



SUBMITTAL

Project

Loews Hotel Chiller

Date

Tuesday, March 15, 2022

General Contractor

Mechanical Contractor

Mechanical Engineer

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Prepared By:

03/15/2022
12:39PM

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ACC-1

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ACC-1

**Tag Cover Sheet
Unit Report
Performance Report**

Unit Report For ACC-1

Project: Loews Hotel Chiller
 Prepared By:

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Unit Information

Tag Name:..... **ACC-1**
 Model Number:..... **30XV200**
 Condenser Type:..... **Air Cooled**
 Compressor Type:..... **VFD Screw**
 Nameplate Voltage:..... **460-3-60** V-Ph-Hz
 Quantity:..... **1**
 Manufacturing Source:..... **Charlotte, NC USA**
 Refrigerant:..... **R134A**
 Independent Refrigerant Circuits:..... **2**
 Capacity Control Steps:..... **0**
 Minimum Capacity:..... **15.0** %
 Shipping Weight:..... **12090** lb
 Operating Weight:..... **12317** lb
 Unit Length:..... **255** in
 Unit Width:..... **88** in
 Unit Height:..... **99** in

Accessories and Installed Options

Suction Line Insulation
 Control Transformer
 Non-Fused Disconnect
 Micro Channel, E-Coat
 Flooded Evaporator, 2 pass, w/ Heater
 Variable Speed Condenser Fans
 High SCCR 65 kA Current Rating
 Coil Trim Panels (Header side only)
 Low Ambient Head Pressure Control
 Standard Tier

Chiller Warranty Information (Note: for US & Canada only)

First Year - Parts Only (Standard)
 Start up, First Unit
 Compressor Year 2-5 Parts Only

Ordering Information

Part Number	Description	Quantity
30XV-2006S5005DC0	Packaged Chiller	1
	Base Unit	
	Suction Line Insulation	
	Control Transformer	
	Non-Fused Disconnect	
	Micro Channel, E-Coat	
	Flooded Evaporator, 2 pass, w/ Heater	
	Variable Speed Condenser Fans	
	High SCCR 65 kA Current Rating	
	Coil Trim Panels (Header side only)	

Summary Performance Report For ACC-1

Project: Loews Hotel Chiller
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AquaForce™ Air-Cooled Variable Speed Screw Chiller



Unit Information

Tag Name:.....**ACC-1**
 Model Number:.....**30XV200S**
 Quantity:.....**1**
 Manufacturing Source:.....**Charlotte, NC USA**
 ASHRAE 90.1:.....**2013/2016, 2010, 2007**
 Refrigerant:.....**R-134a**
 Independent Refrigerant Circuits:.....**2**
 Shipping Weight:.....**12090** lb
 Operating Weight:.....**12317** lb
 Refrigerant Weight (Circuit A):.....**130** lb
 Refrigerant Weight (Circuit B):.....**140** lb
 Unit Length:.....**255** in
 Unit Width:.....**88** in
 Unit Height:.....**99** in
 Required Pad Length:.....**235** in

Accessories and Installed Options

Suction Line Insulation
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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
 SCCR:.....**65** kA

Evaporator Information

Fluid Type:.....**Fresh Water**
 Fouling Factor:.....**0.000100** (hr-sqft-F)/BTU
 Leaving Temperature:.....**44.00** °F
 Entering Temperature:.....**55.69** °F
 Fluid Flow:.....**400.0** gpm
 Pressure Drop:.....**14.9** ft H2O

Amps	Electrical Circuit 1	Electrical Circuit 2
MCA	372.0	---
MOCP	500.0	---
Rec Fuse Size	450.0	---

Condenser Information

Altitude:.....**0.000** ft
 Number of Fans:.....**10**
 Total Condenser Fan Air Flow:.....**145,000** CFM
 Entering Air Temperature:.....**95.0** °F

Integrated Pump Information

No Pump Selected

Performance Information

Cooling Capacity:.....**195.6** Tons
 Total Compressor Power:.....**216.8** kW
 Total Fan Motor Power:.....**13.60** kW
 Total Unit Power (without pump):.....**234.3** kW
 Efficiency (without pump) (EER):.....**10.02** BTU/Wh
 IPLV:..IP:.....**19.35** BTU/Wh

Sound power measured in accordance with ANSI/AHRI Standard 370-2015.

Summary Performance Report For ACC-1

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Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Summary Performance Report For ACC-1

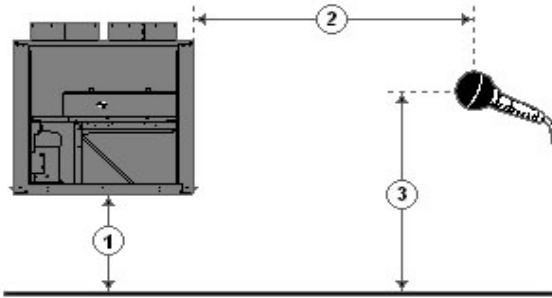
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Acoustic Information

Unit Parameters

Tag Name:..... **ACC-1**
 Model Number:..... **30XV200S**
 Condenser Type:..... **Air Cooled**
 Compressor Type:..... **VFD Screw**
 Chiller Nameplate Voltage:..... **460-3-60** V-Ph-Hz
 Quantity:..... **1**
 Manufacturing Source:..... **Charlotte, NC USA**
 Refrigerant:..... **R-134a**
 Shipping Weight:..... **12090** lb
 Operating Weight:..... **12317** lb
 Refrigerant Weight (Circuit A):..... **130** lb
 Refrigerant Weight (Circuit B):..... **140** lb
 Unit Length:..... **255** in
 Unit Width:..... **88** in
 Unit Height:..... **99** in



1 - Chiller Height Above Ground
 2 - Horizontal Distance From Chiller to Receiver
 3 - Receiver Height Above Ground
 (See Note 3)

Accessories and Installed Options

Suction Line Insulation
 Control Transformer
 Non-Fused Disconnect
 Micro Channel, E-Coat

Flooded Evaporator, 2 pass, w/ Heater
 Variable Speed Condenser Fans
 High SCCR 65 kA Current Rating
 Coil Trim Panels (Header side only)

Acoustic Information

Table 1. A-Weighted Sound Power Levels (dB re 1 picowatt). See note #1.

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
100% Load	64	77	82	89	93	96	92	81	99
75% Load	63	75	79	92	91	92	86	75	97
50% Load	58	68	81	86	86	83	74	71	90
25% Load	55	64	79	84	83	81	72	69	88

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.

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
100% Load	35	48	53	60	64	67	62	52	70
75% Load	33	45	50	63	62	63	57	46	68
50% Load	29	38	52	57	57	54	44	42	61
25% Load	26	35	50	55	54	52	43	40	59

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