General Applications
The Environment One After Market Grinder Pump (AMGP) is engineered to fit into virtually any grinder pump wet well. Universal design allows easy drop-in conversion, ready to connect. The AMGP is a complete replacement for all of the troublesome components of a centrifugal, including the old unit's slide rails, pump/motor, float switches, piping and motor control devices.

General Features
All solids are ground into fine particles, allowing them to pass easily through the pump, check valve and small-diameter pipelines. Even objects not normally found in sewage, such as plastic, rubber, fiber, wood, etc., are ground into fine particles.

The grinder is designed not to jam and for minimum wear to the grinding mechanism.

The AMGP comes complete with a self-contained level control system, eliminating troublesome float switches. The grinder pump is automatically activated and runs infrequently for very short periods. The annual energy consumption is typically that of a 40-watt light bulb.

The 1 1/4-inch slide face discharge connection is adaptable to any existing discharge piping.

The internal check valve assembly located on the grinder pump is custom-designed for non-clog, trouble-free operation.

Units are available with a number of discharge hose lengths to accommodate a wide range of existing tank depths.

Operational Information
Motor
1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

Discharge Connections
Pump discharge terminates in 1 1/4-inch female solvent weld fitting; threaded adapter is supplied and discharge can easily be adapted to 1 1/4-inch MPT.

Discharge
15 gpm at 0 psig (0 TDH)
11 gpm at 40 psig (92 TDH)
9 gpm at 60 psig (138 TDH)

Overload Capacity
The maximum pressure that the pump can generate is limited by the motor characteristics. The motor generates a pressure well below the rating of the piping and appurtenances. The automatic rest feature does not require manual operation following overload.
AFTER MARKET
GRINDER PUMP
AFTER MARKET
GRINDER PUMP

1-1/4" DISCHARGE
SLIDE FACE
QUICK DISCONNECT

Ø 2.0

ALARM

Ø .50 SUPPLY
POWER CABLE

27"

ON

OFF

24.9

16.9

2.9

13.1

13.0

9.1

12.9

LM000102

SEWER SYSTEMS

DIMENSION SHEET, AMGP
IN THE MAJORITY OF AMGP INSTALLATIONS
THE EXISTING INLET, DISCHARGE, AND
POWER SUPPLY CABLES CAN BE UTILIZED
WITHOUT MODIFICATION INCLUDING J-BOX
AND FEED-THRU’S
**TYPICAL SIMPLEX AMGP INSTALLATION**

**USING VERTICAL SLIDE FACE AND COILED HOSE**

- **MUSHROOM VENT** *(if not existing, available as an accessory)*
- **EXISTING PUMP STATION**
- **E/ONE EQUALIZER**
- **PVC DISCHARGE SLIDE FACE QUICK DISCONNECT w/ VERTICAL PVC SLIDE FACE VALVE**
- **LIFTING ROPE (NYLON)**
- **POWER/ALARM CABLE 12-6 W/GND.**
- **ELECTRICAL QUICK DISCONNECT NEVA 6P** *(EQD)*
- **AMGP INSTALLATIONS CAN ACCOMODATE EXISTING TANKS UP TO 160" *** CONSULT FACTORY FOR APPLICATIONS OVER 160"**

**DISCHARGE HEIGHT** *(FLEXIBLE 1-1/4" DIA DISCHARGE HOSE (AVAIL. L = 48"-120") AND STAINLESS STEEL FACTORY INSTALLED PERMANENT HOSE CLAMPS)*

**ANTI-SIPHON CHECK VALVE** *(GLASS FILLED PVC)*

**INCOMING GRAVITY LINE**

**EXISTING INLET FITTING**

**PUMP STAND** *(300 SERIES SS)*

**SEMI-POSITIVE DISPLACEMENT TYPE PUMP**

**DIRECTLY DRIVEN BY 1 HP MOTOR**

**CAPABLE OF DELIVERING 9 gpm AT 138' T.D.H.** *(34 lpm AT 42m T.D.H.)*

- **STATION MUST BE VENTED**
- **DISCHARGE HEIGHT MUST BE KNOWN WITHIN 3 FEET TO ORDER PROPER KIT**
- **DISCHARGE HEIGHT MUST NOT BE GREATER THAN 150 INCHES**

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**e*one**

**SEWER SYSTEMS**

**DETAIL SHEET, AMGP SIMPLEX VERTICAL SLIDE FACE, COILED HOSE**

**LM000104**
EXISTING PUMP STATION

MUSHROOM VENT
(IF NOT EXISTING, AVAILABLE AS AN ACCESSORY)
**STATION MUST BE VENTED

EXISTING JUNCTION BOX

EXISTING DISCHARGE FITTING

AMGP INSTALLATIONS CAN ACCOMODATE EXISTING TANKS UP TO 180°

ANTI-SYPHON CHECK VALVE ASM (GLASS FILLED PVC)

ELECTRICAL QUICK DISCONNECT
NEWA 6G (EQD)

e|one EQUALIZER

LIFTING ROPE (NYLON)

DISCHARGE SLIDE FACE QUICK DISCONNECT

FLEXIBLE DISCHARGE HOSE (AVAIL. L = 48"-120")

30.0" EXISTING INLET FITTING

PUMP STAND (316 SS)

SEMI-POSITIVE DISPLACEMENT TYPE PUMP DIRECTLY DRIVEN BY 1 HP MOTOR
CAPABLE OF DELIVERING 9 gpm AT 138' T.D.H.
(34 lpm AT 42m T.D.H.)

TYPICAL DUPLEX
AMGP INSTALLATION

TYPICAL DROP-IN EXISTING STATION

LM000105
SLIDE FACE ASSEMBLY

SLIDE FACE TOOL

SLIDE FACE TOOL CONNECTION HUB

SLIDE FACE DISCHARGE COMPONENTS

SLIDER

MALE ADAPTER

RECEIVER

SLIDER, VALVE SHUT-OFF COMPONENT

FLEXIBLE DISCHARGE HOSE (AVAIL. L = 48'-120")

1\(\frac{1}{2}\) FEMALE SOLVENT WELD

1\(\frac{1}{4}\) ADAPTER (INCLUDED)

EXISTING DISCHARGE FITTING

EXISTING DISCHARGE LINE

EXISTING STATION WALL