YORK®	PACKAGED ROOFTOP AIR CONDITIONING UNITS	
START-UP CHECKLIST	Supersedes 100.50-CL1 (705)	Form 100.50-CL1 (905)

035-13463-000

ECO² PACKAGED ROOFTOP START-UP CHECKLIST

OFFICE LOCATION _____	YORK CONTRACT NO. _____
TECHNICIAN'S NAME _____	UNIT MODEL NUMBER _____
JOB NAME _____	UNIT SERIAL NUMBER _____
START DATE _____	SOFTWARE (APPLICATION) REV. _____
COMPRESSOR # 1 SERIAL NO. _____	COMPRESSOR # 2 SERIAL NO. _____
COMPRESSOR # 3 SERIAL NO. _____	COMPRESSOR # 4 SERIAL NO. _____
COMPRESSOR # 5 SERIAL NO. _____	COMPRESSOR # 6 SERIAL NO. _____

PRE START-UP

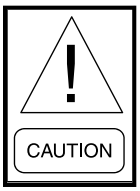
GENERAL UNIT INSPECTION	* IOM REFERENCE: (SECTION – Heading)
❑ Unit checked for shipping damage	INSTALLATION – Unit Inspection
❑ Unit installed with proper clearances	INSTALLATION – Location and Clearances
❑ Unit within slope limitations	INSTALLATION – Location and Clearances
❑ Refrigeration system check presence of oil (gross leaks)	START-UP – Unit Checks
❑ Terminal screws and wiring connections tightened in control panel	START-UP – Unit Checks
❑ Clean air filters installed	INSTALLATION – Filters
❑ Economizer hoods installed properly	INSTALLATION – Airhoods for Economizers
❑ Condensate drain properly trapped	INSTALLATION – Condensate Drain
❑ VAV heat relay signal to VAV boxes wired (VAV only)	INSTALLATION – VAV Heat Relay Output
❑ Return air bypass damper field wired (Flexsys option)	INSTALLATION – Return Air Bypass Actuator
❑ All field wiring complete and inspected	INSTALLATION – Field Wiring, Power Wiring

FAN INSPECTION	* IOM REFERENCE: (SECTION – Heading)
❑ Sheaves properly aligned and tight on shaft - Fan wheels tight on shaft	MAINTENANCE – Sheave Alignment
❑ Belt tension adjusted properly	MAINTENANCE – Belt Tensioning
❑ Bearings greased – Set screws torque checked	MAINTENANCE – Fan Bearing Lubrication / Fan Shaft Bearings
❑ Static Pressure Probe installed on outside of unit (VAV & Modulating Power Exhaust)	INSTALLATION – Static Pressure Probe Installation
❑ Transducer pneumatic tubing installed for duct static and building pressure transducers	INSTALLATION – Static Pressure Control Tubing
❑ Verify proper fan rotation	START-UP – Fan Rotation

* Installation, Operation & Maintenance Manual – Form 100.50-NOM1

PRE START-UP (CONTINUED)

COMPRESSOR OPERATION	*** IOM REFERENCE:** (SECTION – Heading)
❑ Verify correct compressor rotation	START-UP – Verifying Compressor Rotation



Scroll compressors will only pump in one direction and MUST be properly phased. To insure proper rotation, observe discharge and suction pressure when the compressor starts. If the compressor is phased correctly, the discharge pressure will increase and the suction pressure will decrease. If this does not occur, phasing of the power supply must be verified.

* Installation, Operation & Maintenance Manual - 106-130 Ton, Mod E – Form 100.50-NOM3
- 50-105 Ton, Mod D – Form 100.50-NOM4

UNIT SETPOINTS	**REFERENCE:**
❑ Verify unit setup per Quick-Start Guide, 50 - 130 Ton Units	Form 100.50-SU1

COMMENTS:

POST START-UP

ELECTRICAL DATA

	NAMEPLATE	ACTUAL
SUPPLY VOLTAGES	_____ _____ _____	_____ _____ _____
CONTROL VOLTAGES	N/A	_____
SUPPLY FAN AMPS	_____ _____ _____	_____ _____ _____
EXHAUST FAN AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 1 AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 2 AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 3 AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 4 AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 5 AMPS	_____ _____ _____	_____ _____ _____
CONDENSER FAN 6 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 1 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 2 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 3 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 4 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 5 AMPS	_____ _____ _____	_____ _____ _____
COMPRESSOR 6 AMPS	_____ _____ _____	_____ _____ _____
AIRFLOW CFM (DESIGN)	_____	_____
AIRFLOW CFM – VAV MIN DESIGN	_____	_____

COMMENTS:

POST START-UP (CONTINUED)

REFRIGERANT CIRCUITS

	VALUE		
SYSTEM 1 SUBCOOLING		LIQUID PRESSURE:	
		LIQUID TEMPERATURE:	
SYSTEM 2 SUBCOOLING		LIQUID PRESSURE:	
		LIQUID TEMPERATURE:	
SYSTEM 3 SUBCOOLING		LIQUID PRESSURE:	
		LIQUID TEMPERATURE:	
SYSTEM 1 SUPERHEAT		SUC PRESSURE:	
		SUC TEMPERATURE:	
SYSTEM 2 SUPERHEAT		SUC PRESSURE:	
		SUC TEMPERATURE:	
SYSTEM 3 SUPERHEAT		SUC PRESSURE:	
		SUC TEMPERATURE:	
COMP. SIGHT GLASS LEVEL	**SYSTEM 1** **A** _____ **B** _____	**SYSTEM 2** **A** _____ **B** _____	**SYSTEM 3** **A** _____ **B** _____
OUTSIDE AIR TEMPERATURE			
SUPPLY AIR TEMPERATURE			
RETURN AIR TEMPERATURE			
MIXED AIR TEMP TO EVAP COIL			
HOT GAS BYPASS OPERATION/SETTING	**OPERATION VERIFIED** ❑	**SETTING** _____ PSIG	

COMMENTS:

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Form 100.50-CL1 (905)
Replaces 100.50-CL1 (705)