



Testing In & Testing Out Requirements for Certified Professionals

Testing Requirements according to BPI A/C Heat Pump Standards (v:1.1: February 2003, ckm)

Testing Required	When Required	Ref Pg.	Further Language	Ref Pg.
Electrical Test	During installations of new systems	17	Existing wiring systems must be inspected for safe installation and compliance with applicable codes. This inspection should include, but not limited to, checking for obvious loose connections, visual inspection of contractor contacts to verify good condition (no pitting, etc), properly sized wire gauge as required by the circuit amp draw.	17
Electrical Test	During installations of new systems	17	Voltage drop across contacts and relays may not occur. If a voltage drop is measured, the source must be located and corrected.	17
Duct Airflow Testing	During installations of new systems	17, 18	System airflow may be measured using a metered and calibrated pressurization device, a metered and calibrated flow plate, or a flow capture hood designed for the flow range anticipated.	17
Duct Leakage Testing	Duct sealing is part of the work scope	17	Pre and Post installation duct leakage shall be measured any time that duct sealing is part of the work scope to verify the success of the installation. When quantifying duct leakage, a measurement system that includes a metered and calibrated duct pressurization device shall be used.	17, 18
Refrigerant Charge	Before and after work is performed	18	Refrigerant charge may be measured using the following methods: Use sub-cooling method for TXV equipped systems, Use superheat method for non-TXV equipped systems, (Alternative manufacturer-specific procedures may be allowable. Submit alternative procedures to BPI for review and approval). If airflow is changed, the refrigerant charge must be retested.	18