

A F T E R M A R K E T G R I N D E R P U M P

E/One Upgrade

If you're tired of constant service calls resulting from grease-fouled floats, jammed grinders, burned-out motors, and other grinder pump problems, it's time to call E/One.

When you're having too many problems with your system's centrifugal grinder pumps, it can wear you down. And wear out your budgets. Those inferior grinder pumps aren't worth fixing. And fixing. And fixing. The solution is to upgrade. To Environment One's Upgrade, the aftermarket grinder pump that works and goes on working without any preventive maintenance. It's the original grinder pump design, the one others have tried to copy but they just haven't gotten it right. We have it down to a science. A simple science – design a pump for the application. So replace that troublesome pump. With **E/One's Upgrade**.





Why is the E/One Upgrade Better?

10 REASONS TO SWITCH TO THE E/ONE UPGRADE

Our Upgrade

vs.

Their Grinder Pumps

1. Semi-positive displacement pump – provides virtually the same flow regardless of pressure. Scouring velocities are maintained without stressing the pump.
2. Non-jamming grinder – low-speed, high-torque, with large-diameter inlet that does not require sharpness to operate.
3. Non-contact, non-fouling pressure switch level controls. Proven reliable and maintenance-free.
4. Air-filled motor requires zero preventive maintenance.
5. Uses electrical quick disconnect (EQD). User-friendly and reliable design; NEMA 6P rated. No bolts or screws.
6. Longest mean time between service calls – 10 years.
7. Low operation and maintenance costs.
8. All pump, level and motor controls in one compact assembly, making service simple and convenient.
9. Near-constant flow regardless of pressure – prevents build-up of solids in piping.
10. Zero preventive maintenance.

1. Centrifugal pumps – flows vary dramatically, causing high flows and dangerously short run times to no flow and continuous operation. The result: burned-out motors.
2. Jamming common especially when cutters dull – high-speed, low-torque, with small-diameter inlet.
3. Float switches – require preventive maintenance to remove grease and oil. Constant source of problems. Mercury float switches difficult to dispose of are an environmental issue.
4. Oil-filled motor requires periodic oil changes. Oil is a hazardous waste that must be disposed of properly.
5. Labor-intensive junction boxes for power connections, which require bolts or screws. Often not rated for sewage applications.
6. Constant service calls.
7. Routine preventive maintenance and service calls.
8. Separate pump, level and motor controls, making troubleshooting and repairs more difficult and time consuming.
9. Widely varying flow, reduced as pressure increases, allowing build-up of solids in pipe. Solids build-up causes increased pressure and reduced flow, compounding the problem.
10. Jammed grinders, grease-fouled floats require periodic maintenance.

The E/One Upgrade is the reliable, cost-efficient solution to your grinder pump problems.





Have you taken control of the maintenance problems with your centrifugal grinder pumps? But at what cost?



MAINTAINING A WASTEWATER COLLECTION SYSTEM IS BUSY ENOUGH when the equipment is working properly. Additional stress and strain on resources from unreliable centrifugal pumps is unacceptable. Rinsing down floats, unjamming cutter wheels and replacing pumps regularly in problem locations? All of that preventive maintenance is unnecessary with the Upgrade from Environment One.

Centrifugal pumps were never intended to be connected parallel in large numbers. The problem with centrifugal grinder pump systems is that the design doesn't work. They create an ever-changing system curve. They use a small grinder. They use high-speed, low-torque

motors. They use floats. And when the design doesn't work, the system doesn't work. The result? Ongoing maintenance headaches and high costs. And unreliable performance.

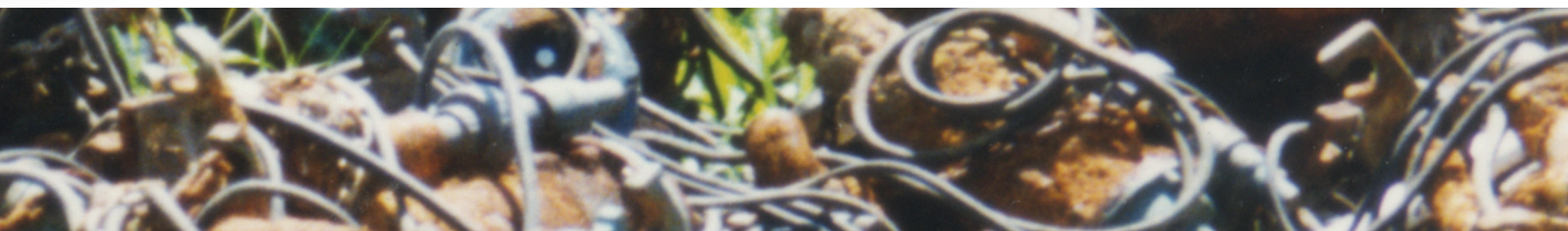
Fortunately, there is a simple solution. A reliable solution. From Environment One, the company that's been making the industry's most reliable pump for more than 55 years. With more than three million end users daily, E/One is the leader in grinder pump technology. So if you're dealing with nuisance pumps that are maintenance-intensive and costly

to fix, replace them with the Upgrade, the pump with the lowest operation and maintenance costs and the longest mean time between service calls – 10 years.

The Upgrade is engineered to fit virtually any other grinder pump well. Its universal design allows ready to connect, easy drop-in changeover. So don't put up with one more maintenance disaster from your centrifugal pump. Call E/One today and start making your life easier and your system costs lower.

ABOVE LEFT: Too many centrifugal pumps end up in the graveyard. E/One pumps keep working reliably year after year with low operation and maintenance costs.

ABOVE RIGHT: E/One's self scouring capabilities translate to no build-up and no periodic pump outs.





SPECIFICATIONS

Installation

The Upgrade is engineered to fit into virtually any other grinder pump wet well. Universal design allows easy drop-in changeover.

Features and Benefits

- The 1 1/4-inch slide face discharge connection can be adapted to any existing discharge piping without changing piping on the outside of the basin.
- Grinder is designed to eliminate jamming and for minimum wear to grinder mechanism.
- The Upgrade's self-contained level control system eliminates troublesome float switches. E/One's pressure switch level control system is the most effective in the industry.
- The internal check valve assembly is designed for non-clog, trouble-free operation.

Operational Information

MOTOR

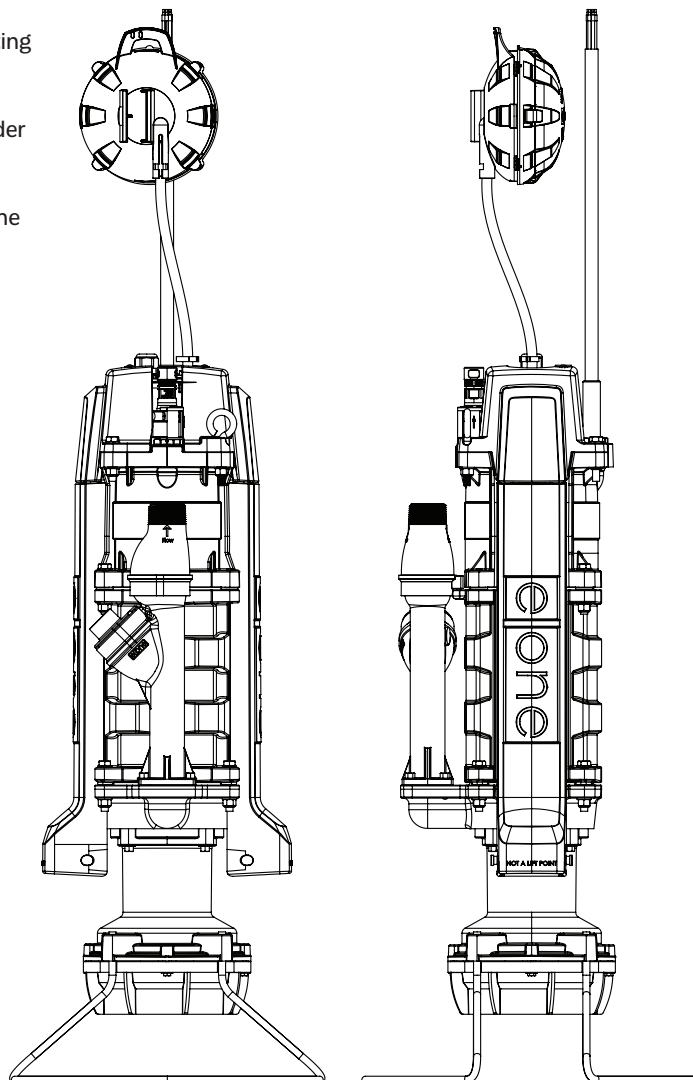
1 hp, 1,725 rpm, high torque, capacitor start, thermally protected 240 volt, 60 Hz, 1 phase; 120 volt motors are also available

ALARM PANEL

For new installations, a NEMA 4X, UL-listed or CSA-approved alarm panel includes power and signal circuit breakers, audible and visual alarms, push-to-silence button, push-to-run button, and terminal strips. For centrifugal replacements, an Upgrade power board is available that consists of DIN RAIL mountable components designed to be installed inside the existing panel.

DISCHARGE

15 gpm at 0 psig / 11 gpm at 40 psig / 9 gpm at 60 psig / 8 gpm at 80 psig



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