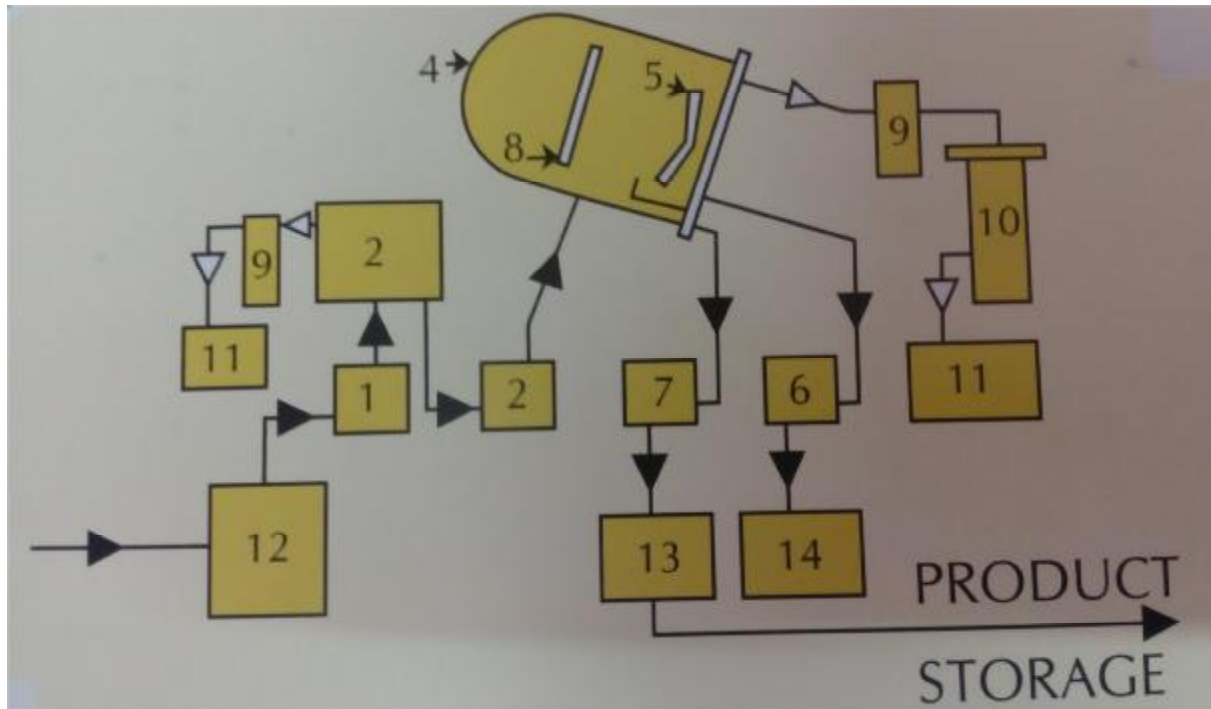


CENTRIFUGAL MOLECULAR DISTILLATION



LEGEND

1. Pump – degasser feed	9. Trap
2. Degasser	10. Ejector pump – Vacuum
3. Pump – Rotorfeed	11. Mechanical Pump – Vacuum
4. Bell jar	12. Feed Stock
5. Rotor	13. Distillate
6. Pump – Residue	14. Residue
7. Pump – Distillate	15. Flow – Liquid
8. Cooling Coil	16. Flow – Vapour or Air

We offer lab unit, pilot scale unit and production units for the above purpose. The viscosity ranges upto 4,000 CSt (30°C), molecular weight ranges 100-5,000 and pressures upto 0.0005 torr or 0.5 micron, temperatures upto 400°C are handled in these plants.

ATOMIC VACUUM COMPANY (EXPORTS)

Centrifugal Molecular Distillation

Typical applications are, Aromatic hydrocarbons, cocoa butter, Dimer acid, epoxy resins, Lubricants, micro crystalline wax, Silicone oils, Vitamins A, Omega – 3 fatty, Acid, perfumery & flavours.

PLANT SPECIFICATIONS

Model	CMD-4	CMD-15	CMD-36	CMD-60
Throughput Typical	2 kg/hour	20-25 Kg/hour	80 Kgs/hour	200 Kgs/hour
Application	Lab studies	Pilot scale	Production	Production
Heating KW (Max)	2	6	24	48
Pumping	Vane pump + Diffusion pump	Vane pump + D.P.	Piston + roots + D.P.	Piston + roots + D.P.
Nett weight	75 Kgs	870 Kgs	2000 Kgs	3,500 Kgs

Degassing section is provided on the rotor itself. Heating is done through induction heating of the rotor and impedance heating of the feed. Effectiveness of separation depends on the difference in the molecular weights.

Some of our key customers are:

- B.A.R.C. Mumbai (Development)
- Customer at Santiago-Chile(Omega-3 fatty acid concentration)
- Gharda Chemicals Limited – Dombivli (Pesticides)
- Sonic Bio-Chem Extractions – Pithampur (vitamin E)
- Customer in Malaysia, Chile

ATOMIC VACUUM COMPANY (EXPORTS)

Centrifugal Molecular Distillation