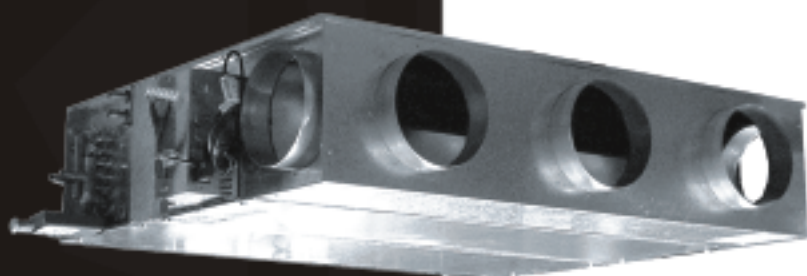


***LENNOX***<sup>®</sup>

**INSTALLATION -  
OPERATING &  
MAINTENANCE MANUAL**



PROVIDING **GLOBAL SYSTEM** SOLUTIONS

**QUANTUM  
AIRSIDE  
FAN COIL  
UNITS**

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Manufacturer reserves the right to change any product specifications without notice.

## Casings

The casings are constructed from durable heavy gauge galvanised sheet metal.

## Discharged Plenum

The unit is provided as standard with a multi spigotted, acoustically lined (Class 0) discharge plenum.

## Drip Tray

A high quality, all sloping drip tray (insulated to prevent condensation) is fitted to collect moisture from the whole heat exchanger face including return bends and headers. A 22mm drain connection is fitted as standard.

## Fans

Proven fan technology is used - a double inlet, double width, forward curved direct centrifugal type, which gives excellent performance characteristics combined with very low noise levels. The impeller and motor both statically and dynamically balanced.

## Insulation

Dual function thermal and acoustic insulation is used, with a density of 90kg/m<sup>3</sup>. This is suitable for use within a temperature range of -30°C to 80°C (continuously) and complies with Building Regulations Class 0, BS 476 Part 6 and Part 7 (Class 1). Both plenum and chassis are insulated.

## Motors

The Quantum range features a fully speed controllable motor via a multiple tapped auto transformer. Motors are of the permanent split capacitor type, and are tested to BS 5000: Part11 1973 (1989). Motors have maintenance free sealed for life sleeve bearings, and built in thermal overload protection.

## Heat Exchangers

The primary tubes are of solid drawn copper and mechanically bonded by expanding into close metallic contact with accurately formed collars on the continuous plate aluminium fins. Copper headers are brazed for multi circuited heat exchangers and terminate with plain tail connections. Air vents and drains are fitted as standard on both heating and cooling coils.

## Performance and pressure testing

All heat exchangers are performance tested and rated in accordance with BS 4856: Part3:1975 (1983) and BS 4196 : Part1:1991. Units are pressure tested to 25 bar gauge. Nb. This test does not require the simultaneous operation of both heating and cooling coils.

## Filters

Standard filters are of the washable type. They have a performance classification of G2 to EN779 (EU2) and a flame resistance to DIN 53438:Class F1.

## Connections

All connections are made to BS 2871 Part 1:1971 and suitable for brazed or compression fittings. Connection sizes vary with unit size and duty, but are always either 15mm or 22mm outside diameter.

## Controls

All units shall be fitted with illuminated ON/Off switch, three speed selector switch and include +5v / +10v trimmer switches to aid commissioning and be complete with 24 Volt AC transformer output to drive controllers and actuators.

## Packaging

All units are supplied with easy to follow installation instructions in specifically designed packaging. Model identification and other necessary references are clearly marked on the container and on the

# MOUNTING / CONNECTIONS

Thank you for choosing the Lennox Quantum Airside Fan Coil Unit. Please read the following information carefully prior to installation. These instructions should be kept in a safe place for future reference.

**WARNING:**  
**ISOLATE FROM THE ELECTRICAL SUPPLY  
BEFORE COMMENCING WORK.**

These units can be installed virtually as delivered. They are intended for fitting behind a suspended ceiling or a similar ceiling void and have circular spigots for connecting to ducting. Similarly, they can have a fresh air spigot fitted when specified.

## **MOUNTING**

In all cases, the units are fixed to the mounting face by means of four slots in the end flanges. Down rods, 10mm in diameter, should be used to support units

1. Unistrut should be mounted to the slab (see dimensional data) and four 10mm down rods fixed to the unistrut.
2. The down rods should have two nuts and two washers to lock the unit in position. The unit can then be lifted into location, hooking the slots (in the top panel) over the washers. The nuts must then be securely tightened.
3. Check to ensure the unit is level and adjust if necessary.
4. Check that water runs into the waste from the drain tray, by pouring water into it.

**NOTE:** To allow for Service Clearances it is recommended that a minimum space of 50mm is provided from top of the unit to underside of slab.

Sufficient space should be provided to allow for clear and safe access to the control panel.

## **PIPEWORK CONNECTIONS**

### **1. Water flow and return connection**

Plain pipe connection tails are all to BS 2871, Part 1: 1971 and are suitable for brazed or compression fittings. Connection sizes are 15mm or 22mm outside diameter on the cooling coil and 15mm on the heating coil. Actual final connection pipesizes will vary depending on valve configuration where fitted.

### **2. Condensate Tray Connection**

An end facing 22mm outside diameter copper condensate drain connection tube to BS 2871, Part 1: 1971 is fitted as standard to the condensate tray on all units.

### **3. Air Vents and Drains**

Brass air vent and drain tapping points are fitted as standard to all coils. These are positioned at the top and bottom of the header tubes.

## **DUCT CONNECTIONS**

### **1. Discharge Air Side**

An integral discharge plenum is fitted as standard complete with 197mm or 247mm outside diameter circular spigots. These are to accept standard diameter flexible ducting. Blanking caps are available to order.

### **2. Inlet Air Side**

When specified, units will be fitted with an Air Inlet Plenum, this will have the same number, size and position of circular spigots as on the discharge air side. Blanking caps are available subject to order.

### **3. Fresh Air Spigot**

The fresh air spigot is available in a size of 100mm diameter.

### **4. Condensate pump**

Condensate pump kits are available as an optional factory fitted option. Refer to diagrams indicating electrical wiring details.

## ELECTRICAL CONNECTIONS

### **ISOLATE ELECTRICAL SUPPLY BEFORE ATTEMPTING SERVICE WORK.**

A 230V, 50Hz, single phase supply is required. Wiring must be installed by a qualified electrician and conform to current local and national regulations.

1. Wire mains to unit via a double pole isolating switch, fused to IEE regulation. Refer to diagrams indicating electrical wiring details.
2. The electrical connection is via a 2m flying lead with factory fitted connector into socket on control box where an electric heater is NOT fitted. If an electric heater is fitted, to connect mains supply to unit, slacken off the screw holding the control box front cover. Carefully pivot the cover to support it, making sure the wires connecting the cover to the unit are not strained. Connect the mains lead via grommet hole in the side panel to the LIVE, NEUTRAL and EARTH positions on the 12-way terminal block. Replace cover and tighten screw.
3. If a Condensate Lift Pump is specified, this will be pre-wired back to the control box, but the pump assembly will be taped to the unit and must be fixed to the end of the drip tray before installing the unit, using the screws supplied.
4. The fan motors are of the permanent split capacitor type and have a capacitor fixed to the outside of the motor. All motors have thermal overload protection as standard. Access to the fan tray is via removable panels on the bottom face of the unit.
5. Damper Motor will be pre-wired.

## CONTROLS

All units are fitted as standard with an ON/OFF switch and a FAN SPEED selector switch for three speeds.

When specified, the water control valves will have a controller that will be fitted to the exterior of the control box.

These are all fitted into the control box and pre-wired.

## **1. Fan Speed**

Out of 6 speeds available, SL (Super Low), EL(Extra Low), L(Low), ML(Med/Low), M(Med), and H(High), the fan speed selector switch will be wired for three speeds. Speed adjustment and fine tuning is achieved by following the instructions indicated on the label that is positioned on the underside of the unit, adjacent to the control box.

Each model size has its specific settings, examples as detailed on page 5 of this document.

An example of adjusting the speed setting is described below:-

E.g.: If unit is selected for Medium/Low (ML) speed, then the speed selector switch is set at position II and other positions L and M, as below:

Position I	=	L (Low Speed)
Position II	=	ML (Med/Low Speed)
Position III	=	M (Medium Speed)

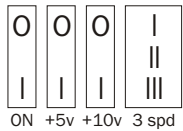
If selected speed is EL then this would be Position II with SL and L other positions. If selected speed is H then this would be position III with M and ML other positions.

## **2. Airside Controller.**

When specified this will have a Set Point Adjuster and will drive 24V damper actuator.

NOTE: Operating strategy must be programmed on BMS controllers to enable operation.

# FAN SPEED SETTINGS



## FAN SPEED SETTINGS

To achieve the design speed use a combination of main tapplings on the transformer and switch positions on the outside of the control box.

150	Main tapping			Fan speed switches			Output Volts @design speed
	W	Y	R	Switch	+5 V	+10 V	
SL							
EL	120	135	150	I	0	0	120
L	120	135	150	I	0	1	130
ML	135	150	165	II	0	0	150
M	150	165	180	II	1	0	170
H	165	180	195	III	0	1	200

190	Main tapping			Fan speed switches			Output Volts @design speed
	W	Y	R	Switch	+5 V	+10 V	
EL	120	135	150	I	0	0	120
L	120	135	150	I	0	1	130
ML	120	135	150	II	1	0	140
M	135	150	165	II	0	0	150
H	135	150	165	III	1	0	170

260	Main tapping			Fan speed switches			Output Volts @design speed
	W	Y	R	Switch	+5 V	+10 V	
SL	120	135	150	I	0	0	120
EL	120	135	150	I	0	1	130
L	120	135	150	II	1	0	140
ML	135	150	165	II	0	1	160
M	165	180	195	II	0	0	180
H	165	180	195	III	0	1	205

330	Main tapping			Fan speed switches			Output Volts @design speed
	W	Y	R	Switch	+5 V	+10 V	
SL	120	135	150	I	0	0	120
EL	120	135	150	I	0	1	130
L	120	135	150	II	1	0	140
ML	135	150	165	II	0	0	150
M	135	150	165	II	0	1	160
H	150	165	180	III	0	1	180

440	Main tapping			Fan speed switches			Output Volts @design speed
	W	Y	R	Switch	+5 V	+10 V	
SL	120	135	150	I	0	0	120
EL	120	135	150	I	0	1	130
L	120	135	150	II	1	0	140
ML	135	150	165	II	0	0	150
M	135	150	165	II	0	1	160
H	165	180	195	III	1	0	200

# PERIODIC MAINTENANCE

## PERIODIC MAINTENANCE PROCEDURE

The following routine maintenance operations should be carried out twice a year or at such shorter intervals as may be dictated by climatic conditions or cleanliness of conditioned space.

### 1. Routine Precautions

**SWITCH OFF POWER SUPPLY AT THE MAINS OUTLET BEFORE COMMENCING ANY WORK ON THE EQUIPMENT.**

**DO NOT OPERATE FAN FOR LONG PERIODS (OVER 2 HOURS) UNDER FREE AIR CONDITIONS. I.E WITHOUT DUCTWORK CONNECTED.**

**DO NOT USE STEAM JET OR HIGH PRESSURE HOT WATER TO CLEAN COIL SURFACES.**

### 2. General

- Thoroughly clean chassis, baseplate, drain tray.
- Clean casing. The unit exterior surfaces should be inspected monthly and any signs of corrosion or scratches should be treated immediately.

### 3. Routine Checks

- Check voltage at supply point with unit running.

### 4. Condensate Trays

- Check condensate drains are clean and free running.
- Check condensate hose connections are secure and leak free.
- Clean the condensate tray thoroughly.
- Check and clean condensate pump if fitted.
- Check operation of tray, drains or pump by introducing water into tray.

### 5. Controls

- Check all connections for burning or wear. Replace if necessary.
- Ensure all electrical connections are secure.
- Check functions of controls according to operating procedures.

### 6. Fan Motor and Fan

A regular check on the fan/motor assembly is advisable to ascertain if any overheating of the motor is occurring and that the fan impeller is free running and has not sustained any damage.

Check that fans and fan motor are properly aligned.

Check all securing screws, bolts and nuts are tight.

### 7. Coil

The coil should be inspected every six months to ascertain if any foreign matter has accumulated between the fins and that the coil connections are free from leaks.

Should the fins become contaminated too frequently, it is advisable to check that the air filter is functioning correctly.

Use a soft brush and vacuum cleaner to remove any dust between fins. Comb fins if required.

**DO NOT RUN UNIT WITHOUT FILTER FITTED.**

### 8. Filter

Regular cleaning of return air filter is essential, every three to six months depending on the working environment of the unit. Dirty filters will reduce the air volume handled by the unit, thus adversely affecting its performance.

Clean the filter using a vacuum cleaner OR remove the filter from the unit and fully immerse in warm water with a mild detergent. Rinse in clear water, allow to dry before replacing.

### 9. Damper Mechanism

Check damper mechanism for correct operation. Check for security of all damper mechanisms moving parts.

## ELECTRICAL DATA

MODEL	FAN SPEED	Volts	Motor Power W	Full Load Current A	Start Current A
	H	200	95	0.42	0.53
<b>LQAFC 150</b>	M	180	74	0.33	0.42
	ML	160	61	0.27	0.33
	L	140	47	0.21	0.25
	EL	130	41	0.18	0.21
<b>LQAFC 190</b>	H	170	117	0.52	0.72
	M	150	97	0.43	0.55
	ML	140	81	0.36	0.47
	L	130	70	0.31	0.40
	EL	120	59	0.26	0.34
<b>LQAFC 260</b>	H	210	178	0.79	1.15
	M	180	133	0.59	0.81
	ML	160	106	0.47	0.63
	L	140	81	0.36	0.47
	EL	130	70	0.31	0.40
<b>LQAFC 330</b>	H	180	217	0.96	1.23
	M	160	174	0.77	0.96
	ML	150	138	0.61	0.74
	L	140	102	0.45	0.61
	EL	130	86	0.38	0.52
<b>LQAFC 440</b>	H	200	324	1.42	2.06
	M	160	271	1.19	1.44
	ML	150	207	0.91	1.10
	L	140	180	0.79	0.94
	EL	130	153	0.67	0.80

## COIL WATER CONTENT

MODEL	Water Temp.	Water content litres
<b>Heating</b>	NA	0.17
<b>150/3R</b>	Low	1.13
<b>150/4R</b>	Low	1.50
<b>150/3R</b>	High	1.13
<b>150/4R</b>	High	1.50
<b>Heating</b>	NA	0.23
<b>190/3R</b>	Low	1.48
<b>190/4R</b>	Low	1.97
<b>190/3R</b>	High	1.48
<b>190/4R</b>	High	1.97
<b>Heating</b>	NA	0.30
<b>260/3R</b>	Low	1.91
<b>260/4R</b>	Low	2.55
<b>260/3R</b>	High	1.91
<b>260/4R</b>	High	2.55
<b>Heating</b>	NA	0.39
<b>330/3R</b>	Low	2.43
<b>330/4R</b>	Low	3.25
<b>330/3R</b>	High	2.43
<b>330/4R</b>	High	3.25
<b>Heating</b>	NA	0.52
<b>440/3R</b>	Low	3.20
<b>440/4R</b>	Low	4.27
<b>440/3R</b>	High	3.20
<b>440/4R</b>	High	4.27

## WEIGHTS, MINIMUM No. SPIGOTS, COIL CONNECTIONS

MODEL	WEIGHT kg	MINIMUM No. SPIGOTS		COIL CONNECTIONS (mm)	
		Total	Front	CW	LPHW
<b>LQW AFC150</b>	34	2	1	15	15
<b>LQW AFC190</b>	42	2	1	15	15
<b>LQW AFC260</b>	55	2	1	15	15
<b>LQW AFC330</b>	70	3	2	22	15
<b>LQW AFC440</b>	90	3	2	22	15

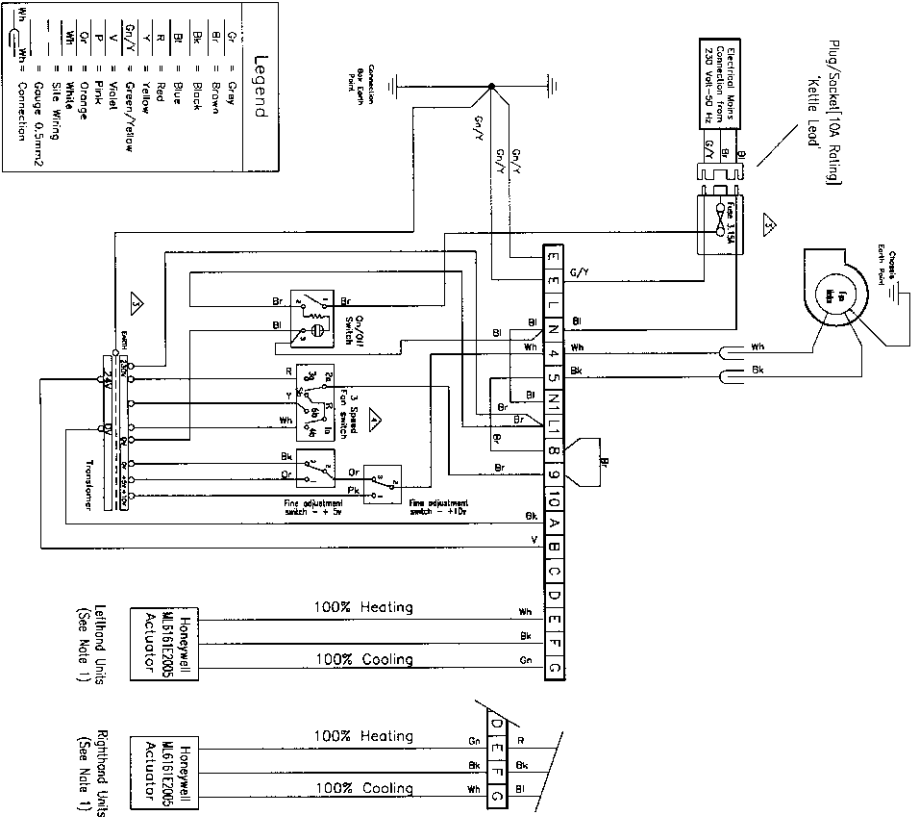


# WIRING DIAGRAM

## WIRING DIAGRAM

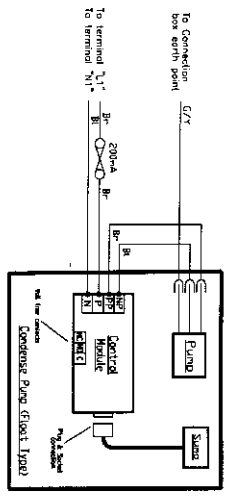
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CAD DRAWING



**Legend**

- Gr = Grey
- Br = Brown
- Bl = Blue
- R = Red
- T = Yellow
- Gr/Y = Green/Yellow
- V = Violet
- Pk = Purple
- Cr = Cream
- Wh = White
- Site Wiring
- Connection



4 CONDENSATE PUMP FLOAT TYPE [OPTIONAL]

**NOTES**

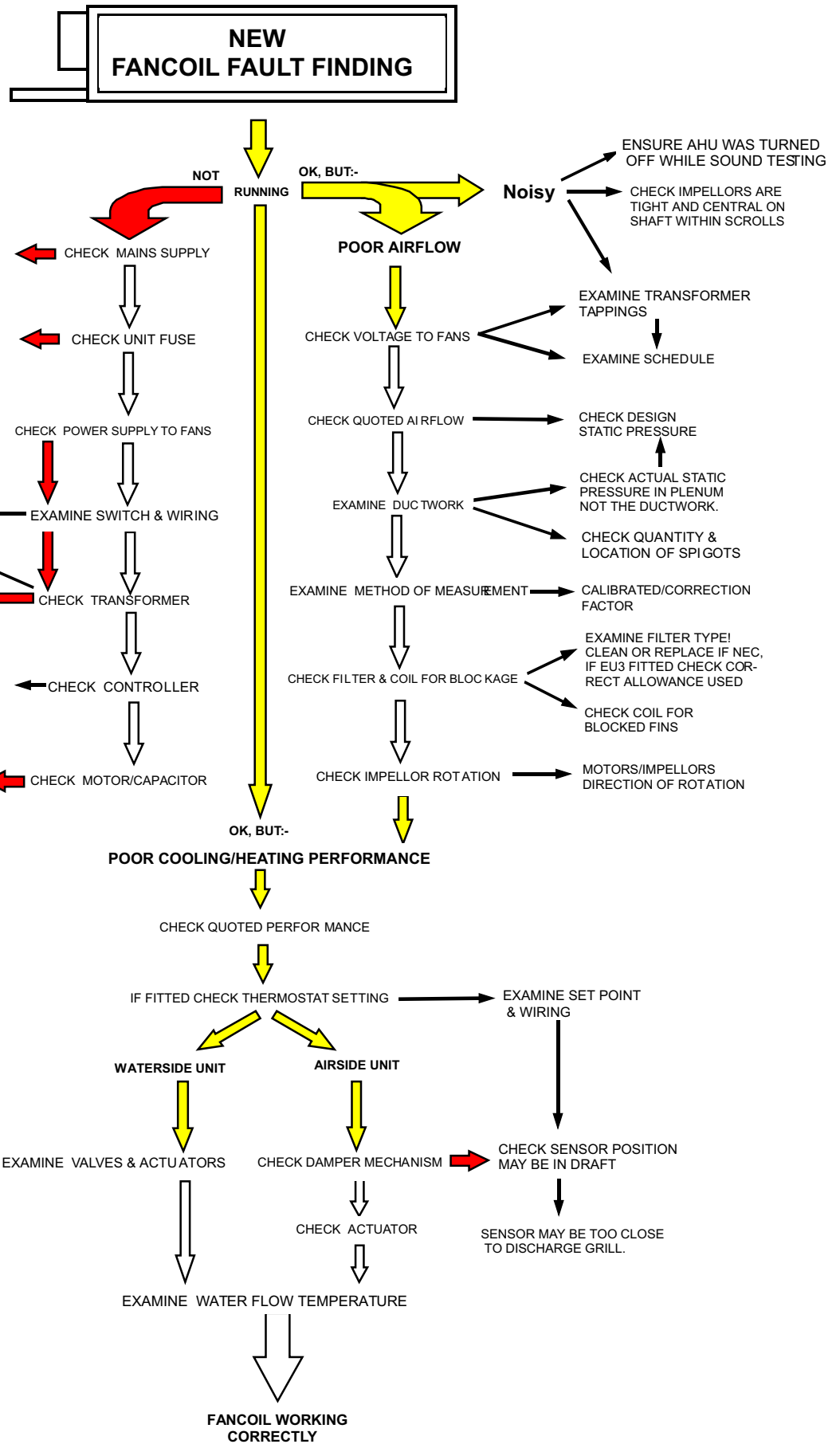
- Wiring connections from the actuator change depending upon the unit pipework bonding except for the model 440.
- For 440 models the connections are as shown on the drawing noting the location of the White & Green wire in E & G respectively.
- All others are as listed below.
- For left-hand units the connections are as shown on the drawing noting the location of the White & Green wire in E & G respectively.
- For right-hand units these are reversed therefore White & Green are terminated in G & E respectively.

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0.1	23/11/98	INITIAL PROTOTYPE			
1	23/11/98	PRODUCTION ISSUE			
2	23/11/98	PRODUCTION ISSUE			
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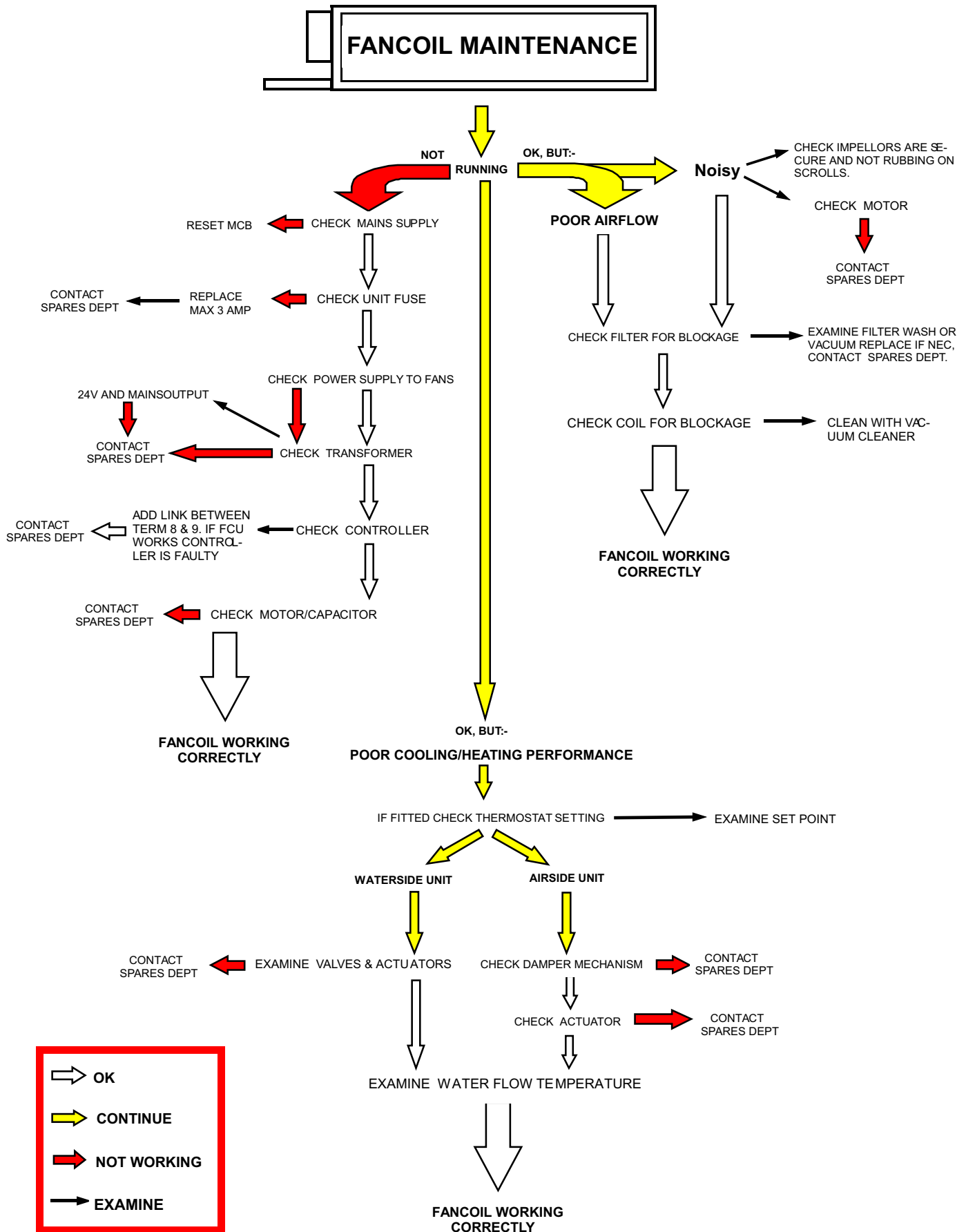
DO NOT SCALE THIS PRINT. ALL COMPONENTS MUST BE FREE FROM SHARP EDGES & SPARKS. TOLERANCE UNLESS OTHERWISE NOTED UNCL DIM., SQUARENESS, NOTCH & BRAKE RES. ± 1mm, ANGLES ± 2'. THIS DRAWING IS THE PROPERTY OF LENNOX INDUSTRIES LTD.



# FAULT FINDING



# FANCOIL MAINTENANCE



When contacting Spares Dept please specify Unit type, size and Ref number.

# SPARE PARTS LIST

Part Number	Description	Size Used On :				
		150	190	260	330	440
E142	Air Vent (409992007)	X	X	X	X	X
Z302004	Cooling Coil 3 row (Low Temp. 5 - 8 deg.C Flow)	X				
Z302009	Cooling Coil 3 row (Low Temp. 5 - 8 deg.C Flow)		X			
Z301971	Cooling Coil 3 row (Low Temp. 5 - 8 deg.C Flow)			X		
Z302000	Cooling Coil 3 row (Low Temp. 5 - 8 deg.C Flow)				X	
Z302012	Cooling Coil 3 row (Low Temp. 5 - 8 deg.C Flow)					X
Z303233	Cooling Coil 3 row (High Temp. 9 - 14 deg.C Flow)	X				
Z302015	Cooling Coil 3 row (High Temp. 9 - 14 deg.C Flow)		X			
Z302016	Cooling Coil 3 row (High Temp. 9 - 14 deg.C Flow)			X		
Z302017	Cooling Coil 3 row (High Temp. 9 - 14 deg.C Flow)				X	
Z302018	Cooling Coil 3 row (High Temp. 9 - 14 deg.C Flow)					X
Z303100	Cooling Coil 4 row (Low Temp. 5 - 8 deg.C Flow)	X				
Z303101	Cooling Coil 4 row (Low Temp. 5 - 8 deg.C Flow)		X			
Z303232	Cooling Coil 4 row (Low Temp. 5 - 8 deg.C Flow)			X		
Z303103	Cooling Coil 4 row (Low Temp. 5 - 8 deg.C Flow)				X	
Z303104	Cooling Coil 4 row (Low Temp. 5 - 8 deg.C Flow)					X
Z303234	Cooling Coil 4 row (High Temp. 9 - 14 deg.C Flow)	X				
Z303235	Cooling Coil 4 row (High Temp. 9 - 14 deg.C Flow)		X			
Z303107	Cooling Coil 4 row (High Temp. 9 - 14 deg.C Flow)			X		
Z303236	Cooling Coil 4 row (High Temp. 9 - 14 deg.C Flow)				X	
Z303237	Cooling Coil 4 row (High Temp. 9 - 14 deg.C Flow)					X
Z302020	Heating Coil 1 row	X				
Z302021	Heating Coil 1 row		X			
Z302022	Heating Coil 1 row			X		
Z302023	Heating Coil 1 row				X	
Z302024	Heating Coil 1 row					X
Z200681	Belimo Damper Actuator	X	X	X	X	
Z200992	Belimo Damper Actuator (Type NM24)					X
Z202114	Actuator 4nm (Honeywell ML6161E2005)	X	X	X	X	
Z202115	Actuator 8Nm (Honeywell ML6174E2008)					X
Z301771	Fan Tray Assembly	X				
Z301772	Fan Tray Assembly		X			
Z301773	Fan Tray Assembly			X		
Z301774	Fan Tray Assembly				X	
Z302066	Fan Tray Assembly					X
Z200669	Motor - Single Shaft (240v 50HZ)	X			X	
Z200668	Motor - Twin Shaft (240v 50HZ)		X	X	X	X (x2)
Z201112	Impeller - Aluminium.	X	X (x2)	X (x2)	X (x3)	X (x4)
ZZ-211500030	Rocker Switch (On / Off)	X	X	X	X	X
ZZ-211500031	Rocker Switch - 3 Position (Speed Change)	X	X	X	X	X
Z201657	Transformer (Auto 1.5amp.)	X	X	X	X	X
Z202103	Filter Assembly (EU2)	X				
Z202104	Filter Assembly (EU2)		X			
Z202105	Filter Assembly (EU2)			X		
Z202106	Filter Assembly (EU2)				X	
Z202107	Filter Assembly (EU2)					X
Z203290	Filter Assembly (EU3)	X				
Z203291	Filter Assembly (EU3)		X			
Z203292	Filter Assembly (EU3)			X		
Z203293	Filter Assembly (EU3)				X	
Z203294	Filter Assembly (EU3)					X
Z301776	Drip Tray Assembly	X				
Z301777	Drip Tray Assembly		X			
Z301778	Drip Tray Assembly			X		
Z301779	Drip Tray Assembly				X	
Z302067	Drip Tray Assembly					X
Z301812	Plenum Dust / Spigot Caps (200 dia.)	X	X	X	X	X
Z304030	Plenum Dust / Spigot Caps (250 dia.)	X	X	X	X	X
Z291043	Condensate Pump Kit	X	X	X	X	X

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