

12"In Row

Commissioning Checklist

2 IR-CL 2012

Commissioning

WARNING!



Do not run this equipment for longer than 6 hours, or use this equipment for regular operation, in the absence of a heat load for which the system is designed. Failure to comply with these instructions, or failure to follow the steps in this manual will void the manufacturer's warranty and may damage the equipment, or result in a reduced operating life of some components, leading to early equipment failure.

For machines with 410A refrigerant use manifold sets range up to 800 psig on the high side and 250 psig on the low side with a 250psig low side retard. *VM



Before switching on the unit, the following checklist should be completed by ClimateWorx authorized personnel only. Failure to do so may damage the unit and void warranty.

Model no.	:	Serial no.	:
Client	:		
Location	:	Unit no.	:
Tested by	:	Date	:

General



Switch off main power isolator and all branch circuit breakers/fuses.

SWIU	on than power isolator and an oranch chedit ofeakers/fuses.
	Remove all transit bolts and fixtures.
	Check for smooth rotation of all fan blades.
	Check drain pipe connected and fitted with 100mm minimum air trap.
	Verify water flows away freely from drain pipe.
	Check air filter fitted and direction of airflow pointing into the unit.
	Check all electrical connections are tight.
	Check main power and interconnecting control wires installed are suitably sized to cope with the imposed load marked on the unit serial plate.
	Verify any short circuit in power branch circuits and control transformer circuits.

Check supply voltage within \pm 10% of the values marked in the unit serial plate.

IR-CL 2012 3

		Record supply voltage:	L1 - :	_ V		
			L2 - :	_ V		
The fans will start after the following procedure. Make sure the Switch on the control transformer and fan circuit breakers, and				akers, and powe	er up the unit. T	he unit is
	factory programmed to automatic startup when power applied. Manually turn on the necessary.					
		Record the input and output voltage of transformers :				
		Transformer TX1 -	Primary	:	V	_ A
			Secondary tappin	g 1 :	V	_ A
			Secondary tapping	g 2 :	V	_ A
		Check that all fans are ope	erating simultaneous	sly		
Chilled water ci	rcuit					
	Switch off main isolator and all branch circuit breakers/fuses.					
(<u>%_</u> 2)		Check chilled water supply pipe fitted and direction of water flow correct.				
		Check for any sign of water	er leak.			
		Check air purged from the cooling coil.				
		Check valve manual overr	ride operation.			
Air-cooled cond	lense	er				
	Make	Make sure the main isolator on the condenser power box is switched off.				
<u>(x'.</u>)	Check that condenser fans rotate freely.					
		Check supply voltage within \pm 10% of the values marked in the unit serial plate.			ate.	
		Record supply voltage:	L1 - L2 :	V		
			L2 - L3 :	V		
			L3 - L1 :	V		

Insert a jumper wire on the condenser interlock terminals. Switch on the main isolator on the condenser power box.

IR-CL 2012 4

	Check the rotation direction of the condenser fans. Interchange two power wires if the rotation is reversed.		
		Record the running current of the condenser fan motors	
		Fan 1 -L1 : A L2 : A L3 : A	
		Fan 2 -L1 : A L2 : A L3 : A	
		h off the main isolator and remove jumper wire. Switch on main isolator again for issioning of the refrigeration system.	
Refrigeration sys	stem	1	
		Check signs of oil leak	
	refrige	w the instruction in the section "Charging" in the Installation guide to properly charge the eration circuit if this has not been done already. It is generally the responsibility of the ing contractor to assure the proper charging of the system.	
Cooling Only:	Switch on main power isolator to turn on the unit. Adjust the temperature setpoint to energize the compressor.		
		Record the compressor operating pressures:	
		Normal refrigerant operating pressures at 22°C (72°F), 50% R.H are:	
		R-410A: Suction Pressure 115 to 130 psig / Discharge Pressure 380 to 425 psig	
		Note: Discharge pressure may vary with outdoor ambient conditions. Adjustment to the low ambient control device (regulating valve, manual bypass valve if equipped, condenser fan speed control or condenser ORI valve) may be necessary.	
		Discharge : psig Temperature : ° F	
		Suction :psig	
	Record room conditions:		
		Temperature: ° C Humidity: % RH	
		Record the superheat: Normal superheat is 10-12 ⁰ F (10-15°F at Compressor)	
		°F	
		Record the subcooling: Normal subcooling is 12-19 ⁰ F	
		°F	
		Record the compressor running current	
		L1 : A	

IR-CL 2012 5

Special Notes on Site Conditions:



Use the space provided to record site conditions or aspects of the installation that you feel may pose a concern for the unit's proper operation. For example: Absence of adequate load, poor air flow, air short circuiting or obstructions, poor duct design, raised floor height, other cooling equipment in the space etc. Continued unit operation with improper conditions will void the manufacturer's warranty and may damage the equipment, or result in a reduced operating life of some components, leading to early equipment failure. Please contact our office at 1-800-648-2584

NAME	PHONE NO.	I have been advised of the conditions listed above and will not touch the equipment
		I have been instructed in the operation of the
NAME	PHONE NO	equipment.

You have finished the start-up checklist. Please return this checklist to the factory within 14 days to register the warranty. Failure to do so will cause undue stress on the end user in the event of a warranty claim

6 IR-CL 2012