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FORM NO.

SERVICE REPORT PREVENTIVE **MAINTENANCE**

PRECISION AIR CONDITIONING (PAC)

		P'	T. HM SA LANT				- /		Tipe Form PM04
Lok	asi :	Model Unit:	DAIVI		Toom Engi	noor List:		Date :	
_	e unit:	No. Seri :			Team Engineer List:		Start PM:		
	nor Unit :	Periode :			1		Close PM:		
	ECKLIST TEAM BRIE				0	OK	0	NOTOK	
INTENSIVE SAFETY BRIEFING TEAM						1	OK	1	NOT OK
	Filter Section								
71	Item Checked	Spec. Range / Cond. Std.	Actual	Checked	Item (Checked	Spec. Range	A	ctual Checked
	1. Check/Replace filters	Clean or Dirty	Clean		5. Clean co pan	ondensate	Clean or Dirty	Clean	
	2. Grille area unrestricted	OK / Not OK	Ok		6. Clean tr condensate		Clean or Dirty	Clean	
	3. Wipe section clean	Clean or Dirty	Clean		7. Check/I	est filter-		Ok	
	4. Coil clean	Clean or Dirty			clog switch	operation	Ok or No		
В	Blower Section	Ţ			- 55 tem operation		'		
	Item Checked	Spec. Range /	Blower 1		Blower 2		Blower 3		Votamanaan
	Item Checked	Cond. Std.	Before	After	Before	After	Before	After	Keterangan
	1. Mounting bolts tight	Ok or No	OK	OK	OK	OK	OK	OK	OK
	2. Fan-guard bolts tight	Ok or No	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	OK
	5. Motor amp draw	FLA L1 =····	L1	L1	L1	L1	L1	L1	1
	• Compare to nameplate amps	FLA L2 =····	L2	L2	L2	L2	L2	L2	1
		FLA L3 =····	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		Heater 1				Hes	ater 3	** .
С		Spec. Range /	Hea	iter I	Hea	iter 2	1100	1001 5	
С	Item Checked	Spec. Range / Cond. Std.	Hea Before	After	Hea Before	ter 2 After	Before	After	Keterangan
C	Item Checked 1. Reheat amp draw				Before	After			Keterangan
C	Item Checked 1. Reheat amp draw 2. Check Heater Resistance	Cond. Std. FLA = A 18-22 ohm	Before 1	After 1	Before 1	After 1	Before 1	After 1	1
C	Item Checked 1. Reheat amp draw 2. Check Heater	Cond. Std. FLA = A	Before 1 Ok	After 1 1 Ok	Before 1 1 Ok	After 1 Ok	Before 1 Ok	After 1 Ok	1 1 Ok
C	Item Checked 1. Reheat amp draw 2. Check Heater Resistance	Cond. Std. FLA = A 18-22 ohm	Before 1	After 1	Before 1 1 Ok	After 1	Before 1	After 1 Ok	1
	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Before 1 Ok	After 1 1 Ok	Before 1 1 Ok	After 1 Ok	Before 1 Ok	After 1 Ok	1 1 Ok
	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No	Before 1 1 Ok Ok	After 1 1 Ok Ok	Before 1 1 Ok Ok	After 1 1 Ok Ok	Before 1 1 Ok Ok	After 1 Ok Ok Spec.	1 1 Ok Ok
	Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 1 Ok Ok	After 1 Ok	Before 1 Ok Ok	After 1 1 Ok Ok Ok	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec. Range	1 Ok Ok Actual Checked
	Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No	Before 1 Ok Ok Actual	After 1 1 Ok Ok	Before 1 Ok Ok	After 1 1 Ok Ok	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec.	1 Ok Ok Ok Clean
	Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 1 Ok Ok	After 1 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of	After 1 1 Ok Ok Ok Other Check Condition of	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec. Range	1 Ok Ok Ok Clean Clean
	Item Checked 1. Reheat amp draw 2. Check Heater 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	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. RangeA	Before 1 Ok Ok Actual	After 1 1 Ok Ok	Before 1 Ok Ok Ok 4. Check o hose 5. Clean st	After 1 1 Ok Ok Ok Other Check Condition of	Before 1 1 Ok Ok Steam	After 1 Ok Ok Spec. Range Ok or No	1 1 Ok Ok Ok Clean Clean Clean
	Item Checked 1. Reheat amp draw 2. Check Heater 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	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range A Ok or No	Before 1 1 Ok Ok Actual 1	After 1 1 Ok Ok	Before 1 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok condition of	Before 1 1 Ok Ok Ok ed steam	After 1 Ok Ok Spec. Range Ok or No Ok or No	1 Ok Ok Ok Actual Checked Clean Clean Clean
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D	Item Checked 1. Reheat amp draw 2. Check Heater 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	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 1 Ok Ok Actual 1	After 1 1 Ok Ok	Before 1 1 Ok Ok Ok 4. Check o hose 5. Clean st (Boiler tank) 7. Check o	After 1 Ok Ok Ok Item Check condition of rainer umidifier b	Before 1 1 Ok Ok Ok ed steam	After 1 Ok Ok Spec. Range Ok or No Ok or No	1 Ok Ok Ok Actual Checked Clean Clean Clean
D	Item Checked 1. Reheat amp draw 2. Check Heater 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 1. Check fuses	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range A Ok or No Ok or No	Before 1 1 Ok Ok Actual 1	After 1 Ok Ok Checked	Before 1 1 Ok Ok Ok 4. Check o hose 5. Clean st (Boiler tank) 7. Check o	After 1 Ok Ok Ok Item Check condition of rainer umidifier b	Before 1 1 Ok Ok ok ed steam ottle	After 1 Ok Ok Spec. Range Ok or No Ok or No	1 Ok Ok Ok Actual Checked Clean Clean Clean
D	Item Checked 1. Reheat amp draw 2. Check Heater 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	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 1 Ok Ok Actual 1	After 1 Ok Ok Checked	Before 1 1 Ok Ok Ok 4. Check o hose 5. Clean st (Boiler tank) 7. Check o	After 1 Ok Ok Ok Item Check condition of rainer umidifier b	Before 1 1 Ok Ok ok ed steam ottle	After 1 Ok Ok Spec. Range Ok or No Ok or No	1 Ok Ok Ok Actual Checked Clean Clean Clean

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Ю	Electrical Panel								
	Item Checked	Spec. Range /	Actual Chacked						Keterangan
		Cond. Std.		Before	Checked				
	4. Voltage Line to Neutral Ground	220 + 10%			V			V	
	5. Voltage Line to Line	380 + 10%			L1L2/L2L3/L1L3 =V		•		
	6. Frequency	50 + 10%	F =		Hz	F =		Hz	
F	Controls		1 -						
	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 filterdrier		Ok or No		
	2. Check for moisture (sight glass)	Ok or No							
H	Compressor Section								
	Item Checked	Spec. Range / Cond. Std.	Con Before	np. 1 After			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 =	
	•					 mp	
Ą	General Function			Amp	71	mp	
J	General Function					Spec.	
	Item Checked Spec. Range		Actual	Item Checked			Actual
		Speet 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