

AIR HANDLING UNITS

START-UP CHECKLIST Supersedes: 100.00-CL1 (309)

Form 100.00-CL1 (909)

AIR HANDLER START-UP CHECKLIST

OFFICE LOCATION	UNIT TAG #		
QUALIFIED TECHNICIAN	UNIT MODEL#		
JOB NAME	UNIT SERIAL #		
YORK JOB ID OR CONTRACT #	START DATE		
JOB SITE LOCATION			
JOB SITE CONTACT AND PHONE #			

IMPORTANT SAFETY REQUIREMENT: FOLLOW THE LATEST"LOCK OUT TAG OUT" PROCEDURE.

PRE START-UP

GENERAL UNIT INSPECTION

setscrews, bolts and nuts.

isolation.

□ Sheaves properly aligned and tight on shaft.

Belt tension adjusted properly per drive pkg. label on fan.

Check fan alignment with unit discharge. Adjust with

Identify and perform appropriate "lock out/tag out" and safety rules. For details on points below see appropriate section of the Installation Instruction provided with each air handler.

For VFD equipped air handlers, refer to the VFD forms for additional requirements.



Serious damage to the AHU and/ or system is eminent if the AHU is operated under any of the following conditions:

- Without proper control of dampers.
- With smoke dampers closed.
- During a fire alarm or smoke purge test.
- Any airflow restriction greater than normal.

 Check fan base isolators and thrust restraints for proper adjustment. Note: Do not remove functional bolts

☐ Fan bearings have been re-lubricated properly.

from seismic isolators.

Soluti	on AH Units Form 102.20-NOM1	Air Modulator VFD Form 100.41-NO1				
Custo	m AH Units Form 100.31-NOM1					
	Equipment received as ordered.	□ Verify all ductwork is complete and available for full air flow.				
	Unit checked for damage to interior and exterior.	☐ Unit installed with proper clearances.				
	Unit installed on flat and level surface. Outdoor unit mounted within roof slope limitations where applicable.	□ Visually inspect roof curb for tight seal around unit.				
	Terminal screws and wiring connections secure in control, electric and Air Modulator panels.	□ Clean air filters installed properly and secured.				
	Air hoods installed properly.	□ Filter gauge set to zero.				
	Condensate drain properly trapped.	□ All field wiring complete and inspected.				
	All wiring and tubing connections made at shipping splits.	□ All shipping splits sealed and secured properly.				
	All field piping connections complete.	□ Pipe chase floor sealed at penetrations.				
	All shipped loose parts installed.	 All shipping bolts and other material have been removed. (Fan, VIFB, Energy Recovery Wheel, Damper). 				
	Installer has cleaned out interior.	□ Damper linkage is tight and in correct "power off" position.				
	Verify all plug-ins and wire connections are tight on UV equipment.	□ Controls installation complete.				
	Verify Energy Recovery Wheel turns freely and wheel segments are fully engaged.	□ Verify correct piping of split system. Reference Section 2 of Solution IOM & Split System Application Guide (050.40-ES3).				
FAN	INSPECTION					
	Check bearings and locking collars for properly tightened	□ Fan wheel properly aligned, tight on shaft and freely				

START-UP

PERFORM THE FOLLOWING STEPS IN ORDER:

Refer to safety standards. Ensure all door latches are secured before starting.

1. With all Electric Power fuses removed, check ground observing no or a second control of the control of	with an Ohm meter to		□ 8. Immediately check current draw of each leg of each motor.				
□ 2. Energize power to the unit disconnect switch.				□ 9. VFD, refer to manufactures start up guide			
□ 3. Verify correct voltage, phase and cycles.				□ 10. Check doors and latches for air leaks.			
 4. Energize fan motor(s) briefly (bump) and check for correct fan rotation. 				□ 11. Check for obvious audible leaks.			
 5. Check operation of da all dampers closed. 	re unit will not operate	with	□ 12. Apply steam to cold coils slowly to prevent damage.				
☐ 6. Energize fan motor(s).	n(s) for smooth operati	ion.	□ 13. Observe energy recovery wheel rotation.				
□ 7. Check motor namepla	te Full Load	Amp rating.					
RECORD DATA							
POWER SUPPLY:	Unit Nam	eplate V PH	_ CYC,	Verify	V/		
DATA	SUPPLY FA	AN MOTOR			EXHAUST/RETU	JRN FAN MOTOR	
Nameplate	Volts	Amps			Volts	Amps	
Run Amps						/	
Catalog Number							
Spec Number							
Horse Power							
RPM	Actual		Nameplate	Actual			
Frame size							
Service Factor							
Jump (Skip) Frequencies					/		
	SUPPLY F	AN			EXHAUST/RETU	JRN FAN	
Manufacture Name							
Type or Model Number							
Code or Shop Order Number							
Serial Number							
	SUPPLY FAN DRIVE KIT				EXHAUST/RETURN FAN DRIVE KIT		
Belts (Qty & ID#)							
Belt Tension		Actual				Actual	
Fan RPM (DN)	Tag	Actual			Tag	Actual	
OTHER UTILITIES							
Steam Pressure		Heating CoilsF	PSI,		Humidifier	PSI	
Hot Water Pressure/Temp.		SupplyF	PSI,	°F,	Return	PSI,°F	
Chilled Water Pressure/Temp	0.	SupplyF	PSI,	°F,	Return	PSI,°F	
Potable Water Pressure		F	PSI,	Pne	eumatic Air Pressure	PSI	
MAINTENANCE							
Upon completion of start	un the oust	omer accumes respe	ongibilit	y for periodia	maintenance of th	is aguinment in order to	
continue warranty. Refer							
Customer's agent signature: Date:							

