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FORM NO.

## SERVICE REPORT PREVENTIVE MAINTENANCE

## PRECISION AIR CONDITIONING (PAC)

			T. HM SA LANT	MPOER	NA SUKC	OREJO		'	Tipe Form PM04
Lokasi :		Model Unit :			Team Engineer List: Date			Date :	
Cod	le unit :	No. Seri : Periode :			]		Start PM: Close PM:		
Nor	nor Unit :								
INT TE						?	OK	?	NOT OK
A	Filter Section  Item Checked	Spec. Range / Cond. Std.	Actual	Checked	Item (	Checked	Spec. Range	Ac	ctual Checked
	1. Check/Replace filters	Clean or Dirty	Clean		5. Clean co	ondensate	Clean or Dirty	Clean	
	2. Grille area unrestricted	OK / Not OK	Ok		6. Clean tr condensat		Clean or Dirty	Clean	
	3. Wipe section clean	Clean or Dirty	Clean		7. Check/I	est filter-	Ok or No	Ok	
	4. Coil clean	Clean or Dirty	Clean		clog switch	n operation	OKOLNO		
В	Blower Section								
	Item Checked	Spec. Range /		wer 1		wer 2		wer 3	Keterangan
		Cond. Std.	Before	After	Before	After	Before	After	Ü
	1. Mounting bolts tight	Ok or No	OK	OK		OK	OK		OK
	2. Fan-guard bolts tight	Ok or No	OK	OK	OK	OK	OK		OK
	3. Impeller spins freely	Ok or No	OK	OK	OK		OK		OK
	4. Check/Test air sail switch	Ok or No	OK	ОК	OK	OK	OK		OK
	5. Motor amp draw	FLA L1 =···· A	L1	L1	L1	L1	L1	L1	1
	• Compare to nameplate amps	FLA L2 =····	L2	L2	L2	L2	L2	L2	1
		FLA L3 =···· A	L3	L3	L3	L3	L3	L3	1
	6. Check belt tension and condition	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	7. Check sheave/pulley	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
C	Reheat								
	Item Checked	Spec. Range / Cond. Std.	Before	After	Before	After	Hea Before	After	Keterangan
	1. Reheat amp draw	FLA =·····	1	1	1	1	1	1	1
	2. Charlettarden	A	1	1	1	1	1	1	1
	2. Check Heater Resistance	18-22 ohm	1	1	1	1	1	1	1
	2. Check Heater Resistance 3. Inspect elements		1 Ok	1 Ok	1 Ok	1 Ok	1 Ok		1 Ok
	Resistance 3. Inspect elements 4. Check wire	18-22 ohm	1 Ok Ok	1 Ok Ok	l Ok Ok	Ok Ok	Ok Ok		l Ok Ok
D	Resistance 3. Inspect elements 4. Check wire connections	18-22 ohm Ok or No Ok or No			1				
D	Resistance 3. Inspect elements 4. Check wire	18-22 ohm Ok or No Ok or No	Ok		Ok		Ok		
D	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw	18-22 ohm Ok or No Ok or No	Ok	Ok	Ok	Ok	Ok <b>ed</b>	Ok Spec.	Ok
D	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked	18-22 ohm Ok or No Ok or No iddifier Spec. Range	Ok	Ok	Ok  4. Check of	Ok  Item Check  condition of	Ok <b>ed</b>	Ok Spec. Range	Ok
D	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap	18-22 ohm Ok or No Ok or No idiffer Spec. Range	Ok	Ok	4. Check chose 5. Clean st	Ok  Item Check  condition of	Ok ed Steam	Spec. Range Ok or No	Ok
D	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply	18-22 ohm Ok or No Ok or No idifier Spec. Range	Ok	Ok	4. Check of hose 5. Clean st 6. Check h (Boiler tank)	Ok  Item Check condition of	ed Steam	Spec. Range Ok or No Ok or No	Ok
	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply	18-22 ohm Ok or No Ok or No idifier Spec. Range	Ok	Ok	4. Check of hose 5. Clean st 6. Check h (Boiler tank)	Ok  Item Check condition of crainer numidifier b	oottle	Spec. Range Ok or No Ok or No	Ok
	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks	18-22 ohm Ok or No Ok or No idifier Spec. Range	Ok	Ok	4. Check of hose 5. Clean st 6. Check h (Boiler tank) 7. Check of Act	Ok  Item Check condition of crainer numidifier b	oottle	Spec. Range Ok or No Ok or No	Ok
	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel Item Checked	18-22 ohm Ok or No Ok or No idiffer Spec. Range	Ok	Ok	4. Check of hose 5. Clean st 6. Check h (Boiler tank) 7. Check of Act	Ok  Item Check condition of crainer numidifier b peration of	oottle	Spec. Range Ok or No Ok or No	Actual Checked
	Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel	18-22 ohm Ok or No Ok or No idiffer Spec. Range	Ok	Ok	4. Check of hose 5. Clean st 6. Check h (Boiler tank) 7. Check of Act	Ok  Item Check condition of crainer numidifier b peration of	oottle	Spec. Range Ok or No Ok or No	Actual Checked

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Ю	Electrical Panel								
	Item Checked	Spec. Range /	Actual						Keterangan
		Cond. Std.		Before	Checked				
	4. Voltage Line to Neutral Ground	220 + 10%			V L1/L2/L3 =		V		
	5. Voltage Line to Line	380 + 10%				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			3. Check for restriction temperature drop across filter drier		Ok or No		
	2. Check for moisture (sight glass)	Ok or No							
H	<b>Compressor Section</b>								
	Item Checked	Spec. Range / Cond. Std.	Con Before	np. 1 After	i -		Cor Before	np. 3 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				

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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 leaks		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/Re-torque wire connections 9. Check contactors for pitting (replace 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 Checked			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