

Degassing Towers - DT (low cost CO₂ degasser)

Yongrad standard DT range covers flow rates from 4 m³/hour to 200 m³/hour.

The units are designed to reduce the carbon dioxide content from 200ppm to 5ppm at 20 deg C. Minimum water pressure at the inlet flange is 0.5 bars.

The units comprise a packed tower and integral sump with fan mounted. The sump is sized to give approximately 2 minutes retention time at the maximum flow.

The relatively light weight of plastic materials minimises transport costs and the standard DT model is available export packed. Its modular construction also facilitates handling and installation and no special equipment is needed to assemble the components.

A carbon absorption degassing chamber is a device which removes contaminants and dissolved gases from high purity water. This was the first degassing chamber designed and commissioned by Yongrad; making it an exciting and challenging project requiring close communication with the client, to build the best polyethylene (PE) solution.

Degassing towers are completely mechanical, and require no chemical treatment, and as such they are good for the environment.



The aim: to fabricate a tower out of high density polyethylene (PE) which would enable the client to remove carbon from the water. This water would already pass through a reverse osmosis (RO) process and, after removing the carbon, enable it to be used in the processing of nitrates.

Generally, carbon absorption degassing chambers are built with stainless steel or fibreglass. However, PE offers a more cost-effective solution while having the additional advantage of being resistant to corrosion.

Advantages of the design

Cost effective: PE is cheaper than steel and FRP.

Corrosion resistant: reduced maintenance costs, greater longevity.

Lighter in weight: easier to transport and install.

Unique low pressure release valves: reduce possible downtime along with maintenance costs. The reduced maintenance costs offers a quicker return on investment for our client.

Available export packed

