



W. & P. Reedy Pty Ltd

SERVICE, SUPPLY & MANUFACTURE OF
PASTRY COOKS AND BAKERS EQUIPMENT
A.C.N. 002 383 860
Established 1935

Office and showroom
NSW: 31 Stanley Street Peakhurst, Sydney, Australia
Correspondence: P.O. Box 137 Peakhurst NSW 2210

Ph: (02) 9533 9522 fax: (02) 9533 9011

Sydney after hours 0408 298 291

INSTRUCTION MANUAL WATER CHILLER MODEL PRR 50(N)



Index:

General information	page 1
Water Cooler and its components	page 2
(Chap. 1) Useful information	page 3
(Chap. 2) Working cycle	page 4
(Chap. 3) Location and installation guide	page 7
(Chap. 4) Technical data	page 8
(Chap. 5) Movement and transport	page 9
(Chap. 6) Installation and Final test	page 10
(Chap. 7) Putting into use	page 11
(Chap. 8) Maintenance and Service	page 12
Customer Fault Finding	page 13
Electric circuit	page 14
Decibel Output	page 14
Risks	Page 15
Parts Diagram	Page 16

GENERAL INFORMATION.

THIS MANUAL IS TO BE CONSIDERED AS AN INTEGRAL PART OF THE MACHINE AND MUST BE CONSERVED WITH THE MACHINE THROUGHOUT ITS WORKING LIFE.

Before carrying out any operation, it is important to read this instruction manual thoroughly, particularly the section concerning risk(see page 15).

This manual should be kept in a way so that it is available for consultation at any time and kept so that it is not damaged (ie. protected from chemicals, humidity, dust, sunrays, etc.).

The manufacturer has the right to modernise production of the instruction manual without any obligation of modernising previous production of this manual.

The manufacturer is not responsible for any malfunctioning of the machine caused by:

- * Irrational, improper and erroneous use of the machine**
- * Contrary use (Contrary to the operation as stated in this manual)**
- * Incorrect installation**
- * Faulty power supply to the machine**
- * Lack of maintenance as prescribed by the manufacturer**
- * Modifications or unauthorised interferences**
- * Use of spare parts which are not original or specified for this model**
- * Non-adherence of the instructions contained in this manual**

This machine should only be installed in a well ventilated area to ensure adequate air circulation around the compressor. The environment where it is installed should be free from dust and airborne particles, as this can block up the condenser. The use of aerosol spray cans for greasing tins and trays will leave fine airborne grease particles in the air, which when coming into contact with walls and equipment will leave a very sticky substance which will attract dust. This is especially the case for the condenser on the water cooler, if the water cooler is mounted above the spiral mixer. Therefore we recommend that aerosols are not be used in the bakery for greasing.

On delivery of the machine and after removing the packaging you should make sure that all the components have been packed. A complete list of items is on page 2. In case of any doubt you should consult the qualified personnel or the supplier.

Components of package



- 1 x Water cooler unit complete with power cord and plug and control unit with cord
- 1 x Standard wall bracket
- 10 x Screws for wall bracket
- 10 x Wall plugs for wall bracket
- 2 x Hoses for inlet water with fittings attached (2 different styles)
- 1 x Hose for outlet water
- 1 x Water filter with 2 brass fittings
- 2 x Hose connectors
- 1 x Water filter housing bracket
- 1 x Stainless steel U fitting for outlet hose
- 1 x Fitting for the outlet on water cooler
- 2 x Hose clamps for outlet hose
- 3 x Screws for water filter bracket
- 3 x Wall plugs for water filter bracket
- 1 x Manual

CHAPTER 1:

Useful information

NAME OF SUPPLIER	W & P Reedy Pty Ltd.
ADDRESS	31 Stanley St, Peakhurst, Sydney
DAY TIME PHONE NO	02 9533 9522
AFTER HOURS PHONE NO	02 9533 9522
NAME OF MANUFACTURE	Sitep
TYPE OF MACHINE	Water Cooler (and heater for models ending with “N”) and metre

Contacts in W & P Reedy P/L.:

MACHINE SALES:	Lars Bryndum & William Knott
MACHINE USE:	Lars Bryndum & William Knott
MAINTENANCE:	William Knott
SPARE PARTS:	William Knott

FINAL TEST RESULTS & CHECKS BEFORE SHIPPED:

Serial number of unit: _____

Maximum deposit amount: _____

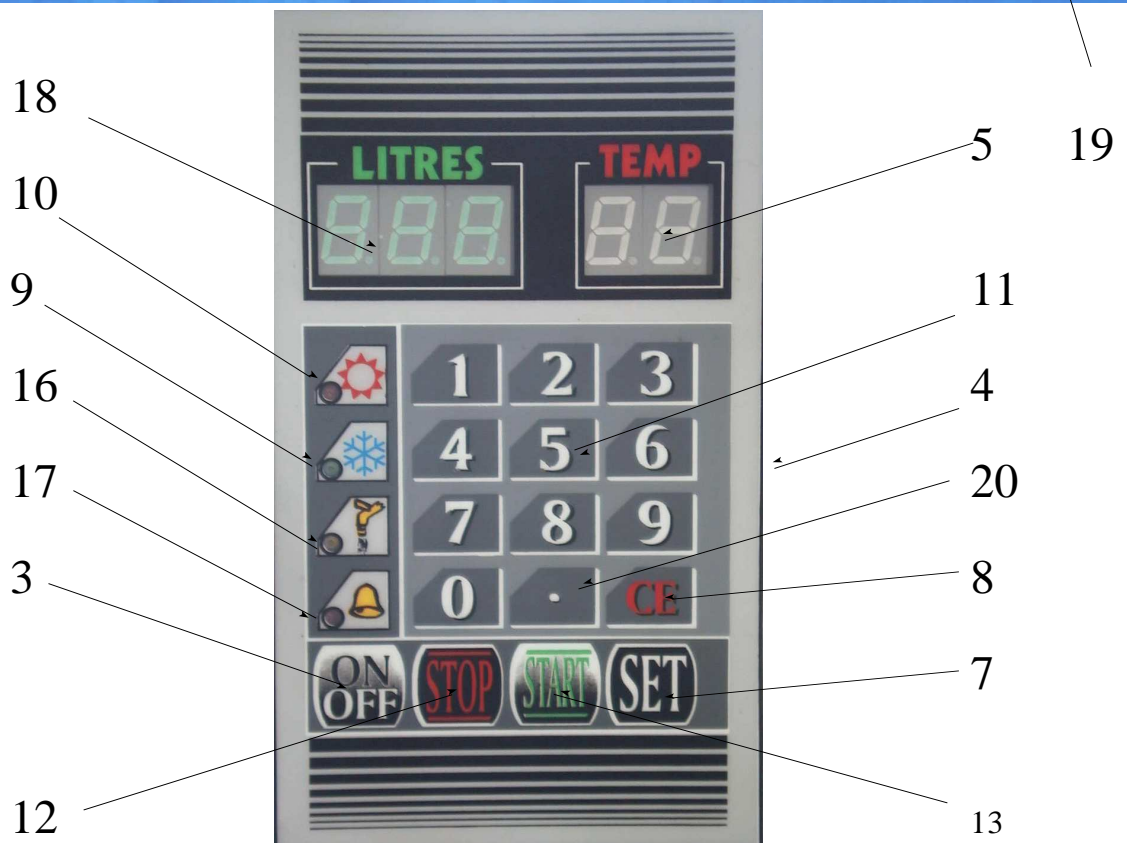
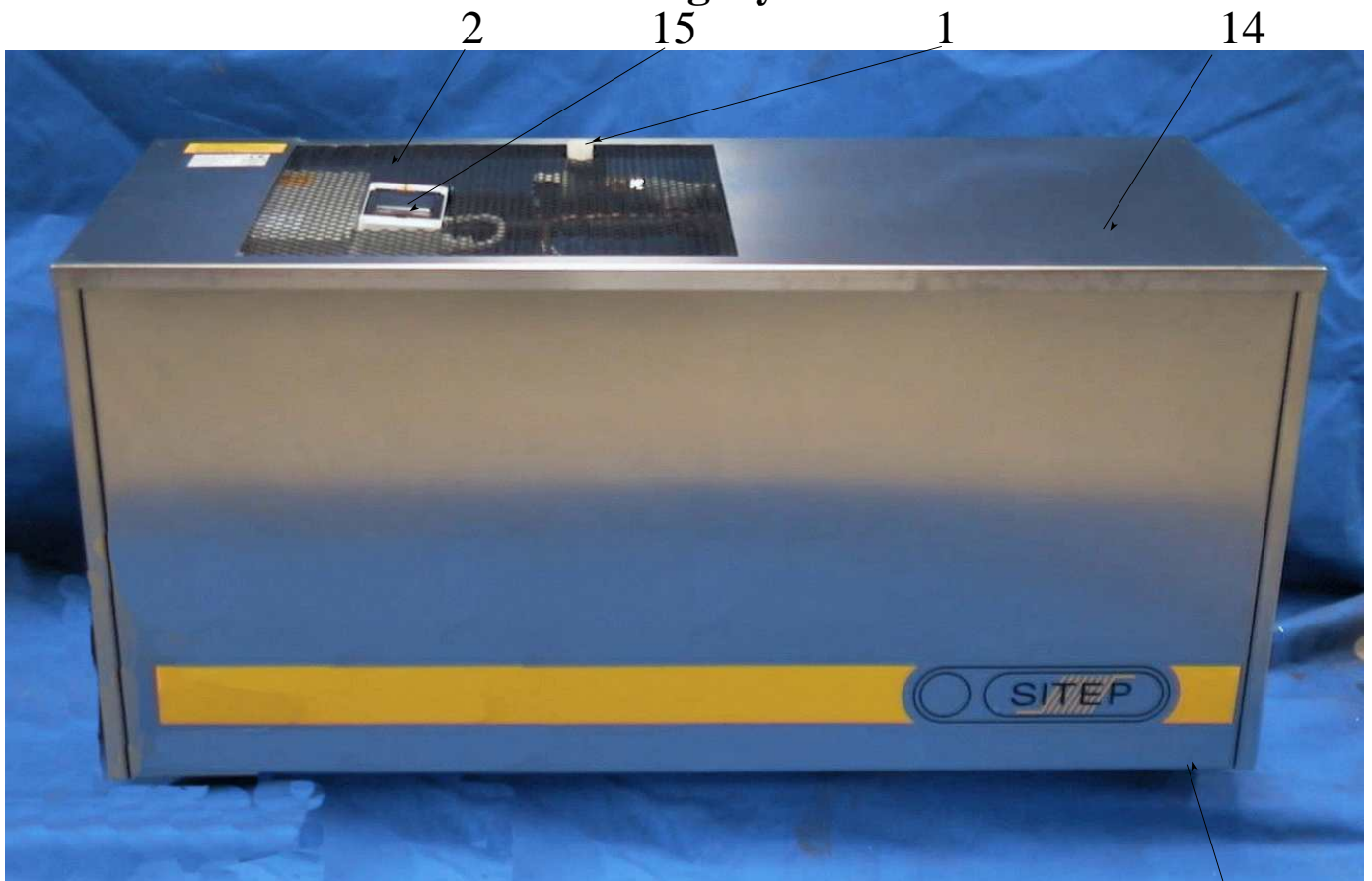
Weight of 25.5 litres deposited: _____

Checked by: _____

Date: _____

CHAPTER 2:

Working Cycle



- A) **Connect water to the Machine ① through the supplied water filter. Open the tap fully.**
- B) **Connect electricity to machine② and turn on the power at the power point.**
- C) **Check that the earth leakage switch(this switch provides protection to the operator and in case of variations in current) ⑮ is turned on.**
- D) **To turn the machine on. Use the “ON/OFF” button ③ on the control panel ④ Press for 3 seconds.**
- E) **Water tank will fill with water ⑭.**
- F) **When the water tank is full the water will stop automatically and the recirculating pump starts.**
- G) **The water temperature will automatically appear on the control panel display⑤.**
- H) **Set the controls to the required cooling or heating temperature in the models ending with “N”. (Difference between cut in and out temperature is 2 degrees.) To set the required temperature. Press “SET”⑦, the temperature display ⑤will flash press “CE”⑧ to clear previous setting, enter the temperature that you require by using the numerical key pad ⑪ (minimum temperature 2 degrees and maximum 32 degrees for the heater units), leave for 30 seconds or press “SET” . and the figures will stop flashing. The water cooler will now either cool or heat up the water.**
- I) **The compressor will start if the water is warmer then the set required temperature and the ice cycle symbol light ⑨ on the control unit will come on. For the heater models if the water is cooler than the set temperature the element will start heating the water and the sun symbols⑩ will come on.**
- J) **When the required temperature is reached the compressor will stop and the ice cycle symbol light will go off. For the heater models the element will switch off and the sun symbol will go out.**
- K) **To enter the required quantity (litres) ⑱ of water to be deposited press “CE” to clear the previous setting and then enter the required amount using the key pad. To enter decimal litres press “.”⑳ and then the decimal amount required.**

- L) To deposit the preset litres through the deposit hose ①9, press “START” ⑬ and the unit will automatically deposit the set amount (the accuracy will be within 2%). You can stop the deposit at any time by pressing “STOP” ⑫. The litre amount ⑱ remaining to be deposited will flash, to complete the deposit press “START”. If you want to cancel the deposit press “STOP” again. The machine resets to the previous deposited amount.**
- M) When the “START” button is pressed the deposit light ⑰ will light up.**
- N) When the “START” button is pressed the compressor, element, recirculation pump and water fill will stop and or switch off if they were on when the start button was pressed. (If not enough time is given to allow the tank to fill and the set temperature to be reached you will not be able to get a full deposit at the right temperature.)**
- O) After the set quantity of water has been deposited the deposit pump will stop and the tank will automatically commence filling.**
- P) At the end of the day when you have finished your production. Press “ON/OFF” to turn the machine off. (It is not recommended that you leave the machine on when not in use. Leaving the machine on will cause excess wear and tear on working parts, therefore this may reduce the life of the machine.)**
- Q) If the machine overheats during a working cycle the red warning light ⑲ will come on.**

CHAPTER 3:

INSTALLATION AND LOCATION GUIDE:

The machine must be installed in an environment in which the temperature does not exceed 30 degrees Celsius.

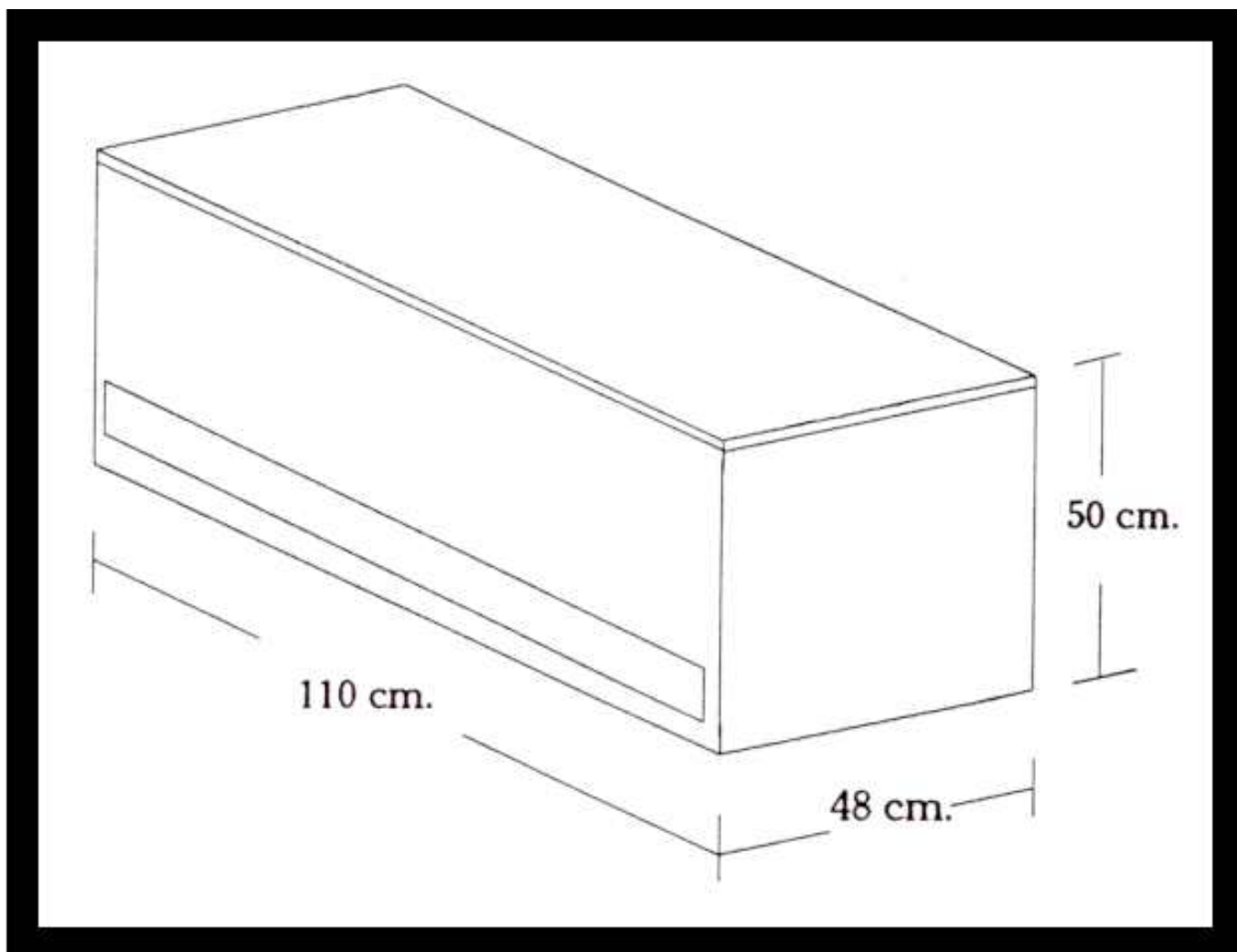
- ! The machine should be fixed horizontally to a solid brick wall by the bracket provided using all the ten plugs to spread the load of the unit evenly. Other options are a stand which should be fixed to the wall, or a special wall bracket which will enable fixing onto Bessa brick walls. After the bracket or stand has been fastened to the wall, make sure that it is stable, as the machine weighs 140Kg when full. Position the electric control unit in a location where no water is likely to splash on it and away from direct sunlight.
- ! Position the machine in a location where there is adequate ventilation (airflow) ie. not in a recess in the sealing and not in front of airconditioner inlet/outlet. as the machine produces heat and requires air circulation to remain cool. i.e. not in recesses where the air cannot circulate around the machine.
- ! If the water cooler is to be placed in the ceiling, please ensure that there is easy access for cleaning, maintenance removal if necessary and service. (Any cost incurred in removing from, and reinstalling the water chiller in the ceiling cavity is not covered by warranty.)
- ! Ensure that the area where the machine is to be installed is a clean, dust free and free of vermin.

Follow the diagram in the chapter 6 “INSTALLATION AND FINAL TEST” for correct positioning and location.

- ! Connect the machine to a source of drinking water with a maximum pressure of 3 bars. **POLLUTED WATER SHOULD NOT BE USED IN ANY INSTALLATION. DO NOT USE HOT WATER.**
- ! For Electrical connection see chapter 6.
- ! The machine is designed to cool (or heat in models “N”) drinking water.
- ! The machine should be used by an operator who must have read through this manual.

CHAPTER 4:

TECHNICAL DATA:



REFRIGERATED/HEATED MODELS		PR50	PR50N	PRR50	PRR50N
Capacity	lt	50	50	50	50
Weight empty	kg	70	70	90	90
Weight full	kg	120	120	140	140
Voltage 240, 50 Hz single phase		●	●	●	●
Rapid cooling + 18 to + 3 in 15minuts				●	●
Normal cooling 1 hour		●	●		
Built in heater			●		●
Heater power 240 volt	watt		1500		1500
Compressor size	hp	1/3	1/3	1.2	1.2

CHAPTER 5:

MOVEMENT AND TRANSPORT:

**When lifting the machine a lifting device should always be used.
Always lean and move the machine in a horizontal position.
The machine should never be inclined at an angle greater than 45 degrees.
The machine should be completely emptied before transportation.**



CHAPTER 6:

INSTALLATION AND FINAL TEST.

Fasten the bracket to the wall leaving a minimum distance from the ceiling and to the wall on the right hand side of the machine (frontal view) of at least 300mm. (See below) USE ALL THE WALL PLUGS TO SPREAD THE LOAD OF THE UNIT EVENLY.

Mount the Bracket in a horizontal position using a spirit level.

- ! After having checked that the bracket is well fastened to the wall (the machine weighs 140kg when full) mount the machine using the special bar on the back of the machine.
- ! Position the electronic key board in a comfortable position away from direct sunlight and fasten it.

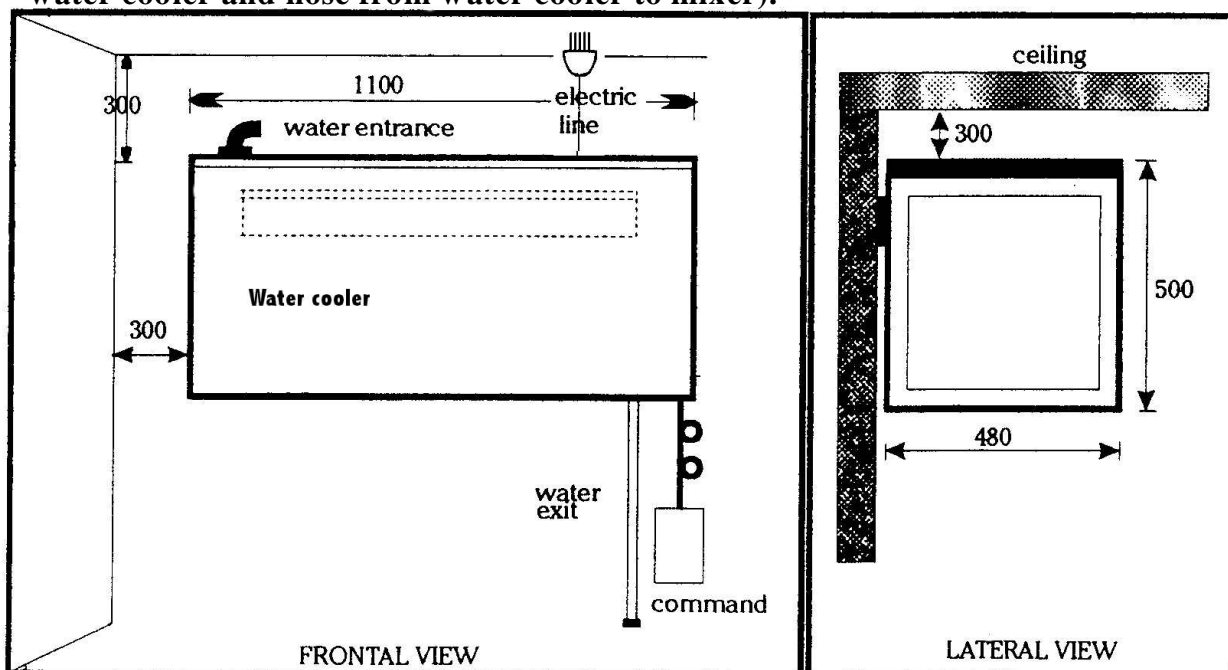
Attach the machine to a 3/4" tap of drinking water and with a maximum pressure of 3 Bars. INSTALL THE SUPPLIED FILTER BETWEEN THE TAP AND THE WATER COOLER WITH THE SUPPLIED HOSES.

The Power should be connected to a standard 10 amp power outlet ensuring that the machine rating corresponds to input current (these values are written on the plate on top of the water cooler).

After having carried out the above operations, you can start the machine by pushing the "ON/OFF" button on the control panel, if it does not turn on you should check the electrical supply to the machine, also check that the earth leakage switch (See page 16, (Parts diagram) Part number 7) on top of the machine is switched on. For further fault finding refer to page 13.

Run through the working cycle (see chapter 2).

Check for any leaks on all hose connections (hose from tap to filter, from filter to water cooler and hose from water cooler to mixer).



CHAPTER 7:

PUTTING INTO USE:

SETTING THE TEMPERATURE.

As per Chapter 2.

EXAMPLE:

To set temperature to 10 degrees press in the following sequence: “SET” “CE” 10 “SET”

If by error the wrong number is entered, wait twenty seconds or press “CE” and repeat the operation.

SETTING THE ELECTRONIC LITRE-METRE.

As per chapter 2.

EXAMPLE:

To set-up a deposit of 20.5 litres of water press in the following sequence: 2 0 . 5
To deposit the desired quantity of water, press the “START” button and this will initiate the flow of water with relative counting on the scale visible on the display; it is possible to stop the counting, by pressing the “STOP” button, to restart counting press the “START” button.

At the end of the required deposit the machine automatically stops the flow of water and the display turns to the previous set value and can be re used by pressing the “START” button, if in case you want to change the value press the “CE” button and enter the new value.

In order to obtain smaller quantities of water, less than a litre, press the “CE” button and press the decimal point “.” then the value of decilitres from 1 to 9.

It is not recommended that the machine is used to dispense less than 5 litres as the quantity of water left in the hose can cause inaccuracy in the deposit. If small amounts are to be deposited ensure that the hose is completely emptied and / or it is in the same height was maintained from the previous deposit.

! ELECTRONIC PROTECTIONS.

When over heating occurs, either due to atmospheric temperature being high or deposits of dirt on the condenser, the compressor stops automatically and the red indicator (located above the ON/OFF button) starts flashing.

If the cause of the over heating is accidental it will be alright to press the “STOP” button and restart the machine pressing the “START” button after 15 minutes.

If the cause is due to deposits of dust on the condenser, it must be cleaned before the machine is turned on again. (See Chapter 8).

CHAPTER 8:

SERVICE MAINTENANCE:

Service maintenance of the unit should be carried out at least twice a year. More often if required and only by authorised service companies (the cost for this maintenance service is charged to the customer). This maintenance consists of cleaning all the parts in contact with water, the check of the pressure of the refrigerant, the electrical insulation, checks of all electrical terminals and all the functions of the machine as well as the accuracy of the deposit.

Regular maintenance should be carried out by an authorised service agent. This ensures that the unit is functioning to full capacity and the likelihood for a breakdown occurring is minimised.

The repairs, should only be done by qualified personnel authorised by the W&P Reedy (see chapter 1).

OPERATOR MAINTENANCE

This is essential especially where the unit is working hard and in areas with dust and dirty water. This maintenance should be carried out by the operator. Clean the condenser (located on the left hand end of the machine facing the machine) behind the safety mesh, by using a compressor with a pressure between 2 and 4 atmosphere. (Do not use a vacuum cleaner as it would have little effect and only clean the condenser superficially).

Ensure that the water supply filter located on the supply hose above or next to the machine, is replaced regularly (how often depends on the water quality)

SERVICE BREAKDOWN:

! For service in case of breakdown this should be carried out by qualified personnel only and if there is a warranty issue the repair has to be approved prior to the service is being conducted.

MAINTENANCE & SERVICE SCHEDULE:

Daily:	Clean/wipe control panel with moist rag.
Weekly:	Clean/wipe water cooler with a moist rag.
Monthly:	Clean evaporator on water cooler (See above).
Every 6 months:	Change water filter and have the above Service maintenance carried out.

Customer Fault Finding:

PROBLEM ENCOUNTERED	REMEDIES
Why will the unit not turn on ?	<p>Check if lead is plugged correctly into the power point Check the power point is turned on. Check earth leakage switch is in the on position (see page 10) Hold down the “ON” button on the control panel for more than 3 seconds?</p>
Why does the water tank take a long time to fill?	<p>Check that the mains water tap is fully opened. Check that the water filter is clean ? Replace if necessary. Check that the water pressure is sufficient.</p>
Why won't the unit deposit water ?	<p>Machine requires a minimum of 7 minutes to fill empty tank. There could be an air bubble developed in the pump due to the quantity of water have been set higher then the capacity of the tank. To rectify this problem make sure that the tank is full of water and then suck the air bubble out of the pump after by sucking at the outlet end of the deposit hose after pressing the “start” button. Re enter a lower amount i.e. 45 litres.</p>
Why won't the unit cool down the water?	<p>Is the air inlet to the condenser on the right hand side of the machine clear of obstructions and clean. Check that no items are on top of the machine which stops the air circulating of the machine. Ensure that the machine is given enough time to refill (about 7 min). The acceptable cooling time is 1 degree per 2 minutes. Has the temperature been set correctly. (See chapter 3)</p>
Why is the red warning light on(bell)?	<p>Is there sufficient air circulation around the machine (see page 12) Is the condenser clean (see maintenance chapter 8) Turn off machine and wait for 15minuts and then turn on the machine again (see chapter 7) If switches of again call service agent.</p>
Why will the unit not heat up the water?	<p>Ensure that you have a model ending with “N” Has the temperature been set correctly. (See chapter 3) Ensure that the machine is given enough time to refill (about 7 min).</p>

If after checking these faults and the problem still exists contact either W&P Reedy or their nearest Service Agent.

ELECTRIC CIRCUIT: Type.

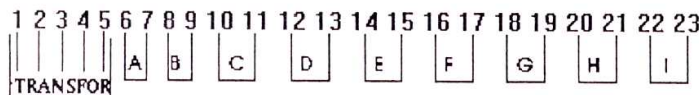
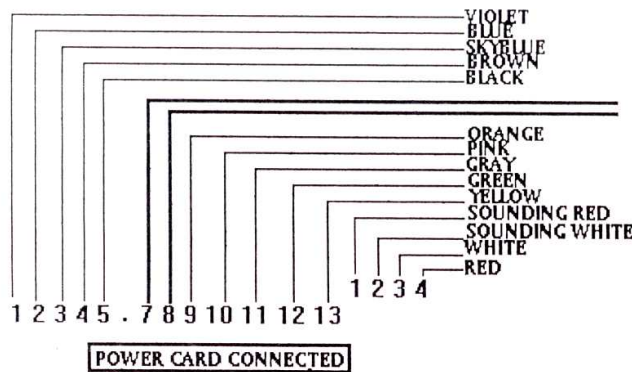
Transformation of voltage 220-12-24 Volt.

Control circuit with low voltage 24 Volt, solenoid valve 24 Volt.

The electronic control panel with the keyboard for setting up commands functioning at 24 Volt.

Power	40 Watt
Voltage	240 V
Control amperage	190 mA.
Alimentation line	FROR-NPI-450/750-1x3x1,5mm
Power required	240 V
Control circuit	24V
Electric system	TN-S/TT
Operating Temperature	+1 +35 degrees C.
Machine's protection	IP 44
DB max output	82 db

Wiring diagram



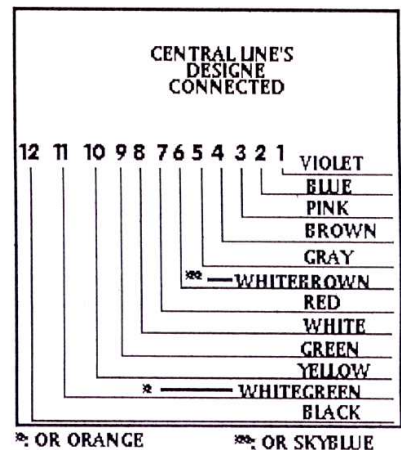
TRANSFORMATOR LINKS

- 1- 24 Volt
- 2- 12 Volt
- 3- 0 Common
- 4- 220 Volt phase
- 5- 220 Volt neutral

- A- Compressor
- B- Alimentation 220 Volt
- C- Heater resistance
- D- Discharged pump
- E- Solenoid-valve group
- F- Water-transferred pump
- G- Pressostat
- H- Discharged solenoid-valve
- I- Impulse launched

MULTITHREAD LINE COLOURED

- YELLOW — IMPULSE LAUNCHED
- GREEN —
- WHITE — THERMOSTAT FEELER
- RED —
- WHITEBROWN — TEMPERATURE-ALARM'S LED
- BROWN — CHARGED SOLENOID-VALVE
- GRAY — DISCHARGED PUMP
- BLUE — HOT RL2
- VIOLET — COLD RL1
- PINK — 24 VOLT
- WHITEGREEN — 12 VOLT
- BLACK — 0 TRANSFORMER



Decibel Output

During operation, the machine emits an output of less than 82db (A).

As the positioning of the machine will vary from location to location, it has been tested for maximum emission as set out below.

Height from the ground: 1.6 metres

Distance from the machine: 1.0 metres

From this test it is deduced by the manufacturer that the machine does not produce detrimental noise emissions and therefore the operator does not need to wear ear protection.

----- RISKS DANGER ! -----

A) Wrong installation of the machine

If the machine is installed in an incorrect position, (ie not horizontal), it will result in loss of water.

Check thoroughly that the wall bracket or stand has been fastened correctly to the wall, if it is not securely attached to the wall the machine will fall.

B) Positioning of the machine in relation to the environment and the workplace.

The machine conforms to protection code 44IP and can therefore not be installed in an environment where there are explosive substances in the form of gasses.

C) Carrying and transportation of the machine.

The machine must be transported in a horizontal position and not inclined on the side or posterior. It should always be transported on a cart and a scissors lift used to lift the unit of the ground.

D) Objects under the machine.

The machine and / or filter might experience loss of water, it is advisable not to put objects that can be damaged by water under the machine.

E) Risks relating to maintenance.

During maintenance, if the protecting panels are removed it should be done with caution knowing that the refrigeration system is always under pressure, and bursting one of the pipes will cause the flow of inflammable gas.

There is also an electrical risk as the machine has got a power coerced of 240 volts.

There is also a mechanical risk from the motor fan, if the covers are removed, as this could be starting sporadically as it is electrical driven.

F) How to proceed with the machine.

The operator must only proceed to use machine after reading the manual which must be available for reference at all time.

A repairer must be a professional in this field, and must be authorized to work on this machine by W & P Reedy P/L. Before carrying out any form of maintenance.

PARTS DIAGRAM

