



Job Name GJ Public Safety 911 - Chiller Replace
 Location Grand Junction, CO
 Engineer _____
 Contractor _____

Job Number _____
 Quote Number QMTSOFLIAS03122026-2
 Representative Michael Tsouflias
 Rep Office LONG Building Technologies, Inc.-Der

Mechanical Modules

- (1) ASP030KCHB
- (1) ASP030KCHB

Code:

FAB-A2I-CDG---CAACA---W
 FAB-A2I-CD3---CAACA---W (1 operating
 1 in reserve)

Accessory Modules

- (1) FCPCVHAA-HBDFG-AAAQ Free-Cool Module-FCP3
- (1) AMM+AC--+F--...KH-- Glycol Feeder Module with Expansion Tank & Low Level Alarm Contacts (0 front, 1 rear)
- (1) PMM3.0AH+ACDDG.-...-.DB Primary Pump Module (3.0 HP Two Single(Primary/Standby)) (1 front, 0 rear)
- (1) AMM+ACDA160SF.B-...-...-Tank Module (1-160 Gallon Stainless Steel) (0 front, 1 rear)

PERFORMANCE DATA									
Load	Capacity (tons)	Input kW	kW/Ton	EER (Btu/Wh)	COP (kW/kW)	Flow Rate (GPM)	Leaving Temp. °F	ΔP (ft H2O)	Ambient °F
100%	26.42	31.91	1.208	9.936	2.910	68.20	44.00	8.346	95.00
75%	19.82	16.40	0.8276	14.50	4.250	68.20	44.00	8.346	80.00
50%	13.21	8.639	0.6539	18.35	5.380	68.20	44.00	8.346	65.00
25%	6.606	4.594	0.6955	17.25	5.060	68.20	44.00	8.346	55.00

The 25, 50 % points have incorporated a cycling penalty per AHRI 550/590.

With Ambient Relief (per AHRI 550/590)

	kW/Ton	EER (Btu/Wh)	COP (kW/kW)
NPLV.IP	0.7265	16.52	4.845

EVAPORATOR DESIGN DATA (Based on 30% PG)	
Entering Temp. °F	54.00
Leaving Temp. °F	44.00
Design Flow (GPM)	68.20
Pressure Drop (Full Load)	3.613 PSI / 8.346 ft H2O
Chiller Minimum Flow (GPM)	68.20
System Min Flow For Bypass Sizing	68.20
Number Of Passes	1
Fouling Factor (h-ft2-°F/Btu)	.000100
Header Size (in.)	6
Header Connection Type	Grooved Coupling
Header Exchanger Style	Brazed Plate
Number of Compressors (per mod.)	2

CONDENSER DESIGN DATA (Based On 4600' Elevation)	
Design Ambient °F	95.00
Minimum Ambient °F	0.0000
Coil Type	Al/Cu Condenser Coils-None
Fan Qty (per module)	2
Fan Horsepower	2

ELECTRICAL DATA	1	2	3	4
(2) ASP030K	2	0	0	0
(1) Free-Cool Module-FCP3	1	0	0	0
(1) Glycol Feeder Module with Expan	1	0	0	0
(1) Primary Pump Module	1	0	0	0
MCA	*131			
MOP	175			
Voltage	460/60/3			

PHYSICAL DATA	
Length (in.)	252
Width (in.)	72
Height (in.)	94.5
Dry Weight (lbs.)	11255
Operating Weight (lbs.)	13990
Refrigerant Type	R454B
** Estimated Refrig. Chg. (lbs/circuit)	130 per module

CHILLER DATA	
Options	With Ambient Relief (per AHRI 550/590)
Rated Input Current (per comp.)	24.8
Fan Rated Input Current (per fan)	3.38
Compressor Description	Scroll

Dimensions are estimated and do not include J-Boxes

*Parallel feeds not required (Assumes no larger than 500 MCM/kcmil wire)

Outside the scope of AHRI Air-Cooled Water-Chilling Packages Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

Combined units or modular chiller array rating is outside of the scope of the AHRI Air-Cooled Water-Chilling Packages Certification Program.

Individual unit ratings are subject to the governing documents of the AHRI Certification Program.

Unit contains freeze protection fluids in the evaporator with a leaving chilled fluid temperature above 32°F [0°C] and is certified when rated per the Standard with water.





Job Name	GJ Public Safety 911 - Chiller Replace - C	Job Number	
Location	Grand Junction, CO	Quote Number	QCPETERSON03192026-1
Engineer		Representative	Michael Tsoflias
Contractor		Rep Office	LONG Building Technologies, Inc.-Der

AHRI Certified Single Module Run

Mechanical Modules: ASP030K

SUMMARY PERFORMANCE DATA									
Load	Capacity (tons)	Input kW	kW/Ton	EER (Btu/Wh)	COP (kW/kW)	Flow Rate (GPM)	Leaving Temp. °F	ΔP (ft H2O)	Ambient °F
100%	27.45	31.40	1.144	10.49	3.070	65.70	44.00	7.804	95.00
75%	20.59	16.23	0.7884	15.22	4.460	65.70	44.00	7.804	80.00
50%	13.72	8.912	0.6493	18.48	5.410	65.70	44.00	7.804	65.00
25%	6.862	4.635	0.6754	17.77	5.210	65.70	44.00	7.804	55.00

The 25, 50 % points have incorporated a cycling penalty per AHRI 550/590.

	kW/Ton	EER	COP
With Ambient Relief (per AHRI 550/590)	IPLV.IP	0.7081	16.95
		4.971	

EVAPORATOR DESIGN DATA (Based on Water)	
Entering Temp. °F	54.00
Leaving Temp. °F	44.00
Design Flow (GPM)	65.70
Pressure Drop (Full Load)	3.378 PSI / 7.804 ft H2O
Chiller Minimum Flow (GPM)	65.70
Fouling Factor (h-ft ² -°F/Btu)	.000100

CONDENSER DESIGN DATA Based On Sea Level Elevation	
Design Ambient °F	95.00
Minimum Ambient °F	40.00
Coil Type	Al/Cu Condenser Coils-None

CHILLER DATA	
Compressor Description	Scroll

Voltage: 460/60/3

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



Expansion I/O Options

(Input) Chiller Cooling D/P (DP Factory provided, ship lose, field installed and wired)

Services & Special Features:

- Chiller Waterside Maximum Working Pressure is 150 PSIG
- Stainless Steel Evaporator
- Lead Compressor Sequencing (24hrs)
- Automatic Internal Rescheduling If Fault Occurs
- Automatic Logging Of Any Fault Condition
- Electronic Chilled Water Control
- Quick Interconnect Modular Design
- Designed For Quiet Operation
- Filters In Evaporator Supply Headers
- Stainless Steel Inlet Header
- R454B Refrigerant & POE Oil
- Electrical Tier - Medium - B
- Electrical Connection Type - Junction Box
- Carbon Steel Standard Painted Lifting Frame
- Warranty: Compressor (5 Year)
- Warranty: All Parts (1 Year)
- Power Phase Monitor per module
- 3/4" Closed Cell Foam Insulation-(Evaporator)
- Al/Cu Condenser Coils
- Single Point Power Connection
- Manual Isolation Valves Free Cool
- Brazed Plate Evaporator
- 2 Condenser Fans per module
- Air Separator In Tank
- Auto lead/lag timer - Primary
- Suction and Discharge Water Pressure Gauges (4" Glass Lens) - Primary
- Pump suction and discharge pressure taps - Primary
- Redundant Switches for Primary/Standby switchover - Primary
- Suction & discharge (carbon steel) service Isolation valves and discharge (carbon steel) check valve per pump - Primary
- Evap Flow Switch-Thermal Dispersion Type (24 Volt Factory Powered & Installed On Each Module)
- UL207 (CSA C22.2 NO. 140.3-15) Evaporator
- Expansion I/O Options
- cPCO Controls Upgrade for 3 existing controls installed by others
- Pump Grounding Rings
- Low Ambient To -20F, includes ECM-2 Fans
- 10kA SCCR

Excluded By Multistack:

**** Multistack recommends freeze protection below 40F. Heat trace does not qualify as freeze protection by Multistack Standards. If the equipment will see freezing ambient temperatures, Multistack will not warrant failures related to freezing.**

- Any Travel and Diagnosis for Warranties
- Multistack recommends a 2-3 minute minimum loop time. Contact Multistack if you have questions regarding system loop time design



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Quote Number QMTSOFLIAS03122026-2
Representative Michael Tsoulias
Rep Office LONG Building Technologies, Inc.-Denver

Accessory Detail

Mounting/Lifting Frame	
Materials	Carbon Steel Standard Painted
Design	Standard - no walkway/passage
I-Beam Size	6"
Width of Walkway/Passage	N/A
Bolt together frame-# of pieces	1
End Type	Flush Ends - Both

(1) Primary Pump Module - PMM3.0AH+ACDDG.-.-.-.-.DB	
Location	Primary Loop
Suction	1.5 in.
Discharge	1.25 in.
Impeller	5 in.
Horsepower	3 HP
Pump Type	(2) Single Primary/Standby
External Feet of Head	30.00 ft
Total Primary Loop Pressure Drop	74.15 ft
Total Flow Rate	68.20 GPM
Module FLA	4.300 A
Expansion Tank	No
Mini Glycol Feeder with Expansion Tank & Low Level Alarm Contacts	No
Auto Lead/Lag Timer	Yes
Suction & discharge water pressure gauges(4" lens)	Yes
Pump suction and discharge pressure taps	Yes
Redun. Switches for Primary/Standby switchover	Yes

(1) Free-Cool - (1) FCPCVHAA-HBDFG-AAAQ Free-Cool Module-FCP3		
Capacity	26.42	Tons
Ambient Temperature	33.25	F
Entering Temperature	53.80	F
Leaving Temperature	44.00	F
DeltaT	9.848	F
Flow Rate	68.20	GPM
Operating Pressure Drop	27.32	ft
Airflow_CFM	11000	cfm
EER	67.93	
Power	4.668	kW
Power per Ton	0.1767	kW/Ton
COP	19.90	F

Air Separator In Tank - Primary Loop	
Location	In Tank Module
Ship Loose for Field Insulation	No
Model	AC02-125
Air Separator Pressure Drop	1.485 ft

(1) Glycol Feeder Module with Expansion Tank & Low Level Alarm Contacts (Includes 55 gallon capacity feeder tank & 21 gallon acceptance volume expansion tank) (Based on 30% PG) - AMM+AC--+-F.-.-.KH--		
Location	Own Module	
Module FLA	1.000	A

(1) Tank Module Qty:1 - AMM+ACDA160SF.B.-.-.-.----	
Location	Own Module
Tank Size	160 Gallon Stainless Steel

Layout Diagram:

