## LEGALETT

## FUNCTIONAL CHECK FOR ELECTRIC COIL UNITS

FUNCTIONAL CHECK TO BE PERFORMED BY A QUALIFIED PERSON - with Product Data Sheet (PDS) in hand for unit. If any faults are found, complete entire functional check again after repairs.						
(1)	Check if correct line voltage is supplied to unit between L1 and L2 or N. Compare to PDS and fan markings		No -	<ul> <li>Incorrect breaker (wrong voltage)</li> <li>Tripped breaker or local disconnect off (no voltage)</li> </ul>		
Yes						
(2)	Check that control voltage is correcterminals 1 and 2. Refer to PDS.	t between thermostat	No -	Blown insert fuse Tripped (overheated) or faulty Faulty transformer	insert internal thermostat	
	Yes					
(3)	Actuate each room thermostat indiv zones off), referring to Owner's Ce Drawing and insert zone legend (if for control voltage at the correspon zone. Refer to PDS for terminal nu	idually (turn other rtificate or Design applicable), and check ding relay for each unbers for each zone.	No - - - -	Faulty wiring Dead room thermostat battery Faulty room thermostat Tripped (overheated) or faulty protector	(if applicable) control voltage overheat	
	Yes					
(4)	Check that relay has been activated motion in relay in response to appl	I - look for indicator or ied control voltage.	No -	Faulty relay		
	Yes					
(5)	Check for line voltage across the in indicator lamp response) and line v Fan may stay running if timer circu	dividual heating coil (or roltage across fan. it is present.	No F	Faulty relay Tripped (overheated) or faulty protector	line voltage overheat	
	Yes					
(6)	With one zone actuated, check for a matches the zone output, plus the 3-6 for each zone. Finally, with all for a current draw that matches tot	a current draw that fan. Complete steps zones actuated, check al output plus the fan.	No -	Faulty element		
	Yes					
(7)	Check that the fan responds to voltage applied by the relay, is running within 15% of the rated speed (use an optical tachometer, available from Legalett) and is not overheating. Refer to markings on fan1 stands for RPM.		No fi t e	Faulty capacitor (causes overh ailure to start) - one capacitor l o measure capacitance, using equivalent digital voltmeter with Fan internal overheat protection Faulty fan or faulty fan fuse	neating, slow fan speed, or lead must be disconnected Canadian Tire 52-0052-2 or n capacitance scale on tripped - cycle power	
Yes						
(8)	Check if room thermostats lose power intermittently while the thermostats are still calling for heat, and if on check if for was		Yes - Insert internal thermostat out of adjustment or unit was overheated (fan was running) - see below - Intermittant power supply (fan was not running)			
	running while thermostats lost					
	power. Note - it is normal for the thermostats to briefly lose power once or twice immediately after the thermostat stops calling for heat (and the fan will run briefly to dissipate residual heat in the box). No Unit is functioning properly, continue to Troubleshooting Guide if problem	<ul> <li>recirculation and overheating, which may cause a false trip of the internal thermostat. Insert Internal Thermostat Adjustment Procedure The internal thermostat is designed to power the transformer (and room thermostats) if the return air temperature is below 50°C (122°F) during normal operation, and disconnect the transformer (and room thermostats) and apply power to the fan above 50°C (122°F), which is an overheat condition. Place the internal thermostat bulb in 50°C (122°F) water. If internal thermostat does not apply voltage to the fan, adjust the internal thermostat so that it applies voltage to the fan at 50°C (122°F) and disconnects voltage from the fan (and connects voltage to the transformer) at 47°C (117°F). 5° of adjustment is approximately 1°C (2°F). </li> <li>Note that internal thermostat response may take several minutes</li> </ul>				
	is not resolved www.legalett.com					