motor Power: 10.32 kW
Total Unit Power (without pump): 94.22 kW
Efficiency (without pump) (EER): 9.633 BTU/Wh
IPLV: 15.41 BTU/Wh

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Electrical Information
Unit Voltage: 460-3-60 V-Ph-Hz
Connection Type: Single Point
Minimum Voltage: 414 Volts
Maximum Voltage: 506 Volts

<table>
<thead>
<tr>
<th>Amps</th>
<th>Electrical Circuit 1</th>
<th>Electrical Circuit 2</th>
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<tbody>
<tr>
<td>MCA</td>
<td>160.6</td>
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<tr>
<td>MOCP</td>
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<td>ICF</td>
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<tr>
<td>Rec Fuse Size</td>
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</table>

An uncoated Novation condenser coil was selected for this product. This is based on an installed location with postal code 77429 and
a non-corrosive localized environment.

Sound power measured in accordance with ANSI/AHRI Standard 370-2015.
Summary Performance Report For 80 ton Aluminum E coat

Project: ~Untitled106/04/2019
Prepared By: 11:11AM

Unit Parameters
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Condenser Type: Air Cooled
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Chiller Nameplate Voltage: 460-3-60 V-Ph-Hz
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Acoustic Information
Table 1. A-Weighted Sound Power Levels (dB re 1 picowatt). See note #1.

<table>
<thead>
<tr>
<th>Octave Band Center Frequency, Hz</th>
<th>31</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% Load</td>
<td>---</td>
<td>70</td>
<td>80</td>
<td>86</td>
<td>92</td>
<td>96</td>
<td>93</td>
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<td>78</td>
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<tr>
<td>75% Load</td>
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<td>69</td>
<td>80</td>
<td>86</td>
<td>91</td>
<td>94</td>
<td>91</td>
<td>87</td>
<td>77</td>
<td>98</td>
</tr>
<tr>
<td>50% Load</td>
<td>---</td>
<td>66</td>
<td>72</td>
<td>80</td>
<td>86</td>
<td>87</td>
<td>87</td>
<td>83</td>
<td>73</td>
<td>92</td>
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<tr>
<td>25% Load</td>
<td>---</td>
<td>62</td>
<td>63</td>
<td>73</td>
<td>82</td>
<td>82</td>
<td>84</td>
<td>79</td>
<td>70</td>
<td>88</td>
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Table 2. A-Weighted Sound Pressure Levels (dB re 20 micropascals) calculated based upon user defined input for dimensions 1, 2 and 3 as shown in above diagram. See note #2 and #3.

<table>
<thead>
<tr>
<th>Octave Band Center Frequency, Hz</th>
<th>31</th>
<th>63</th>
<th>125</th>
<th>250</th>
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<th>1k</th>
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<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% Load</td>
<td>---</td>
<td>38</td>
<td>49</td>
<td>55</td>
<td>61</td>
<td>64</td>
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<tr>
<td>75% Load</td>
<td>---</td>
<td>37</td>
<td>49</td>
<td>54</td>
<td>60</td>
<td>63</td>
<td>60</td>
<td>56</td>
<td>46</td>
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<tr>
<td>50% Load</td>
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<td>41</td>
<td>40</td>
<td>51</td>
<td>51</td>
<td>52</td>
<td>48</td>
<td>57</td>
</tr>
</tbody>
</table>

Notes: (1) Measurements performed in accordance with AHRI Standard 370-2015 for air cooled Chillers.
(2) Chiller is assumed to be a point source on a reflecting plane.
(3) Without user defined input, the default dimensions used to construct Table 2 are as follows:
   1 - Chiller Height Above Ground = 0.0 ft
   2 - Horizontal Distance From Chiller to Receiver = 30.0 ft
   3 - Receiver Height Above Ground = 3.0 ft
Please refer to Performance Output Summary or Detailed Performance Report for Acoustic information