Cleartec Coalescing Separator
OPERATION & MAINTENANCE MANUAL
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IMPORTANT NOTE

PLEASE READ PRIOR TO OPERATION OF YOUR SEPARATOR

Thank you for choosing the CLEARTEC System to handle your trade waste requirements. We are confident that the system will give you many years of trouble-free service.

However, the success and efficiency of the system is dependent on the following two points, and on those detailed in this manual. Please familiarize yourself with them prior to operation.

1. CORRECT WASH BAY PROCEDURES

It is mandatory that degreasers are not used in wash-off this separator is treating; a quick break biodegradable detergent must be used. No gravity based separation system can operate efficiently with degreasers.

2. CORRECT MAINTENANCE PROCEDURES

The on-going effectiveness of the system is dependent on maintenance as detailed in this manual (last 3 pages) being carried out. We strongly recommend a service contract be set up with Allied Pumps Service Division to carry this out.
SAFETY & PRECAUTIONS

WARNING

UNDER NO CIRCUMSTANCE MUST TRACES OF ACETONE OR THINNERS PASS THROUGH THIS SEPARATOR

WARNING

ONLY ALLOW QUALIFIED PERSONNEL TO INSTALL, WIRE AND OPERATE SEPARATOR PUMP, MOTOR AND SWITCHGEAR

WARNING

THIS SEPARATOR IS DESIGNED TO SEPARATE OIL AND WATER AND SHOULD BE USED FOR NO OTHER PURPOSE

WARNING

THIS SEPARATOR IS NOT DESIGNED TO HANDLE LIQUIDS BELOW A PH OF 6 OR ABOVE A PH OF 10. DO NOT ALLOW LIQUIDS TO PASS THROUGH THE SEPARATOR OUTSIDE THIS RANGE OTHERWISE SERIOUS CONSEQUENCES COULD RESULT

WARNING

AFTER SEPARATOR HAS BEEN INSTALLED, MAKE CERTAIN THAT ALL PIPE AND CONNECTIONS ARE TIGHT, PROPERLY SUPPORTED AND SECURE BEFORE OPERATION USE LIFTING AND MOVING EQUIPMENT IN GOOD REPAIR AND WITH ADEQUATE CAPACITY TO PREVENT INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT

WARNING

OIL SEPARATOR TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 60079.10.1:2009 "CLASSIFICATION OF HAZARDOUS AREAS" IF LIKELY TO BE PROCESSING FLAMMABLE LIQUIDS. A SPECIALIST CONSULTANT MAY BE REQUIRED TO VERIFY INSTALLATION LAYOUT.
The CLEARTEC Coalescing Plate Separator (KCPS) is an enhanced gravity separator incorporating the latest technology.

CLEARTEC CPS Units are designed with a combination of vertical and horizontal arranged coalescing plates. From the inlet port flow is directed through the vertically orientated plates where solids are separated under gravity for collection in the hopper below. The ensuing horizontally orientated plates remove oil droplets by coalescing them to form larger oil particles, thereby increasing their rising velocity and capture rate.
INSTALLATION INSTRUCTION

CLEARTEC Separation Unit must be mounted as near as possible to the waste collection pit that the separator pump is drawing from.

Separator Units should be mounted on a level, reinforced concrete plinth/slab of adequate thickness to take the weight of the unit. In the case of a wall mounted unit a structurally sound wall should be selected.

If the Separator is to be installed in a trafficable area, suitable protection bollards should be mounted accordingly. The Separator should be fastened to the plinth by the use of 10mm Dyna bolts, one bolt per leg in the pre-drilled holes provided. Packing under one or more of the legs may be necessary for the final levelling of the unit. It is extremely important that the Separator be mounted level to horizontal within tolerance of ±2.5mm to facilitate successful operation.

PIPEWORK

1. Pump suction pipework should be in accord with the following:

<table>
<thead>
<tr>
<th>SEPARATOR MODEL</th>
<th>MINIMUM NOMINAL BORE PIPE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCPS 15FS</td>
<td>40mm</td>
</tr>
<tr>
<td>KCPS 30/15FS</td>
<td>40mm</td>
</tr>
<tr>
<td>KCPS 30FS</td>
<td>50mm</td>
</tr>
<tr>
<td>KCPS 60FS</td>
<td>65mm</td>
</tr>
</tbody>
</table>

2. Suction line form pit to pump must always be a direct as possible with a minimum number of bends as possible.
3. The suction line should not touch the bottom of the pit. A gap of 10mm. should always be provided so as to safeguard against sludge or other sedimentation entering into the pipeline, causing damage to pump and blockages in line.
4. Cleaning of this pit should be carried out regularly as discussed in the maintenance section of this manual.
5. The suction line from the pit to the pump and from the pump to the separator must be free of all air leaks.
6. Suction and discharge pipework should be adequately supported by stand-off brackets or saddles at regular intervals to provide maximum rigidity.
7. In the case of gravity discharge to sewer the pipeline should have a continuous fall.
8. In situation where a fall to sewer is unable to be obtained (or not practical) a pit must be installed nearby to receive the discharged effluent from the separator. The effluent is then discharged to sewer by means of an automatic submersible pump. In these installations PVC pressure pipe should be used and discharged over a suitable trade waste sample point.
9. Entry to sewer must be via Water Corporation standard design trade waste sample point as indicated below.
10. The suction line must be fitted with strainer supplied to prevent blockages. Failure to do so could damage pump.

11. If the discharge line from the separator is longer than 6 metres a suitable vent and cowl must be installed.

12. In the case of SWV pipelines longer than 6 metres expansion joints must be used at regular intervals as specified by local trade practise requirements.

13. It is recommended that a union should be installed on suction and discharge of pump to allow ease of disconnection for service and maintenance.
SILT ARRESTORS

While CLEARTEC Separators can accommodate a nominal amount of sludge, when heavy solids, cloth or excessive silt is expected, provision should be made for accommodating them in the sump. The most economical method of achieving this is by a basket silt arrestor. It is advised that every installation incorporates a silt arrest to minimise damage to pump and the separator.

Trapping of silt and sediment upstream of separators can be achieved in various ways including at entry of waste into drainage system, or prior to separator pump out chamber. Refer typical drawings in Appendix B.

LEVEL FLOATS

A. Float Switches are supplied fitted with cable weights. This means that they should be hung from a tethering point near the top of the chamber.

B. The PUMP OPERATION float switch should hang approx. 200mm above the bottom of the pump suction strainer. If the float switch is not higher than the suction point the pump will suck air and will not turn off automatically.

C. The HIGH LEVEL ALARM float switch should be hung approximately 150mm below the invert of the inlet pipe. This may vary in larger tanks.

D. Ensure floats can move up and down freely and are free from obstruction.
OIL SKIMMER AND WATER OUTLET DETAIL

Ensure oil skimmer is set when pump is operating; oil skimmer is to be set approximately 5mm above water level as shown above.

N.B. The above sketch is a schematic arrangement only and does not apply to any particular model.
STARTING UP & COMMISSIONING

Before starting up, make certain that the separator is firmly anchored to plinth and that all pipework and connections are properly supported and secure.

The pump and suction line should be primed before starting for the first time.

Turn the selector switch in the control panel to Automatic. Check that the sequence of the level floats is correct. This is done by lifting each level float by hand. The pump should be activated upon the rise of the lowest float. The top float should activate the red light signal and when both floats are let down, the pump should turn off.

Allow the separator to commence operating. The water level should rise to just above the plates. If it rises higher or lower than this level the expansion coupling on the water outlet stand pipe should be pushed down or up accordingly.

The oil skimmer should then be set to about 5mm above the OPERATING water level. (The OPERATING water level rises and falls in accordance with the hydraulic action of the pump; skimmer should be set 5mm above the highest rise level). This is an expansion PVC coupling and is adjusted by moving the inner sleeve in the vertical plane.

Inspect the liquid flowing through the plates and towards the outlets. Check that no water is passing over the oil skimmer and if so adjust accordingly.

Check the effluent is flowing into sewer gully without splashing.

Check the oil waste drum is situated under the oil outlet so there is no spillage.
INSTALLATION OF ASM DIAPHRAGM PUMPS

GENERAL
Install the pump level and secure using holes in baseplate.

ROTATION
Correct motor rotation is clockwise viewed from the fan end.
Incorrect rotation will damage the pump and void warranty.

PIPEWORK
Correct pipe size is a critical factor affecting pump performance and service life. Refer to ASM pipe selection chart over this page. Fit a suction strainer with apertures no more than 25% of pump port size and a minimum clear area 4 times port size. Pipe work should be airtight, adequately supported and be as short and direct as possible. Use flexible connectors between pump and rigid pipe work. Fit an ASM pulsation dampener when a pump is installed with rigid pipe work over 5m in length. For flexible installations use reinforced suction hose on both suction and discharge sides. Do not use lay flat type hose.

ELECTRICAL
Wire electric motors to manufacturer’s instructions, usually on the motor nameplate or junction box. Most 240v motors have built in overload protection, all other motors require overload protection wired into the circuit.
Ensure there is unobstructed airflow to the motor cooling fan.
Protect motors from weather and water.

GEAR REDUCER
Remove vent plug from oil filler cap.
Check oil is visible in sight glass before start up.
Recommended oil: Shell Omala 320 Castrol alpha SP320.

ENGINE DRIVES
Fill engine with correct grade oil before operation. (Specified in engine owner’s manual)
Do not operate engine without adequate ventilation.
Check oil level regularly.
Maximum pump speed should not exceed 48 strokes per minute.
# INTERNAL PIPE SIZE FOR CLEARTEC DIAPHRAGM PUMPS

For clean liquids with same viscosity as water

<table>
<thead>
<tr>
<th>Pump Size</th>
<th>SUCTION</th>
<th>DISCHARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pipe Length 0-5m</td>
<td>Pipe Length 5-10m</td>
</tr>
<tr>
<td>DS-32</td>
<td>DS-50</td>
<td>DS-65</td>
</tr>
<tr>
<td>DS-38</td>
<td>DS-65</td>
<td>DS-80</td>
</tr>
<tr>
<td>DS-50</td>
<td>DS-75</td>
<td>DS-100</td>
</tr>
<tr>
<td>DS-76</td>
<td>DS-100</td>
<td>DS-150</td>
</tr>
</tbody>
</table>

**NOTE:** USE OF PIPES SMALLER THAN RECOMMENDED WILL VOID WARRANTY
DIAPHRAGM PUMP MAINTENANCE

REPLACEMENT OF DIAPHRAGM

1. Disconnect power at supply.
2. Remove all four casing bolts (No. 26).
3. Lift drive support housing (No. 12) complete with motor (No. 25) and gear-box (No. 13) to one side.
   **NOTE: TAKE CARE TO AVOID DAMAGE TO ELECTRICAL CONNECTION**
4. With access now available to diaphragm (No. 3) remove lower nut (No. 9) wash (No. 10) and diaphragm plate (No. 2).
   **NOTE: STAY IN ORIGINAL POSITION**
5. Remove and replace diaphragm (No. 3) with writing on new diaphragm (No. 3) facing upwards. Re-fit lower diaphragm plate (No. 2) making sure the inner lip edge on the diaphragm (No. 3) is located in the corresponding grooves in the diaphragm plate (No. 2). Then re-fit lower washer (No. 10) and nut (No. 9) and tighten.
6. Reposition drive support housing (No. 12) onto (No. 1) and locate outer lip edge of diaphragm in corresponding grooves in bowl and drive support housing.
7. Re-fit all four casing bolts (No. 26) and tighten evenly.
   **NOTE: DO NOT OVERTIGHTEN THESE BOLTS**
8. Re-connect power supply and check operation.

REPLACEMENT OF FLAP VALVES

Before attempting to replace the flap valves it should be noted that the flap valve assemblies (No. 7) for the suction and discharge ports are identical. Assembly order should be as per diagram (No. 2) When the flap valve assembly (No. 7) is fitted to the suction of the pump the flap valve assembly (No. 34) will be adjacent to pump casing (No. 1) however when flap valve assembly (No. 7) is fitted to the discharge of the pump the flap valve (No. 34) will be adjacent to the discharge chamber (No. 5).

1. Disconnect power at supply.
2. Disconnect pipework adjacent to faulty flap valve (No. 34) and corresponding chamber bolts (No. 23-24).
3. Remove valve chamber (No. 4-5).
4. Remove flap valve assembly (No. 7) and check components (No. 30-36) for wear and replace accordingly.
5. Re-assemble flap valve assembly (No. 7) as per diagram (No. 2)
   **NOTE: DO NOT OVERTIGHTEN SCREW (No. 30) TO AVOID DISTORTION OF FLAP VALVE (No. 34)**
6. Re-fit valve assembly (No. 7) and check flow directions. Suction valve should push into pump whilst discharge valve should lift up and both flap valves should re-seal automatically.
7. Re-fit corresponding valve chamber (No. 4-5) and chamber bolts (No. 23-24 and tighten.
8. Reconnect pipework to valve chamber (No. 4-5)
9. Reconnect power supply and check operation.
## Monthly Workshop Maintenance Schedule

| ITEM | TASK                                      | RESPONSIBILITY | FREQ        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|------|------------------------------------------|----------------|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1    | Empty wash bay silt pit                  | W              |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2    | Evacuate wash bay sump                   | 2M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3    | Cleaning of channel grate service pit    | M              |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4    | Evacuation of service bay sump / grate   | 2M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 5    | Service bay floor / wall cleaning        | (TBC)          |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 6    | Cleaning of workshop drains              | 2M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 7    | Cleaning of holding oil tank area        | M              |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8    | Removal of debris from holding oil tank area | W         |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 9    | Removal of debris from workshop floor    | D              |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10   | Cleaning of workshop floor               | (TBC)          |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 11   | Evacuation of large common pre-treatment holding pt | 2M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12   | Reactivation of biomedical / biological treatment | SEPARATOR SERVICE CONTRACTOR | 3M           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 13   | Kwikflo coalescing plate separator service | SEPARATOR SERVICE CONTRACTOR | 3M           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14   | Evacuation of post separator pump pit    | 2M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15   | Evacuation of polishing fitter pit       | 6M             |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16   | Evacuation and cleaning of leach drains  |                 |             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Notes:**
- Item 16: Evacuation and cleaning of leach drains is to be performed if and when necessary.
RECOMMENDED MAINTENANCE PROGRAM

DAILY MAINTENANCE:
- Remove any obstruction from the grates of the pit and drains.
- Visually inspect the pit to ensure that the float switches are operational and free to move.
- Visually inspect the separator and remove any floating and solid matter which may block the plate packs.
- Visually inspect the system for any leakages. If any detected, report to the Maintenance Manager.
- Visually inspect the control panel. If the panel is not operational, report to the Maintenance Manager.
- Visually inspect the discharge effluent. If the effluent is not typical of normal discharge take a sample and record the time and details of the previous work on the wash-bay including the type of detergent used.
- Check that the pump is operational.

WEEKLY MAINTENANCE:
- Same procedure as for the daily maintenance is to be followed.
- Thoroughly wash down the wash-bay.
- Check the gear oil level in the reduction gear box.
- Check the levels in the waste oil drum and arrange for disposal if required.
- Check the level of the sludge in the pit and arrange for disposal if required.

QUARTERLY MAINTENANCE:
- Same procedure as for the weekly maintenance is to be followed.
- Clean the separator as per the detailed instructions on the following page.
- Cleanout the collection pit.
TO CLEAN SEPARATOR:

- Disconnect the power source at the control panel to ensure that the pump will remain inoperative.
- Remove the lid of the separator.
- Lower the oil skimmer to remove all the oil from the water surface.
- Drain the separator by opening the sludge valves in the bottom of the solids hoppers.
- Remove nyloc nuts from side of separator and remove all stainless steel hardware holding plate pack stacks.
- Remove plate pack stacks by gripping the handle provided.
- Inspect and remove any large items that have not drained through the valve.
- Hose down the interior of the tank.
- Hose through the plate stacks and high pressure water. Do not dismantle the stacks.
- Reassemble the plate pack stacks into their original position.
- Refill the separator with potable water and restart the system.
- Reset the oil skimmer to the original position of approximately 5mm above the operating water level.
- Check that the unions are tight and that there are no leaks.
- Replace the lid and secure with wing nuts.

CLEANING FREQUENCY:

The most suitable period between maintenance is highly dependent upon the quality of the influent the separator is to treat. It is suggested that initially maintenance as described above regarding cleaning the separator be performed on a quarterly basis and adjusted if necessary to meet the quantity of sludge in the system.

PROTECTION:

Allied Pumps recommends protecting this equipment from direct weather and sunlight; equipment should also be protected from direct jets of water from any wash down equipment.
APENDIX A

Warranty and Service Information
WARRANTY

Warranty is subject to Allied Pumps Pty Ltd terms and conditions of sale and limited to replacement or repair, at Manufacturer’s discretion, of any parts or equipment, excluding and travel, site, removal or reinstallation costs, for a period of twelve months from date of invoice, provided such part of equipment that is deemed by the respective manufacturer to be faulty. Any work done on site to inspect or remedy faults that are subsequently not accepted as being under warranty by the manufacturer, or are caused by misuse, fair wear or operating procedures, will be charged at parts and labour and travelling time rates applicable at the time.

Warranty does not provide for circumstances outside Allied Pumps control including (but not limited to); seismic activity, base or ground movement, mechanical impact, abuse or negligence, or general wear and tear.

Warranty does not cover equipment that is not installed, continuously monitored and maintained in accordance with the manufacturer’s requirements, including, but not limited to, regular servicing, and/or regulatory requirements and applicable Australian Standards. Warranty does not cover damage caused by dry running the pumps.

If Buyer requires our services in respect of site inspection or service outside of what is covered by Manufacturers’ warranties, then Buyer should enter into a separate agreement with ALLIED PUMPS in respect to the same. In the event of no such separate agreement, all operations, calibrating, cleaning and maintenance of plant is the responsibility of the buyer.

ALLIED PUMPS have not acted as a consultant nor charged design fees on this project, and are in no way responsible for, nor guarantee any particular level or performance of the treatment plant supplied or effluent quality unless such guarantee is specially given in writing.

Under no circumstances is ALLIED PUMPS liable for any direct or consequential loss or business interruption or damage to persons or properties of any nature due to any cause whatsoever.

Application of warranties is conditional on ALLIED PUMPS having received in cash the total contract price. Furthermore, ALLIED PUMPS reserves the right to withdraw any code compliance, Australian Standard compliance or selection compliance, should the contract not be paid in full.
TYPICAL NON-HAZARDOUS INSTALLATION - REFER AS/NZS 60079.10.1:2009

ADDITION OF EQUIPMENT IN PACKAGE
A) ALLIED PUMPS COALESCING PLATE SEPARATOR KOPS - ONLY WATER
B) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
C) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
D) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
E) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
F) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
G) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
H) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
I) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
J) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
K) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
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R) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
S) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
T) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
U) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
V) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
W) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
X) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
Y) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)
Z) ALLIED PUMPS CONFESSIONAL PLATE SEPARATOR KOPS - WITH STRAINER (OVER Ridgid Pipe)

INSTALLATION DETAILS
A) WASH BAY SIZE
B) FIT-A SIZE
C) FIT-B SIZE

EQUIPMENT SIZING
A) SEPARATOR MODEL KOPS - P
B) NOMINAL FLOWRATE - L/min
C) PUMP MODEL DS-

TYPICAL SCHEMATIC LAYOUT ONLY

A TRACK WASTE APPLICATION MUST BE SUBMITTED TO WATER CORPORATION PRIOR TO COMPLETION OF INSTALLATION