

SERVICE REPORT PREVENTIVE MAINTENANCE
PRECISION AIR CONDITIONING (PAC)
PT. HM SAMPOERNA SUKOREJO PLANT

FORM NO.

Tipe Form PM04

| | | | |
|--------------|--------------|----------------------|------------|
| Lokasi : | Model Unit : | Team Engineer List : | Date : |
| Code unit : | No. Seri : | | Start PM : |
| Nomor Unit : | Periode : | | Close PM : |

CHECKLIST TEAM BRIEFING

INTENSIVE SAFETY BRIEFING TEAM

? OK

? NOT OK

A Filter Section

| Item Checked | Spec. Range / Cond. Std. | Actual Checked | Item Checked | Spec. Range | Actual Checked |
|-----------------------------|--------------------------|----------------|---|----------------|----------------|
| 1. Check/Replace filters | Clean or Dirty | | 5. Clean condensate pan | Clean or Dirty | |
| 2. Grille area unrestricted | OK / Not OK | | 6. Clean trap in condensate drain | Clean or Dirty | |
| 3. Wipe section clean | Clean or Dirty | | 7. Check/Test filter- clog switch operation | Ok or No | |
| 4. Coil clean | Clean or Dirty | | | | |

B Blower Section

| Item Checked | Spec. Range / Cond. Std. | Blower 1 | | Blower 2 | | Blower 3 | | Keterangan |
|--|--------------------------|----------|-------|----------|-------|----------|-------|------------|
| | | Before | After | Before | After | Before | After | |
| 1. Mounting bolts tight | Ok or No | | | | | | | |
| 2. Fan-guard bolts tight | Ok or No | | | | | | | |
| 3. Impeller spins freely | Ok or No | | | | | | | |
| 4. Check/Test air sail switch | Ok or No | | | | | | | |
| 5. Motor amp draw • Compare to nameplate amps | FLA L1 =..... A | L1 | L1 | L1 | L1 | L1 | L1 | |
| | FLA L2 =..... A | L2 | L2 | L2 | L2 | L2 | L2 | |
| | FLA L3 =..... A | L3 | L3 | L3 | L3 | L3 | L3 | |
| 6. Check belt tension and condition | Ok or No | | | | | | | |
| 7. Check sheave/pulley | Ok or No | | | | | | | |

C Reheat

| Item Checked | Spec. Range / Cond. Std. | Heater 1 | | Heater 2 | | Heater 3 | | Keterangan |
|----------------------------|--------------------------|----------|-------|----------|-------|----------|-------|------------|
| | | Before | After | Before | After | Before | After | |
| 1. Reheat amp draw | FLA =..... A | | | | | | | |
| 2. Check Heater Resistance | 18-22 ohm | | | | | | | |
| 3. Inspect elements | Ok or No | | | | | | | |
| 4. Check wire connections | Ok or No | | | | | | | |

| D Steam Generating Humidifier | | | | | | |
|-------------------------------|---|--------------------------|-----------------------------------|---|--------------------------|--------------------------|
| | Item Checked | Spec. Range | Actual Checked | Item Checked | Spec. Range | Actual Checked |
| | 1. Humidifier amp draw | A | | 4. Check condition of steam hose | Ok or No | |
| | 2. Check drain valve/drain lines/trap for damage/clogs/leaks | Ok or No | | 5. Clean strainer | Ok or No | |
| | 3. Check water fill valve and all supply lines/connection for leaks | Ok or No | | 6. Check humidifier bottle (Boiler tank) | Ok or No | |
| | | | | 7. Check operation of humidifier | Ok or No | |
| E Electrical Panel | | | | | | |
| | Item Checked | Spec. Range / Cond. Std. | Actual Checked | | Keterangan | |
| | | | Before | After | | |
| | 1. Check fuses | Ok or No | | | | |
| | 2. Check contactors for pitting (Replace if pitted) | Ok or No | | | | |
| | 3. Check/Re-torque wire connections | Ok or No | | | | |
| | | | Item Checked | Spec. Range / Cond. Std. | Actual Checked | |
| | | | | | Before | After |
| | | | 4. Voltage Line to Neutral Ground | 220 + 10% | L1/L2/L3 = V | L1/L2/L3 = V |
| | | | 5. Voltage Line to Line | 380 + 10% | L1L2/L2L3/L1L3 = V | L1L2/L2L3/L1L3 = V |
| | | | 6. Frequency | 50 + 10% | F = Hz | F = Hz |
| F Controls | | | | | | |
| | Item Checked | Spec. Range / Cond. Std. | Actual Checked | Item Checked | Spec. Range | Actual Checked |
| | 1. Check/Verify control operation | Ok or No | | 3. Check/Test water-detection device | Ok or No | |
| | 2. Check/Test changeover device | Ok or No | | 4. Check/Test CAN connection between indoor and outdoor units | Ok or No | |
| G Refrigeration Piping | | | | | | |
| | Item Checked | Spec. Range | Actual Checked | Item Checked | Spec. Range | Actual Checked |
| | 1. Check refrigerant lines (clamps secure/no rubbing/no leaks) | Ok or No | | 3. Check for restriction temperature drop across filter drier | Ok or No | |
| | 2. Check for moisture (sight glass) | Ok or No | | | | |

| H Compressor Section | | | | | | | | | |
|----------------------|---|--------------------------------|---------|-------|---------|-------|---------|-------|------------|
| | Item Checked | Spec. Range / Cond. Std. | Comp. 1 | | Comp. 2 | | Comp. 3 | | Keterangan |
| | | | Before | After | Before | After | Before | After | |
| | 1. Ampere draw | OA..... A | | | | | | | |
| | 2. Check oil level | 55 - 90 PsiG | | | | | | | |
| | 3. Check for oil leaks | 200 - 300 PsiG | | | | | | | |
| | 4. Check compressor mounts (springs/bushings) | Ok or No | | | | | | | |
| | 5. Cap tubes (not rubbing) | Ok or No | | | | | | | |
| | 6. Check/Re-torque wire connections (inside compressor box) | Ok or No | | | | | | | |
| | 7. Compressor operation (vibration/noise) | Hz dB | | | | | | | |
| | 8. Check crank-case heater fuses/operation | Ok or No | | | | | | | |
| | 9. Check for refrigerant leaks | Ok or No | | | | | | | |
| | 10. Suction pressure Circuit | 55 - 90 PsiG | | | | | | | |
| | 11. Discharge Pressure Circuit | 200 - 300 PsiG | | | | | | | |
| | 12. Superheat Circuit | ?C | | | | | | | |
| | 13. Low-pressure switch cut out Circuit | Ok or No | | | | | | | |
| | 14. Low pressure cut in Circuit | Ok or No | | | | | | | |
| | 15. High pressure cut out Circuit | Ok or No | | | | | | | |
| | 16. Sight Glass | Ok or No | | | | | | | |

| I Condensor Section | | | | | |
|---------------------|--|----------------|--------|-------|------------|
| | Item Checked | Spec. Range | Before | After | Keterangan |
| | 1. Coil clean of debris (Clean coil if required) | Clean or Dirty | | | |
| | 2. Fans free of debris | Clean or Dirty | | | |
| | 3. Fans securely mounted | | | | |
| | 4. Motor bearings in good condition | | | | |

| | | | |
|--|---------------|----------------------|----------------------|
| 5. Check all refrigerant lines for vibration isolation. Support as necessary | Ok or No | | |
| 6. Check for refrigerant leaks | Ok or No | | |
| 7. Check surge-protection device (if installed) status-indicator lights | Ok or No | | |
| 8. Check/Re-torque wire connections | Ok or No | | |
| 9. Check contactors for pitting (replace if pitted) | Ok or No | | |
| 10. Verify operation sequence/set points | | | |
| 11. Charge verification: | | | |
| a. Outdoor Ambient Temperature | | | |
| b. Subcooling | | | |
| c. Indoor-unit Return-air Temperature | | | |
| d. Sight-glass level (if Lee-Temp or pumped refrigerant) | | | |
| 12. Motor amp draw | FLA = A | L1/L2/L3 = Amp | L1/L2/L3 = Amp |

J General Function

| | Item Checked | Spec. Range | Actual Checked | Item Checked | Spec. Range | Actual Checked |
|--|------------------------|-------------|----------------|--------------------------|-------------|----------------|
| | 1. Cooling Test | Ok or No | | 4. Dehumidification Test | Ok or No | |
| | 2. Heating Test | Ok or No | | 5. Alarm Test | Ok or No | |
| | 3. Humidification Test | Ok or No | | | | |

K Room Condition

| | Item Checked | Spec. Range | Actual Checked | Item Checked | Spec. Range | Actual Checked |
|--|----------------|-------------|----------------|--------------|-------------|----------------|
| | 1. Temperature | ?C | | 2. Humidity | % | |

NOTES

Temuan :

Rekomendasi :

RESUME

| | | | |
|-----------------------|----------------------------|---------------------------------|-----------------|
| JOB COMPLETED ? ? YES | | ? NO, please check on NOTES | RUNNING HOURS : |
| APPROVAL SIGNING | | | |
| Approved by ISS, | Verified By Supervisor, | Service By Team Leader/Staf, | |
| (_____) No. HP. | (_____) No. HP. | (_____) No. HP. | |

Keterangan : Lembar 1 untuk Teknisi; Lembar 2 untuk User; Lembar 3 Arsip Kantor