KENTMASTER EQUIPMENT (AUST) PTY LTD
Unit 2, 24 Central Court
Hillcrest, QLD 4118

OPERATOR'S MANUAL

Including, Safety, Equipment Description, Operation and Clean Up
And Installation Guidelines.

Kentmaster Vac-San Unit.

Water & Steam.

Important, Read this manual carefully before installing, operating or servicing this equipment.

Date: June 2012.

The Vac-San steam/water vacuuming system was originally invented and developed by Kentmaster Manufacturing Co., Monrovia, California, U.S.A. It has USDA approval, AQIS approval and is patented in the U.S.A. with foreign patents applied for, including Australia.

The patented process removes contamination more effectively than conventional trimming methods. It is simple to operate and very effective in reducing Bacterial Contamination, E coli, and other contamination.

The unit has been tested and approved in Australia. AQIS regulations also state:-

- The equipment is not to be used as a replacement for effective and proper sanitary dressing techniques.
- The equipment can be used in a **sweeping motion** for removal of incidental visible contamination such as single hairs, wool fibres and wool dust on the skin opening lines.
- The equipment can be used for **localised 'spot' treatment** only on incidental contamination, being faecal and ingesta contamination less than 25mm in its greatest dimension. Contamination greater than this must be removed by knife trimming.
- The system must provide accurate temperature and vacuum reading. Once the temperature and vacuum parameters are adjusted, before operations start, the system should work properly and steadily without significant fluctuations.
- Water or steam temperatures at the carcass surface must be maintained at a minimum of 82° C. The system must also have an automatic shut-off system or other device to alert the operator when the temperature of the water or steam falls below 82° C.
- The vacuum pressure at the carcass surface must be sufficient to remove the steam and water from the vacuum area to prevent dripping.

AQIS guidelines must be adhered to in the use of the Kentmaster Vac-San Unit.
Your Vac-San Unit is supplied with quality non adjustable gauges. They are manufactured in accordance with AS 1349 and meet very good standards for accuracy of gauges.

Kentmaster Testing Kit:
To ensure the Vac-San Unit complies with AQIS requirements or questions of temperature, pressure and vacuum, we have available for purchase a NATA certified calibration kit for verifying operating parameters.

On later model Vac-San Units typically those manufactured after May 1998 these tests can be carried out quickly and simply at the installed **test points.** Test points can also be installed on the earlier models without too much effort. Consult Kentmaster for price and details on the Testing Kits. This test kit can also be used for other testing purposes throughout your plant by your QA people.

INDEX

Kentmaster Vac-San.

SAFETY INSTRUCTIONS.

WARNING Do not operate this equipment until you have read and understood the safety instructions and operating manuals.

WARNING Do not operate this equipment until you have received training in the handling, operation and use of this tool.

WARNING **The Vac-San uses very hot water, very hot steam which can cause severe burns and personal injury.**

WARNING Stop using malfunctioning or defective equipment immediately. Report any problems or defects to your Supervisor for removal of the tool from service.

WARNING Do not attempt to repair the equipment yourself.

WARNING Do not allow unauthorised persons to use this equipment.

WARNING Turn off steam, water and power when the equipment is left unattended for extended periods or not in use.

WARNING Never tie down, bypass, alter or modify the activating switches of this equipment.

WARNING Never make alterations or modifications to this equipment.

WARNING Be constantly aware and alert for unsafe conditions and report them immediately to your supervisor.

WARNING Never place your hand or any part of your body in the path of the vacuum wand or relief valve blow down pipe.

WARNING Never allow anyone else to place their hands or any part of their body in the path of the vacuum wand or relief valve blow down pipe.

WARNING Do not activate control switches of this equipment unless you intend to test or operate this equipment.

WARNING Do not use this tool for any other purpose other than its intended purpose.

CAUTION For some applications, it is necessary to wear a face mask and rubber gloves. Be sure to wear the safety equipment supplied to you by your supervisor.

WARNING The noise emission (sound pressure level) at the work station may exceed 85 dB (A). Ear and sound protection gear may be required.

LEGEND

WARNING	= Hazards or unsafe practices which could result in severe personal injury.
CAUTION	= Hazards or unsafe practices which could result in minor personal injury.
NOTICE	= Important installation, operation or maintenance information.
WARNING	= Hot steam, Hot water can cause severe burns and personal injury.

EQUIPMENT DESCRIPTION.

The Kentmaster Vac-San Water / Steam Vacuum Sanitation system consists of the following major components:-

- **Control Cabinet.**
  1. Steam & Water Pressure Gauges. **997511 (2)**
  2. Vacuum Gauge. **997512**
  3. Water & Steam Temperature Gauges. **997513 (2)**
  4. Pressure Regulators. **997533 (3)**
  5. On / Off Valves (Water & Steam). **997535 (3)**
  6. Vacuum Hose to Hand Wand. **997644 (3Mtr)**
  7. Low Pressure steam and Water Hoses to Hand Wand. **997643 (3Mtr)**
  8. Hand Wand. **2" 997642**
  9. Low Temperature Warning System.
  10. Pressure Relief Valves. **997563 (2)**
  11. Solenoid kit for steam & water shut off (optional).

- **VACUUM BLOWER.**

Vacuum Blower.

The system features a direct driven (8hp) Regenerative Blower complete with exhaust muffler to create the system vacuum. Vacuum is rated at 8·0" mercury and 350cfm airflow and is measured at the vacuum blower.

In-line Filter.

This stainless steel unit is fitted as an integral item to the vacuum blower and features a filter within a canister to filter the air to prevent damage to the blower.

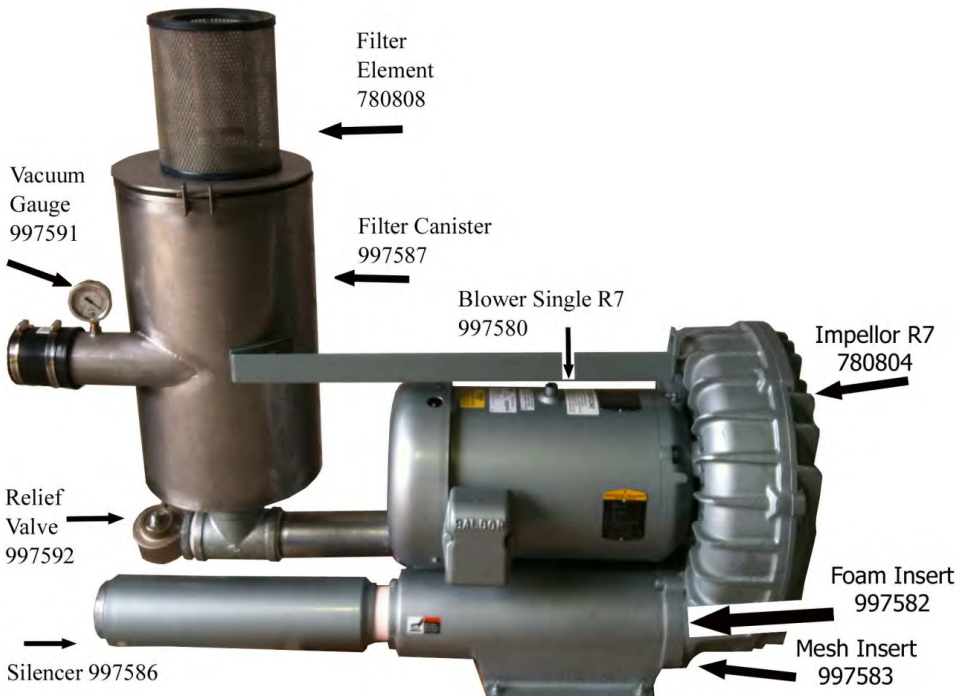
Relief Valve.

This valve prevents the vacuum blower from over heating and will vent to relieve suction if the line is fully blocked. This is normally preset at 7·5" mercury.

- **Vacuum Blower.**

1. Blower, Single R7. **997580**
2. In-line Filter. **780808**
3. Relief Valve (Vacuum). **997592**
4. Vacuum Gauge. **997591**
5. Filter Canister. **997587**
6. Silencer R7. **997586**
7. Starter Unit. **997674**

Starter Unit
997574



- **RECEIVER.**

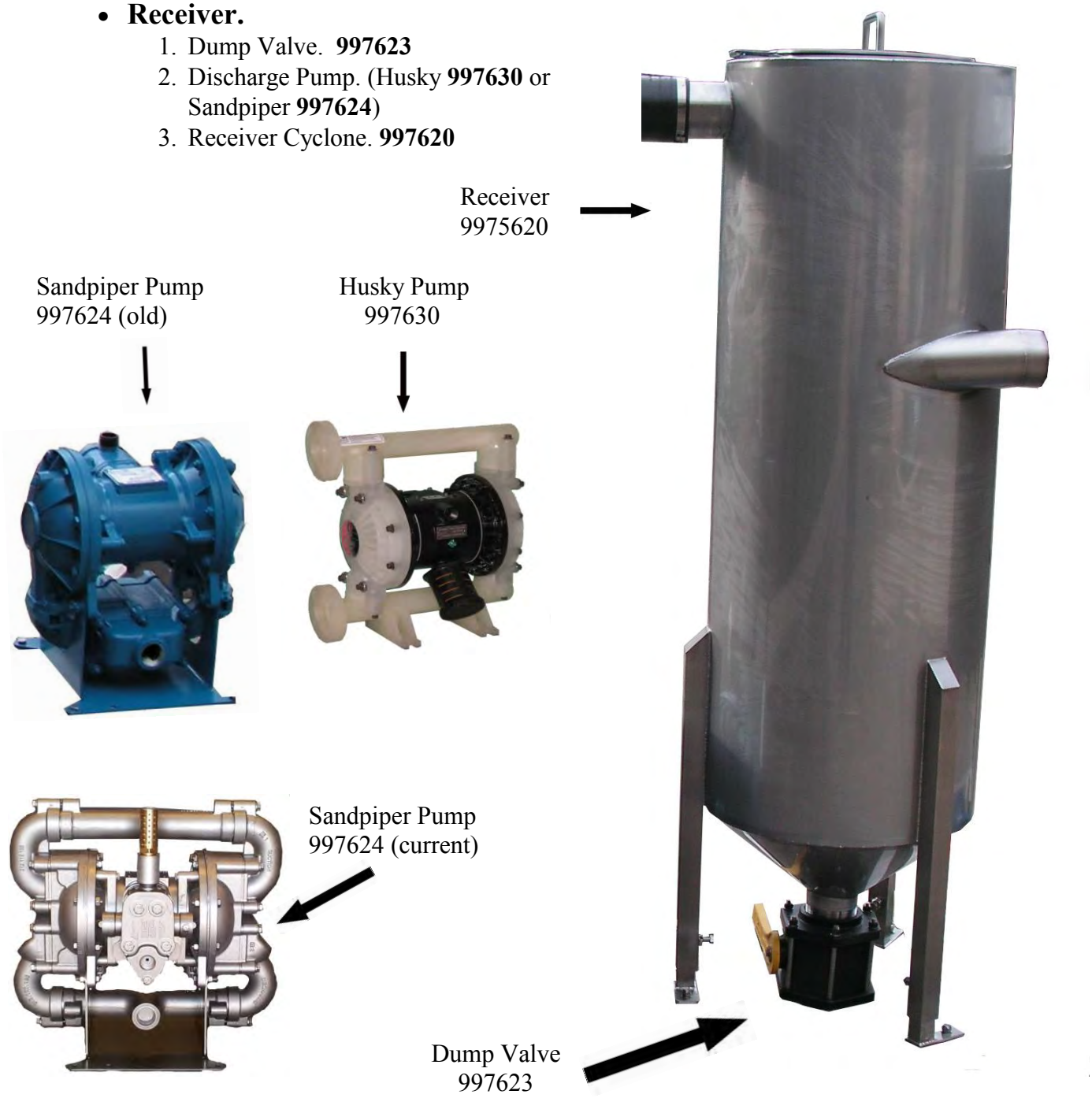
Receiver:

The stainless steel receiver separates and collects vacuumed material from the air stream. A manually operated dump valve and a discharge pump are connected to the cyclone.

Discharge Pump:

An air diaphragm pump runs continuously, after start up, to discharge water and solids from the cyclone receiver. Be careful not to run unit too fast.

- **Receiver.**
  1. Dump Valve. **997623**
  2. Discharge Pump. (Husky **997630** or Sandpiper **997624**)
  3. Receiver Cyclone. **997620**



- **Wand 2”**
    1. Wand 2”. **997642**
    2. Side Handle. **997646**
    3. 2x Vee Jet. **997648**
    4. Vee Jet. **997649**
    5. Rear Handle **997657**
    6. GT 200 Teltru. **997658**
    7. Warning Sign. **450513**
    8. ¼” Swivel. **997652**

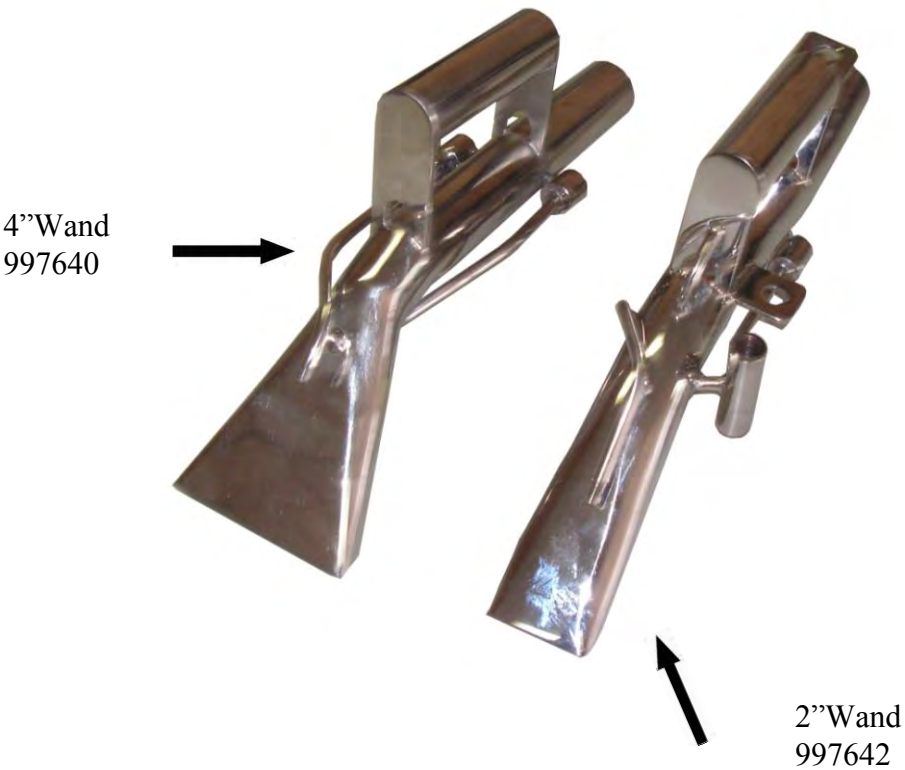
Vacuum Wand:
A stainless steel vacuum wand, available in two standard sizes of 50mm wide & 100mm wide, is used to vacuum off the contamination from the surface of the animal. This wand is hand held by the operator and is connected to the cabinet by a vacuum hose, hot water and low pressure steam hoses.

A hot water spray nozzle is positioned inside the wand to spray 82º C plus water onto the surface of the carcass. Note that providing the vacuum pump is operating and that the system has been set up correctly, no water will spray from the nozzle unless it is in contact with another surface. The wand should not be directed toward any person in case of a malfunction. Severe burning could occur.

The hot water provides good dislodgment of contaminant properties, good conveyance back to cyclone and is above normal sterilising temperature.

A spray nozzle is positioned on the top and bottom of the wand. Steam comes from these nozzles to continually keep the outside of the wand clean and sterile - a very important requirement if you are planning to use this apparatus in a sweeping motion. This steam also helps in the carcass surface sterilisation process.

The bottom edge of the wand is set back so as not to make surface contact. You may drop angle of Wand to gain total suction for spot treatment.



OPERATING INSTRUCTIONS.

WARNING Only trained personnel are to operate this equipment.

WARNING Always wear the recommended safety equipment when operating this equipment.

1. Start up blower, diaphragm pump, power to cabinet, steam and water as described in following Section.

2. Hold vacuum wand, by handle - firmly in hand.

3. Position the vacuum wand on the carcass to perform the vacuuming operation.

4. Do not exert excessive pressure and draw down the vacuum wand over the surface to be vacuumed. Allow time for the surface sterilisation to take place: i.e. draw slowly and evenly. For spot treatment, apply vacuum wand to spot and draw down over spot and remove wand.

5. Hang up vacuum wand in a safe place when not in use. Ensure nozzle is pointed away from harms way.

6. At the end of shift the equipment should be shut down by:-

    - Turning off steam and then water.
    - Turning off alarm/control to panel.
    - Turning off vacuum blower and air to diaphragm pump.
    - Open receiver and dump product.
    - Prepare for cleaning.

In some cases a PLC may be used to perform the shut down or start up sequence.

*** It is very important steam & water is shut off <u>before</u> the blower is shut down.**

OPERATING INSTRUCTIONS - Cont'd.

The VacSan Unit uses very hot water 82° C plus and steam 120°C plus and should not be used in any manner other than described. The steam/water vacuum wand should **never** be directed towards another person and the operator should wear appropriate safety gear.

Machine Start Up:

1. Check that the cover on top of the receiver is closed and sealed and the dump valve at the bottom of the receiver is closed.
2. Check that a clean in-line filter has been installed and close the filter canister.
3. Check that the vacuum hose, the hot water hose and the steam hose to the vacuum wand are properly connected both ends, and check for signs of wear or damage and have replaced if necessary.
4. Turn on the diaphragm pump, by adjusting the air volume. Ensure it is cycling properly. Do not run pump too fast. Visual check for pump performance, after the vacuum system has been operating, is also recommended.
5. Turn on the blower motor and check that a proper vacuum is being pulled at the vacuum wand when blocked. Gauge should read more than 5•5 Hg. A visual check of the vacuum gauge on the blower, with wand blocked, is also good practice. Gauge should read 7•5 Hg. Conduct these initial checks with system cold.

It is very important that the blower is started and in running mode before water and steam is turned on.

6. Turn on control panel electrics, this arms the low temperature warning light.
7. Turn on fully steam tap (1) and allow steam to exit the wand to sterilise the outer surfaces. **Note:** steam pipe may initially supply water condensate for a period until steam arrives. Allow time for this water to clear.
8. Turn on hot water tap (3) and allow hot water to be supplied to the vacuum wand.
9. Turn on fully steam tap (2) and allow steam to flow to the mixing valve. Again allow time for water condensate to be removed.

WARNING **Be very careful not to allow hot water or steam to contact your skin as it can cause serious burns and personal injury.**

The machine is now in a basic run mode. You should now proceed to adjust/check water flow and water temperature.

OPERATING INSTRUCTIONS. - Cont'd

1. To Adjust Water Pressure.

Find pressure regulator at the front of the panel marked **Water Pressure.** Unlock locknut and screw in (Clockwise) adjusting knob to increase flow. Screw out (anti-clockwise) adjusting knob to decrease flow. Ideal water flow is having the water flume and return at the end of the vacuum wand without water exiting. The water will exit the wand during the normal vacuuming process. Lock the nut once the desired flow is reached.

2. To Adjust the Water Temperature.

Find the pressure regulator marked **Steam 2** at the front of the panel. To increase water temperature, unlock the locknut and screw in (Clockwise) the adjusting knob. View water temperature gauge on the panel to ensure minimum water temperature of 85° C / 90° C. To decrease water temperature, screw out (anti-clockwise) the adjusting knob of the pressure gauge. You may need to balance the levels of steam & water supply for proper temperature control.

Note: That it is AQIS regulation that the water temperature remains above 82° C at the wand and an alarm indicator is used to warn of a drop in water temperature below this regulatory requirement.

The water and steam temperature and vacuum pressure should be checked daily at start up, to ensure the unit is operating correctly. A Kentmaster test kit (NATA Certified) is available for purchase should this be required for certification of readings.

A drop in temperature from the mixing valve/temperature sensor will occur by normal losses hence the reason for setting our initial temperature higher than 82° C sterilising temperature.

The machine is now ready for use as per your slaughter floor manual.

Regular inspection of the wand for incidental contamination should be done during normal operation. Occasional drawing of hot water from a "local" steriliser will aid in keeping hoses clean.

Consider temporary shut down over smoko and lunch periods.

Machine Shut Down.

1. Turn off Steam Tap 1.
2. Turn off Steam Tap 2.
3. Turn off Water Tap.
4. Turn off power to Panel by on/off switch or E/S button.
5. Turn off Vacuum Pump.
6. Turn off Diaphragm Pump.
7. Open Dump Valve under receiver and remove collected particles and water.

OPERATING INSTRUCTIONS. - Cont'd

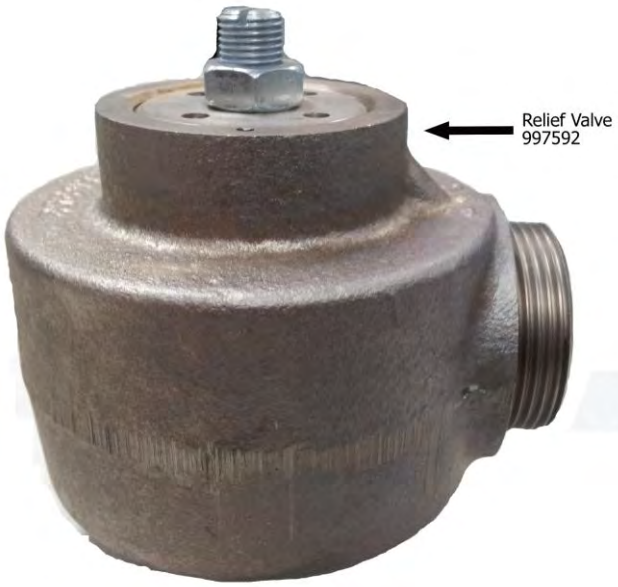
1. Check filter and drain any collected water.
2. Prepare for clean up.
3. Clean in-line filter at end of shift.

Where solenoid vales are fitted to steam, water and air supply, 1 to 6 would be automatically shut down on actuation of the on/off switch.

Safeguards:

There are several safeguards built into the system.

- The relief valve prevents the vacuum unit from being damaged by a blocked suction line.
- A temperature sensor will signal and activate a light on the cabinet should water temperature drop below an acceptable level.
- Safety reliefs are fitted for excess steam pressure build up.
- Solenoid shut off for steam, water, air supply (optional).



MAINTENANCE & SERVICE INSTRUCTIONS.

WARNING

ONLY TRAINED AND QUALIFIED PERSONEL ARE TO PERFORM MAINTENANCE AND SERVICE OF THIS EQUIPMENT.

1. Control Panel

- Check operation of pressure regulators (3).
- Check "Y" strainers, clean if necessary.
- Check for steam and water leak, and repair.
- Check safety relief valves, steam.
- Check temperature sensor setting for low temperature alarm.
- Check low temperature bulb.
- Visually check accuracy of gauges
- Calibrate or check with NATA Cert Equipt all gauges yearly

2. Vacuum Wand and Hoses.

- Check for leaks in vacuum hoses and replace if necessary.
- Check for leaks/deterioration of hot water and hot steam hoses, repair or replace as necessary.
- Check Vee Jets in vacuum wand for proper operation and blockage and replace if necessary.

3. Receiver and Diaphragm Pump.

- Check dump valve for proper seal and operation.
- Check diaphragm pump for leaks and operation - refer to diaphragm pump manual attached.
- Check seal in receiver top cover - replace if necessary.
- Check hoses to diaphragm pump.

4. Vacuum Pump, Filter System, Relief Valve.

- Check for full system pressure of 8" Hg.
- Refer to vacuum pump manual attached
- For proper operation of relief valve, please refer to notes attached.
- Filter should be regularly inspected and replaced if necessary.
- Check complete system for leaks or loss of vacuum.

SERVICE INSTRUCTIONS.

1. Keep good records of all service activity and include this equipment in your preventive maintenance program.

2. Use only genuine Kentmaster replacement parts to assure proper performance of this equipment.

3. Contact Kentmaster for supply of spare parts and service information.

These items are required for annual service and any regular repairs.

Qty	Description of Items	Part No.
1	Filter Element	780808
1	Mixing Valve	785042
2	Pressure Gauge	997511
1	Vacuum Gauge	997512
2	Temperature Gauge	997513
3	Check Valve (use instead of Brass Check Valve 997532)	997531
3	Steam Regulator Valve	997533
6	½" Plain Nipple (if required)	997536
2	Pressure relief valve	997563
8	Foam insert (blower)	997582
2	Mesh insert (blower)	997583
1	Silencer (blower)	997586
1	Pressure relief valve	997592
1	GT 200 Thermometer	997658

Other spare parts that may be required:

Qty	Description of Items	Part No.
1	UE Thermostat	780307
3	½" Brass Strainer	997534
3	½" Ball Valve full flow 2 piece S/S	997535
Multi	½" Nipple S/S	997537
Multi	½" Tee S/S	997538
Multi	½" M/F Elbow	997539
As Req	½" Union S/S	997540
1	Steam Regulator Valve Repair	997566
2	Steam/Water Hoses	997643
3 mtr	1 ½" Spiral Hose	997644

Sandpiper HDF
997624 (current)

Sandpiper
997624 (old)

Husky
997630

Items required for service:

Qty	Description of Items	Part No.
1	Sandpiper Wet End Kit 1” (25mm)	997625
1	Sandpiper Air End Kit 1” (25mm)	997626
1	Husky Wet End Kit 1” (25mm)	997635
1	Husky Air End Kit1” (25mm)	997636

TROUBLE SHOOTING BLOWER.

Symptom.	**Possible Diagnosis.**	**Possible Remedy.**
Excess vibration	Impeller damaged or contaminated by foreign material.	Replace or clean impeller. Install adequate filtration.
Abnormal sound.	Motor bearing failed, impeller rubbing against cover or housing.	Replace bearings. Repair vacuum pump. Check clearances.
Increase in sound.	Foreign material or heat can destroy muffler foam.	Replace foam muffler element. Filter foreign material.
Blown fuse.	Electrical wiring problem.	Have qualified electrician check that impeller turns correctly, check fuses, check wiring diagram or wiring capacity.
Unit very hot.	Running at too high a pressure or vacuum.	Install new relief valve and pressure or vacuum gauges.
Vacuum too low.	Faulty gauge.	Check gauge on panel & gauge on filter.
	Ball valve on cyclone open.	Close ball valve.
	Vacuum leak.	Check all connections and piping for leaks from hand wand to blower.
	Dirty filter.	Clean or replace filter element.
	Relief valve set too low.	Adjust relief valve, clean relief valve, check hole in piston is clean.
	Exhaust pipe too small.	Install at least 4” schedule 40 or 80/pipe.
	Impeller damaged or clogged.	Replace or clean impeller.

VACUUM RELIEF VALVE OPERATING INSTRUCTIONS.

Operating the vacuum with more than 1 HP motors and insufficient air flow can result in damage to the vacuum caused by excessive heating of the air passing through the vacuum.

The relief valve can be adjusted to limit the pressure and/or vacuum level and maintain adequate air flow through the vacuum to prevent damage from excessive heat.

The adjusting of the relief valve is accomplished by loosening the lock nut on the adjusting screw and turning the adjusting screw with the blade of a screwdriver. Turning the adjusting screw clockwise will increase the relief valve setting and counter clockwise will decrease the setting. Hold the screwdriver in place when retightening the lock nut. The use of the vacuum gauge will provide an accurate setting from 7·2” to (not exceeding) 7·5” Hg. at pump deadheaded. Vacuum at hand wand is set at 4” – 6” Hg. while operating VacSan.

The valve is position sensitive. The recommended installation position is with the adjusting screw position horizontally.

All components of the valve are made of corrosion resistant metal. In normal operation the only maintenance required is cleaning the valve. Often the valve need not be disassembled to clean. Particular attention should be given to cleaning the small hole through the centre of the piston. If this becomes clogged, the valve will not function properly. A pin or small diameter wire may be used to clean the blocked hole.

WARNING:
When installing the pressure/vacuum relief valve, all power sources to the electric motor and any accessory devices should be disconnected and all rotating parts should be at a standstill or bodily injury may result.

CLEANING PROCEDURE.

WARNING **Always shut down the equipment especially the steam, water, electrical and air (Blower) before cleaning.**

At the end of shift:-

1. Clean as per cleaning Part 1.
2. Clean as per cleaning Part 2.

NOTE: Reassemble all parts in reverse order.

Frequency:

For routine cleaning (Part 1) the vacuum will be cleaned at end of shift. The complete breakdown of the unit for cleaning (Part 2) will be performed weekly.

Procedure: - Part 1. (Nightly or at end of shift).

1. Pre rinse outer surface of the vacuum system with 55º- 60º C water.
2. Use a neutral detergent (Simple Green) with hot water and hand scrub all outer surfaces; wand, hoses, control panel and cyclone receiver. (Be careful not to use high pressure water on the controls)
3. Rinse with 55º- 60º C water.
4. Remove vacuum discharge exhaust filter and clean with a mild detergent, also clean filter canister.
5. Prepare a solution using a mild alkaline cleaner with chlorine added (to prepare 20 litres mix alkaline detergent by following manufacturer's instructions and add 500 gms of a chlorine based sanitiser or use an alkaline cleaner which contains a chlorine based compound.) Place this solution into a large container and vacuum the solution through the wand to the cyclone receiver. (This solution can then be dumped from the bottom of the cyclone.)
6. Spot clean/scrub any areas missed.
7. Sanitise all outer surfaces using a 200ppm chlorine based sanitiser.

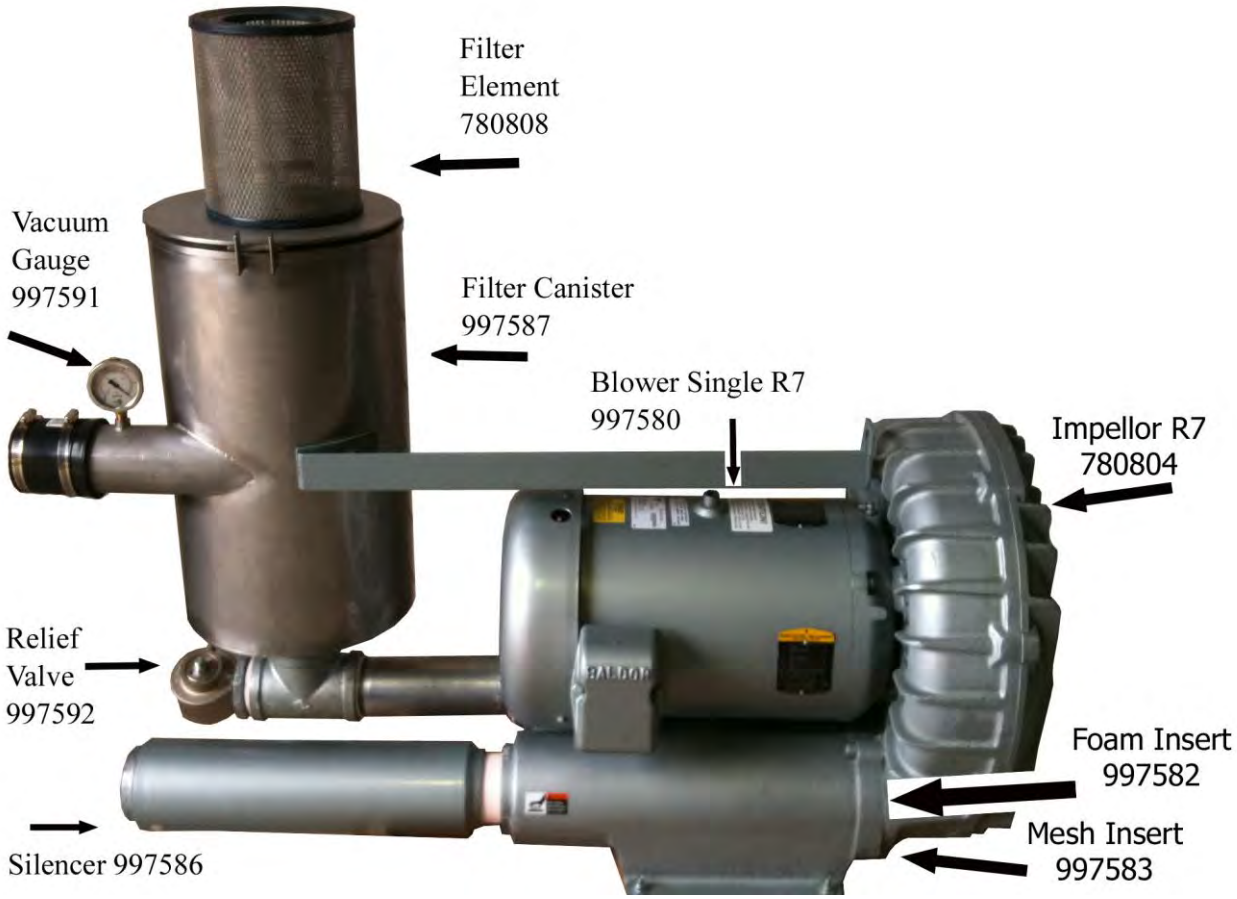
Procedure: - Part 2. (Weekly).

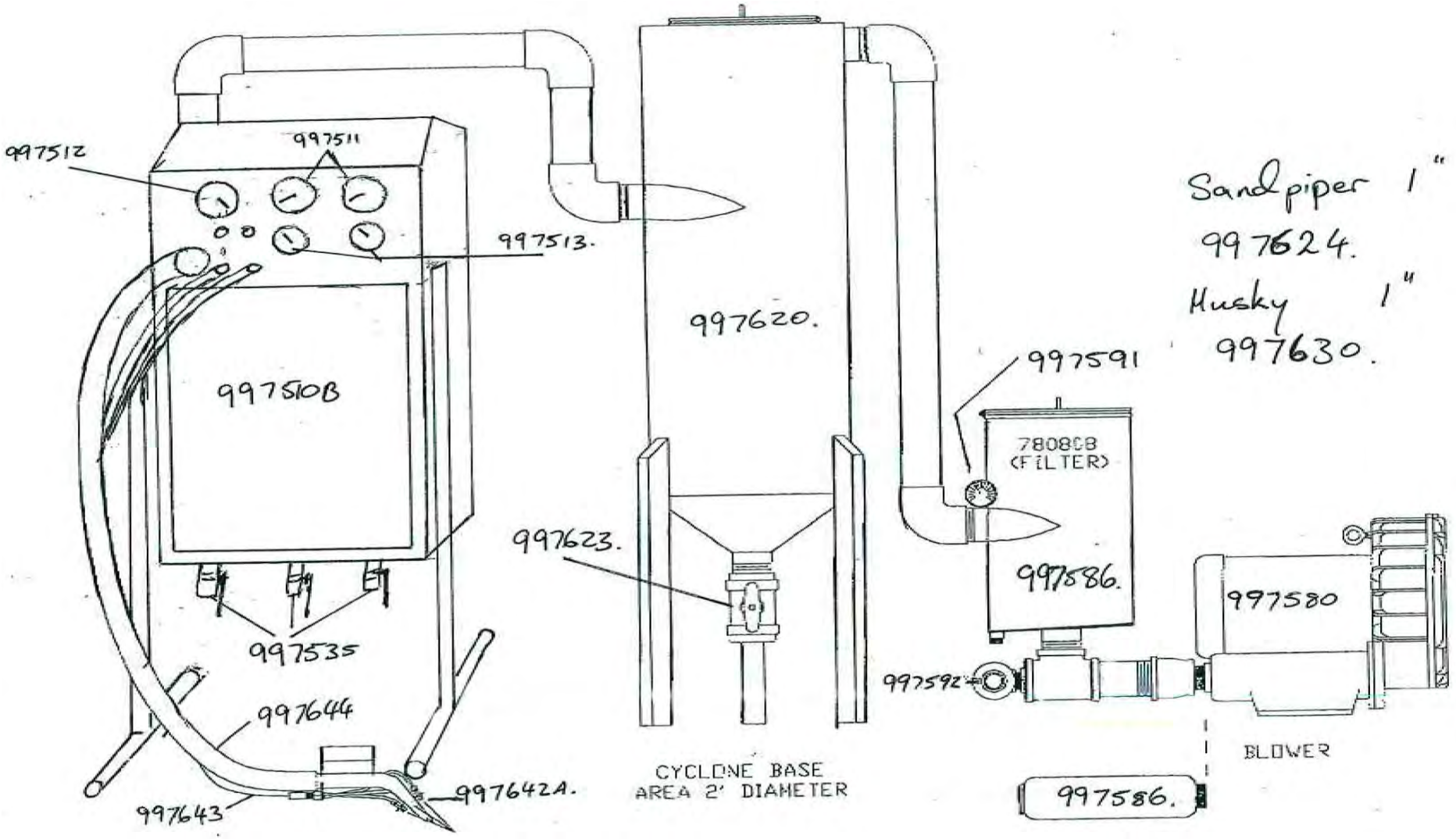
1. Follow steps 1 to 4 above.
2. Open the top of the cyclone and the lid of the in line exhaust.
3. Flush cyclone vessel with a mild alkaline or acid cleaner and manually scrub any build up that remains.

CLEANING PROCEDURE: - Cont'd.

4. Remove filter element and clean with a mild detergent and warm water. Clean inside filter canister.
5. Rinse with 55º- 60º C water.
6. Replace filter element and close the lid of the in line filter and the top of the cyclone.
7. Sanitise, using a 200ppm QAC or a 200ppm chlorine based sanitiser.

The 3" P.V.C. vacuum line from the cyclone to the in line filter on the blower, needs to be installed, so it can be disconnected and flushed out with same cleaner used in Part 1, #5.





HAND WAND

3/8" STEAM HOSE
1-1/2" VACUUM HOSE

HAND WAND MAXIMUM 10'
FROM CONTRL PANEL

CONTROL PANEL

1/2" STEAM LINE
DEDICATED OFF HEADER

VACUUM

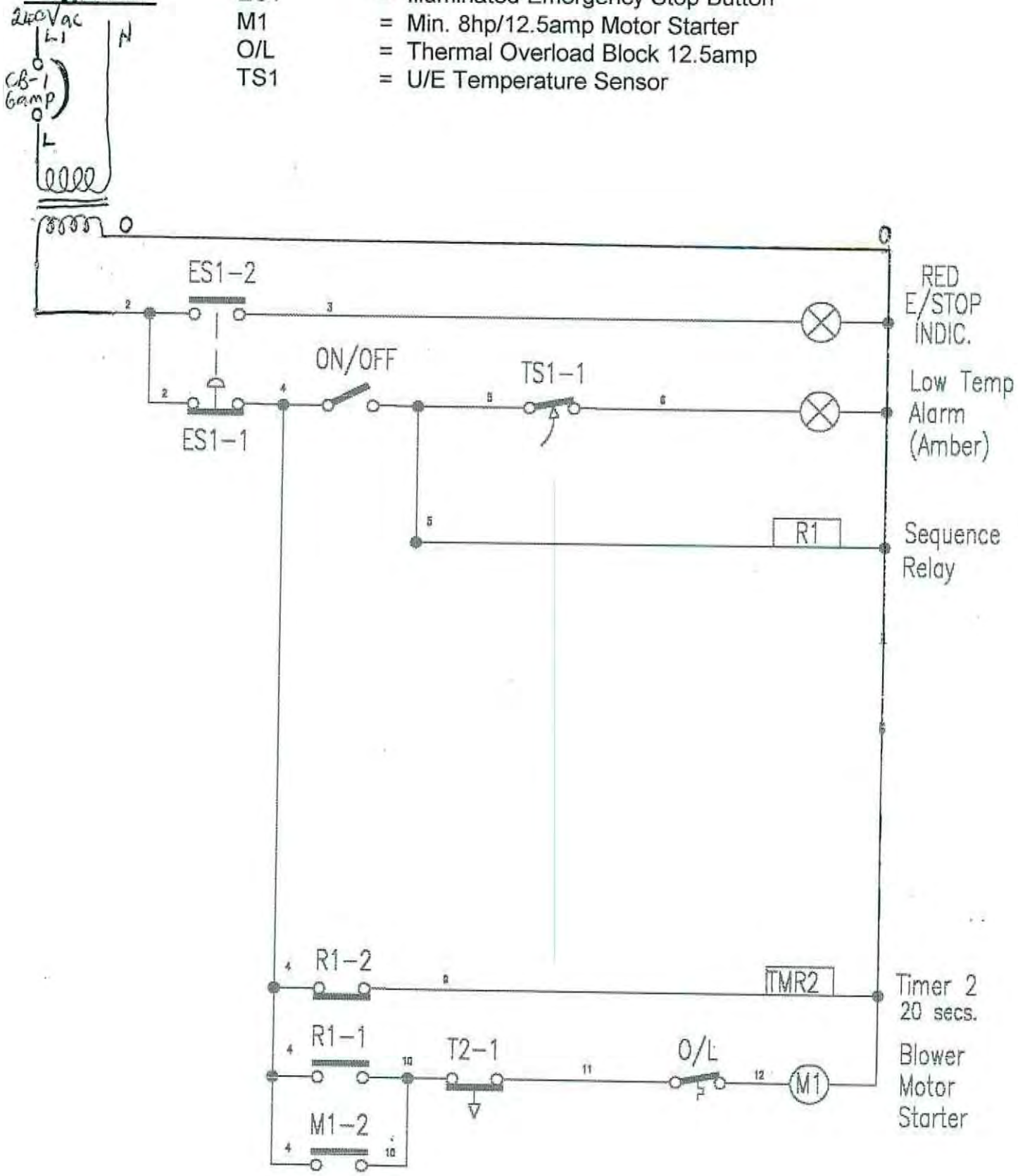
MAXIMUM 70' FROM
CONTRL PANEL,
ISSOLATED FROM
PRODUCTION AREA

KENTMASTER VAC-SAN.

Electrical Schematic - (Basic Control).

Legend:-

ES1	=	Illuminated Emergency Stop Button
M1	=	Min. 8hp/12.5amp Motor Starter
O/L	=	Thermal Overload Block 12.5amp
TS1	=	U/E Temperature Sensor

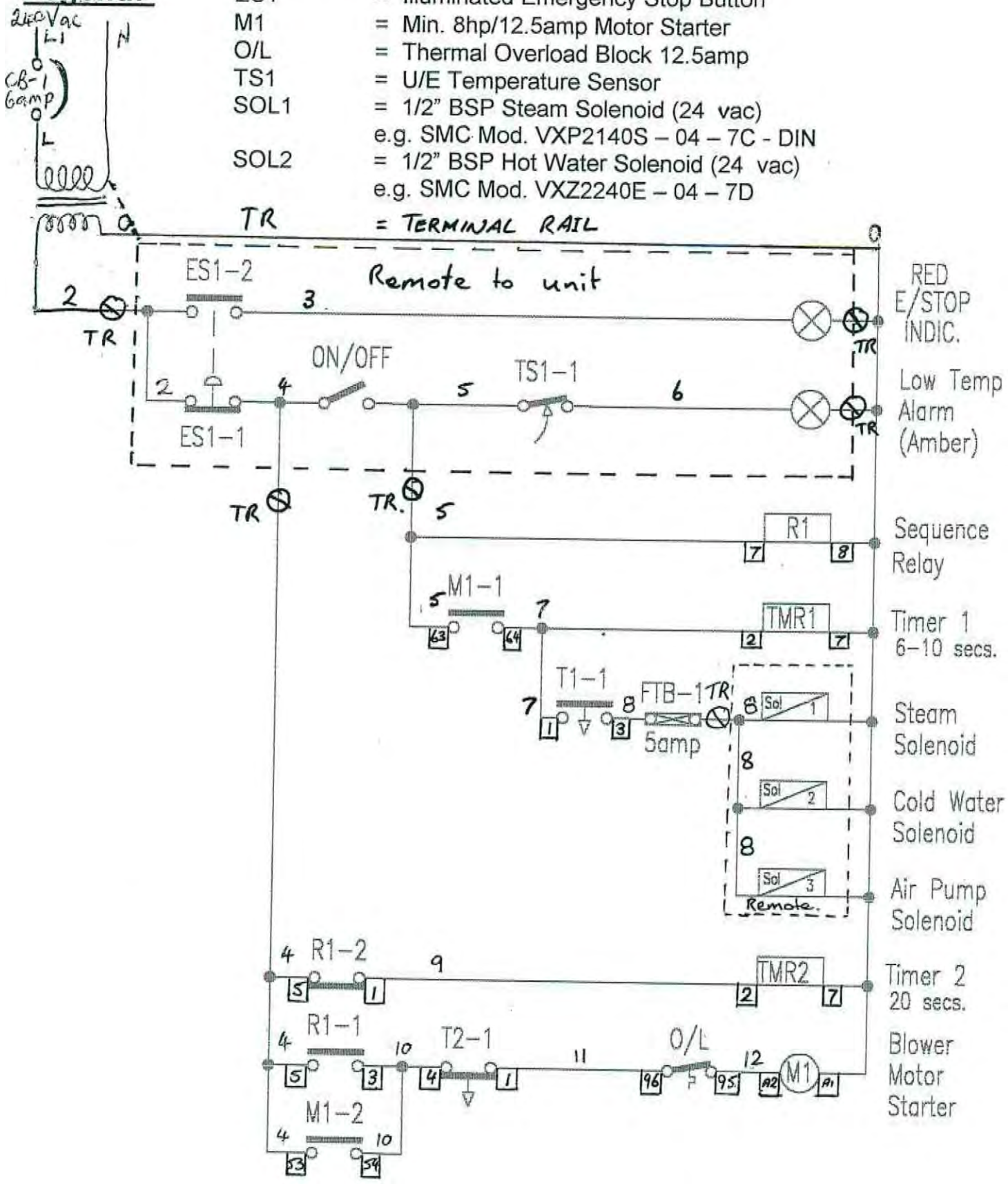


KENTMASTER VAC-SAN.

Electrical Schematic - (Basic Control).

Legend:-

ES1	=	Illuminated Emergency Stop Button
M1	=	Min. 8hp/12.5amp Motor Starter
O/L	=	Thermal Overload Block 12.5amp
TS1	=	U/E Temperature Sensor
SOL1	=	1/2" BSP Steam Solenoid (24 vac) e.g. SMC Mod. VXP2140S – 04 – 7C - DIN
SOL2	=	1/2" BSP Hot Water Solenoid (24 vac) e.g. SMC Mod. VXZ2240E – 04 – 7D
TR	=	TERMINAL RAIL



TYPICAL

SLAUGHTER FLOOR MANUAL

Beef - Halal Neck Wound Clean Up

Operator is to ensure unit is on and functioning and indicators are running at a minimum of:

- Water temperature 90° C
- Steam temperature 120° C
- Vacuum 8" Hg, at vacuum source.
  5•5" Hg at control panel.
- Steam Pressure 10psi (69KPA)

1. Vacuum is only to be used to remove incidental visible contamination, eg dust/stains, hair and dirt, Ingesta and Faecal contamination less than 25mm.

2. Starting at the back of the neck, apply the vacuum wand and pull slowly through to the throat area. Repeat if necessary. Also apply wand to the Oscophegus area and clean up.

3. Approximately each five to ten minutes or as necessary, dip vacuum head into steriliser for approximately one second to clean the vacuum head of incidental contamination and fat build up.

Note: Vacuum is not to be used for removing any visible faeces and larger than 25mm² , Ingesta or pathological defects eg, abscesses.

Note: The VacSan has an alarm system in place to indicate low water temperature.

Operator is to stop using machine and notify supervisor when this occurs.

TYPICAL

SLAUGHTER FLOOR MANUAL

Sheep - Pre Wash Trim.

Operator is to ensure unit is on and functioning and indicators are running at minium of:-

Water Temperature	90° C
Steam Temperature	120°C
Vacuum	5•5" Hg at Panel, 7•5/8•0" Hg at Blower.

1. Vacuum is only to be used to remove incidental visible contamination eg Wool Fibres / Clusters and wool dust / stains, ingesta and faecal contamination less than 25mm in its greatest dimension.

2. Check belly for incidental contamination and if present apply the vacuum wand to the area and pull down towards crutch area then vacuum the inside area of both legs.

3. Approximately each ten minutes or as necessary, dip vacuum head into steriliser for approximately one second to clean the vacuum head of incidental contamination and fat build up.

NOTE: Vacuum is not to be used for removing any visible faeces, ingesta (greater than 25mm) or defects such as open abscesses, septic bruises, grease, parasitic lesions and lactating udders.

NOTE: The VacSan Unit has an alarm system in place to indicate low water temperature (orange light). Shut down if light remains on. Operator is to stop using machine and notify supervisor when this occurs.

TYPICAL

SLAUGHTER FLOOR MANUAL

Forequarter Trim

Operator is to ensure unit is on and functioning and indicators are running at minium of:-

Water Temperature	90° C
Steam Temperature	120°C
Vacuum	5•5” Hg at Panel, 7•5/8•0” Hg at Blower.

1. Vacuum is only to be used to remove incidental visible contamination eg Wool Fibres / Clusters and wool dust / stains, ingesta and faecal contamination less than 25mm in its greatest dimension.

2. Starting at the left fore hock, using a sweeping motion apply the vacuum wand and pull down left fore leg around the brisket area then from right fore hock down to brisket area.

3. Approximately each ten minutes or as necessary, dip vacuum head into steriliser for approximately one second to clean the vacuum head of incidental contamination and fat build up.

NOTE: Vacuum is not to be used for removing any visible faeces, ingesta (greater than 25mm) or defects such as open abscesses, septic bruises, grease, parasitic lesions and lactating udders.

NOTE: The VacSan Unit has an alarm system in place to indicate low water temperature (orange light). Shut down if light remains on. Operator is to stop using machine and notify supervisor when this occurs.

INSTALLATION - VACSAN.

The guidelines for the installation of your Kentmaster VacSan Unit are:-

- Position & fix Control Panel incorporating gauges, steam, water regulators, wand, etc at your work area. You may reverse hangers and hang from overhead structure if so desired. Ensure panel is positioned to allow operator to freely operate the wand connected to panel. Do not extend or shorten steam or water hoses to wand. It may be preferable to hang your wand on a balancer.

  Connect low pressure steam.
  Connect 82°C water
  Connect steam blow down pipe preferably to outside safe blow down area.
  Connect electrical.
  Connect vacuum pipe - use 3"dia to the reducer at back of panel.

- Position and fit Product Receiver in an appropriate area outside your main production area. Note that it is preferable to limit the total distance from Control Cabinet to Receiver/Blower to less than20/24m total pipe run. Consult Kentmaster if you exceed this requirement as a larger vacuum blower may be necessary.

  1. Use 3" dia pipe receiver to cabinet. Large radius bends preferred.
  2. Install dump valve under receiver. You may direct couple to your drain.
  3. Mount diaphragm pump on suitable base close by and connect to receiver and to drain. Connect air low pressure (about 25 psi) is all you need to run this unit.

  Do not run too fast.

  4. Check seal on lid of receiver,

- Position and fix blower assembly nearby the receiver.

  1. Use 3" dia pipe, large radius bends preferred, connect blower to receiver.
  2. Provide and wire up motor starter and isolator & use 20/32A motor fuses.
  3. Start up and test system for leaks and performance. A NATA Certified test kit is available for purchase to test and record variance on gauges regularly.