

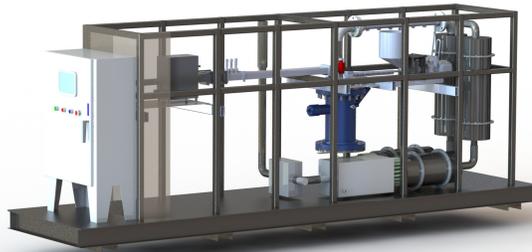
Evolucient™ CMP-01 Rapid Continuous Pyrolysis System (Preliminary System Specification)

SMALL FOOTPRINT

Capable of processing tons of material in less than the space of a pick-up truck flat bed. Full operation in space of 6 meter container.

QUICK ROI

Truly continuous processing meanings maximizing CapEx Return On Investment with 24 hour operations and minimal maintenance downtime (typical automatic self-cleaning maintenance interval every 1-2 days and takes 5 to 10 minutes)



Our **Evolucient™** systems operate at low ambient pressures using a first of its kind advanced hybrid pyrolysis heating process to create high quality, mixed light crude oil (gasoline, diesel, kerosene and heavy oil) or other chemically valuable hydrocarbons.

The Evolucient™ Automated 3-Step Process: Load, Operate, Extract

Granulated plastic materials are continuously fed into our Evolucient systems by a unique airlock mechanism. Plastic materials are rapidly heated, gasified and decomposed, then cracked into mixed light crude oil or individual fuels.

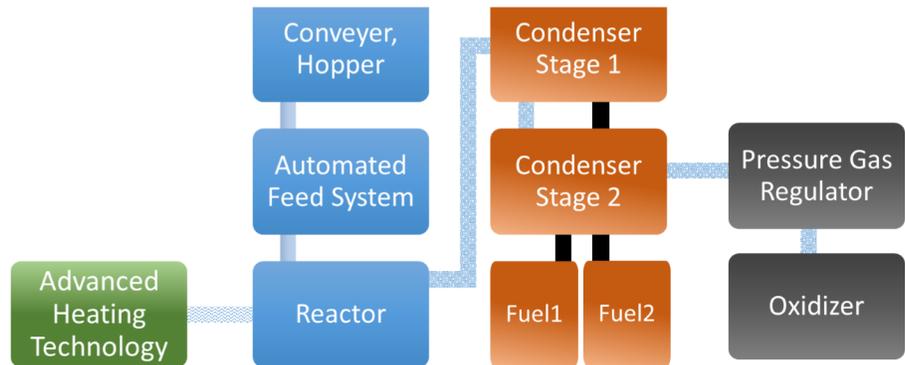
An Evolutionary Waste Plastic Recycling Solution: Evolucient Systems™

At Resynergi, we view waste plastic as part of the answer. With ever changing crude oil prices, political instability making once secure sources of petroleum uncertain, waste plastic offers a source for oil that also greatly reduces the environmental impact of plastic that would otherwise be discarded. Resynergi's Evolucient Systems™ is an evolutionary plastic to oil conversion technology that has multiple pending patents. Using an innovative rapid pyrolysis process, it safely eliminates plastic waste, creates hydrocarbon oils and fuels while significantly reducing CO₂ emissions.

- Ultra-efficient Cost Saving**
 Uses about 0.5 kwhr of electricity to produce 1 liter of oil from about 1 kg of plastic*. System can be run off the grid via solar, plastic oil-fueled generators or other power generation.
- True Continuous Operation** makes it possible to run safely 24hrs a day to maximize production output and CapEx investment while saving energy.
- Scalable Modular Design** allows one to 'pay as you grow'. Handle today's recycling volume while future expansion is simply adding modules to increase processing demand.
- Ultra Clean Emissions**
 An onboard catalytic oxidizer system decomposes off-gas into a small amount of CO₂ and water. Alternatively, off-gas can be directed into a co-generation system to generate electrical power or collected for future use.
- Simplified Use**
 Units are designed with Touch Screen GUI's (Graphical User Interfaces) that are easy to use with minimal training.
- Extremely Durable**
 With a compact footprint, nominal maintenance and solid engineering the CMP Series are built to last.



Data and Specifications (1 Ton system)



SAFETY

Multiple redundancies, alarm systems, fire suppression systems and system backups provide peace of mind. Processing does not require evacuation of air or catalyst for operation.

Patent Pending

Evolutent Systems™

operate at low pressure making them the unique industry leader for safe, clean operation.

SUPPORT SERVICES

Facility Planning & Layout

Technical Support Help

Installation and Setup

Training Maintenance

and Services Extended Warranty

- **Dimensions**
1 Modules 1219(W) x 2438(L) x1500(H)
- **Weight**
1100 kg
- **Input Power**
480/VAC~, 3 Phase (other voltages available)
- **Safety**
UL, C-UL/CSA, CE Mark Standards and NFS Requirements

Power Consumption
At full capacity will average 20 kW

- **Average Processing Capacity/Average Oil Output**
Plastics: 1000 kg/day
Oil: 900-1100 l/day

Emissions Control
Active Platinum Catalytic Oxidizer

Standard Warranty
2 Year Parts and Labor

Output Specification Core Testing
- ASTM D 975
- EN 590

Materials
Polypropylene, Polyethylene, Polystyrene
Resin Codes:
**Planned support of other resins codes*





Resynergi
evolutionary energy recovery systems

LOW MAINTANCE & MINIMUM DOWNTIME

Typical system maintenance is minimized to allow one module, to be serviced while allowing other modules in a multi-module system to keep operating. A typical system needs only a single annual service through Resynergi's Service and Support Group to assure continual smooth operations.

TURNKEY SOLUTIONS

Full turn key packages available with conveyors that are designed to get your operation up and running fast.

CONTACT US

For more information on any of our products or services please visit us at:

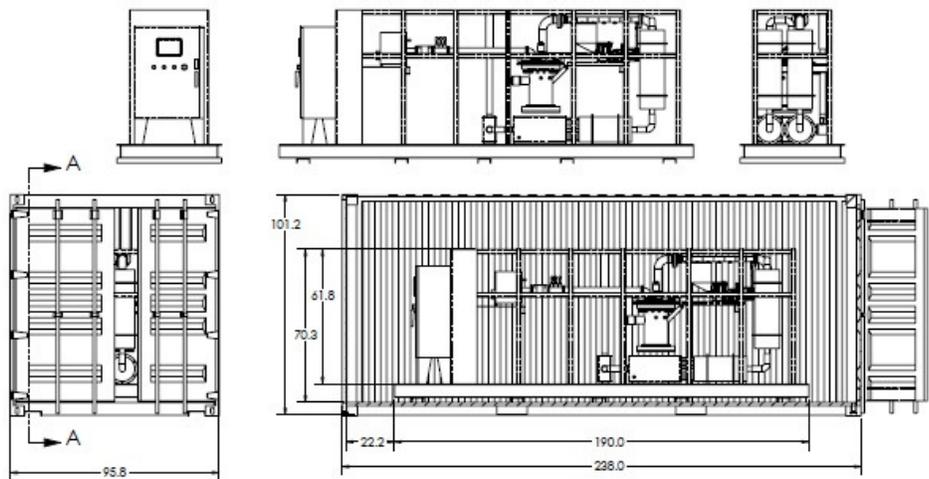
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Container and Shipping Configuration



- **Dimensions**
Standard 6m (20') Container, (6m L x 2.4m W x 2.6m H)
- **Weight**
2400 Kg, (1100kg System, 1300kg Container)



Ordering Information

- **Ordering Numbers**
 - CMP-01 1 metric ton system, Skid mounted
 - CMP-05 5 metric ton system, (future)
- **Options – Contact Sales Engineering**
 - Granulator
 - Conveyor
 - Container, 6m (20')



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evolutionary energy recovery systems