DUST SUPPRESSION MISTING CANNONS

ECOLO

SERIES 150-400
Dust Suppression Systems

Since 1973 Ecolo has been a leading expert in the development and manufacturing of misting systems and environmentally responsible odor control formulations. Through years of research & development and multiple acquisitions, Ecolo has created a comprehensive line of water cannons and fixed nozzle high pressure misting for indoor and outdoor dust control. Systems are built to lasting standards using high quality corrosion resistant materials, and the latest innovations in noise reduction and water droplet technologies.
Research in the field of dust suppression systems shows that if a number of water droplets, approximately the same size as dust particles are generated, the chance of collision is high.

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### Throwing Distance of Water Cannons

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Distance</th>
<th>Water Volume Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>E150</td>
<td>50 ft / 15 m</td>
<td>70% of water volume at 5 ft / 12 m</td>
</tr>
<tr>
<td>E400</td>
<td>130 ft / 40 m</td>
<td>70% of water volume at 7 ft / 35 m</td>
</tr>
</tbody>
</table>

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Some data in this publication can be nominal. We reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine. Values at MSL (Mean Sea Level) (0 ft / 0 m above sea level at 59°F / 15°C). Measurements made under windless conditions. Throw length / height varies with wind. Aerial coverage depending on setting of turning device.
Ecolo heavy duty cannons are built to last! Equipped with a strong chassis, the machines are perfect for the demolition, steel and rental business. All chassis components are hot dip galvanized, remote control for all functions comes standard as well as automatic swing operation to distribute the mist over large areas. Cannons also feature low power consumption, adjustable to accommodate a wide range of application requirements. The mist generated by the units have a droplet size between 50-200 microns with a mean droplet size of 90 microns making it ideal for outdoor, all round use such as, steel plants, mining operations, demolition, bulk handling, material crushing and recycling.

Droplet size: 50-200 microns  
Mean droplet size: 90 microns
E400 Specifications

Ecolo E400 10-ADC-E400
Fan motor rating 15 Hp / 11 kW
Pump motor rating 5 Hp / 4 kW
Specified voltage 600VAC-3Ph-60Hz or;
480VAC-3Ph-60Hz
Current consumption, max 22 A @ 600V
22 A @ 480V
Frequency L1-L2-L3-N
Power cable length 98 ft. / 30 m
Fan starter SOFTSTARTER
Emergency stop YES
Control panel Buttons for machine Start and Stop
Tilt up/down, Turn left/right
Turn auto on/off, Turn area setting

Weight 1025 lbs / 465 kg
Length 57 “ / 1.45 m
Width 51” / 1.3 m
Height 75” / 1.9 m

Elevation, ELECTRIC -10˚ to +50˚
Turning, ELECTRIC Automatic oscillation
Turning area All around, no mechanical limit
Turning area setting 15˚ or 30˚ or 60˚

Throw (up to) 130 ft. / 40 m
Throw (70% of water volume) 30- 115 ft / 9 - 35 m

Water connection Thread 1” NPT
Water swivel YES
Pressure gauges Before filter, after filter, nozzle pressure
Water filter 500 microns

Required inlet pressure 30 - 145 psi
Pump to boost the water as standard equipment.
Water drain (automatic valves installed at pump & filter)

Pressure guard Cuts the pump if water supply is broken.
Setting 4 - 20 psi

Nozzles 20
Maximum flow 14.5-19 GPM 55-73 l/min
Flow minimum 4-4.8 GPM 15-18 l/min

Kit for winter operation available

Hand Held Remote Control

Wireless range 330 ft. / 100 m at free line of sight.
Functions: Start/Stop pump and fan, tilt up / down, turn left / right, turn auto on/off, emergency stop.
Water valve. Automatically opens/closes water supply at machine start.

Wheel & Trailer Hitch Kit

Wireless range 330 ft. / 100 m at free line of sight.
Functions: Start/Stop pump and fan, tilt up / down, turn left / right, turn auto on/off, emergency stop.
Water valve. Automatically opens/closes water supply at machine start.
Ecolo’s E400 mist cannon is also available mounted on a trailer with integrated water tank and optional generator & labeled the ESC400. The trailer is designed for use where there is no local power or water supply but, it is also equipped to be connected directly to the power grid and/or local water supply.

The ESC400 is equipped with the water-electric swivel for unlimited rotation of the mist cannon without breaking any cables.

### Weight

7,700 lbs / 3,500 kg

### Generator 35 kVA (28kW) (Optional)

- YANMAR Motor 1500 rpm
- Fuel tank 26 gal / 100 L
- Running time 16.5 hrs
- Circuit breaker
- Super silent 65dB @ 23 ft / 7m

### Elevation, ELECTRIC

- -10° to +50°
- +33°F to 104°F / +1°C to +40°C

### Operating temperature

- Unlimited oscillations
- Electric elevation
- Automatic water drain
- Pump run dry protection
- Filter system
- Pressure gauges
- 1.320 gal / 5000 L water tank
- Heavy duty wheels 400/60 15.5

### OPTIONS

- Heating system for winter operation
- Dosing pump
E150 Specifications

E150 Tower

<table>
<thead>
<tr>
<th>E150 Unit</th>
<th>10-ADC-E150-T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>262 lbs. / 120 kg</td>
</tr>
<tr>
<td>Length</td>
<td>48” / 1.2 m</td>
</tr>
<tr>
<td>Width</td>
<td>30” / 0.75 m</td>
</tr>
<tr>
<td>Height</td>
<td>69” / 1.67 m</td>
</tr>
</tbody>
</table>

E150 Portable

<table>
<thead>
<tr>
<th>E150 Unit</th>
<th>10-ADC-E150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>240 lbs. / 110 kg</td>
</tr>
<tr>
<td>Length</td>
<td>48” / 1.2 m</td>
</tr>
<tr>
<td>Width</td>
<td>30” / 0.75 m</td>
</tr>
<tr>
<td>Height</td>
<td>45” / 1 m</td>
</tr>
</tbody>
</table>

Water Flow

Nozzle configuration - 2 clusters of 3 nozzles
Flow all nozzles (at 1400 psi)  2L/min / 1/2 GPM
*Optional 4 clusters of 3 nozzles 4L/min / 1 GPM

Fan motor rating  1.4Hp (1 kW)
Pump motor rating  3/4Hp (0.6 kW)
Current consumption  12 amps
Specified voltage  230 VAC-1Ph-60Hz

Power cable length  13 ft. / 4 m
Fan starter  DIRECT
Emergency stop  YES
Control panel buttons  Pump START/STOP
                      Fan START/STOP (option)
                      Turn ON/OFF

Elevation, HAND  20˚ to 60˚
Throw (up to)  50 ft. / 15 m
Water connection  Thread 3/4” NPT
Required in pressure  30-145 psi / 2-10 bar
Working pressure (at the nozzle)  1400 psi / 96.5 bar
Filtration system  60 microns

Turning 20-40

Turning Electrical (automatic oscillation)
Turning area  Center of turning area fixed
Turning area setting  20° or 40°

Gauges

0-600 psi / 0-41 bar gauge after filter, before pump
0-2300 psi / 0-158 bar gauge after pump (nozzle pressure)
SELECTION, MONITORING AND SERVICE

After a thorough review of your dust control objectives, and an evaluation of your physical environment, our technical team works with you to select an Ecolo system and appropriate options to ensure each project is a perfect fit. We stand by our product with an industry leading warranty and provide close coordination with each customer ensuring a seamless operation.