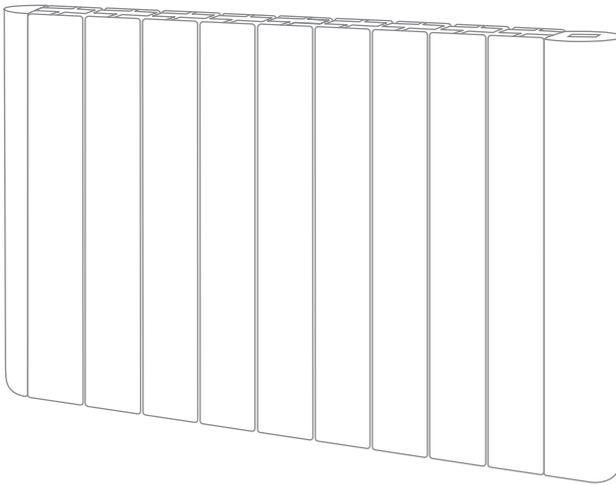




Product Instruction Manual

Avignon



AV600T, AV900T, AV1500T, AV1800T

Electric Radiator

Overview

Thank you for purchasing an Avignon Electric Radiator. A fixed heating solution, available in 0.6, 0.9, 1.5, 1.8 kW models. These are suitable for application in both home and office environments.

Please read and follow these instructions to ensure that installation and operation are as simple and safe as possible.

Important Safety Points



This appliance should only be installed and maintained by a competent person in accordance with any local electrical regulations.



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



Children shall not play with the appliance.



Cleaning and user maintenance shall not be made by children without supervision.



Children of less than 3 years should be kept away unless continuously supervised.



Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



Children aged from 3 years and less than 8 years shall not plug in, regulate, and clean the appliance or perform user maintenance.



CAUTION — Some parts of this appliance can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.



WARNING: In order to avoid overheating, do not cover the appliance.



If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

 The appliance must be permanently connected to the electrical supply through an appropriately rated isolating switch with a contact separation in all poles.

 This appliance must be earthed.

 Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.

 The appliance must not be located immediately below a socket outlet.

 This appliance is filled with a precise quantity of special oil. Repairs requiring opening of the oil container are only to be made by the manufacturer or its service agent who should be contacted if there is an oil leak.

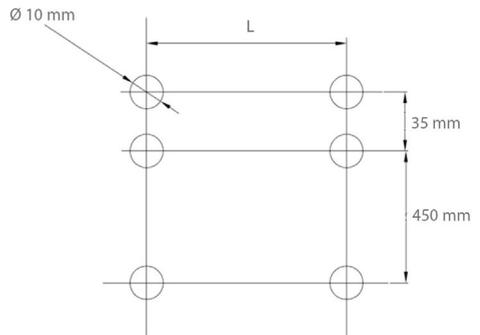
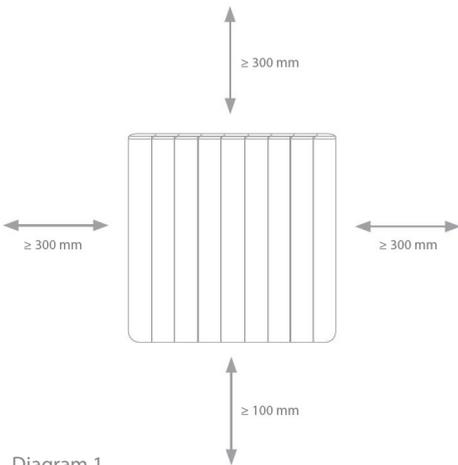
 When disposing of the appliance, follow the regulations concerning the disposal of oil.

1. Installation

- ⚠ Ensure the mounting surface is suitable for the weight of the appliance.
- ⚠ Ensure the mounting surface is suitable for the heat of the appliance.
- ⚠ Ensure there are no hidden cables or pipework before commencing any drilling.
- ⚠ This appliance is not designed for outdoor use or use in very damp environments.
- ⚠ If the appliance is located in a bathroom, it must be installed so that switches and other controls cannot be touched by a person in the bath or shower.
- ⚠ The appliance is only intended for horizontal installation, fire risk exists if installed in any other orientation.
- ⚠ To avoid overheating risk, ensure minimum clearances are observed when installing the appliance.

Wall Mounting

- Select a location for the appliance ensuring the mounting surface is suitable for the weight and heat of the appliance.
- Ensure the specified distances are adhered to (see diagram 1).
- Ensure the supplied bracket is used and not modified in any way.



- Using diagram 2 mark the required holes - see 'L' values for each model below.

Model	AV600T	AV900T	AV1500T	AV1800T
'L' value	160 mm	240 mm	480 mm	560 mm

- Note - the appliance must be mounted on the 2 upper brackets before the lower brackets can be fixed to the mounting surface. **Do not** fix all brackets to the wall before hanging the appliance.
- Drill all required holes in the mounting surface and insert wall plugs supplied (see diagram 2).
- Secure the 2 upper brackets to the upper 4 holes drilled on the mounting surface using 4 screws supplied. These will act as a 'shelf' for the upper support pole within the appliance to rest on (see diagram 3).
- Offer the appliance onto the upper brackets, ensuring the appliance is placed with the brackets equidistant to the centre. This will ensure weight is evenly distributed and the appliance will not tip.
- Once the appliance is in place, secure the 2 lower brackets to the 2 lower holes drilled on the mounting surface using 2 screws supplied (see diagram 3). Ensure the brackets are hooked onto the lower support pole within the appliance before the screws are inserted. This will secure the lower support pole of the appliance in place.

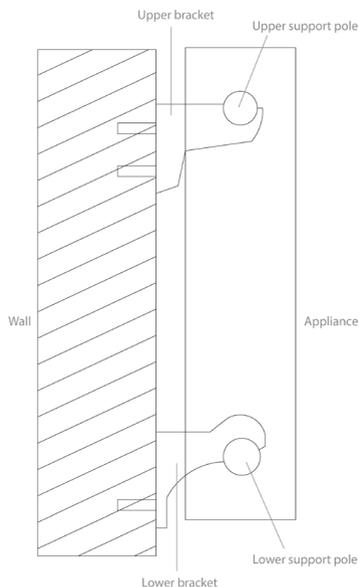


Diagram 3

2. Electrical Connection



If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



The appliance must be permanently connected to the electrical supply through an appropriately rated isolating switch with a contact separation in all poles.



This appliance must be earthed.



Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.



The appliance must not be located immediately below a socket outlet.

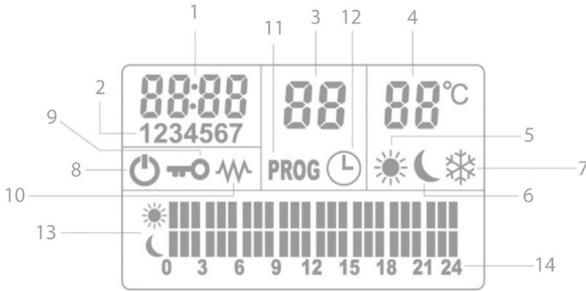
- Make connections as below;
 - Green/ yellow earth wire to terminal marked ⊕
 - Brown live wire to the terminal marked 'L'
 - Blue neutral wire to the terminal marked 'N'

3. Controls

Panel Controls

Button	Description
	On / off
	Mode selection and programmes
	Increase
	Decrease
	Setting time, day and temperature

LCD Display



Number	Description	Number	Description
1	Time (HH:MM)	8	Standby
2	Day (1 = Mon, 2 = Tues)	9	Lock
3	Operating mode	10	Element on
4	Target temperature	11	Edit programme
5	Comfort mode	12	Run on timer mode
6	Eco mode	13	Timed programme display
7	Off and frost setting	14	Hours of the day

Operating Mode	Acronym	Mode Description
	Fr	Free operating (manual) mode
	P1 - P9	Pre-set programmes (can be customised)
	AU	Weekly programme schedule (can be customised)
	FO	Open window detection (can be switched on / off)

4. Preparing the Appliance

Switching the Appliance On

- Switch the power supply to the appliance on.
- Turn the appliance on using the switch on the back right hand side of the appliance down near the power cable entry. The standby symbol  will be displayed.
- Press the  button on the timer control until the standby symbol  on the display panel disappears – you are now in Free Operating (Manual) Mode **F_r**.

Setting the Time and Date

- **The appliance will time out if no button is pressed within 5 seconds and the process will need to be restarted. Take time to read through each section before performing each task.**
- In **F_r** mode, single short press , the time digits in the top left of the display will start to flash.
- Use the / arrows to select the hour and press  to confirm.
- Use the / arrows to select the minutes and press  to confirm.
- Use the / arrows to select the day setting and press  to confirm (these are below the time in small font. Monday to Sunday are represented as 1-7).

Setting the Target Temperature for Manual and Run on Timer Modes

- In **F_r** mode use the / arrows to set the target temperature.

Selecting the Operating Mode

- Single short press  then use the / arrows to cycle to the desired operating mode. For manual and run on timer mode **F_r** should be selected.

Unlocking the Appliance

- The appliance will automatically lock if left unattended for 30 seconds and the key icon  will be visible in the display panel.
- To unlock the appliance press the the / arrows at the same time.

5. Operation

Free Operating (Manual) Mode (Fr)

- Free operating (manual) mode is the simplest way to use your appliance. No timers are running. The thermostat will control the heating element to reach and maintain the target temperature.
- Whilst **Fr** is displayed the appliance is turned on. After a few seconds the element on icon  will illuminate and the appliance will start heating.
- Note – if the room temperature is above the target temperature the element will not come on.
- Turn the appliance off by briefly pressing the  button until the standby icon  appears.

Run On Timer Mode

- Run on timer mode is most convenient if you require the appliance to turn itself off after a period of time (programmable in increments of 30 minutes).
- In **Fr** mode, press and hold  until the run on timer icon  appears in the middle of the display. Use the  /  arrows to select the amount of time you would like the appliance to stay on for and press  to confirm.
- The run on timer icon  will remain visible until the appliance switches off after the set time period has elapsed.
- To exit run on timer mode, press and hold  until the run on timer icon  disappears. The appliance will return to manual **Fr** mode.

Timed Programme Operating Mode

- When operating mode P1 – P9 timed programme is selected the appliance will operate in accordance with the chosen timed programme.
- The same programme can be followed for every day of the week or a weekly programme schedule set up.

Setting the Target Temperatures for Timed Programme Mode

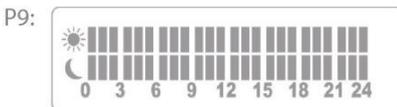
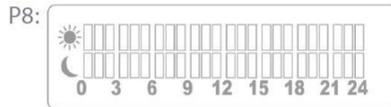
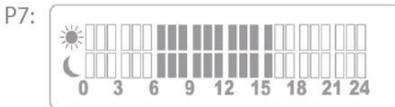
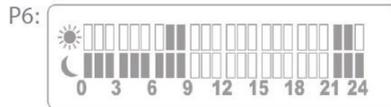
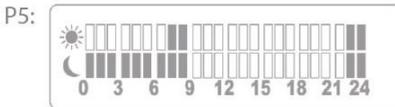
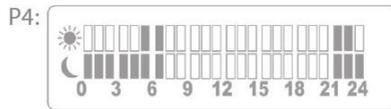
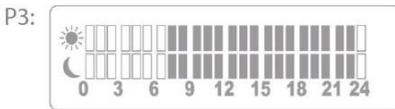
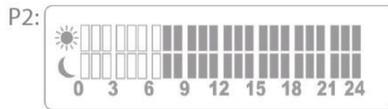
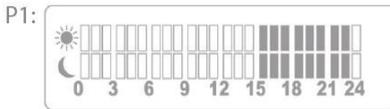
- There are two target temperatures either of which can be chosen when the appliance is on in timed programme mode. These are comfort mode  and eco mode . The default factory settings are 22°C for comfort mode and 17°C for eco mode. It is recommended to change these settings to suit your needs. Lower temperatures may be more economical.
- To change the target temperatures, in any preset programme (P1 – P9) press and hold  until the temperature flashes with the comfort mode icon  below.
- Use the / arrows to select the desired target temperature for comfort mode  and press the  button to confirm.
- The temperature will now be flashing with the eco mode icon  below.
- Use the / arrows to select the desired target temperature for eco mode  and press the  button to confirm.
- There is a third default setting, off and frost setting , which targets a temperature of 7°C whilst the appliance is in standby mode or in a programmed off period - this cannot be customised.

Timed Programme Display

- The time is indicated on the display in hourly increments, from midnight to midnight (0 - 24) .
- A full shaded bar  (covering the top and bottom row) represents an hour of comfort mode .
- A half shaded bar  (covering the bottom row) represents an hour of eco mode .
- A clear bar  (with no shading) represents when the appliance is off and not heating (note frost protection is active).
- A flashing bar indicates the present hour.

Pre-set Timed Programmes

- The appliance is supplied with 9 pre-set programmes.
- Single short press , the middle panel of the display will flash.
- Use the  /  arrows to cycle through the available programmes P1- P9.
- The pre-set programmes can be edited if minor changes are desired or a fully custom 24 - hour heating schedule can be created.



Setting a Custom Programme

- P8 is supplied blank. To set a custom programme for any of the other programmes follow the 'clearing a custom programme' section before proceeding.
- Select the operating mode (P1 - P9) programme to be edited and ensure this is visible on the display screen.
- Note - the appliance will time out if no button is pressed within 5 seconds and the process will need to be started again. Also you may need to unlock the appliance.
- Please read through the next section carefully before starting to set the 24 hour programme.
- Press and hold  until **PROG** is displayed in small font below the programme number. A flashing cursor will show in the bottom left corner and is used as your control to edit with.
- Cycle through the 24 hours on the timed programme display using the  arrow until you reach the desired time for the appliance to turn on.
- To programme the timer to target the comfort mode temperature during the on period, single short press the  button until the comfort mode icon  appears. Use the  arrow to extend the comfort mode on time until the desired off time.
- Single short press the  button a few times to toggle until the off and frost icon  appears. Use the  arrow to extend the off and frost time to either the end of the day or the next desired time for the appliance to turn on.
- To programme the timer to target the eco mode temperature during the on period, single short press the  button until the eco mode icon  appears. Use the  arrow to extend the eco mode on time until the desired off time.
- Single short press the  button a few times to toggle until the off and frost icon  appears. Use the  arrow to extend the off and frost time to either the end of the day or the next desired time for the appliance to turn on.
- You can go back at any time using the down  arrow.
- The programme you have set will be visible in the timed programme display.
- Single short press  again when you have finished editing your programme to save.

Setting a Weekly Programme Schedule

- The weekly programme schedule allows you to programme the appliance, taking into account differences between weekdays and weekends. E.g. days 1 - 5 (Mon - Fri) set to programme 8 and days 6 - 7 (Sat - Sun) set to programme 9.
- Single short press  to access the programme menu. Use the / arrows to select **RU**.
- Press and hold  until the appliance displays one of the 9 pre-set programmes.
- Number 1 (indicating Monday) should be visible in the middle box on the left - hand side of the display.
- Use the / arrows to scroll through the pre-set programmes from P1 - P9. When the desired programme has been selected for the current day (1 = Monday), press  to cycle through to 2 = Tuesday.
- Repeat until you have a schedule for the whole week.
- Note - the appliance will time out if no button is pressed within 5 seconds and the process will need to be started again. Also you may need to unlock the appliance.

Viewing the Weekly Programme Schedule

- Single short press  to access the programme menu. Use the / arrows to select **RU**.
- Press and hold . The day 1 programme will flash. Single short press  to cycle through to see the programme for the rest of the week.

Clearing a Custom Programme

- Select the operating mode (P1 - P9) programme to be cleared. Press and hold  until **PROG** is displayed.
- A flashing cursor will show in the bottom left corner and is used as your control to edit with.
- Single short press the  button a few times until the off and frost icon  appears. Use the  arrow to extend the off and frost time to the end of the day.
- The timed programme display will now show a clear bar (no shading) and the programme is clear.
- Note - the appliance will time out if no button is pressed within 5 seconds and the process will need to be started again. Also you may need to unlock the appliance.

Frost Protection

- The appliance will always provide frost protection whilst in standby mode or in timed programme off periods.

Open Window Detection

- Open window detection will detect any sharp drop in the room temperature due to an open window. This is designed to help reduce energy wastage, it is recommended to be set on.
- The appliance will stop heating and the **FO** symbol will flash to indicate open window detection. It will resume heating when the source of the draft is eliminated.
- The appliance can be manually brought back into heating mode by single short pressing . The **FO** symbol will no longer be displayed when normal operation has resumed.

Switching Open Window Detection Off

- Single short press  to access the programme menu. Use the / arrows to find **FO** and press  again to select.
- ON or OF will be flashing in the top - right hand side of the display.
- To select between the two options use the / arrows until the desired setting is displayed.
- Leave the appliance to time out and the selection will be saved.



ON (open window detection on)



OF (open window detection off)

6. Cleaning and Maintenance

-  This appliance should only be installed and maintained by a competent person in accordance with any local electrical regulations.
 -  Ensure any future maintenance or modifications to the appliance complies with the guidelines in these instructions.
 -  Isolate the appliance from the electrical supply before performing any maintenance task.
 -  Ensure the appliance has cooled down before performing any maintenance task.
 -  Do not use abrasive chemicals to clean this appliance.
 -  Use a soft damp cloth when cleaning, avoid excessive use of liquids.
- To prevent discolouration of the panels ensure any dust and dirt is removed from the appliance before turning back on after long periods of non-use or any exposure to a particularly dusty environment.

7. Specification

Model	AV600T	AV900T	AV1500T	AV1800T
Power	0.6 kW	0.9 kW	1.5 kW	1.8 kW
Voltage	230 V	230 V	230 V	230 V
Dimensions (h x w x d)	585 x 480 x 80 mm	585 x 560 x 80 mm	585 x 800 x 80 mm	585 x 880 x 80 mm
Weight	7.8 kg	9.2 kg	13.5 kg	15 kg
Timer	Yes	Yes	Yes	Yes
Current	3 amps	4 amps	7 amps	8 amps
Number of fins	4	5	8	9

Model identifier (s): AV600T					
Item	Symbol	Value	Unit	Item	Unit
Heat output			Type of heat input, for electric storage local space heaters (select one)		
Nominal heat output	P _{nom}	0.6	kW	manual heat charge control with integrated thermostat	No
Minimal heat output (indicative)	P _{min}	0.6	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	P _{max, c}	0.6	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
Auxiliary electricity consumption			fan assisted heat output		No
At nominal heat output	e _{lmax}	0	kW	Type of heat output/ room temperature control (select one)	
At minimum heat output	e _{lmin}	0	kW	single stage heat output and no room temperature control	No
In standby mode	e _{lSB}	0.001	kW	two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	Yes
				with electronic thermostat room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details :				Hyco Manufacturing Ltd, Castleford WF10 5NR hyco.co.uk	

Model identifier (s): AV900T					
Item	Symbol	Value	Unit	Item	Unit
Heat output			Type of heat input, for electric storage local space heaters (select one)		
Nominal heat output	Pnom	0.9	kW	manual heat charge control with integrated thermostat	No
Minimal heat output (indicative)	Pmin	0.9	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	Pmax, c	0.9	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
Auxiliary electricity consumption			fan assisted heat output		No
At nominal heat output	elmax	0	kW	Type of heat output/ room temperature control (select one)	
At minimum heat output	elmin	0	kW	single stage heat output and no room temperature control	No
In standby mode	elSB	0.001	kW	two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	Yes
				with electronic thermostat room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details :				Hyco Manufacturing Ltd, Castleford WF10 5NR hyco.co.uk	

Model identifier (s): AV1500T					
Item	Symbol	Value	Unit	Item	Unit
Heat output			Type of heat input, for electric storage local space heaters (select one)		
Nominal heat output	P _{nom}	1.5	kW	manual heat charge control with integrated thermostat	No
Minimal heat output (indicative)	P _{min}	1.5	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	P _{max, c}	1.5	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
Auxiliary electricity consumption			fan assisted heat output		No
At nominal heat output	e _{lmax}	0	kW	Type of heat output/ room temperature control (select one)	
At minimum heat output	e _{lmin}	0	kW	single stage heat output and no room temperature control	No
In standby mode	e _{lSB}	0.001	kW	two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	Yes
				with electronic thermostat room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details :				Hyco Manufacturing Ltd, Castleford WF10 5NR hyco.co.uk	

Model identifier (s): AV1800T					
Item	Symbol	Value	Unit	Item	Unit
Heat output			Type of heat input, for electric storage local space heaters (select one)		
Nominal heat output	P _{nom}	1.8	kW	manual heat charge control with integrated thermostat	No
Minimal heat output (indicative)	P _{min}	1.8	kW	manual heat charge control with room and/or outdoor temperature feedback	No
Maximum continuous heat output	P _{max, c}	1.8	kW	electronic heat charge control with room and/or outdoor temperature feedback	No
Auxiliary electricity consumption			fan assisted heat output		No
At nominal heat output	e _{lmax}	0	kW	Type of heat output/ room temperature control (select one)	
At minimum heat output	e _{lmin}	0	kW	single stage heat output and no room temperature control	No
In standby mode	e _{lSB}	0.001	kW	two or more manual stages, no room temperature control	No
				with mechanic thermostat room temperature control	Yes
				with electronic thermostat room temperature control	No
				electronic room temperature control plus day timer	No
				electronic room temperature control plus week timer	Yes
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	No
				room temperature control, with open window detection	Yes
				with distance control option	No
				with adaptive start control	No
				with working time limitation	No
				with black bulb sensor	No
Contact details :				Hyco Manufacturing Ltd, Castleford WF10 5NR hyco.co.uk	

8. Guarantee and Service Policy

This product is covered by a standard parts or replacement warranty for a period of 2 years from the date of purchase.

If there is a manufacturing defect within the warranty period we will send spare parts, repair and return the unit or, at our discretion, supply a replacement product. Incorrect installation and failure to follow correct operating instructions are excluded. Consequential costs such as labour charges or damage to surroundings are expressly excluded.

9. Contact Us

If you experience a problem with this product you should first contact our service department on 01924 225 200 before taking any further action. Experience has shown that issues can often be resolved without the need to return or uninstall the product.



INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU.

At the end of its working life this equipment must not be disposed of as household waste. It must be taken to a local authority waste collection centre or to a dealer providing this service. Disposing of electrical and electronic equipment separately enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed out dustbin.

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E sales@hyco.co.uk