

Report By:

**Aero Building Solutions
11100 BELMONT AVE
FRANKLIN PARK, IL 60131**

Report: sample

Function: Test, Adjust, & Balance

Date: 11/01/2023

PROJECT

Sample

11100 Belmont

Franklin Park, IL

Client

Brian

Aero Building Solutions

Project: Sample

Table Of Contents

Section	Page #
AHU/RTU	3
Diffuser Supply (GRD)	5
Chiller	6
Pump	8
COIL - Chilled Water	9

Aero Building Solutions

Project: Sample

System/Unit: AHU/RTU

Asset: AHU1

AREA:

Unit Data		
	Design	Actual
MFG	Trane	Trane
Serial Num	-	
Model Num	048	048
Type	-	
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	
Num PreFilter 2	-	
PreFilter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	
Frequency	-	
Service Factor	-	
Efficiency	-	
Power Factor	-	

Drive Data		
	Design	Actual
Motor Sheave MFG	-	
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave MFG	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	
Belt MFG	-	
Belt Deflection	-	
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM (Initial)	-	
SF CFM	-	
SF RPM (Initial)	-	
SF RPM	-	
RA CFM	-	
OA CFM	-	
Exhaust CFM	-	
Relief CFM	-	
RL Voltage	-	
RL Amperage Initial	-	
RL Amperage	-	
SF Rotation	-	
VFD Max SetPt	-	
VFD Min SetPt	-	
SF Motor Freq(HZ)	-	
SF Flow Station (Kv)	-	
OA Flow Station (Kv)	-	
SF System SetPt	-	
RA Flow Station (Kv)	-	
Relief Flow Station (Kv)	-	
RA Damper Position	-	
RA Damper Type	-	
MA Damper Position	-	
MA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
Econo Damper Position	-	
Econo Damper Type	-	
Relief Damper Position	-	
Relief Damper Type	-	
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Electrical		
	Design	Actual
Evap Fan Overload size/setpt	-	
VFD Phase Voltage (line)	-	
VFD Min Setpt	-	
VFD Max Setpt	-	
Phase Brownout Dial Setpt (v)	-	
Phase Brownout Volt Variance	-	
Control Voltage (v)	-	
System Fused (y/n)	-	
Fuse Size (amps)	-	
Freeze Stat Setpt	-	
Compressor Lockout Setpt	-	

Performance Data		
	Design	Actual
Return Duct SP	-	
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Supply Duct SP	-	
Total ESP	-	
Fan Total SP	-	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
Cooling Coil P.D.	-	
CHW Coil P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

General		
	Design	Actual
Unit free of Damage	-	
Unit Completely Assembled	-	
Unit Leveled	-	
Curb & Unit Installed Air Tight	-	
Controls Complete	-	
Fan Rotation Correct	-	
Fan Belt Condition	-	
Unit Filters Clean	-	
Evap Coil Clean	-	
Evap Coil Free of Frost	-	
Condensor Coil Clean	-	
Condensor Fins Straight	-	
Refr Sight Glass Dry	-	
Condensate Drain Installed	-	

Combustion Fan Motor Data		
	Design	Actual
Voltage	-	
Amperage	-	

Aero Building Solutions

Project: Sample

Diffuser Supply (GRD)

RTU/

Asset												
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design	a7
SGRD1												
SGRD2												
SGRD3												
SGRD4												
SGRD5												
SGRD6												
SGRD7												
SGRD8												
SGRD9												
SGRD10												
Total				0			0		0	0	0%	



Aero Building Solutions

Project: Sample

System/Unit: Chiller

Asset: CHLR1

AREA:

Test2		
	Design	Actual
FF1	Trane	Trane
DV	-	
FF4	-	
FF2	100	100
FF3	-	
FF102	-	
FF101	-	
DV1	-	

Unit Data		
	Design	Actual
MFG	Trane	Trane
Model Num	100	100
Serial Num	-	
Type	-	
Size	-	
Service	-	

test3		
	Design	Actual
t1	-	
t3	-	
t2	-	

Condensor Fan		
	Design	Actual
Fan Alignment	-	
Fan Rotation	-	
Fan 1 Motor RLA	-	
Fan 1 Motor RLV	-	
Fan 2 Motor RLA	-	
Fan 2 Motor RLV	-	
Fan 3 Motor RLA	-	
Fan 3 Motor RLV	-	

Test Data-Evaporator		
	Design	Actual
Water Treatment Type	-	
Water Treatment %	-	
Water Temp	-	
GPM	-	
Cv	-	
Balance Valve Setting	-	
Balance Valve Delta P	-	
EWT (F)	-	
LWT (F)	-	
Water Temp Delta T (F)	-	
ENT Water Pres	-	
LVG Water Pres	-	
CHW Delta P	-	
Low Limit Temp Cut-off SetPt	-	
Inlet GPM Temp SetPt	-	
Discharge GPM Temp SetPt	-	
Water Temp MAX Drop SetPt	-	
GPM Flow Switch Setting	-	
GPM Flow Switch CTRL Voltage	-	
GPM Switch Proved (Pass/Fail)	-	
Mech Cool Temp SetPt-ON	-	
Free Cool Temp SetPt-OFF	-	

Test Data-Condenser		
	Design	Actual
Water Treatment Type	-	
Water Treatment %	-	
Water Temp	-	
CW GPM	-	
Cv	-	
Balance Valve Setting	-	
Balance Valve Diff Pres	-	
EWT (F)	-	
LWT (F)	-	
Water Temp Delta T (F)	-	
ENT Water Pres	-	
LVG Water Pres	-	
CHW Delta P	-	

Compressors		
	Design	Actual
MFG	-	
Model Num	-	
Serial Num	-	
Refrigerant Charge	-	
Refrigerant Type	-	
Comp 1 RLV	-	
Comp 1 RLA	-	
Comp 2 RLV	-	
Comp 2 RLA	-	
Comp 1 Suction Pres	-	
Comp 2 Suction Pres	-	
Comp 1 Discharge Pres	-	
Comp 2 Discharge Pres	-	
Circuit 1 Superheat	-	
Circuit 2 Superheat	-	
Comp 1 Liquid Line Temp	-	
Comp 2 Liquid Line Temp	-	
Circuit 1 SubCooling	-	
Circuit 2 SubCooling	-	
KW Input	-	
CrankCase HTR Amps	-	
Cond Water Ctrl SetPt	-	
LP Cutout Setting	-	
HP Cutout Setting	-	

General		
	Design	Actual
Oil Level Checked	-	
Oil Failure Differential	-	
Ref Level Checked	-	
Relief Valve Setting	-	
Unloader SetPt	-	
% Cylinders Unloaded	-	
Purge Operation Checked	-	
Bearing Temp	-	
Vane Position	-	
Demand Limit	-	
Low Temp Cutout Setting	-	

Aero Building Solutions

Project: Sample

System/Unit: Pump

Asset: PUMP1

AREA:

Unit Data		
	Design	Actual
MFG	B&G	B&G
Model Num	e90	e90
Serial Num	-	
Service	-	
Type	-	
Series	-	
Configuration	-	
Pump RPM	-	
GPM/HD	-	
Impeller Diameter	-	
Coupling Type	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Shaft Diameter	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage	-	
Amperage	-	
Service Factor	-	
Efficiency	-	
Power Factor	-	

Drive Data		
	Design	Actual
Pump Shaft Diameter	-	

Test Data		
	Design	Actual
Pump Off Pres	-	
Pump Dead Head Pres	-	
Act Impeller Dia (IN)	-	
Valve Open GPM (FT)	-	
Valve Open Diff (FT)	-	
Final Suction Pres (FT)	-	
Final Discharge Pres (FT)	-	
Total Head Pres (FT)	-	
Final GPM	-	
NPSH	-	
Pump Rotation	-	
Motor RPM	-	
Pump RPM	-	
Motor Frequency	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Brake Horse Power	-	

General		
	Design	Actual
Water Treatment Type	-	
Water Treatment %	-	
Water Temp	-	
Cv	-	

Aero Building Solutions

Project: Sample

System/Unit: COIL - Chilled Water

Asset: CHWC1

AREA:

Unit Data		
	Design	Actual
MFG	Coilmaster	Coilmaster
Model Num	cw	cw
Serial Num	-	
Service	-	
Type	-	
Size	-	
Area	-	
Face Velocity	-	
Water Treatment Type	-	
Water Treatment %	-	
Water Temp	-	
Water Treatment Correction Factor	-	

Performance Data		
	Design	Actual
COIL CFM	-	
BTUH (ACTUAL)	-	
EAT (db/wb)	-	
LAT (db/wb)	-	
Delta T (db/wb)	-	
Airside Inlet SP	-	
Airside Discharge SP	-	
Airside Coil Delta SP	-	

Test Data		
	Design	Actual
GPM CIRCUIT 1	-	
Inlet Pres	-	
Discharge Pres	-	
Coil Delta P	-	
EWT (F)	-	
LWT (F)	-	
Coil Delta T (F)	-	
Circuit 1 BTUH	-	