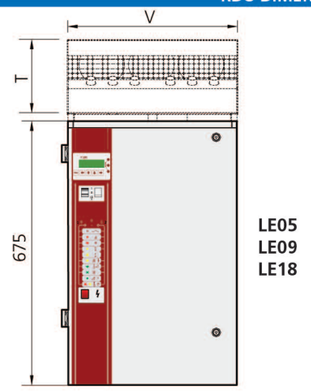
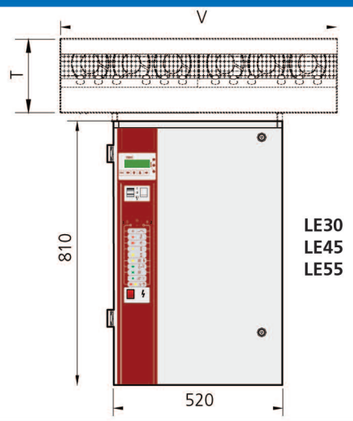
6 OPTIONAL ROOM DISTRIBUTION UNIT INSTALLATION (RDU)

RDU DIMENSIONS

	T	V
LE05	205	430
LE09	205	430
LE18	205	430
LE30	205	602
LE45	360	842
LE55	360	842



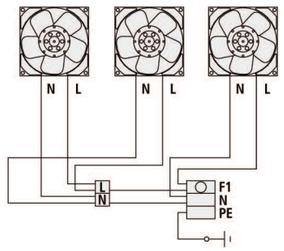
LE05
LE09
LE18



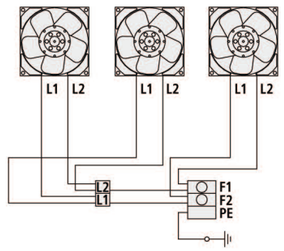
LE30
LE45
LE55

TRANSFORMER TO RDU

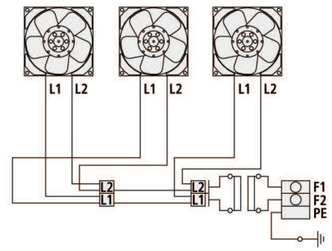
200 - 250 V 1 Ph. N + Earth



200 - 250 V 2 Ph. + Earth



380 - 440 V 2 Ph. + Earth



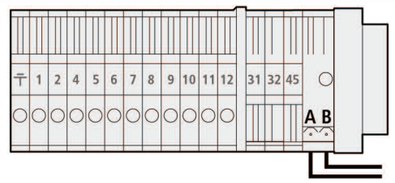
Transformer Primary 380 - 440 V Secondary 210 - 250 V

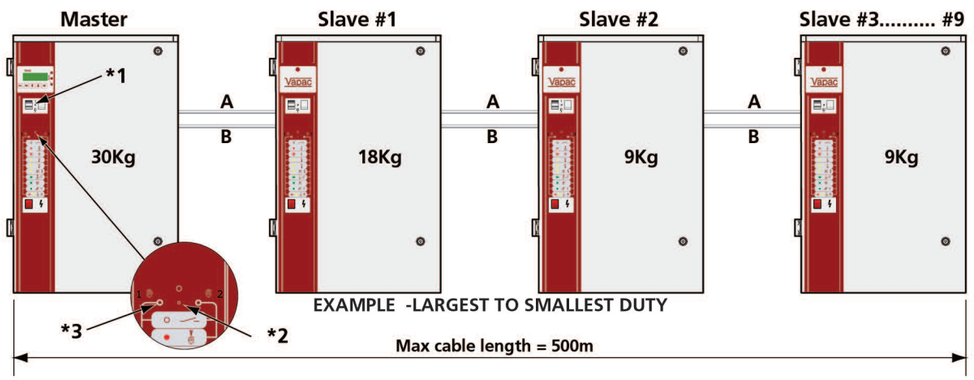
7 MASTER / SLAVE SETUP ONLY

NETWORKING

1. Switch off units. ***1**
2. Press and hold Service Pin on Master unit (***2**) until user LED's flash amber, release and check they are flashing red/amber/green. ***3**
3. Press Service Pin on each slave unit in required operating order.
4. If less than 10 units total, press Master Service Pin until LED2 goes green to confirm all units configured.

NETWORK TERMINALS





0410570 LE /10.07/1

VAPAC LE(P) HUMIDIFIER
QUICK INSTALLATION

Eaton-Williams

Unit	L	M	H1	H2
LE05	85	85	500	-
LE05/RDU	85	85	-	200
LE09	85	85	500	-
LE09/RDU	85	85	-	250
LE18	85	85	500	-
LE18/RDU	85	85	-	500
LE30	100	100	500	-
LE30/RDU	185	100	-	750
LE45 LE55	85	85	500	-
LE45/RDU	410	220	-	775
LE55/RDU	410	220	-	775
LE60-110	85	85	500	-

1 UNIT MOUNTING

- Don't mount the unit behind a false ceiling or other situation where an unusual malfunction (e.g. water leak) would cause damage.
- Don't mount the unit inside a cold-room or other place where temperature and humidity conditions can cause condensation on electrical components.
- Don't mount the unit where the sound of a contactor opening/closing and water flow in a pipe would be unacceptable e.g. libraries, private apartments, etc.
- Don't position an RDU to discharge directly over expensive equipment, desks or stored materials.
- Ensure that the holes in the rear top panel remain unobstructed to allow a free flow of air.
- Mounting hole positions provided on packaging.
- Cylinder can be removed for access to mounting holes, units to be secured with M6 projecting type wall bolts or equivalent.
- Ensure unit is mounted in a well ventilated area

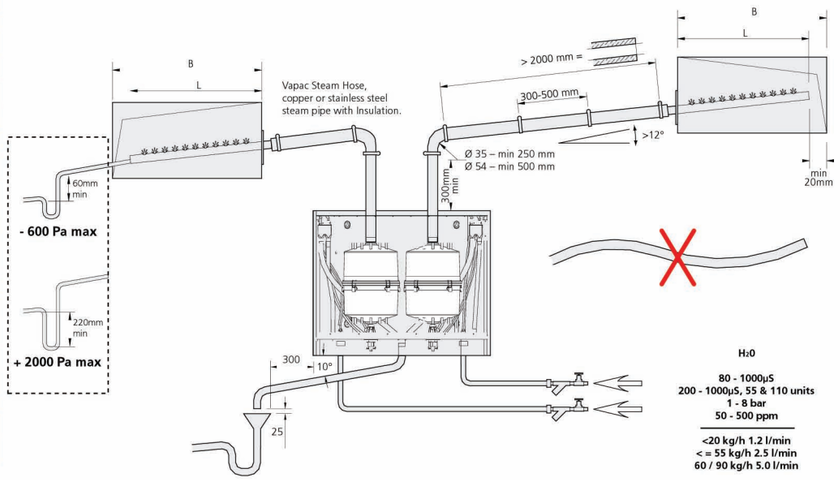
2 WATER AND STEAM CONNECTIONS

35mm Ø Pipe Selection	
Duct Width B mm	**In-duct Length L mm**
320 - 470	300
470 - 620	450
620 - 770	600
770 - 920	750
920 - 1070	900
1070 - 1200	1050

54mm Ø Pipe Selection	
Duct Width B mm	**In-duct Length L mm**
700 - 950	650 (1.8 kg)
950 - 1450	900 (2.2 kg)
1450 +	1400 (3.2 kg)

Steam Distribution Pipe requirement

Electrode Boiler Unit Model	LE05(P)	LE30(P)	LE60(P)
	LE09(P)	LE45(P)	LE90(P)
	LE18(P)	LE55	LE110
35mm Ø Pipe No.	1	—	—
54mm Ø Pipe No.	—	1	2
* Duct Pressure Pa.	+ 1000	+ 2000	+ 2000
	- 600		- 600



H₂0

80 - 1000µS
200 - 1000µS, 55 & 110 units
1 - 8 bar
50 - 500 ppm

<20 kg/h 1.2 l/min
< = 55 kg/h 2.5 l/min
60 / 90 kg/h 5.0 l/min

3 POWER SUPPLY CONNECTIONS

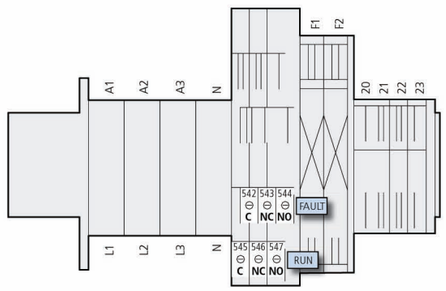
LE UNITS (UNITS WITHOUT SOLID STATE RELAYS)

200-250V 1 ph N + Earth	200-440V 2 ph + Earth	380-440V 2 ph N + Earth	200-440V 3 ph + Earth	200-240V 3 ph N + Earth	380-440V 3 ph N + Earth	200-440V 3 ph (N) + Earth
Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units
LE05 & LE09	LE05 & LE09	LE05 & LE09	LE18, LE30 & LE45	LE18, LE30 & LE45	LE18, LE30, LE45 & LE55	—
Twin Cylinder Units	Twin Cylinder Units	Twin Cylinder Units	Twin Cylinder Units - Cyl. 1	Twin Cylinder Units - Cyl. 1	Twin Cylinder Units - Cyl. 1	Twin Cylinder Units - Cyl. 2
—	—	—	LE45, LE60 & LE90	LE45, LE60 & LE90	LE60, LE90 & LE110	LE45, LE60, LE90 & LE110
PE, L1, N, RDU SUPPLY	PE, L1, L2, N, RDU SUPPLY	PE, L1, L2, N, RDU SUPPLY	PE, L1, L2, L3, N, RDU SUPPLY	PE, L1, L2, L3, N, RDU SUPPLY	PE, L1, L2, L3, N, RDU SUPPLY	PE, L1, L2, L3, N, RDU SUPPLY
	380-440V supplies to have transformer to 230V if RDU required.	Neutral only required if RDU is fitted	380-440V supplies to have transformer to 230V if RDU required.	Neutral not used.	Neutral only required if RDU is fitted	Neutral not used

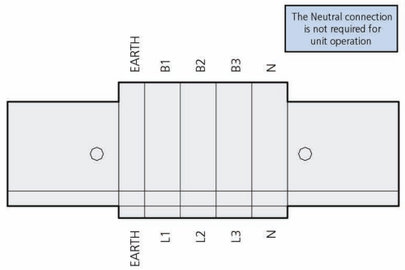
LEP UNITS (UNITS FITTED WITH SOLID STATE RELAYS)

200-250V 1 ph N + Earth	380-440V 2 ph N + Earth	380-440V 3 ph N + Earth	200-440V 3 ph (N) + Earth	200-240V 3 ph N + Earth
Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units	Single Cylinder Units
LE05P & LE09P	LE05P & LE09P	LE18P, LE30P & LE45P	—	LE18P, LE30P & LE45P
Twin Cylinder Units	Twin Cylinder Units	Twin Cylinder Units - Cyl. 1	Twin Cylinder Units - Cyl. 2	Twin Cylinder Units
—	—	LE45P, LE60P & LE90P	LE45P, LE60P & LE90P	LE45P, LE60P & LE90P
PE, L1, L2, RDU SUPPLY	PE, L1, L2, N, RDU SUPPLY	PE, L1, L2, L3, N, RDU SUPPLY	PE, L1, L2, L3, N — Neutral not used	PE, L1, L2, L3, N, RDU SUPPLY

CYLINDER 1 CONTROL PANEL SECTION

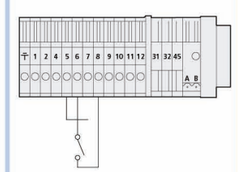


CYLINDER 2 CONTROL PANEL SECTION

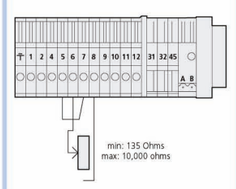


4 CONTROL CONNECTIONS

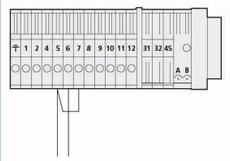
ON / OFF CONTROL



POTENTIOMETRIC CONTROL

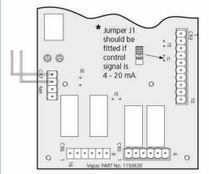


CONTROL SIGNAL SELECTION

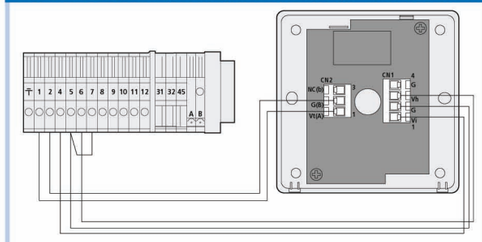


DC VOLTAGE CONTROL
0 - 5V
0 - 10V
0 - 20V
2 - 10V
1 - 18V

CURRENT CONTROL
4 - 20 mA *



VAPAC HUMIDITY SENSING HEAD FVKIT-107-1 / FVKIT-108-1



STANDARD OPERATION

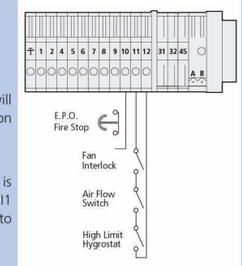
Emergency Power Off:
Terminals 9 & 10

Security Circuit:
Terminals 11 & 12

Breaking terminals 9 & 10 will prevent any unit operation including frost protection.

Controller Settings

Please note that if a display is connected to the unit "DI1 Control Option" must be set to "Shutdown".



LOAD SHED OPERATION

Load Shed Option activated via unit display or handheld service display

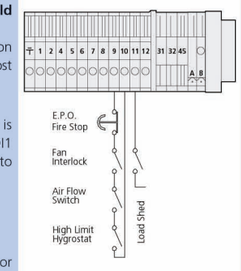
It should be noted that selection of this option will mean that Frost Protection cannot be utilized.

Controller Settings

Please note that if a display is connected to the unit "DI1 Control Option" must be set to the following:

Single cylinder units:
"Load shed".

Twin cylinder units:
either "Load Shed Cyl 2" or "Load Shed Both".



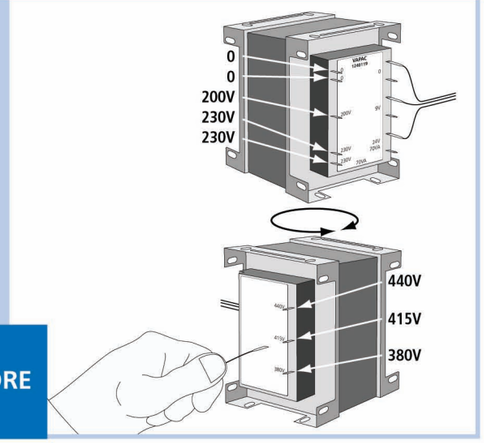
TRANSFORMER

1. Transformer location

The transformer is fitted below the Drain tray, and is accessible by removing two screws and the cover, which should be slid it towards you.

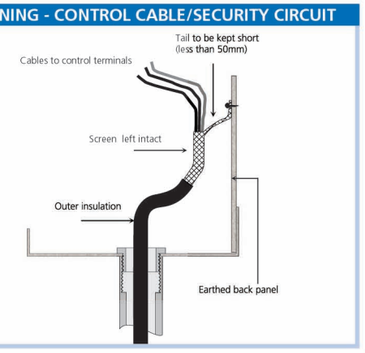
2. Voltage selection

Connect wire 29 (labelled) to the corresponding terminal on the transformer to match the supply voltage.



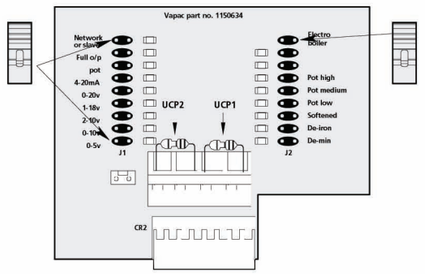
PULL TEST ALL CONNECTIONS BEFORE START UP

SCREENING - CONTROL CABLE/SECURITY CIRCUIT



5 STARTUP

CONFIGURATION PCB (Non-Display Units)



FITTED DISPLAY UNITS

1.Setup Unit

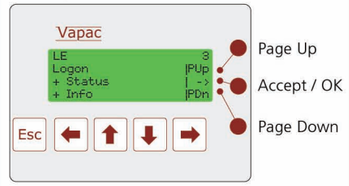
This option is used to set the site controlled parameters:

Control type: (0-5V; 0-10V; 2-10V;1-18V; 0-20V; 4-20mA; Pot; Full output; Network; or Sensing Head [0-5V; 0-10V; 0-20V; 4-20mA or pot].

Voltage: (115; 200; 230; 380; 400; 415; 440; 460; 480; 600V)

Steam Output Units: kg/hr; lb/hr

Startup Screen



1