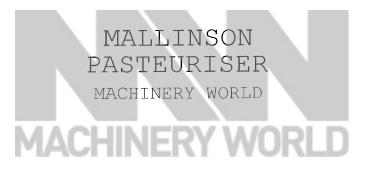
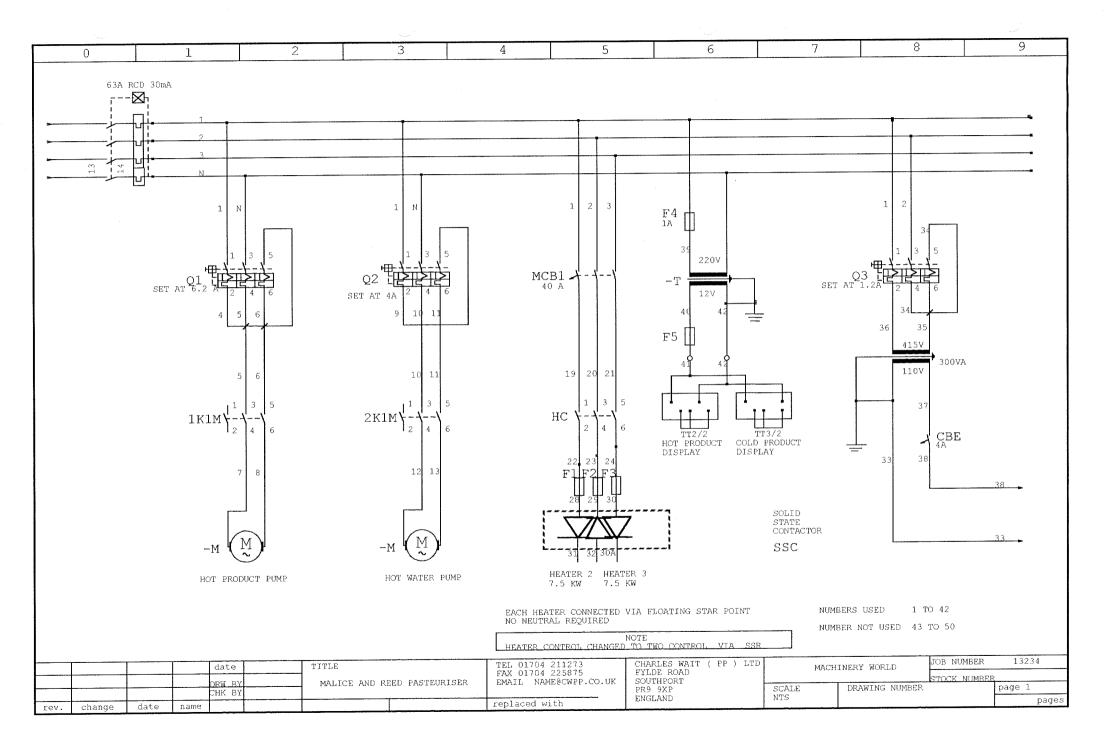
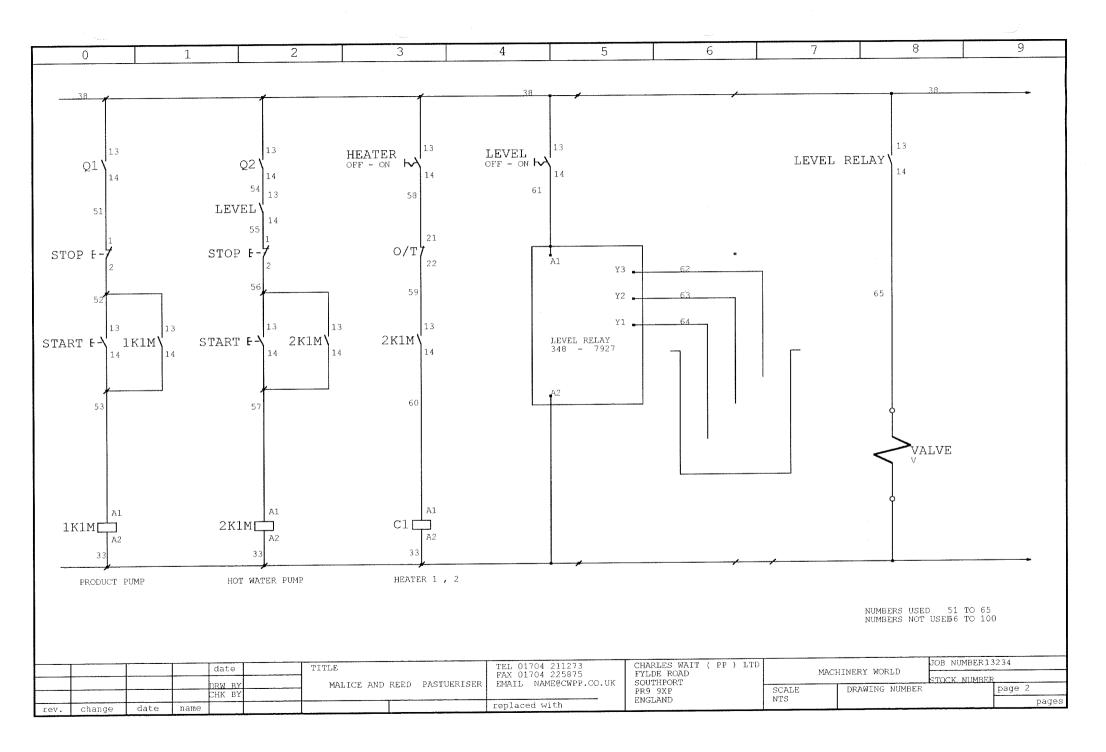
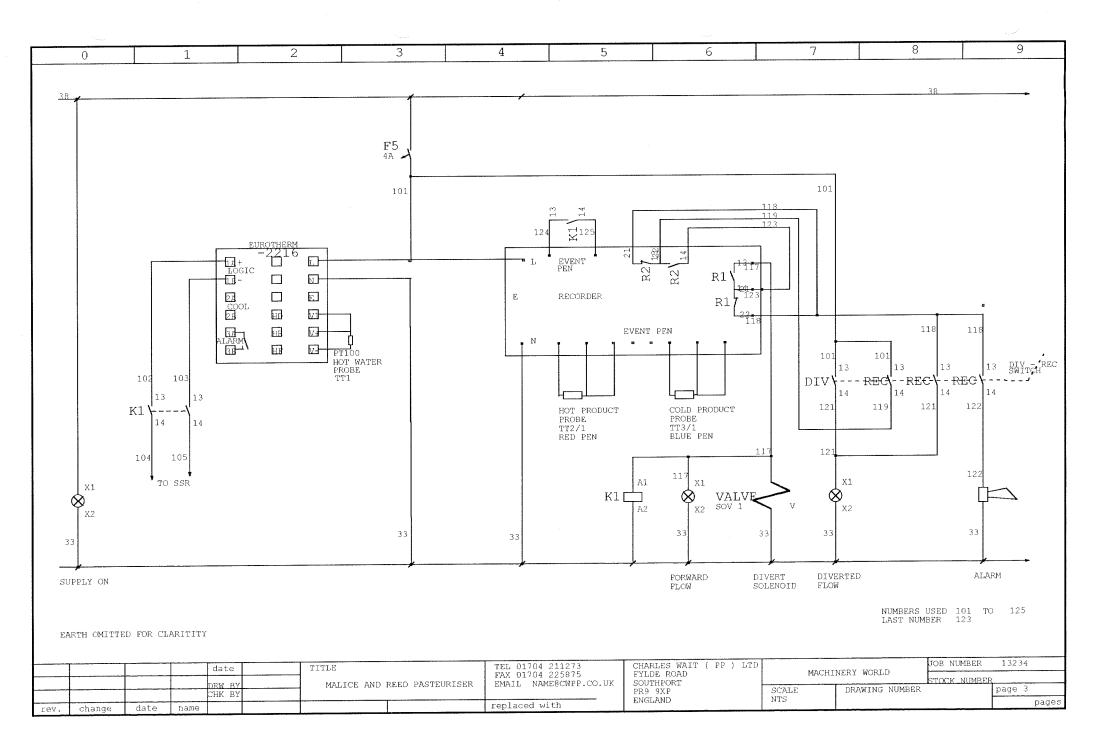
#### CHARLES WAIT ( process plant ) LTD

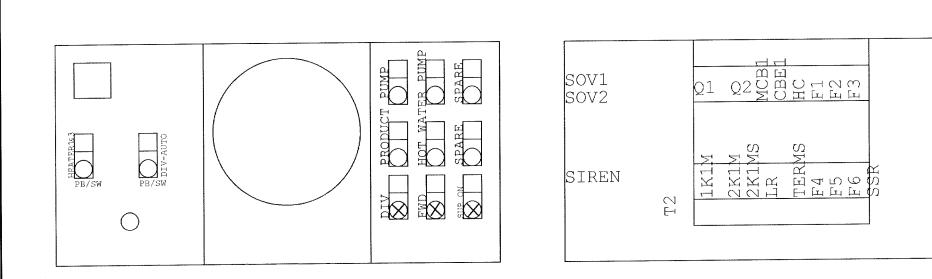


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		COPIES	NAME OR LOCATION OF COPY	DATE		
		1	ELECTRICAL FILES	18/1/01		
		1	CWPP MANUAL	18/1/01		
		1	CLIENTS MANUAL	18/1/01		
VOLTAGE	415V PLUS NEUTRAL PLUS EARTH	CONTROL VOLTAGE 110 V				
CURRENT	30A	ISSUE B				
WATTAGE	22KW	WORKS	ORDER NUMBER 11.08 13234			









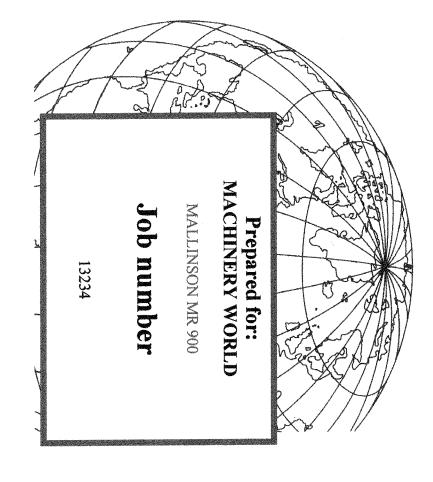
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ISSUE ONE

# (process plant) Ltd

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#### NUMNODO H-DE UMCDDIN SAFETY **EQUIPMENT MANUALS** WIRING DIAGRAMS OPERATING SPARES RESERVED CALIBRATION CERTIFICATES SECTION **PARTS** INSTRUCTIONS

#### Section 1

# *INTRODUCTION / FORWARD*

plant) ltd, with instructions, which will enable the equipment to be operated safely and efficiently. The purpose of this manual is to provide the operators of the equipment, supplied by Charles Wait (process

All operating personnel should read this manual carefully and pay special attention to the safety warnings and cautions stated in the manual and the safety labelling placed on the equipment, before attempting to operate or service the equipment. Special attention should always be given to familiarising all personnel with the position of the emergency stop switches and other safety features before attempting to start the

output performance. It will give every satisfaction, provided it is operated, in Accordance with the information in this manual and normal safe working practices. and great care is taken in its design and manufacture to reduce hazards, promote safety, reliability and All equipment new supplied by Charles Wait (process plant) ltd is constructed from high quality materials

Charles Wait (process plant) Itd

151 Fylde Road

Merseyside Southport

PR99XP

England

Web site E-mail sales@charleswait.co.uk www.charleswait.co.uk

# The supply or machinery (safety) regulations 1992

All Charles Wait (process plant) ltd equipment new complies with the above regulations and is designed and manufactured in conformity with specified European harmonised standards and UK national standards satisfying essential Health and Safety requirements.



the machine. A copy of Conformance is supplied on completion of satisfactory installation. The appropriate conformity assessment procedure has been carried out and CE marking has been affixed to

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# CONTROL PANEL CARE

### SAFETY INFORMATION

enclosure All control panels contain devices that are dangerous and only skilled persons should access the

Some control panels contain live terminals that are supplied from external sources

It is essential that all supplies are isolated before working on the control panel.

Persons working on control panels should have a working knowledge of the IEE wiring regulations BS 7671 1997, Health and Safety at Work Act and the Electricity at Work regulations.

No special tools are required to service the panel.

## INSTALLATION GUIDANCE

Check panel for transit damage

for tightness before installation. Where panels have been in transit for long periods, it is advisable to check all terminals and fixings

### **EXTERNAL WIRING**

All external wiring should be in accordance with the IEE wiring regulations, BS 7671 1997

Do not earth via conduit fittings.

### **OPERATIONAL CHECKS**

Connect the main cable as shown on the wiring diagram.

Check the operation of the control circuit

Perform insulation tests as appropriate, but DO NOT test thermister or PT100 circuits with high voltage

Check overloads are set to their correct setting. Inverters may require setting.

# WORKING ON LIVE EQUIPMENT

Working on live equipment must be authorised by the relevant authority on site.

### ROUTINE INSPECTION

# DISCONNECT ALL SUPPLIES

#### Check for.

- Overheating
- Ingress of dirt or moisture
- Check all screws and fixings are tight
- Check all moving parts for ease of operation
- Examine all wiring, particularly near metal parts, and check for insulation damage
- 9 Check all connections are tight
- Check push buttons for normal operation
- 00 Check mechanical interlocks of motors are functioning correctly
- Check door seals are free from damage
- 0 Check incoming and outgoing cables are securely fastened to the enclosure
- Check all earth connections are tight and free from corrosion
  - Carry out insulation tests with caution
  - Check fuses are of the correct size and check for signs of overheating
  - Check door isolator functions correctly
  - Check overloads are set correctly
  - Check thermister units function correctly, if they are fitted
  - Check all indicators are functional
  - Should any wiring appear damaged replace it
- Ensure all instruments are in calibration
- Spares are available from Charles Wait (Process Plant) Ltd