Design Standards
Version 1.0, Augst 2023 Page 1 of 5 6.17 Bio Bank Requirmnts
elctrialy eficnt and smaler compres are les mechanicaly eficnt than large ones.
Based on the break point in enrgy intesy it is betr to purchase ULT frezs 20 ft3 or
large. To maximze eficnt use of large frezs, it is important for a universty or resarch
departmen to acknowledg and suport sharing of resouc.
ULT frezs must comply with the Energy Start Progam lates version.
6.17.3 HVAC requimnts and design
- Room to be maintained at ≤25�qC
- Room to be ventilated as a storage room and as indicated in ASHRAE 62.1 latest edition.
- Consider heat loads from freezers, lights, transformer (s), and people when calculating heat
gains and when sizing cooling equipment.
- Tight humidity control isn’t required but should be maintained at normal levels as the rest of
the building.
- Cooling system to be provided with metered DCW back-up. Provide lockable type shut-off
valves for systems switch over. Tag valves accordingly.

Design Standards

Version 1.0, Augst 2023 Page 2 of 5 6.17 Bio Bank Requirmnts

Design Standards

Version 1.0, Augst 2023 Page 3

Design Standards

Version 1.0, Augst 2023 Page 4 of 5 6.17 Bio Bank Requirmnts

Design Standards

Version 1.0, Augst 2023 Page 5 of 5 6.17 Bio Bank Requirmnts