

UNITARY DEHUMIDIFIER START-UP REPORT

Revision Number

7.0

Last Review Date

May-27-2025

USE THIS REPORT FOR EQUIPMENT MODEL NUMBERS BEGINNING WITH DS, PCP OR NE ONLY

START-UP DATE (MM/DD/YYYY)		PROJECT NAME	
UNIT SERIAL #		UNIT MODEL #	
PROJECT STREET ADDRESS		CITY	
STATE/PROVINCE	ZIP/POSTAL CODE	CERTIFICATION NUMBER	
TECHNICIAN NAME		STARTUP TECHNICIAN COMPANY NAME	



READ FOLLOWING WARNINGS BEFORE PROCEEDING WITH START-UP!

- ✓ Read all dehumidifier documentation (IM, OMM, Warranty Policies, etc.) and Start-Up Procedure carefully before attempting the Start-Up. The Start-Up must be performed by a qualified HVAC/R professional only!
- ✓ Complete this startup report as outlined within the Unitary Dehumidifier Startup Guide.
- ✓ Power must be turned on (to allow crankcase heater to warm up the compressor) 24hrs prior to Start-Up
- ✓ The Start-Up Report must be digitally filled out and sent to Warranty@dehumidifiedairservices.com along with all accompanying documents and pictures within two weeks after completion of the Start-Up – otherwise the dehumidifier warranty may be void!
- ✓ Fill out the Start-Up report completely (including all applicable inspections, data, pictures, additional information etc.)! Incomplete Start-Up reports will be rejected/returned for completion.

Section A - Installation Checklist

	ITEM	YES	NO	N/A	COMMENTS/DATA
A1	Any Shipping or other damage- If YES specify				
A2	Indicate dehumidifier installation location - Check one				
	Mechanical room, floor mounted				
	Mechanical room, suspended				
	Outdoor rooftop				
	Outdoor ground level				
	Other- If YES specify				
A3	Unit and ductwork cleared of debris				
A4	Disconnect installed for dehumidifier				
A5	Adequate service access to disconnect and dehumidifier				
A6	Condensate P-trap installed and tested				
A7	Ductwork connected, sealed, and insulated at dehumidifier				
A8	Outdoor air duct connected to OA collar				

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ITEM	YES	NO	N/A	COMMENTS/DATA
A9				Flex/canvas connectors used at all duct connections
A10				Exhaust fan serving natatorium is installed and operating
A11				Pool water piping connected to dehumidifier
A12				Note pool water treatment type (salt, chlorine, etc.)
A13				Pool bonding loop connected to dehumidifier bonding lug
A14				Test and Balance completed
A15				Obtain Pictures of dehumidifier and mechanical room
				PICTURES MUST BE SUBMITTED WITH REPORT

Section B - Mechanical Room and Natatorium Inspection

ITEM	YES	NO	N/A	COMMENTS/DATA
B1				Chemicals stored in dehumidifier mechanical room
B2				Ductwork, registers, and diffusers installed in natatorium
B3				Supply air short cycling into return duct
B4				Supply air is blowing on all exterior doors and windows
B5				Construction substantially completed- All doors and windows installed, and natatorium cleaned
B6				Pool filled and heated to at least 75 deg F.
B7				Mechanical room is ventilated
B8				Indicate any other noteworthy items regarding the mechanical room or unit location
B9				Obtain pictures of the natatorium and mechanical room
				PICTURES MUST BE SUBMITTED WITH REPORT

Section C - OACC (Condenser) Installation

ITEM	YES	NO	N/A	COMMENTS/DATA
C1				Is an OACC installed- If NO skip remainder of section C
C2				OACC installation location- Check one
				Packaged
				Ground level
				Roof
				Other- If YES , Specify
C3				Elevation difference- Check one
				OACC above dehumidifier
				_____ Feet of Elevation Difference

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ITEM	YES	NO	N/A	COMMENTS/DATA
C4				
C5				____Feet (Circuit 1), ____Feet (Circuit 2)
C6				Discharge Line____Liquid Line_____.
C7				C1 Dis-____C1 Liq-____C2 Dis-____C2 Liq-_____.
C8				
C9				C1-____LB____OZ C2-____LB____OZ
C10				C1-____LB____OZ C2-____LB____OZ
C11				
C12				
C13				
C14				
C15				
C16				
C17				
C18				PICTURES MUST BE SUBMITTED WITH REPORT

Section D - OAFC (Fluid Cooler) Installation

ITEM	YES	NO	N/A	COMMENTS/DATA
D1				
D2				
D3				____Feet

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	ITEM	YES	NO	N/A	COMMENTS/DATA
D4	Indicate one-way fluid pipe length (Linear)				_____ Feet
D5	Nameplate fluid loop pipe size				
D6	Fluid loop Pipe size installed				
D7	Fluid loop filled with glycol- Indicate glycol % and type				
D8	OAFC is level and vibration isolated				
D9	Disconnect is installed for OAFC				
D10	Adequate clearance for airflow and service access				
D11	Control wiring is installed properly				
D12	Main power connected and voltage verified				
D13	Indicate any other noteworthy items with the lineset or OAFC				
D14	Pictures obtained of OAFC				PICTURES MUST BE SUBMITTED WITH REPORT

Section E - Third Party Condenser Loop

	ITEM	YES	NO	N/A	COMMENTS/DATA
E1	Is dehumidifier connected to a third-party condenser loop- If NO , skip remainder of Section E				
E2	Indicate condenser loop type - Check one				
	Chilled water				
	Geothermal loop				
	Open loop cooling tower				
	Closed loop cooling tower				
	Other- IF YES, specify				
E3	Indicate fluid type- Check one				
	Glycol				
	Treated water				
E4	Strainer is installed				
E5	Field installed head pressure control valve installed				
E6	Fluid loop temperature setpoint (Winter/Summer)				Winter-_____Summer-_____.

Section F - Component Checklist

	ITEM	YES	NO	N/A	COMMENTS/DATA
F1	Rotation and operation verified for all fans				

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	ITEM	YES	NO	N/A	COMMENTS/DATA
F2	Operation of all two position actuators verified				
F3	Operation of all modulating actuators verified				
F4	All hose clamps tightened				
F5	All refrigerant solenoid and service valves fully back seated, and refrigerant ball valves opened				
F6	Modulating refrigerant valve rotation direction verified				
F7	All door latches adjusted- outdoor equipment only				

Section G - Electrical Checklist

	ITEM	YES	NO	N/A	COMMENTS/DATA
G1	All electrical connections verified and tightened				
G2	Voltage monitor settings verified				
G3	Power supply is within 10% of nameplate rated voltage				
G4	Transformer(s) secondary voltage verified				
G5	Crankcase heater(s) operation verified				
G6	Model and serial numbers recorded for all compressors				

Section H - Controls Checklist

	ITEM	YES	NO	N/A	COMMENTS/DATA
H1	CORELink activated- Must email Support to activate SIM				
H2	Unit is communicating with WebSentry				
H3	All HMI touchscreens are functioning				
H4	Software settings confirmed				
H5	All sensors calibrated				
H6	All inputs/outputs configured				
H7	Is Aux pool heater interlocked with dehumidifier				
H8	Is unit connected to a BMS network				
H9	Is unit connected to a lead/lag network				
	List serial numbers of all units in network				
	Identify master unit of network				
H10	List all other external systems interlocked with the unit and terminals they are connected to - Use Notes section				
H11	All boards configured as commissioned and applicable components enabled				

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Electrical Voltage Data

EQUIPMENT VOLTAGE		N/A	NAMEPLATE VOLTAGE	VOLTS L1-L2	VOLTS L1-L3	VOLTS L2-L3
Main power supply	Dehumidifier					
	OACC/OAFC					
Control Voltage	Record control voltage for each board under the Board/Core/Software Information section					

Electrical Amperage Data

COMPONENT	COMPONENT MODEL/SERIAL NUMBER	N/A	NAMEPLATE AMPERAGE	AMPS L1	AMPS L2	AMPS L3
Compressor(s) Amps (Record amperage in high stage for 2-stage compressors)	#1 Model #					
	Serial #					
	#2 Model #					
	Serial #					
Main Blower(s) Amps	#1					
	#2					
	#3					
	#4					
Exhaust Blower(s) Amps (Exhaust 1)	#1					
	#2					
	#3					
	#4					
Blower(s) Amps (Exhaust 2)	#1					
	#2					
	#3					
	#4					
OACC/OAFC Motor(s) Amps (Use Notes section if more than 4 fans are installed)	#1					
	#2					
	#3					
	#4					
Electric Heater Amps	Stg 1					
	Stg 2/100%					

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Pump Operating Data

COMPONENT		OPERATING PSI (Inlet PSI/Outlet PSI)	N/A	NAMEPLATE AMPERAGE	AMPS L1	AMPS L2	AMPS L3	SPECIFY TYPE IF OTHER
Pump(s) Amps And Pressures (PSI)	Fluid Cooler Loop	/						
	Heat Recovery Loop	/						
	Other	/						
	Other	/						

Voltage Monitor Settings

SETTINGS IN VOLTAGE MONITOR					
Voltage Monitor Settings (Refer to QA-0233-R-EN Voltage Monitor Settings)	Line Voltage (match nameplate)	Over % (10%)	Under % (10%)	Delay (5)	Phase Imbalance (3%)

Gas/Electric Heater Information

MODEL NUMBER (Gas and electric heaters only)	SERIAL NUMBER (Gas and electric heaters only)
Heater Manufacturer -	
#1	
#2	
#3	
#4	
#5	
#6	
Record heater manufacturer. Record model and serial number for each heater installed. Use the Notes section if more than 6 heaters are installed.	

Heater Operational Data

N/A	HEAT OUTPUT	TEMPERATURE	
		RETURN	SUPPLY
Staged Control*			
	Stage 1		
	Stage 1+ Stage 2		
Modulated Control**			
	30%		
	60%		
	100%		
* Staged heat- record return and supply air temperature with only one stage enabled, then with both stages enabled. ** Modulating heat- record supply and return temperatures at each heating command indicated.			

External Static Pressure

DUCT	STATIC PRESSURE	DUCT	STATIC PRESSURE
Return		Outside Air 1 (OA1)	
Supply		Exhaust 1 (EF1)	
External static pressure readings must be taken external to the unit from their respective duct, NOT from inside the dehumidifier. Return, Supply, Outside Air 1 and Exhaust 1 readings should be taken with the blower, OA and EF commanded to their occupied mode settings. Outside air and Exhaust readings are only needed when they are ducted (not equipped with hoods).			

Blower*			Outside Air*		Exhaust*		COMPRESSOR CIRCUIT OPERATIONAL DATA									
							REHEAT (RH)		AC		REHEAT+AC		RH+POOL HEAT		AC+ POOL HEAT	
Pool (if equipped) **							Off/0%		Off/0%		Off/0%		On/100%		On/50%	
Reheat**							On/100%		Off/0%		On/50%		On/50%		Off/0%	
AC**							Off		On		On		Off/0%		On	
Stage***							LOW		HIGH		LOW		HIGH		HIGH	
N/A	Return Air Temperature ****	°F														
	Return Air Relative Humidity	%														
	Pool 1 In Temperature	°F														
	Pool 1 Out Temperature	°F														
	Pool 2 In Temperature	°F														
	Pool 2 Out Temperature	°F														
	Supply Air Temperature	°F														
	Outdoor Air Temperature	°F														
	Exhaust Air Temperature	°F														
	High Pressure- Circuit 1	psi														
	Low Pressure- Circuit 1	psi														
	Superheat- Circuit 1 (15-25 deg)	°F														
	Suction Temperature- Circuit 1	°F														
	Discharge Temperature- Circuit 1	°F														
	Air Off Evap. Temp.- Circuit 1	°F														
	High Pressure- Circuit 2	psi														
	Low Pressure- Circuit 2	psi														
	Superheat- Circuit 2 (15-25deg)	°F														
	Suction Temperature- Circuit 2	°F														
	Discharge Temperature- Circuit 2	°F														
	Air Off Evap. Temp.- Circuit 2	°F														
N/A	Circuit		Liquid Line Sight Glass Is Clear (Indicate YES or NO for each mode) *****													
	Circ. 1 Liquid Line Sight Glass is Clear*****															
	Circ. 2 Liquid Line Sight Glass is Clear*****															
N/A	Receiver Sight Glass		Receiver Refrigerant Level (Indicate UP or DOWN in each mode) *****													
	Circuit 1, Top Sight Glass*****															
	Circuit 1, Bottom Sight Glass*****															
	Circuit 2, Top Sight Glass*****															
	Circuit 2, Bottom Sight Glass*****															

*Record ventilation commands at which operational data was recorded under. **Obtain each mode by enabling the Pool, reheat and AC valves as indicated in that column. *** Low stage applies only to units with two stage compressors. When equipped with single stage compressor, record operational data in the High column only. **** Return air temperature must be at least 78 deg for single stage compressor units, and above 70 deg for two stage compressor units. *****Indicate if liquid line sight glass shows a full column of liquid refrigerant being supplied to the expansion valve in each mode of operation. *****Indicate refrigerant level in each receiver sight glass for each mode of operation. **Reference Unitary Start-up guide for more detailed instructions.**

Board/Core/Software Information

BOARD	ITEM	DATA			BOARD	ITEM	DATA		
#1	AC Board Power*		DC Board Power*		#2	AC Board Power*		DC Board Power*	
	MAC Address					MAC Address			
	Software Version					Software Version			
	Server IP Address (WebSentry)				#3	AC Board Power*		DC Board Power*	
	IP Address (BMS)					MAC Address			
*V9 Boards- Record AC power from J1-3 and J1-4, and DC power from J1- 1 and J1-2. V8 Boards- Record AC power from terminals J1-1 and J1-2, and DC power from J8-1 and J8-2. The board version is printed near center of board.				Software Version					

Setpoints

N/A	SETPOINT	OCCUPIED	UNOCCUPIED
	Room Temperature (Degrees Fahrenheit)		
	Humidity (% RH)		
	Pool 1 (Degrees Fahrenheit)		
	POOL 2 (Degrees Fahrenheit)		

Owner Training

TRAINING	YES	NO
Owner training provided? If no, Explain.		

NOTES/COMMENTS

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Contact Information:

Email startup report and pictures to Warranty@dehumidifiedairservices.com within 2-weeks of completion. For general assistance- please contact Service Customer Support Team. For additional information visit www.dehumidifiedairservices.com

Phone:

1.833.DAS.POOL (1.833.327.7665)

E-mail:

To Request Factory Startup:

Scheduling@dehumidifiedairservices.com

Miscellaneous Inquiries:

Support@dehumidifiedairservices.com

Parts Requests:

Parts@dehumidifiedairservices.com

Warranty:

Warranty@dehumidifiedairservices.com