



# Air-Cooled Chiller, Scroll Compressors

## Job Information

	Deseret Pasta Plant Salt Lake City (U41)Daniel Goulding	
Tag Model Number Quantity Product Version Unit nominal tonnage Unit type	CH-1 CGAM 20 1 169 20 tons High efficiency	

## General Information

Sound attenuator package	<b>Super quiet</b>	IPLV	<b>14.2 EER</b>
Refrigerant	<b>R410A</b>	NPLV	<b>16.0 EER</b>
Capacity	<b>21.40 tons</b>	Sound power level	<b>86 dBA</b>
Full load efficiency	<b>9.8 EER</b>	Sound pressure level *	<b>61 dBA</b>

Note: \* At 30 feet in free field.

## Evaporator Information

Evaporator application	<b>Std cooling</b>	Fouling factor	<b>0.00010 hr-sq ft-deg F/Btu</b>
Entering temperature	<b>72.10 F</b>	Saturated temperature-ckt 1	<b>47.50 F</b>
Leaving temperature	<b>55.00 F</b>		
Fluid flow rate	<b>32.00 gpm</b>	Minimum flow rate	<b>29.10 gpm</b>
Pressure drop	<b>6.90 ft H2O</b>	Pressure drop at min flow rate	<b>7.80 ft H2O</b>
Total PD evap+strainer	<b>9.20 ft H2O</b>	Maximum flow rate	<b>69.70 gpm</b>
Evap fluid type	<b>Propylene glycol</b>	Pressure drop at max flow rate	<b>36.70 ft H2O</b>
Evap fluid freeze point	<b>2.70 F</b>	Freeze protection (factory inst)	<b>Ext. t-stat control</b>
Evap fluid concentration	<b>35.00 %</b>		

## Condenser Information

Unit application	<b>Wide ambient</b>	Total fan FLA	<b>6.90 A</b>
Ambient air temperature	<b>105.00 F</b>	Total airflow	<b>18735 cfm</b>
Elevation	<b>4400.00 ft</b>	Fin material	<b>Lanced aluminum</b>
Number of fans	<b>2.00 Each</b>	Saturated temperature-ckt 1	<b>132.90 F</b>
Fan motor power	<b>2.00 kW</b>		

## Compressor Information

Number of compressors	<b>2</b>		<u>RLA</u>	<u>LRA</u>
Number of circuits	<b>1</b>	Compressor A	<b>18.60 A</b>	<b>142.00 A</b>
Capacity steps	<b>2</b>	Compressor B	<b>18.60 A</b>	<b>142.00 A</b>
Total compressor power	<b>24.00 kW</b>			

## Electrical Information

Unit voltage	<b>460 volt 3 phases</b>		<u>MCA</u>	<u>MOP</u>
Unit hertz	<b>60 hertz</b>	Single point power	<b>50.50 A</b>	<b>60.00 A</b>
Short circuit	<b>High</b>	Incoming power line connection	<b>Single point</b>	
Short circuit rating	<b>65000.00 A</b>	Starter type	<b>Across the line</b>	
Unit power	<b>26.20 kW</b>			

Note: Unit power includes: compressors, condenser fans, and control kW

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Deseret Pasta Plant  
Salt Lake City  
(U41)Daniel Goulding

Tag	<b>CH-1</b>
Model Number	<b>CGAM 20</b>
Quantity	<b>1</b>
Product Version	<b>169</b>
Unit nominal tonnage	<b>20 tons</b>
Unit type	<b>High efficiency</b>



Evaporator contains a glycol or other secondary coolants for freeze protection with a leaving chilled fluid temperature above 32°F and is certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) when tested with water at Standard Rating Conditions. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).



## Physical Information

Length	<b>114.000 in</b>	Water connections	<b>2.000 in</b>
Width	<b>50.600 in</b>	Refrigerant charge circuit 1	<b>32.0 lb</b>
Height	<b>84.700 in</b>	Oil charge circuit 1	<b>1.74 gal</b>
Operating weight	<b>2208.0 lb</b>		
Shipping weight	<b>2185.2 lb</b>		

## Information for LEED Projects

ASHRAE 90.1/CSA compliance	<b>ASHRAE all to 2010</b>	IPLV	<b>14.2 EER</b>
Refrigerant charge circuit 1	<b>32.0 lb</b>	Rated capacity (AHRI)	<b>19.60 tons</b>

Note: This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 for all versions (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section.

The LEED Green Building Rating System™, developed by the U.S. Green Building Council, provides independent, third-party verification that a building project meets green building and performance measures.