



OPTI(Cx)
PLATFORM

CHILLER DIAGNOSTICS

SamfordAL: SamfordAL

October 2018

Samford Campus LOOP Chiller 1

Manufacturer: York
Model: YKPP4K2-FBG
Capacity: 1500 Tons
Constant/Variable: Variable Speed
Refrigerant: Positive Pressure

Summary

	MONTHLY TOTAL/AVERAGE		NUMBER OF RULE VIOLATIONS	AVERAGE WHEN RULE VIOLATED	PERCENT OF RUN TIME WHEN RULE VIOLATED
Starts	5	■	0	-	-
Evaporator Approach (deg F)	-0.02	■	0	-	-
Condenser Approach (deg F)	2.58	■	0	-	-
Discharge Superheat (deg F)	9.27	■	0	-	-
VSD Speed (%)	75.49	■	0	-	-
Inlet Vane Position (%)	85.48	■	0	-	-

Statistics

Run Hours	215
Average Chilled Water Supply temperature (deg F)	45.75
Average Chilled Water Return temperature (deg F)	52.09
Average Condenser Water Supply temperature (deg F)	68.27
Average Condenser Water Return temperature (deg F)	75.57
Average Chiller Efficiency (kW/Ton)	0.38

Recommended Action



No current recommendations

Samford Campus LOOP Chiller 2

Manufacturer:	York
Model:	YKPP4K2-FBG
Capacity:	1500 Tons
Constant/Variable:	Variable Speed
Refrigerant:	Positive Pressure

Summary	MONTHLY TOTAL/AVERAGE		NUMBER OF RULE VIOLATIONS	AVERAGE WHEN RULE VIOLATED	PERCENT OF RUN TIME WHEN RULE VIOLATED
Starts	6	■	0	-	-
Evaporator Approach (deg F)	0.75	■	0	-	-
Condenser Approach (deg F)	0.62	■	0	-	-
Discharge Superheat (deg F)	9.92	■	0	-	-
VSD Speed (%)	76.96	■	0	-	-
Inlet Vane Position (%)	89.18	■	0	-	-

Statistics

Run Hours	473
Average Chilled Water Supply temperature (deg F)	45.45
Average Chilled Water Return temperature (deg F)	52.24
Average Condenser Water Supply temperature (deg F)	69.65
Average Condenser Water Return temperature (deg F)	77.81
Average Chiller Efficiency (kW/Ton)	0.38

Recommended Action



No current recommendations

Samford Campus LOOP Chiller 3


Manufacturer:	York
Model:	YKPFP4K2-FBG
Capacity:	1500 Tons
Constant/Variable:	Variable Speed
Refrigerant:	Positive Pressure

Summary	MONTHLY TOTAL/AVERAGE		NUMBER OF RULE VIOLATIONS	AVERAGE WHEN RULE VIOLATED	PERCENT OF RUN TIME WHEN RULE VIOLATED
Starts	8	■	0	-	-
Evaporator Approach (deg F)	0.72	■	0	-	-
Condenser Approach (deg F)	0.2	■	0	-	-
Discharge Superheat (deg F)	9.91	■	0	-	-
VSD Speed (%)	77.67	■	0	-	-
Inlet Vane Position (%)	86.79	■	0	-	-

Statistics

Run Hours	393
Average Chilled Water Supply temperature (deg F)	45.06
Average Chilled Water Return temperature (deg F)	52.24
Average Condenser Water Supply temperature (deg F)	70.39
Average Condenser Water Return temperature (deg F)	78.33
Average Chiller Efficiency (kW/Ton)	0.38

Recommended Action



No current recommendations

Samford Campus LOOP Chiller 4


Manufacturer:	York
Model:	YKPFP4K2-FBG
Capacity:	1500 Tons
Constant/Variable:	Variable Speed
Refrigerant:	Positive Pressure

Summary	MONTHLY TOTAL/AVERAGE		NUMBER OF RULE VIOLATIONS	AVERAGE WHEN RULE VIOLATED	PERCENT OF RUN TIME WHEN RULE VIOLATED
Starts	17	■	0	-	-
Evaporator Approach (deg F)	1.65	■	4	4.06	7.15%
Condenser Approach (deg F)	0.2	■	0	-	-
Discharge Superheat (deg F)	8.92	■	0	-	-
VSD Speed (%)	72.14	■	0	-	-
Inlet Vane Position (%)	79.64	■	0	-	-

Statistics

Run Hours	82
Average Chilled Water Supply temperature (deg F)	45.26
Average Chilled Water Return temperature (deg F)	51.95
Average Condenser Water Supply temperature (deg F)	67.82
Average Condenser Water Return temperature (deg F)	74.71
Average Chiller Efficiency (kW/Ton)	0.34

Recommended Action



No current recommendations