





COPARISION OF TURBO FREEZER TO OLD TECHNOLOGY FREEZER

TurboFreezer™

4 LN2 injection valves
distributed along the side

8 ventilator groups, 4 blowers
and 4 aspirators

Steady directed LN2 gas stream
all stacks of racks with straws

Homogeneous gas flow at every
spot in the chamber

Rack space separated from the LN2
entry ports

Short crystallisation plateau

Old Technology

1 central LN2 injection valve
at the bottom

1 ventilator in the bottom

Unpredictable waves of LN2 over
gas in the chamber

Warm and cold spot conditions
throughout the chamber

Lack of distance between LN2
entry port and straw racks

Long crystallisation plateau