



# HVAC System Performance - Production Areas Checklist

## General System Overview & Monitoring

Initial assessment and ongoing data logging of overall system health.

### Overall System Runtime (Hours)

### Total Production Area CFM (Cubic Feet per Minute)

### Average Production Area Temperature (Degrees)

### Average Production Area Humidity (%)

### Overall System Status

- ☐ Nominal
- ☐ Warning
- ☐ Critical


### Any Unusual Observations During Inspection

Write something...

### Last System Performance Review Date

Enter date...

### System Performance Graph/Report (if available)

 Upload File

## Airflow & Ventilation

Verification of proper air distribution and ventilation rates within production areas.

### Measured Airflow (CFM/m<sup>3</sup>/min) at Supply Diffusers - Area 1

Enter a number...

### Measured Airflow (CFM/m<sup>3</sup>/min) at Return Grilles - Area 1

Enter a number...

### Static Pressure at Fan (in WC/Pa)

Enter a number...

### Air Distribution Pattern (Observe & Select)

- ☐ Uniform
- ☐ Drafty
- ☐ Uneven
- ☐ As Expected

### Supply Air Volume Damper Operation

- ☐ Fully Open
- ☐ Partially Open
- ☐ Closed
- ☐ Malfunctioning

### Notes on Airflow Observations (e.g., drafts, stagnant areas)

Write something...

### Location of observed airflow issues

 [Set My Current Location](#)



# Temperature & Humidity Control

Confirmation of accurate temperature and humidity levels for process requirements.

## Production Area 1 - Target Temperature (deg F)

Enter a number...

## Production Area 1 - Actual Temperature (deg F)

Enter a number...

## Production Area 1 - Target Humidity (%)

Enter a number...

## Production Area 1 - Actual Humidity (%)

Enter a number...

## Production Area 1 - Temperature Control Mode

- ☐ Cooling
- ☐ Heating
- ☐ Off
- ☐ Automatic

## Production Area 1 - Humidity Control Mode

- ☐ Dehumidifying
- ☐ Humidifying
- ☐ Off
- ☐ Automatic

### Notes/Observations for Production Area 1 - Temperature/Humidity

Write something...

### Date of Temperature/Humidity Readings - Production Area 1

Enter date...

## Equipment Condition & Performance

Assessment of individual HVAC equipment functionality and efficiency.

### Supply Air Temperature (SAT) - Production Area 1 (°C)

Enter a number...

### Return Air Temperature (RAT) - Production Area 1 (°C)

Enter a number...

### Supply Air Volume (CFM/m<sup>3</sup>/min) - Production Area 1

Enter a number...

### Chiller/Cooling Tower Efficiency (%)

Enter a number...

### Compressor Status (Cooling System)

- ☐ Operating Normally
- ☐ Warning
- ☐ Fault

### Fan Motor Condition (Main Air Handler)

- ☐ Normal
- ☐ Noise/Vibration
- ☐ Overheating

### Observations regarding equipment performance (noise, vibration, leaks, etc.)

Write something...

### Last Maintenance Date - Main Air Handler

Enter date...

## Filtration & Air Quality

Checking for adequate filtration and maintaining acceptable air quality within the production environment.

### MERV Rating of Filters in Use

Enter a number...

### Pressure Drop Across Filters (in)

Enter a number...

### Filter Replacement Schedule Followed?

- ☐ Yes
- ☐ No
- ☐ N/A

### Particulate Matter (PM2.5) Reading ( $\mu\text{g}/\text{m}^3$ )

Enter a number...

### Any noticeable odors or air quality concerns observed?

Write something...

### Evidence of Dust Accumulation on Equipment?

- ☐ Yes
- ☐ No
- ☐ Minor
- ☐ Significant

### Date of Last Filter Change

Enter date...

## Energy Efficiency & Optimization

Evaluation of energy consumption and identification of potential optimization opportunities.

### Average Energy Consumption (kWh)

Enter a number...

### Peak Demand (kW)

Enter a number...

### Coefficient of Performance (COP) - Cooling Mode

Enter a number...

### Coefficient of Performance (COP) - Heating Mode

Enter a number...

### Economizer Mode Status

- ☐ Enabled & Functioning
- ☐ Enabled & Not Functioning
- ☐ Disabled
- ☐ Not Applicable

### Variable Frequency Drive (VFD) Optimization Status

- ☐ Optimized
- ☐ Requires Review
- ☐ Not Applicable



### Observations & Recommendations for Energy Savings

Write something...

### Date of Last Energy Audit

Enter date...

## Safety & Maintenance Compliance

Ensuring adherence to safety protocols and scheduled maintenance procedures.

### Last Preventative Maintenance Date

Enter date...

### Maintenance Log Review Frequency (Months)

Enter a number...

### Maintenance Performed by (Internal/External)

☐ Internal

☐ External

### Brief Description of Maintenance Performed

Write something...

**Safety Inspection Completed?**

☐ Yes

☐ No

**Last Safety Inspection Date**

Enter date...

**Safety Inspection Findings & Corrective Actions**

Write something...

**Upload Maintenance Records/Certifications**



Upload File