**Section 604.405 Forced or Induced Draft Aeration**

Forced or induced draft aeration devices must be designed to:

a) include a blower with a weatherproof motor in a tight housing and screened enclosure;

b) insure adequate counter current of air through the enclosed aerator column;

c) exhaust air directly to the outside atmosphere;

d) include a down turned and 24 mesh screened air outlet and inlet;

e) be such that air introduced in the column must be as free from obnoxious fumes, dust, and dirt as possible;

f) be such that sections of the aerator can be reached or removed for maintenance of the interior or installed in a separate aerator room;

g) provide loading at a rate of 1 to 5 gallons per minute for each square foot of total tray area (2.5 to 12.5 m/hr);

h) ensure that the water outlet is sealed;

i) discharge through a series of five or more trays with separation of trays not less than six inches;

j) provide distribution of water uniformly over the top tray; and

k) be of durable material resistant to the aggressiveness of the water and dissolved gases.