Image not found

FORM NO.

SERVICE REPORT PREVENTIVE **MAINTENANCE**

PRECISION AIR CONDITIONING (PAC) PT. HM SAMPOERNA SUKOREJO

| | PLANI | | 1 1/104 |
|-----------------|-------------|---------------------|-----------|
| Lokasi : | Model Unit: | Team Engineer List: | Date : |
| Code unit: | No. Seri : | | Start PM: |
| Nomor Unit: | Periode : | | Close PM: |
| CHECKLIST TEAL | M BRIEFING | | |
| INTENSIVE SAFET | VRDIFFING | ? OK | 2 NOT OK |

| | P | T. HM SA | | | | AC) | <u> </u> | Tipe Form PM04 |
|---|----------------------------|----------|---------|-------------|-------------------|-------------------|--|-------------------|
| T -1! | | LANT | | Im n | | | ID. | PM04 |
| Lokasi : | Model Unit : No. Seri : | | | Team Eng | ineer List : | | Date : | |
| Nomor Unit : | Periode : | | | + | | | Start PM: Close PM: | |
| II. | | | | 1 | | | 010501111 | |
| CHECKLIST TEAM BRIENTENSIVE SAFETY BRIEN | | | | | | ? OK | 9 | NOT OK |
| TEAM | ring | | | | | . OK | • | NOTOK |
| A Filter Section | | | | | | | | |
| Item Checked | Spec. Range / | Actual | Checked | Item | Checked | Spec. | Ac | tual Checked |
| | Cond. Std. | Clean | | 5 Clean a | ondensate | Range | Clean | |
| 1. Check/Replace filters | Clean or Dirty | Clean | | pan | onuensate | Clean or Dirty | Cican | |
| A G 33 | 077 / 177 - 077 | Ok | | 6. Clean to | rap in | Clean or | Clean | |
| 2. Grille area unrestricted | OK / Not OK | | | condensat | e drain | Dirty | | |
| 3. Wipe section clean | Clean or Dirty | Clean | | 7. Check/ | Test filter- | | Ok | |
| 4. Coil clean | Clean or Dirty | | | clog switch | h operation | Ok or No | | |
| B Blower Section | | | | | | | | |
| Item Checked | Spec. Range / | | wer 1 | | wer 2 | 1 | wer 3 | Keterangan |
| | Cond. Std. | Before | After | Before | After | Before | After | |
| 1. Mounting bolts tight | Ok or No | | ļ | 1 | | ļ | | |
| 2. Fan-guard bolts tight | Ok or No | | | + | | | | |
| 3. Impeller spins freely 4. Check/Test air sail | Ok or No | 1 | | + | | | | |
| switch | Ok or No | | | | | | | |
| 5. Motor amp draw | FLA L1 =···· | L1 | L1 | L1 | L1 | L1 | L1 | |
| Compare to nameplate | A | | | | | | | |
| amps | FLA L2 =···· | L2 | L2 | L2 | L2 | L2 | L2 | |
| | FLA L3 =···· | L3 | L3 | L3 | L3 | L3 | L3 | |
| | A | | | | | | | |
| 6. Check belt tension and | Ok or No | | | | | | | |
| condition | | | | + | | | | |
| 7. Check sheave/pulley C Reheat | Ok or No | | | | | | | |
| | Spec. Range / | Hes | ater 1 | He | ater 2 | He | ater 3 | |
| Item Checked | Cond. Std. | Before | After | Before | After | Before | After | Keterangan |
| 1. Reheat amp draw | FLA =····· | | | | | | | |
| | A | | | | | | | |
| 2. Check Heater | 18-22 ohm | | | | | | | |
| Resistance 3. Inspect elements | Ok or No | | | | | | | |
| | OK OI 110 | | | | | | | |
| 4. Check wire | Ok or No | | | | | | | |
| connections D Steam Generating Hun | l vidifier | | | | | | | |
| | | A -41 | Charles | | I4 Cll | | Spec. | A stood Charles i |
| Item Checked | Spec. Range | Actual | Checked | | Item Check | | Range | Actual Checked |
| 1. Humidifier amp draw | Δ | | | | condition of | f steam | Ok or No | |
| 2. Check drain | A | | | hose | | | | |
| valve/drain lines/trap | Ok or No | | | 5. Clean s | trainer | | Ok or No | |
| fordamage/clogs/leaks | | | | | | | | |
| 3. Check water fill valve | | | | | numidifier l | oottle | Ok or No | |
| and all supply | Ok or No | | | (Boiler | | | OK 01 NO | |
| lines/connection for leaks | OK OI NO | | | tank) | | | | |
| | | | | 7. Check of | peration of | f humidifier | Ok or No | |
| E Electrical Panel | | | | | | | | |
| Item Checked | Spec. Range / | | | | Actual Checked | | | Keterangan |
| | Cond. Std. | | Before | Cite | CRCG | After | | 9 |
| 1. Check fuses | Ok or No | | | | | | | |
| 2. Check contactors for | Ok or No | | | | | | | |
| pitting (Replace if pitted) | | | | | | | | |
| 3. Check/Re-torque wire | 1 | Ī | | | I | | | |

3. Check/Re-torque wire

Ok or No

connections

Image not found

| Ю | Electrical Panel | | | | | | | | |
|---|--|--|-------------------|----------------|---|--|-----------------------|-------------------|-------------------|
| | Item Checked | Spec. Range / | | | | tual | | | Keterangan |
| | | Cond. Std. | Before | | Checked 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- detectiondevice | | 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 | 1 | Item Check | ed | Spec. Range | Actual Checked |
| | 1. Check refrigerant lines (clamps secure/no rubbing/no leaks) | Ok or No | ten | | temperatu | 3. Check for restriction temperature drop across | | Ok or No | |
| | 2. Check for moisture (sight glass) | Ok or No | | | filterdrier | | | | |
| H | Compressor Section | | | | | | | | |
| | Item Checked | Spec. Range / Cond. Std. | Con Before | np. 1 After | | | Comp. 3 Before After | | Keterangan |
| | 1. Ampere draw | OA··· A | | | | | | 12002 | |
| | | | | | 1 | l | | | |
| | 2. Check oil level | 55 - 90 PsiG | | | | | | | |
| | 2. Check oil level 3. Check for oil leaks | 55 - 90 PsiG 200 - 300 PsiG | | | | | | | |
| | | | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts | 200 - 300 PsiG | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) | 200 - 300 PsiG Ok or No | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) | Ok or No Ok or No | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation | Ok or No Ok or No Ok or No Ok or No Hz | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks | Ok or No Ok or No Ok or No | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit | Ok or No | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit | 200 - 300 PsiG Ok or No Ok or No Ok or No Hz dB Ok or No Ok or No 200 - 300 PsiG | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit 12. Superheat Circuit 13. Low-pressure | 200 - 300 PsiG Ok or No Ok or No Ok or No | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressureCircuit 11. Discharge PressureCircuit 12. Superheat Circuit | 200 - 300 PsiG Ok or No Ok or No Ok or No Hz dB Ok or No Ok or No 200 - 300 PsiG | | | | | | | |
| | 3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit 12. Superheat Circuit 13. Low-pressure switchcut out Circuit 14. Low pressure cut | 200 - 300 PsiG Ok or No Ok or No Ok or No Hz dB Ok or No Ok or No 200 - 300 PsiG 200 - 300 PsiG ?C Ok or No Ok or No | | | | | | | |

| | Ι | Condensor Section | | | | |
|---|---|-------------------|-------------|--------|-------|------------|
| I | | Item | Spec. Range | Before | After | Keterangan |
| ı | | Checked | | | | |

Image not found

| 1. Coil clean of debris (Clean coil ifrequired) | | Clean or Dirty | | | | | |
|---|--|--|---|--|---------|--------------------------------|-------------------------|
| | 2. Fans free of debris | | Clean or Dirty | | | | |
| | 3. Fans securely mounted | | | | | | |
| | 4. Motor bearings in good | | | | | | |
| | 5. Check all refrigerant lin | | | | | | |
| | vibration | | Ok or No | | | | |
| | isolation. Support as nece | essary | İ | | | | |
| | 6. Check for refrigerant le | | Ok or No | | | | |
| | 7. Check surge-protection (ifinstalled) status-indicat | n device | Ok or No | | | | |
| | 8. Check/Re-torque wire o | | Ok or No | | | | |
| | 9. Check contactors for pi ifpitted) | | Ok or No | | | | |
| | 10. Verify operation seque | ence/set points | | | | | |
| | 11. Charge verification: | • | | | | | |
| | a. Outdoor Ambient Tem | perature | | | | | |
| | b. Subcooling | permunt | | | | | |
| | c. Indoor-unit Return-air | Temperature | | | | | |
| | d. Sight-glass level (if Lee- | | | | | | |
| $oxed{oxed}$ | orpumped refrigerant) | | | 11/12/12 | T 1/T 2 | 27.2 | |
| | 12. Motor amp draw | | FLA = A | L1/L2/L3 = | | 2/L3 = | |
| | • | | | Amp | | mp | |
| Ą | General Function | | | Allip | 71 | mp | |
| J | General Function | | | | | Spec. | |
| | Item Checked | Spec. Range | Actual | Item Checke | ed | | Actual |
| | | Spect Tuninge | Checked | | | Range | Checked |
| | 1. Cooling Test | Ok or No | Checked | 4. Dehumidification T | est | Ok or No | Checked |
| | 1. Cooling Test 2. Heating Test | Ok or No Ok or No | Checked | 4. Dehumidification T 5. Alarm Test | est | Ü | Checked |
| | 1. Cooling Test 2. Heating Test 3. Humidification Test | Ok or No | Checked | | est | Ok or No | Checked |
| K | 1. Cooling Test 2. Heating Test | Ok or No Ok or No | Checked | | est | Ok or No Ok or No | Checked |
| K | 1. Cooling Test 2. Heating Test 3. Humidification Test | Ok or No Ok or No | Checked Actual Checked | | | Ok or No | Checked Actual Checked |
| K | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition | Ok or No Ok or No Ok or No | Actual | 5. Alarm Test | | Ok or No Ok or No Spec. | Actual |
| K | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked | Ok or No Ok or No Ok or No Spec. Range | Actual Checked | 5. Alarm Test Item Checke 2. Humidity | | Ok or No Ok or No Spec. Range | Actual |
| | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature | Ok or No Ok or No Ok or No Spec. Range | Actual | 5. Alarm Test Item Checke 2. Humidity | | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature | Ok or No Ok or No Ok or No Spec. Range | Actual Checked | 5. Alarm Test Item Checke 2. Humidity | | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT | 5. Alarm Test Item Checke 2. Humidity ES | | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature | Ok or No Ok or No Ok or No Spec. Range | Actual Checked | 5. Alarm Test Item Checke 2. Humidity ES | | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT | 5. Alarm Test Item Checke 2. Humidity ES | ed | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT | 5. Alarm Test Item Checke 2. Humidity ES | ed | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan : comendasi : | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT RESU ? NO, please check on | 5. Alarm Test Item Checke 2. Humidity ES ME NOTES | ed | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan : comendasi : | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT | 5. Alarm Test Item Checke 2. Humidity ES ME A NOTES | ed | Ok or No Ok or No Spec. Range | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan : comendasi : | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT RESU ? NO, please check on | 5. Alarm Test Item Checke 2. Humidity ES ME A NOTES OVAL ING | ed | Ok or No Ok or No Spec. Range% | Actual |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ? | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT RESU ? NO, please check on APPRO SIGNI Verified B | 5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING | ed | Ok or No Ok or No Spec. Range% | Actual Checked |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ? | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT RESU ? NO, please check on APPRO SIGNI | 5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING | ed | Ok or No Ok or No Spec. Range% | Actual Checked |
| Ten | 1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ? | Ok or No Ok or No Ok or No Spec. Range | Actual Checked NOT RESU ? NO, please check on APPRO SIGNI Verified B | 5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING | ed | Ok or No Ok or No Spec. Range% | Actual Checked |

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