

# Tropical Filter Cartridge

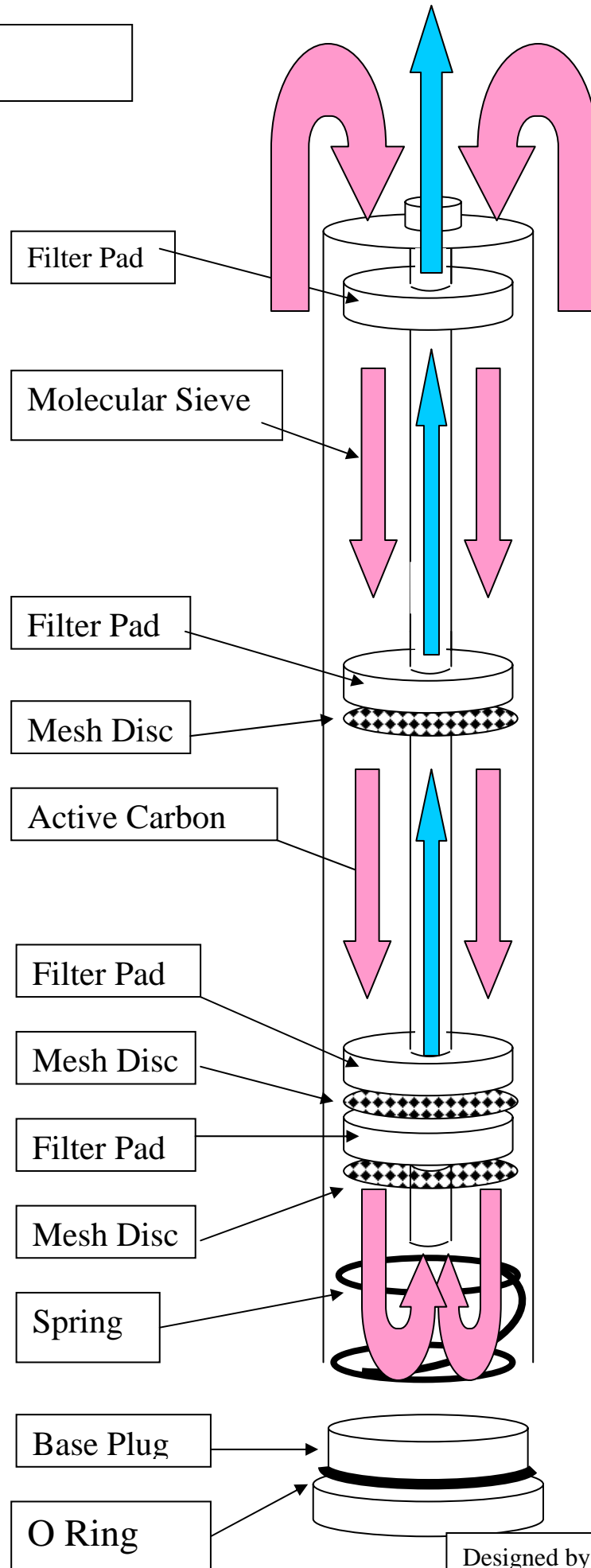
Coltri machines fitted with Auto condensate drains and used in tropical climates have displayed a shortening of usable filter media life due to excessive build ups of condensate in the final filter tower. Saturation of the filter media is caused prematurely by direct contact with water droplets forming on the metal mesh discs in cartridge intake and being passed to the filter media via the sponge like action of the felt pads.

This problem has been overcome by changing the filter cartridge design so that the air intake is at the top of the cartridge, away from the condensate, and the base of the cartridge is sealed with a removable threaded plug and O ring. A stainless steel tube then carries the airflow back up through the centre of the cartridge to the output.

Tests of the redesigned cartridge have shown that after 20 hours use in ambient temperature of 32 degrees centigrade, the filter media remains completely dry, even after the media is chemically spent.



# Air Flow Diagram



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