

Evaporator

General System

Relative Humidity

50.0%

1.85

Degrees F (to estimate ambient temp)

70.0

1.00

Leak Rate of Refrigerant

10.0%

1.02

Vibration

General Evaporator

Cycles per Hour

Cycles < 1

0.9

Running fan RPM

1500

2.70

PM Frequency vs Specification

2 times the frequency (1/2 the period of the specification)

0.4

Operating Voltage in Capacitor

200.0

0.11

Operating Voltage in Relay

180.0

4.82

Motor Load

Light Impact

1.5

Years Elapsed

0

Part Replaced

Run Hours Per Year

1800

17.47

Condenser

General Condenser

Running RPM

750

2.16

Cycles per Hour

Cycles < 1

0.9

PM Frequency vs Specification

Same PM as specification

1.0

Vibration

Secondary Heat Exchanger Hours per Demand

4.0

31.34

Condenser Pump

Operating flow, GPM

40

1.00

Operaing speed, RPM

300

1.05

Filter Size, Microns

10

1.10

Hours of Service per Day

0.5

1.25

Pump Load

Extreme Shock

Years Elapsed

Part Replaced

Run Hours Per Year

1800

24

Compresors

General Compressor

Cycles per Hour

Cycles > 10

1.1

PM Frequency vs Specification

Same PM as specification

1

Operating Voltage of Capacitor

180.0

0.48

Operating Voltage of Relay

180.0

0.09

Motor Load

Light Impact

1.5

Non-Scheduled Lubrication Check?

No

1

Heavy Vibration Level or Shock Loading?

No

1

Operating Tempatures

100

1.00

Oil Return Rate g/min

1.0

0.98

Chlorine ion in oil (PPM)

0.00

0.85

Purity of Refrigerant (%)

99.990%

0.94

Oil TAN (Total Acid Number)

0.1

0.89

Oil Level (%)

85.0%

1.11

Oil Ph

7.0

0.90

Water in Oil (PPM)

10

(0.001%) 1.17

Vibration

Years Elapsed

3

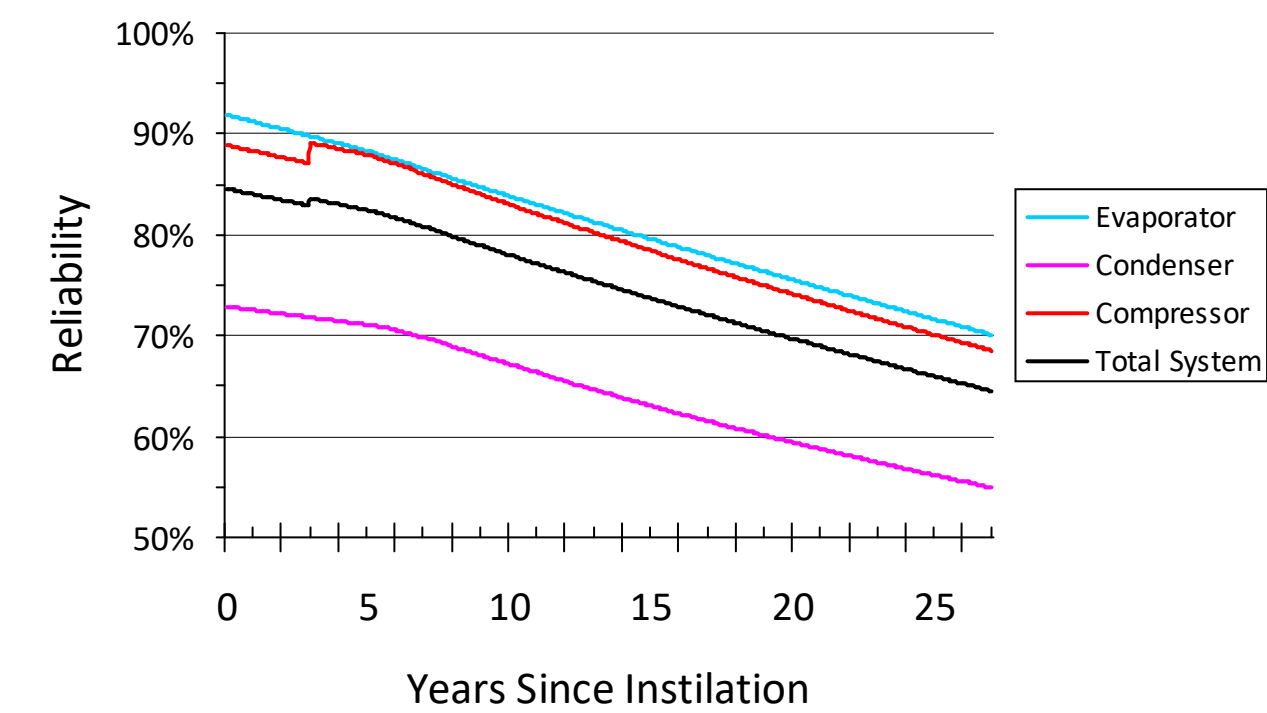
Part Replaced

Compressor

Run Hours Per Year

1800

3.48



Rotary Screw and Orbiting Scroll Compressors – PM Template										
PM Task Component	Refrigerant Analysis	Oil Analysis	Vibration Analysis	Calibration	External Inspection	Internal Inspection	Performance Tests	Functional Tests	Operator Rounds	Overhaul
Lubrication		1 year			3–6 months				As required	
Oil precoure					3–6 months				As required	As required
Rotors			3–12 months		3–6 months	2 years				As required
Capacity slide control valve									As required	
Bearings		1 year	3–12 months			2 years			As required	As required
Shaft seal					3–6 months				As required	
Gaskets	1 year				3–6 months					As required
Fasteners and hardware					3–6 months	2 years				
Coupling			3 months to 1 year		3–6 months	2 years				As required
Oil pump										As required
Oil separator					3–6 months				As required	

Compressor _ last replaced year 3

Centrifugal Compressor – PM Template										
PM Task Component	Refrigerant Analysis	Oil Analysis	Vibration Analysis	Calibration	External Inspection	Internal Inspection	Performance Tests	Functional Tests	Operator Rounds	Overhaul
Oil system	1 year				3–6 months				As required	
Impeller						2 years				
Capacity control (guide vanes)					3–6 months	2 years				
Bearings		1 year	3–12 months							
Gearbox		1 year	3–12 months						As required	
Gaskets	1 year				3–6 months	2 years				
Fasteners and hardware					3–6 months	2 years			As required	
Coupling			3–12 months		3–6 months	2 years			As required	5 years

Reciprocating Compressor – PM Template										
PM Task Component	Refrigerant Analysis	Oil Analysis	Vibration Analysis	Calibration	External Inspection	Internal Inspection	Performance Tests	Functional Tests	Operator Rounds	Overhaul
Lubrication		1 year			3–6 months				As required	As required
Cylinders – valves						2 years				
Cylinders – piston rings					3–6 months	2 years			As required	
Cylinder body					3–6 months				As required	
Cylinders – gaskets	1 year					2 years				As required
Bearings		1 year			2 years					As required
Shaft		1 year								As required
Gaskets	1 year					2 years				As required
Fasteners and hardware			2 years		3–6 months					
Unloader valve										As required
Relief valve						2 years			As required	
Pulley sheaves			3–12 months		3–6 months					
Coupling			3–12 months		3–6 months	2 years				As required

Rotary Screw and Orbiting Scroll Compressors – PM Template										
PM Task Component	Refrigerant Analysis	Oil Analysis	Vibration Analysis	Calibration	External Inspection	Internal Inspection	Performance Tests	Functional Tests	Operator Rounds	Overhaul
Lubrication		1 year			3–6 months				As required	
Oil pressure					3–6 months				As required	As required
Rotors			3–12 months		3–6 months	2 years				As required
Capacity slide control valve									As required	
Bearings		1 year	3–12 months			2 years			As required	As required
Shaft seal					3–6 months	2 years			As required	
Gaskets	1 year				3–6 months					As required
Fasteners and hardware					3–6 months	2 years				
Coupling			3 months to 1 year		3–6 months	2 years				As required
Oil pump										As required
Oil separator					3–6 months				As required	

Time	Evaporator	Condenser	Compressor	Total
0	91.9%	72.9%	88.9%	84.5%
1	91.2%	72.5%	88.3%	84.0%
3	89.7%	71.8%	89.1%	83.5%
5	88.3%	71.0%	87.9%	82.4%