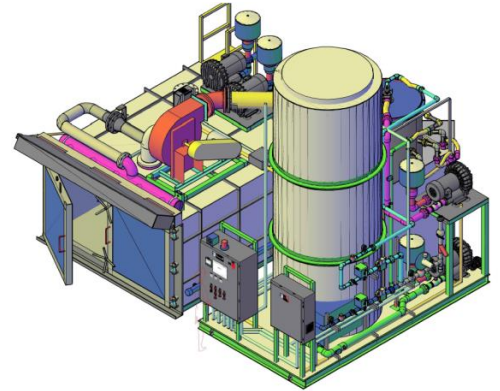


CoronaLux™

WASTE DESTRUCTION SYSTEM

MODEL L 4.3.3.



| KEY SYSTEM REQUIREMENTS | | | | | | | | | | | | |
|--|---|---------------------|-----------------|---------------|-----------------------------------|--------------------------------|----------|--------|--|---|---|---------------------------------|
| Electrical Requirements | Building Requirements | | | | | | | | | | | |
| 3-Phase, 60 Hz, 480V Power, 200 Amp Circuit 59 kWh Wall-Draw Consumption | 18' Ceiling and 14' x 14' Access Doors | | | | | | | | | | | |
| Natural Gas Requirements (propane systems available) | Only required connections: Natural Gas and Electrical | | | | | | | | | | | |
| <table border="0"> <tr> <td>Peak</td> <td><u>Steady State</u></td> </tr> <tr> <td>6,000,000 BTU/h</td> <td>600,000 BTU/h</td> </tr> <tr> <td>6,000 CFH – 170 m³/h</td> <td>600 CFH – 17 m³/h</td> </tr> <tr> <td>1,760 kW</td> <td>176 kW</td> </tr> </table> | Peak | <u>Steady State</u> | 6,000,000 BTU/h | 600,000 BTU/h | 6,000 CFH – 170 m ³ /h | 600 CFH – 17 m ³ /h | 1,760 kW | 176 kW | <table border="0"> <tr> <td>200 Amp Circuit, Type THHN 3/0 Gauge Wire</td> </tr> <tr> <td>400 ft² Floor Space (System Work Space)</td> </tr> <tr> <td>45,000 lbs. Floor Load Capacity</td> </tr> </table> | 200 Amp Circuit, Type THHN 3/0 Gauge Wire | 400 ft ² Floor Space (System Work Space) | 45,000 lbs. Floor Load Capacity |
| Peak | <u>Steady State</u> | | | | | | | | | | | |
| 6,000,000 BTU/h | 600,000 BTU/h | | | | | | | | | | | |
| 6,000 CFH – 170 m ³ /h | 600 CFH – 17 m ³ /h | | | | | | | | | | | |
| 1,760 kW | 176 kW | | | | | | | | | | | |
| 200 Amp Circuit, Type THHN 3/0 Gauge Wire | | | | | | | | | | | | |
| 400 ft ² Floor Space (System Work Space) | | | | | | | | | | | | |
| 45,000 lbs. Floor Load Capacity | | | | | | | | | | | | |
| Designated Waste Stream: Pathogenic, trace chemotherapy, pharmaceutical wastes, sharps, and related blood borne pathogens. | | | | | | | | | | | | |
| Facility Requirements | | | | | | | | | | | | |
| <ul style="list-style-type: none"> ▪ Roll-up door that is >14' wide. ▪ 200 Amps electrical service available per system. ▪ Fenced and locked gate facility for security and DOH requirements. City may require hedges or slats in wire fence to obscure view. ▪ Natural gas pressure of 5 psi and flow rate of 6,000,000 BTU/h – 6,000 SCFH. ▪ No drain in building – easier to collect and clean spills. Otherwise, water treatment system required. ▪ Ventilation fans inside building to dissipate heat from system. ▪ Preferably roof with no tar sealant - simple steel roof best. Otherwise we need to insulate around the stack. ▪ Water lines for eye wash fountain and safety shower with appropriate drain. ▪ Building must be completely up to all current codes. ▪ Preferably a low traffic area. ▪ 5,000 ft² facility. ▪ Minimum 18' ceilings. ▪ 1-2 offices. ▪ Natural gas supply in building. ▪ Three phase electric in building. ▪ Loading dock. | | | | | | | | | | | | |

| MODEL L 4.3.3. | PYROLYTIC CHAMBER | PLASMA CHAMBER & VENT | TOTAL | | | | | | | | | | | | | | | |
|---|---|--|--|-----------------|------------|--------------|-----------------|-------------------|--------------------|----------------|--|--|-----------------|------------------|-------------------|---------------|--|--|
| DETAILED SYSTEM SPECIFICATIONS | | | | | | | | | | | | | | | | | | |
| Footprint | 180 ft ² | 112 ft ² | 315 ft ² | | | | | | | | | | | | | | | |
| Skid Length | 15 ft | 14 ft | 21 ft | | | | | | | | | | | | | | | |
| Skid Width | 12 ft | 8 ft | 15 ft | | | | | | | | | | | | | | | |
| Skid Height | 11 ft | 17 ft | 17 ft | | | | | | | | | | | | | | | |
| Weight | 30,000 lbs. | 15,000 lbs. | 45,000 lbs. | | | | | | | | | | | | | | | |
| REQUIREMENTS & CONSUMPTION | | | | | | | | | | | | | | | | | | |
| Electrical Requirements <ul style="list-style-type: none"> • Frequency • kVA • Certification • Control Panel Classification* <small>* Higher panel ratings available upon request ** Electrical stabilization equipment available upon request</small> | 60 Hz 45 kVA UL NEMA 4 | 60 Hz 30 kVA UL NEMA 4 | 60 Hz 75 kVA UL NEMA 4 | | | | | | | | | | | | | | | |
| Electrical Consumption <ul style="list-style-type: none"> • Required power supply • US average cost per kWh • Cost per hour | 34 kW 0.10 \$/kWh \$3.40/h | 25 kW 0.10 \$/kWh \$2.50/h | 59 kW 0.10 \$/kWh \$5.90/h | | | | | | | | | | | | | | | |
| External Fuel Requirements Natural Gas (propane systems available) <ul style="list-style-type: none"> • <u>Start-Up</u> • <u>Steady-State</u> | 5 psi Supply Pressure 2M BTU/h 200,000 BTU/h | 5 psi Supply Pressure 4M BTU/h 400,000 BTU/h | 5 psi Supply Pressure 6M BTU/h 600,000 BTU/h | | | | | | | | | | | | | | | |
| External Fuel Consumption Natural Gas (propane systems available) <ul style="list-style-type: none"> • <u>Start-Up</u> • <u>Steady-State</u> | @ \$4.00 /MMBTU \$8.00/h \$0.80/h | @ \$4.00 /MMBTU \$16.00/h \$1.60/h | @ \$4.00 /MMBTU \$24.00/h \$2.40/h | | | | | | | | | | | | | | | |
| Throughput <ul style="list-style-type: none"> • Based on composition of the waste | <ul style="list-style-type: none"> • Cycle (c) ≤ 12 hours <ul style="list-style-type: none"> ○ Pounds per cycle: 2,500-3,750 lbs. • 1 Day (d) = 2 Cycles <ul style="list-style-type: none"> ○ Pounds per day: 5,000-7,500 lbs. | | | | | | | | | | | | | | | | | |
| Total Cost (full system gas & electric) <u>Start-up & Peak</u> <ul style="list-style-type: none"> • Total cost per hour • Total cost per pound <u>Steady State</u> <ul style="list-style-type: none"> • Total cost per hour • Total cost per pound | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>Electric</u></td> <td style="text-align: center;"><u>Gas</u></td> <td style="text-align: center;"><u>Total</u></td> </tr> <tr> <td style="text-align: center;">\$5.90/h</td> <td style="text-align: center;">+\$24.00/h</td> <td style="text-align: center;">= \$29.90/h</td> </tr> <tr> <td colspan="3" style="text-align: center;">14 cents / lb.</td> </tr> <tr> <td style="text-align: center;">\$5.90/h</td> <td style="text-align: center;">+\$2.40/h</td> <td style="text-align: center;">= \$8.30/h</td> </tr> <tr> <td colspan="3" style="text-align: center;">2 cents / lb.</td> </tr> </table> | | | <u>Electric</u> | <u>Gas</u> | <u>Total</u> | \$5.90/h | +\$24.00/h | = \$29.90/h | 14 cents / lb. | | | \$5.90/h | +\$2.40/h | = \$8.30/h | 2 cents / lb. | | |
| <u>Electric</u> | <u>Gas</u> | <u>Total</u> | | | | | | | | | | | | | | | | |
| \$5.90/h | +\$24.00/h | = \$29.90/h | | | | | | | | | | | | | | | | |
| 14 cents / lb. | | | | | | | | | | | | | | | | | | |
| \$5.90/h | +\$2.40/h | = \$8.30/h | | | | | | | | | | | | | | | | |
| 2 cents / lb. | | | | | | | | | | | | | | | | | | |



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