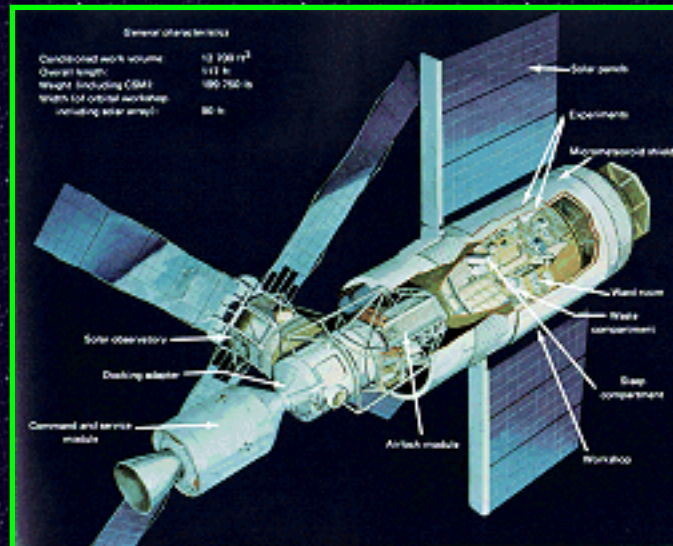




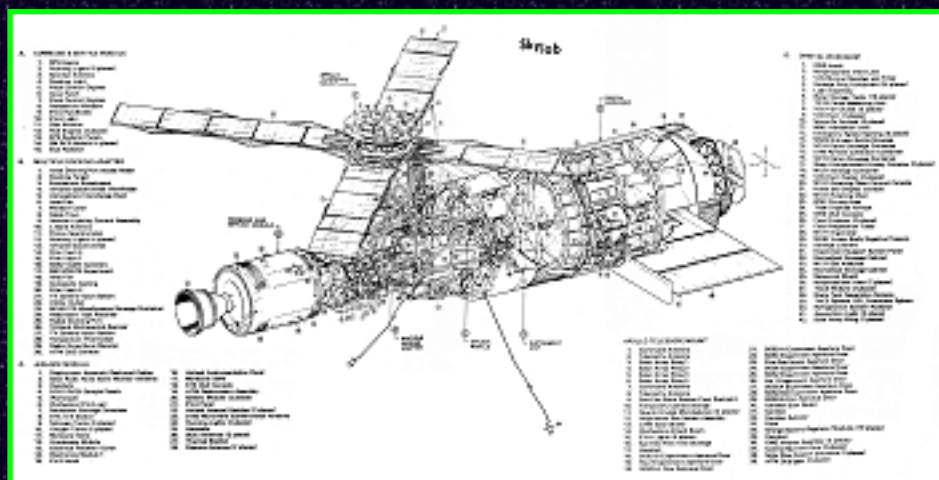
National Aeronautics and Space Administration
Office of Policy and Plans
NASA History Office

Skylab Drawings and Technical Diagrams



Skylab General Characteristics

from "Skylab, Our First Space Station"
(NASA SP-400, published 1977)

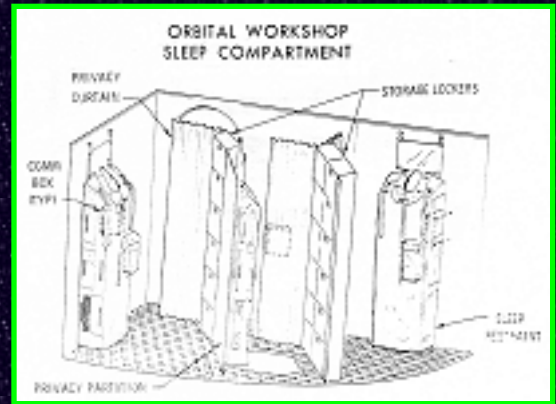


Skylab Configuration Detail



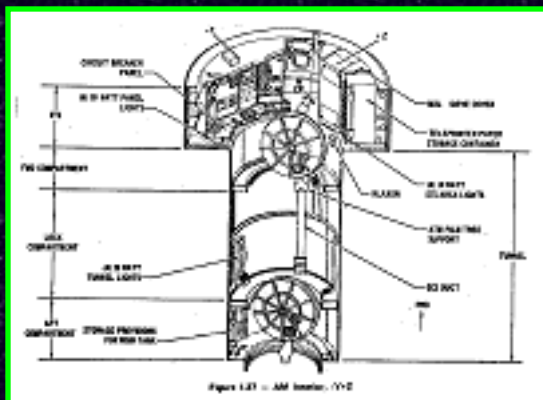
Waste Management Compartment

from Skylab Presentation Reference
(May 1973)



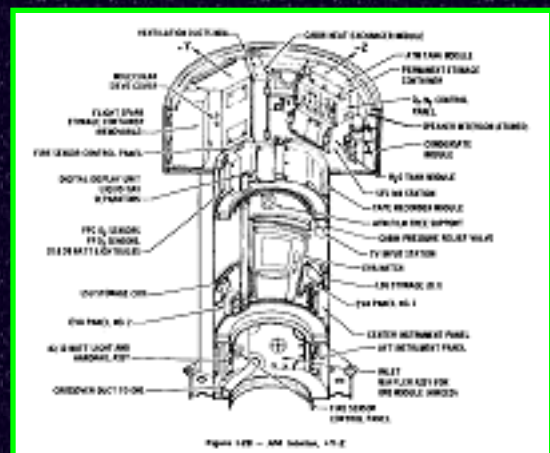
Sleep Compartment

from Skylab Presentation Reference
(May 1973)



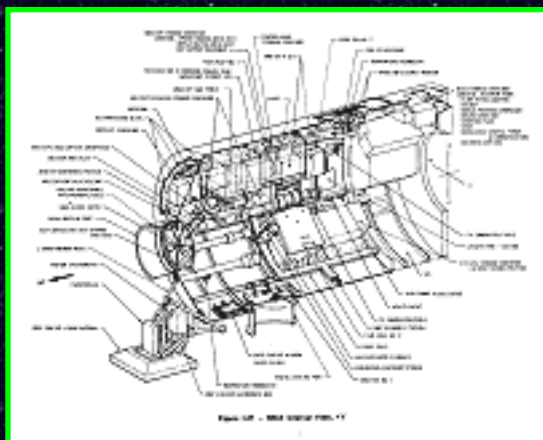
Airlock Module Interior

from Skylab Presentation Reference
(May 1973)



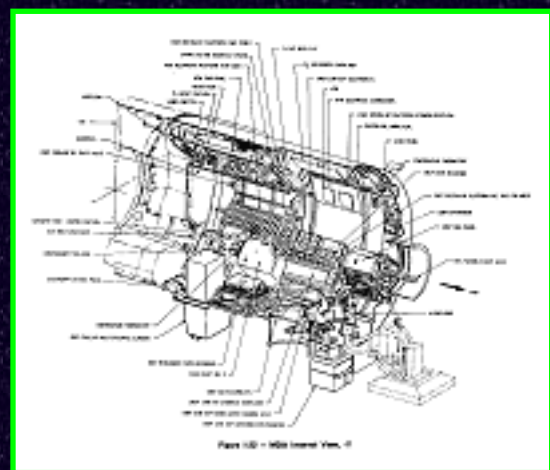
Airlock Module Interior

from Skylab Presentation Reference
(May 1973)



Multiple Docking Adapter

from Skylab Presentation Reference
(May 1973)

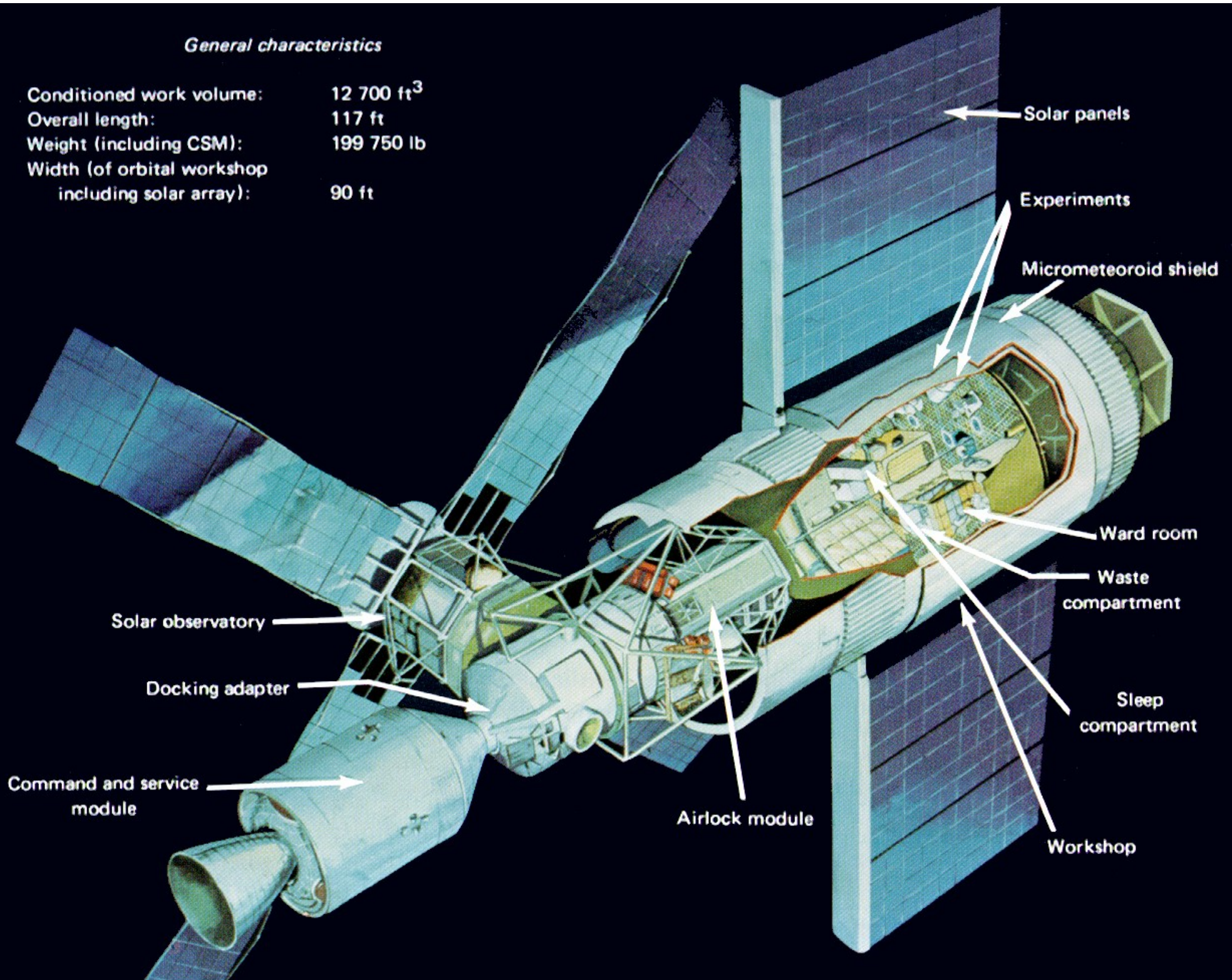


Multiple Docking Adapter

from Skylab Presentation Reference
(May 1973)

General characteristics

Conditioned work volume: 12 700 ft³
Overall length: 117 ft
Weight (including CSM): 199 750 lb
Width (of orbital workshop including solar array): 90 ft



Solar panels

Experiments

Micrometeoroid shield

Ward room

Waste compartment

Sleep compartment

Workshop

Airlock module

Solar observatory

Docking adapter

Command and service module



Skylab

A. COMMAND & SERVICE MODULE

1. SPS Engine
2. Running Lights (8 places)
3. Scimitar Antenna
4. Docking Light
5. Pitch Control Engines
6. Crew Hatch
7. Pitch Control Engines
8. Rendezvous Window
9. EVA Handholds
10. EVA Light
11. Side Window
12. Roll Engines (2 places)
13. EPS Radiator Panels
14. SM RCS Module (4 places)
15. ECS Radiator

B. MULTIPLE DOCKING ADAPTER

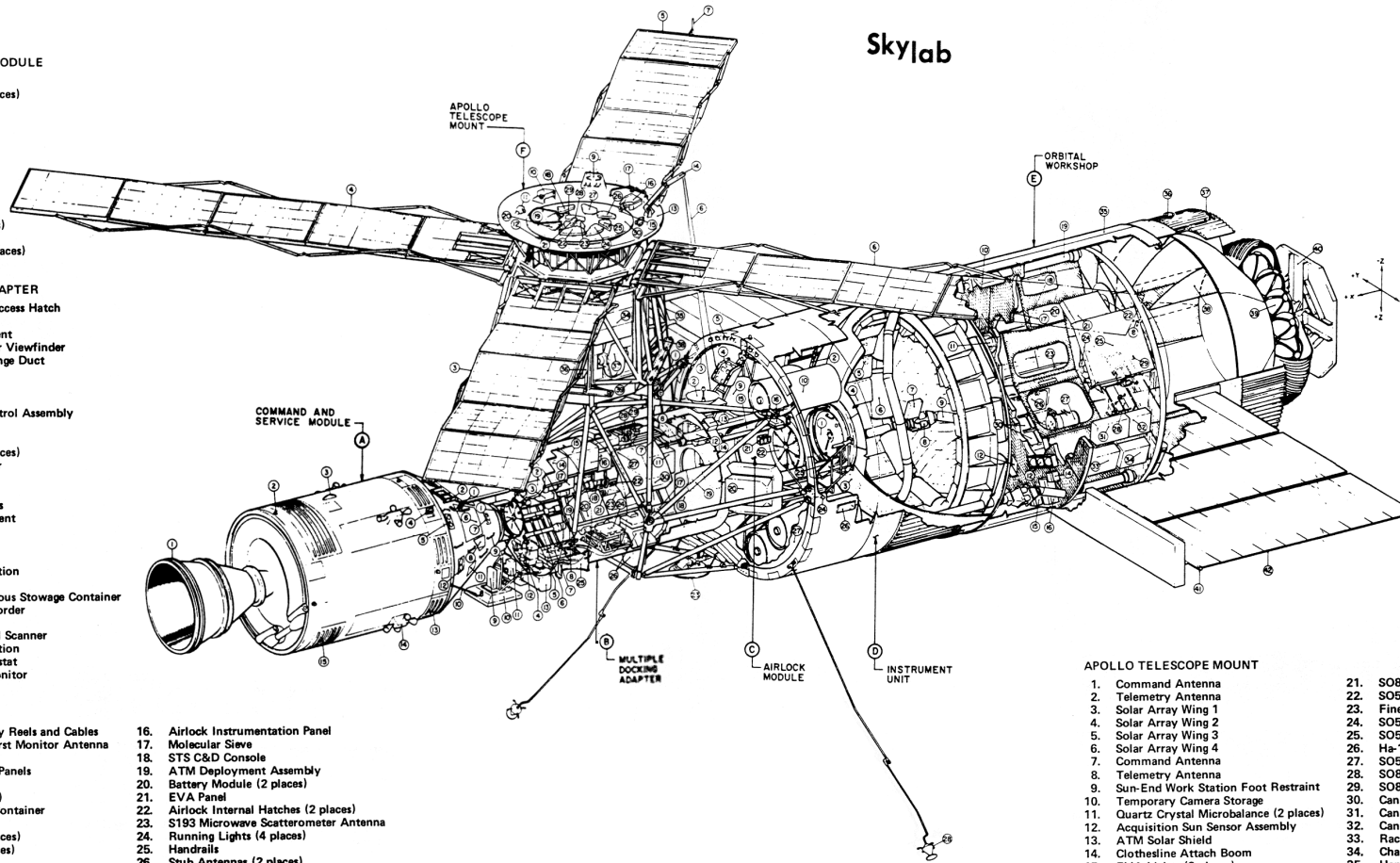
1. Axial Docking Port Access Hatch
2. Docking Target
3. Exothermic Experiment
4. Infrared Spectrometer Viewfinder
5. Atmosphere Interchange Duct
6. Area Fan
7. Window Cover
8. Cable Trays
9. Inverter Lighting Control Assembly
10. L-Band Antenna
11. Proton Spectrometer
12. Running Lights (4 places)
13. Infrared Spectrometer
14. Film Vault 4
15. Film Vault 1
16. SO82 (A&B) Canisters
17. M512/M479 Experiment
18. Area Fan
19. Composite Casting
20. Film Vault 2
21. TV Camera Input Station
22. Utility Outlet
23. M168 STS Miscellaneous Stowage Container
24. Redundant Tape Recorder
25. Radial Docking Port
26. 10-Band Multispectral Scanner
27. TV Camera Input Station
28. Temperature Thermostat
29. Radio Noise Burst Monitor
30. ATM C&D Console

C. AIRLOCK MODULE

1. Deployment Assembly Reels and Cables
2. Solar Radio Noise Burst Monitor Antenna
3. Handrails
4. DO21/DO24 Sample Panels
5. (Removed)
6. Clothesline (EVA use)
7. Permanent Stowage Container
8. STA IVA Station
9. Nitrogen Tanks (6 places)
10. Oxygen Tanks (6 places)
11. Molecular Sieve
12. Condensate Module
13. Electrical Feedthru Cover
14. Electronics Module 1
15. EVA Hatch
16. Airlock Instrumentation Panel
17. Molecular Sieve
18. STS C&D Console
19. ATM Deployment Assembly
20. Battery Module (2 places)
21. EVA Panel
22. Airlock Internal Hatches (2 places)
23. S193 Microwave Scatterometer Antenna
24. Running Lights (4 places)
25. Handrails
26. Stub Antennas (2 places)
27. Thermal Blanket
28. Discone Antenna (2 places)

E. ORBITAL WORKSHOP

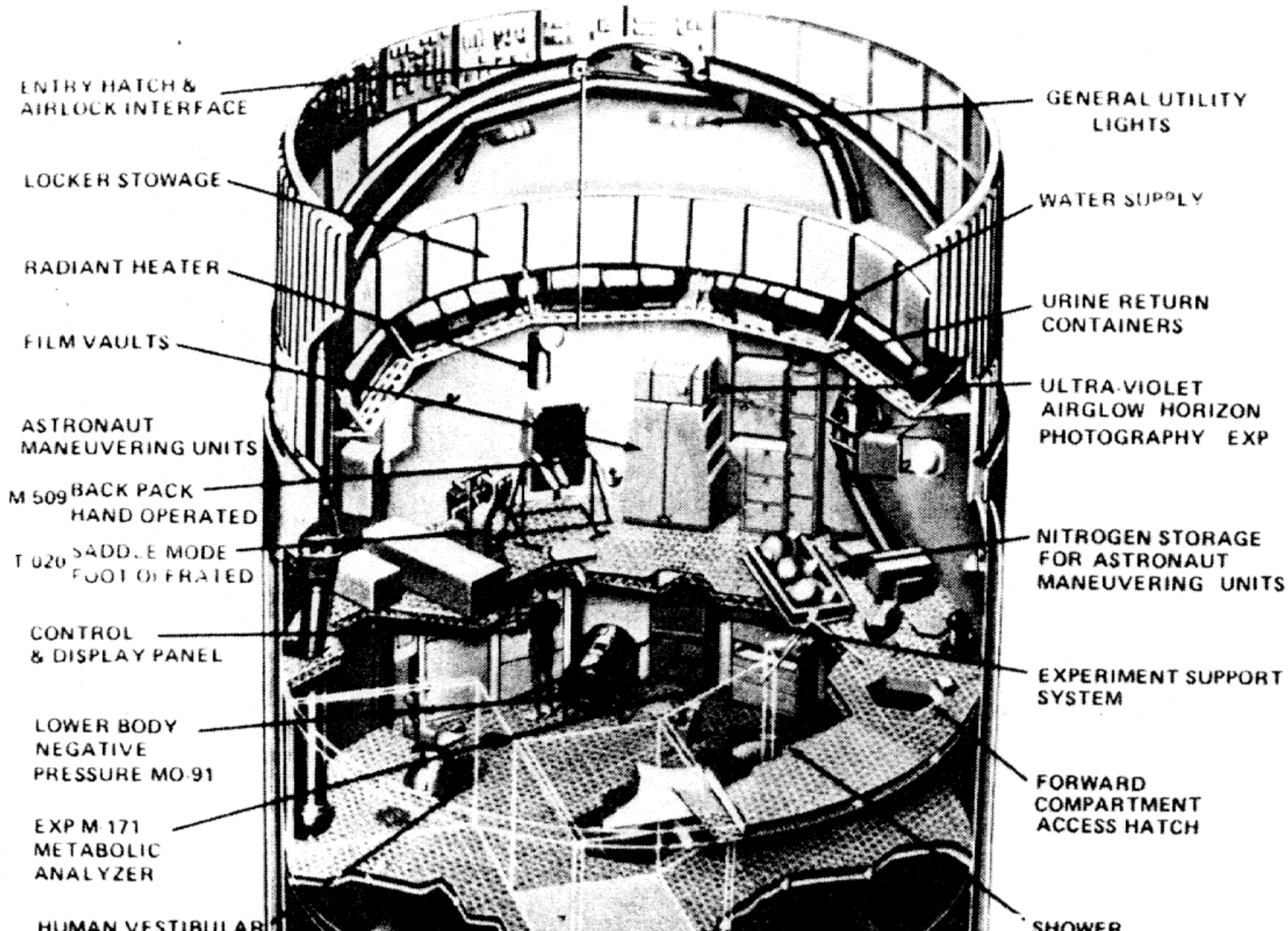
1. OWS Hatch
2. Nonpropulsive Vent Line
3. VCS Mining Chamber and Filter
4. Stowage Ring Containers (24 places)
5. Light Assembly
6. Water Storage Tanks (10 places)
7. TO13 Force Measuring Unit
8. VCS Fan Cluster (3 places)
9. VCS Duct (3 places)
10. Scientific Airlock (2 places)
11. WMC Ventilation Unit
12. Emergency Egress Opening (2 places)
13. M509 Nitrogen Bottle Stowage
14. SO19 Optics Stowage Container
15. S149 Particle Collection Container
16. SO19 Optics Stowage Container
17. Sleep Compartment Privacy Curtains (3 places)
18. M131 Stowage Container
19. VCS Duct Heater (2 places)
20. M131 Rotating Chair Control Console
21. Power and Display Console
22. M131 Rotating Chair
23. WMC Drying Area
24. Trash Disposal Airlock
25. OWS C&D Console
26. Food Freezers (2 places)
27. Food Preparation Table
28. M171 Ergometer
29. MO92 Lower-Body Negative Pressure Stowage Lockers
30. Stowage Lockers
31. Experiment Support System Panel
32. Biomedical Stowage Cabinet
33. M171 Gas Analyzer
34. Biomedical Stowage Cabinet
35. Meteoroid Shield
36. Nonpropulsive Vent (2 places)
37. TACS Module (2 places)
38. Waste Tank Separation Screens
39. TACS Spheres (22), Pneumatic Sphere
40. Refrigeration System Radiator
41. Acquisition Light (2 places)
42. Solar Array Wing (2 places)



APOLLO TELESCOPE MOUNT

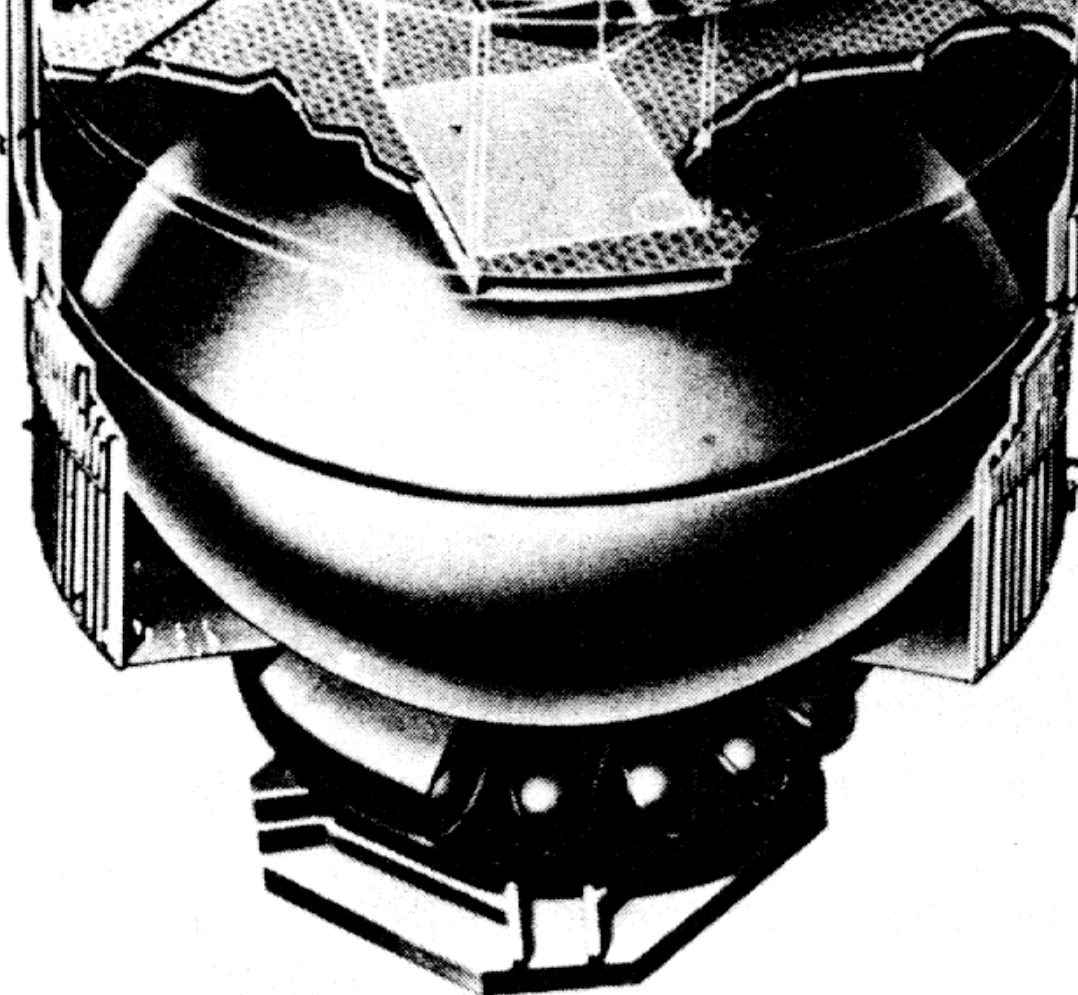
1. Command Antenna
2. Telemetry Antenna
3. Solar Array Wing 1
4. Solar Array Wing 2
5. Solar Array Wing 3
6. Solar Array Wing 4
7. Command Antenna
8. Telemetry Antenna
9. Sun-End Work Station Foot Restraint
10. Temporary Camera Storage
11. Quartz Crystal Microbalance (2 places)
12. Acquisition Sun Sensor Assembly
13. ATM Solar Shield
14. Clothesline Attach Boom
15. EVA Lights (8 places)
16. Sun-End Film Tree Stowage
17. Handrail
18. SO82-B Experiment Aperture Door
19. Ha-2 Experiment Aperture Door
20. SO82-A Film Retrieval Door
21. SO82-A Experiment Aperture Door
22. SO54 Experiment Aperture Door
23. Fine Sun Sensor Aperture Door
24. SO56 Experiment Aperture Door
25. SO52 Experiment Aperture Door
26. Ha-1 Experiment Aperture Door
27. SO55A Experiment Aperture Door
28. SO82-B2 Experiment Aperture Door
29. SO82-B Film Retrieval Door
30. Canister Solar Shield
31. Canister Radiator
32. Rack
33. Charger-Battery-Regulator Modules (18 places)
34. Handrail
35. CMG Inverter Assembly (3 places)
36. Control Moment Gyro (3 places)
37. Solar Wing Support Structure (3 places)
38. ATM Outriggers (3 places)

SKYLAB ORBITAL WORKSHOP



METABOLIC
ANALYZER

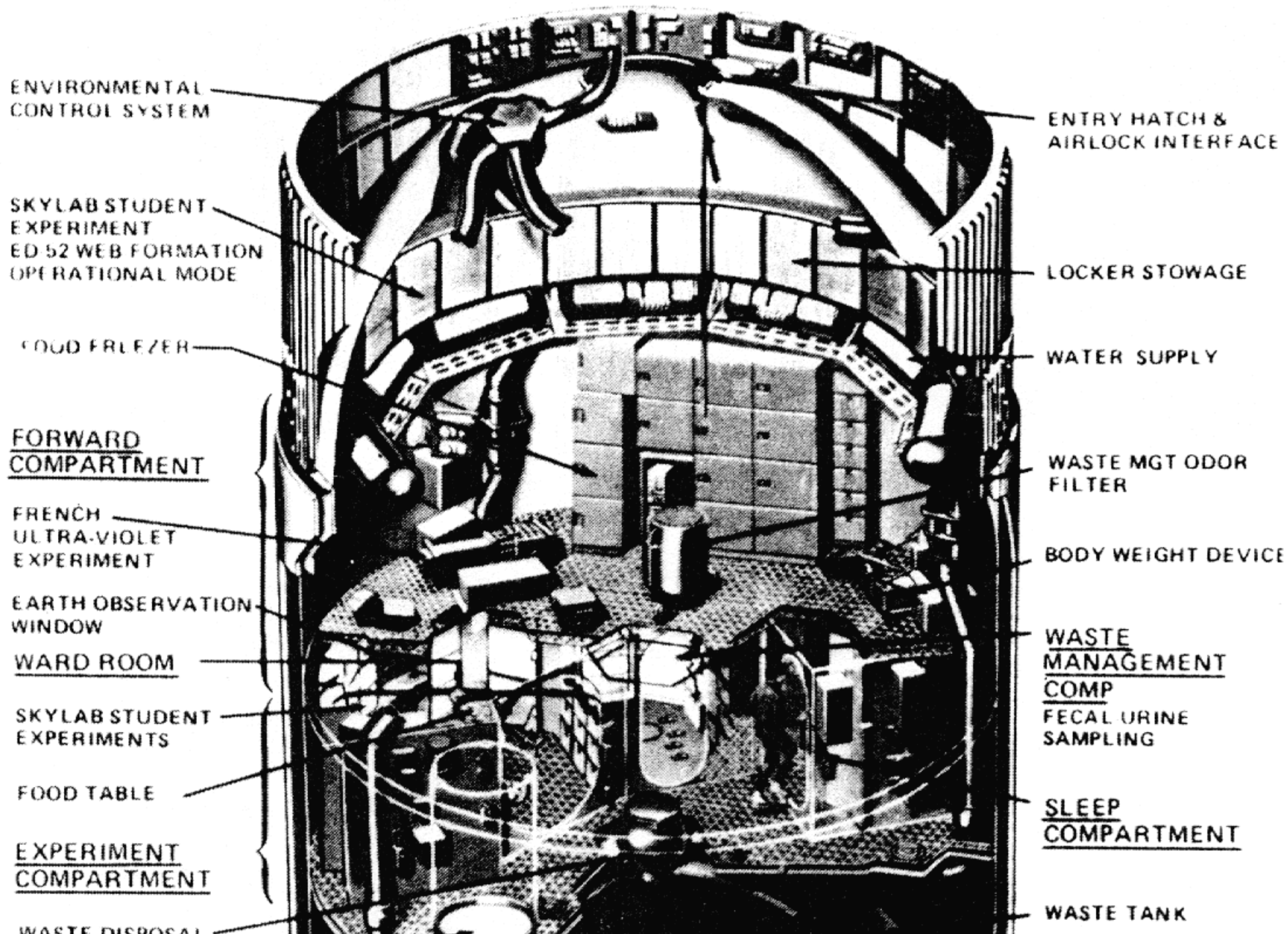
HUMAN VESTIBULAR
FUNCTION M-131



SHOWER

WASTE TANK

SKYLAB ORBITAL WORKSHOP

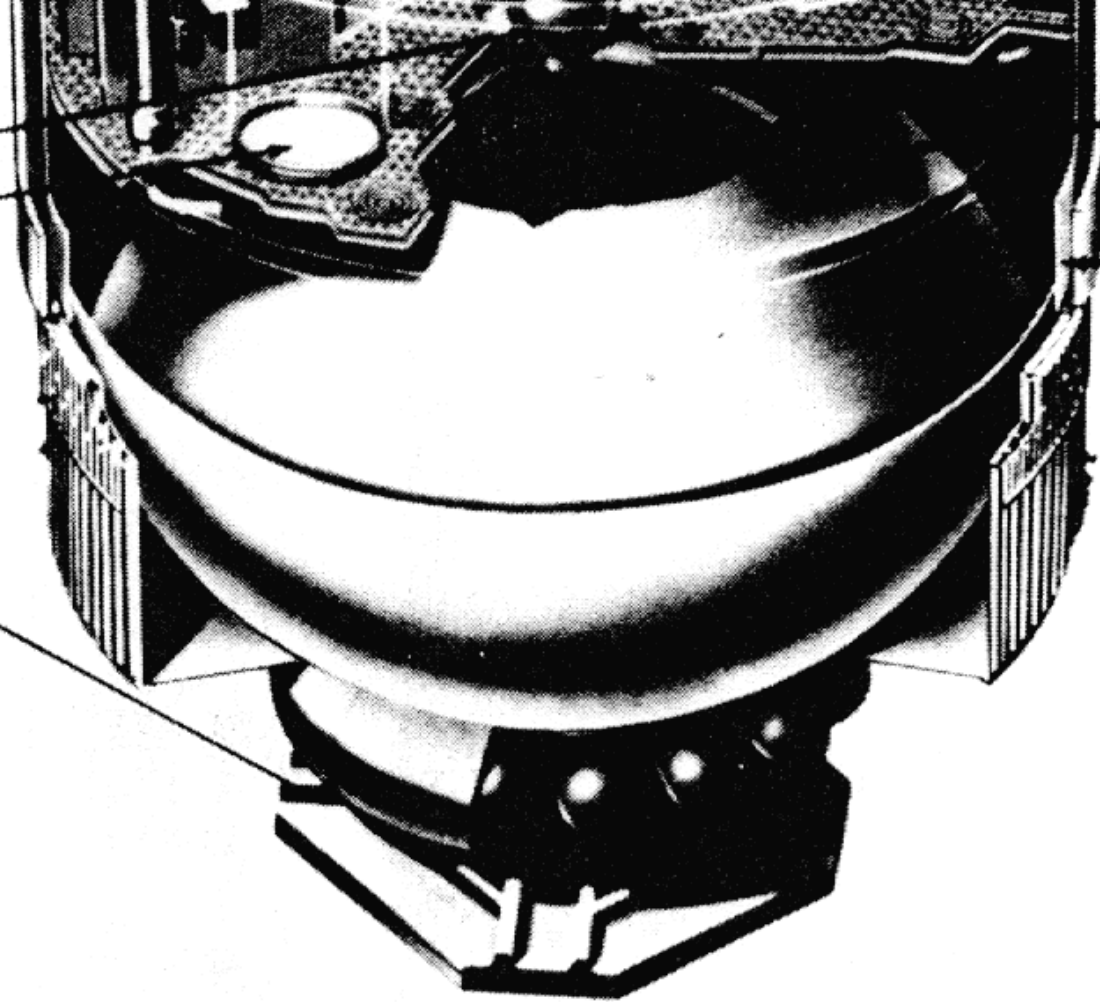


EXPERIMENT
COMPARTMENT

WASTE DISPOSAL

SHOWER

RADIATOR

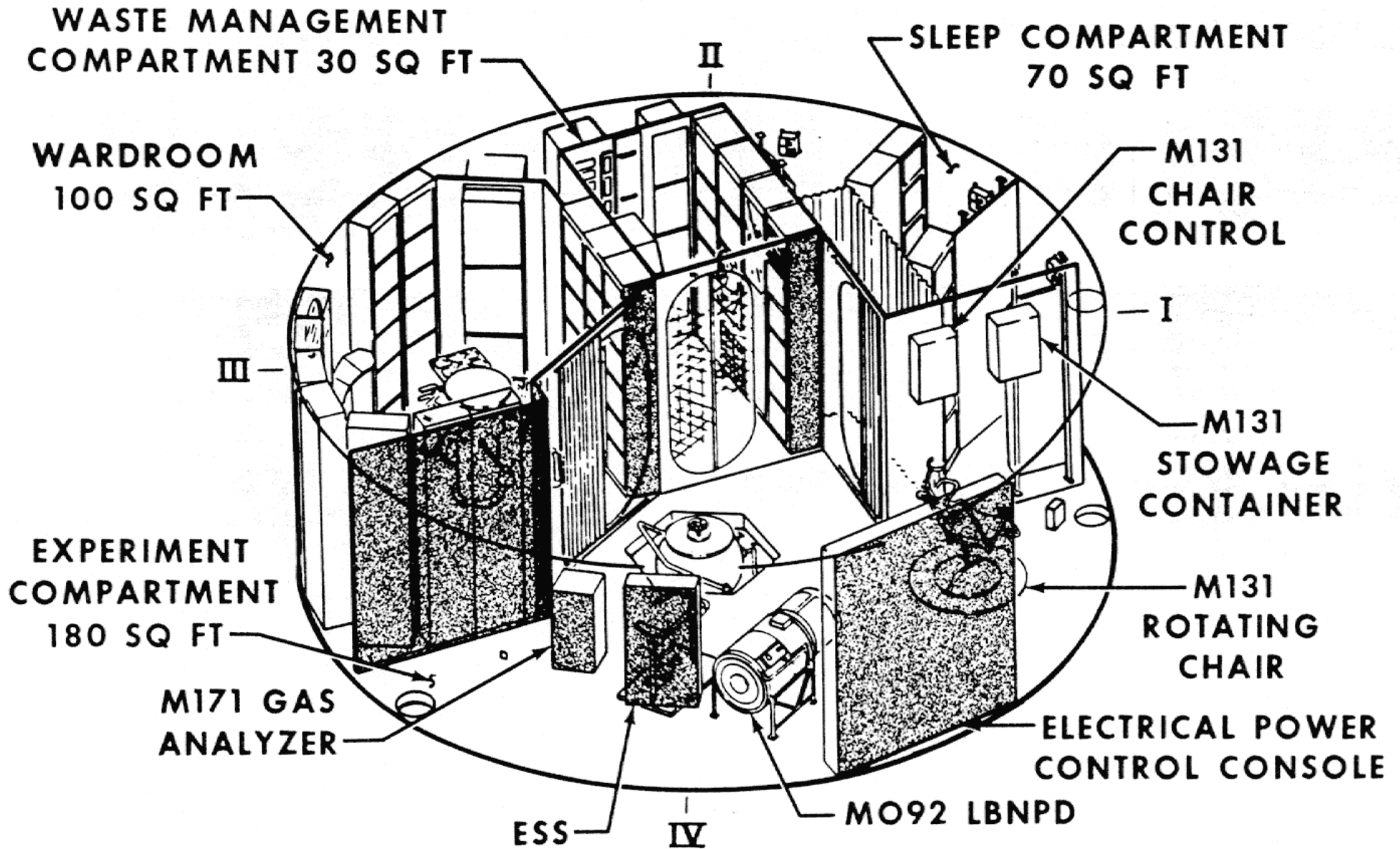


COMPARTMENT

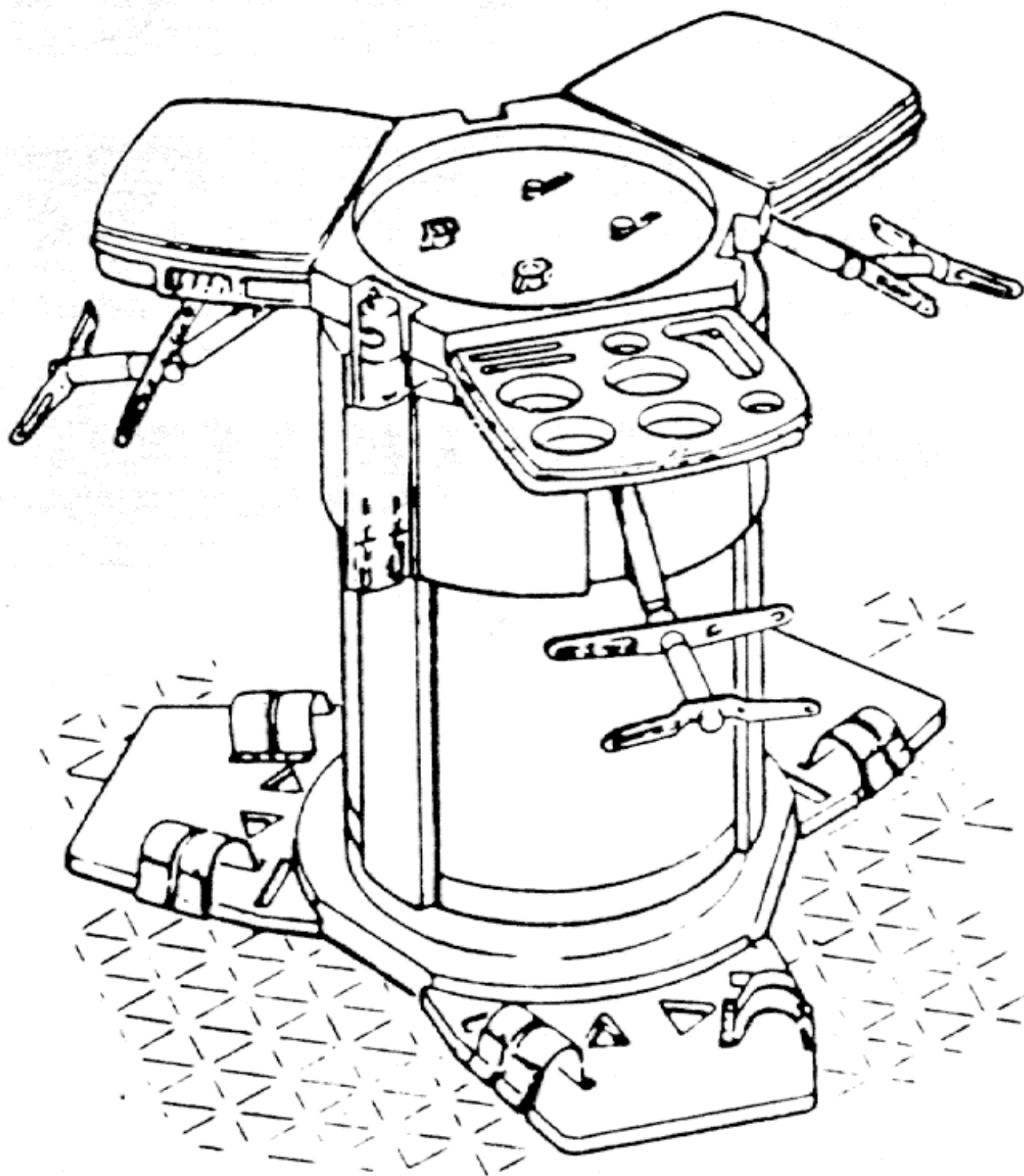
WASTE TANK

MICROMETEROID
SHIELD

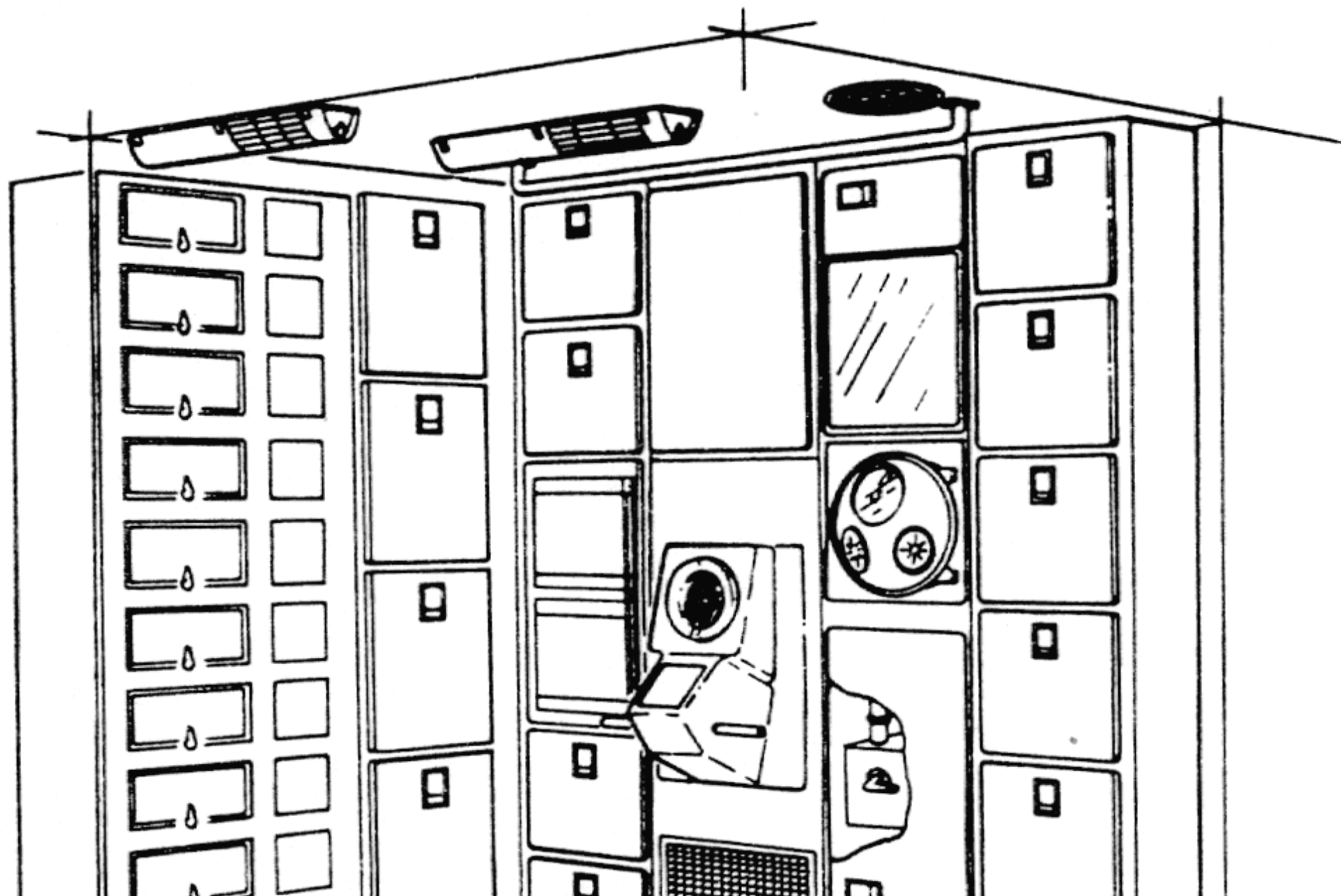
ORBITAL WORKSHOP CREW QUARTERS INSTALLATIONS

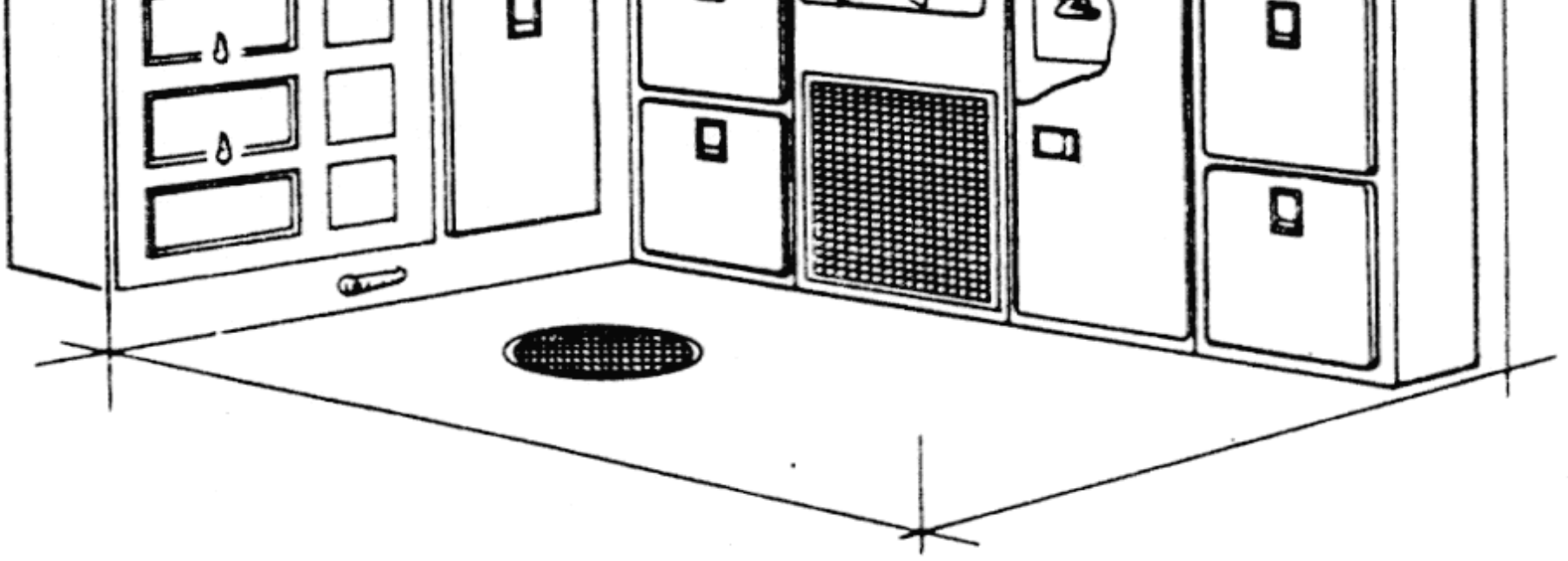


ORBITAL WORKSHOP WARDROOM TABLE

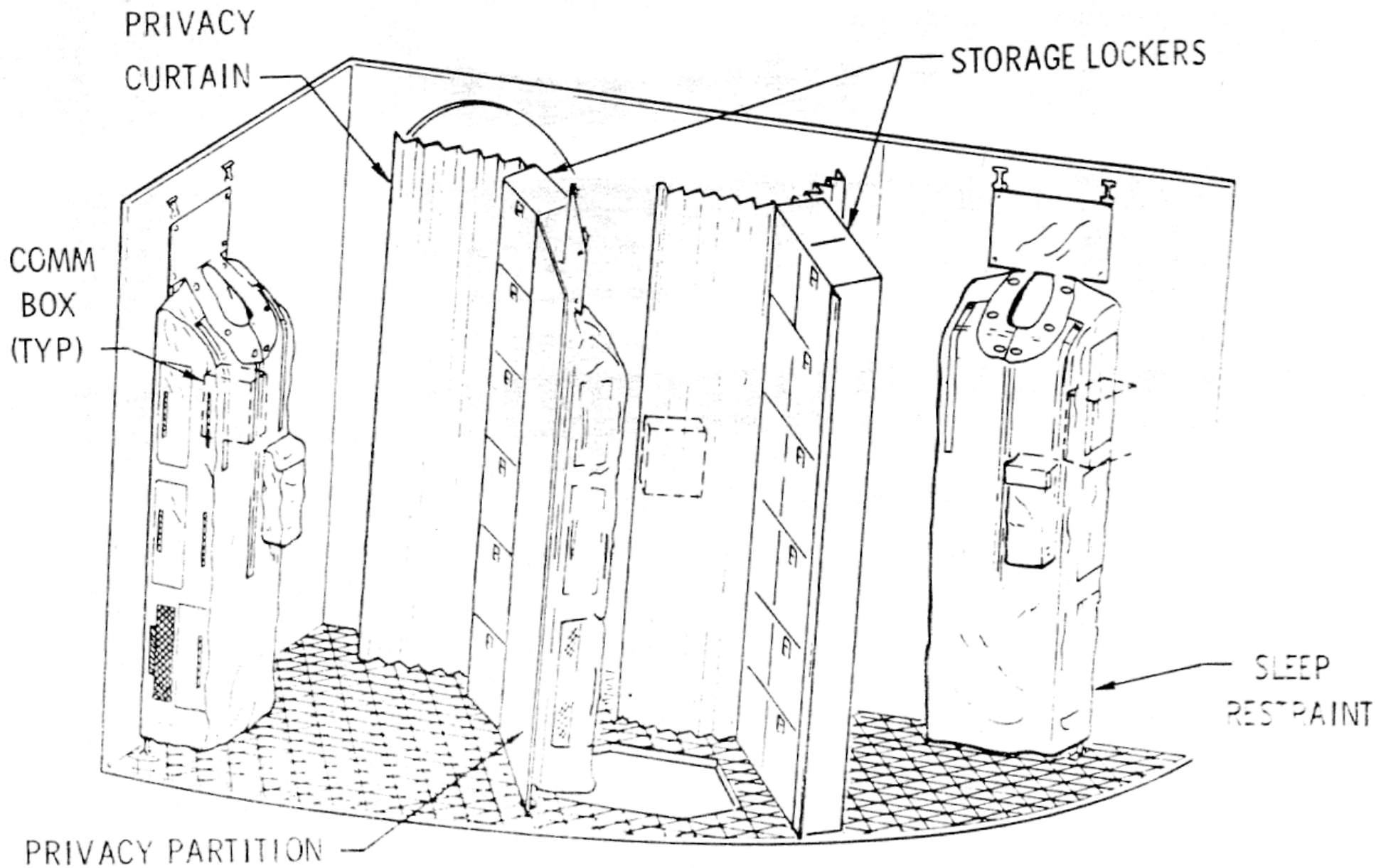


ORBITAL WORKSHOP WASTE MANAGEMENT COMPARTMENT





ORBITAL WORKSHOP SLEEP COMPARTMENT



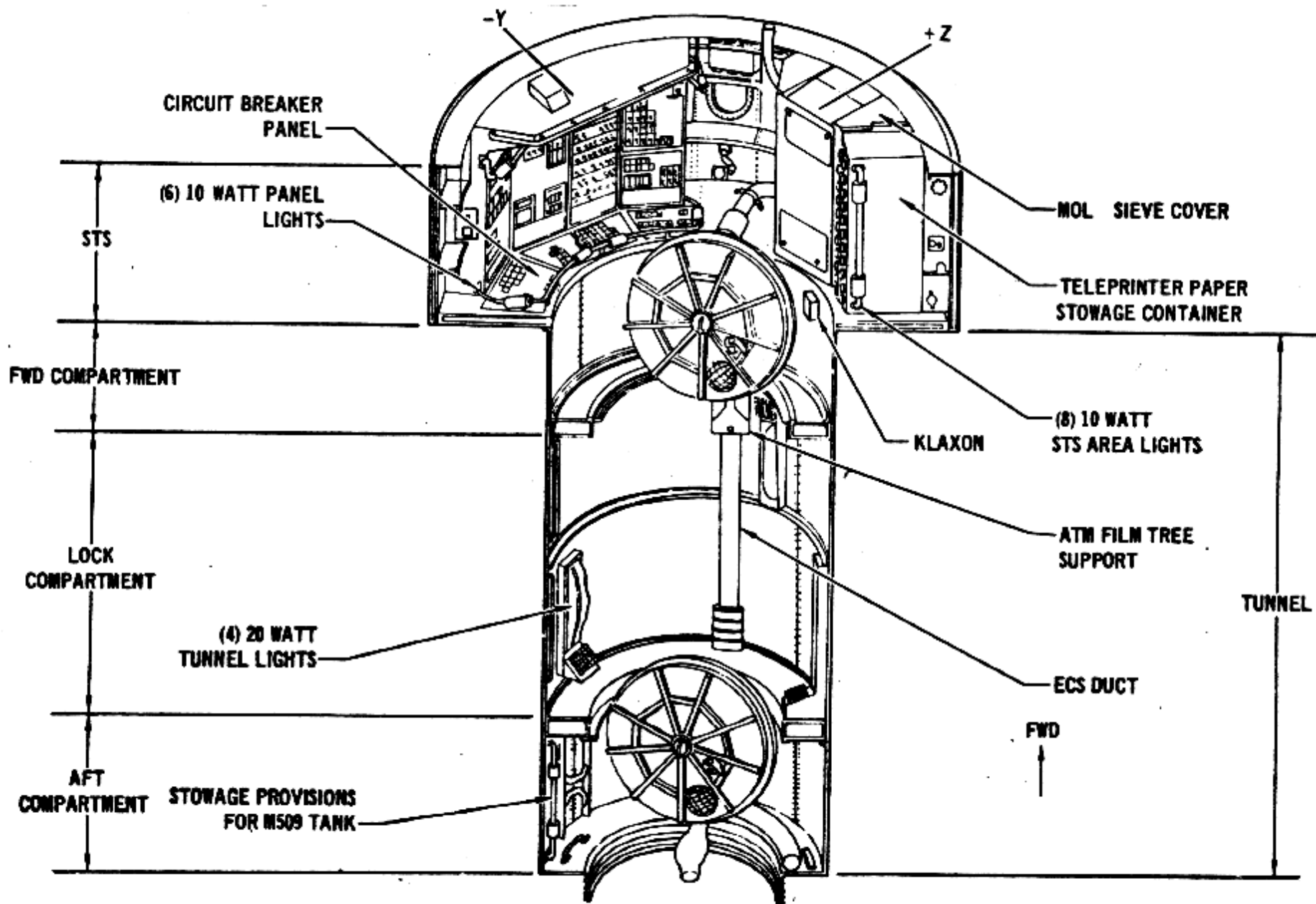


Figure I-27 - AM Interior, -Y+Z

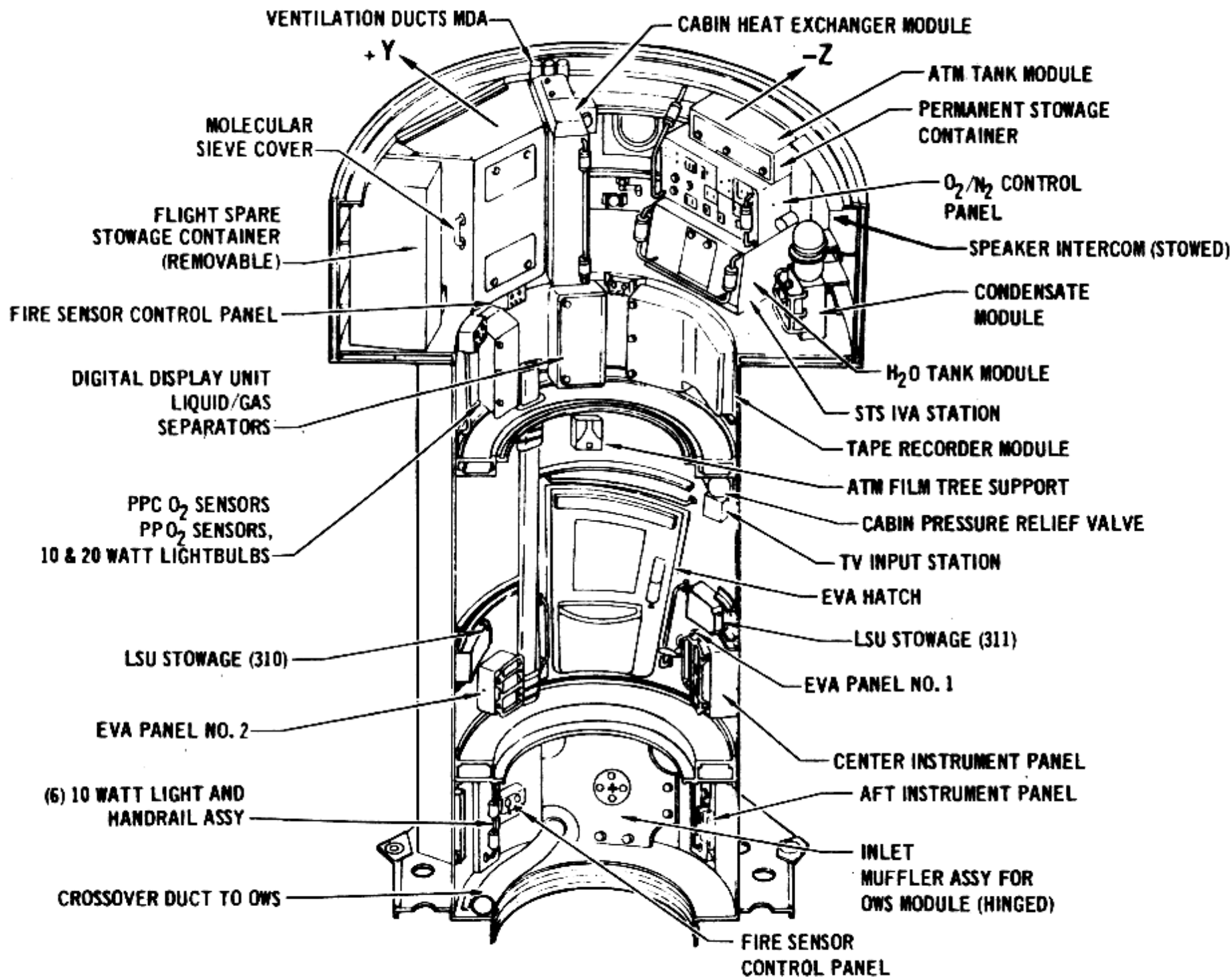




Figure I-28 – AM Interior, +Y-Z

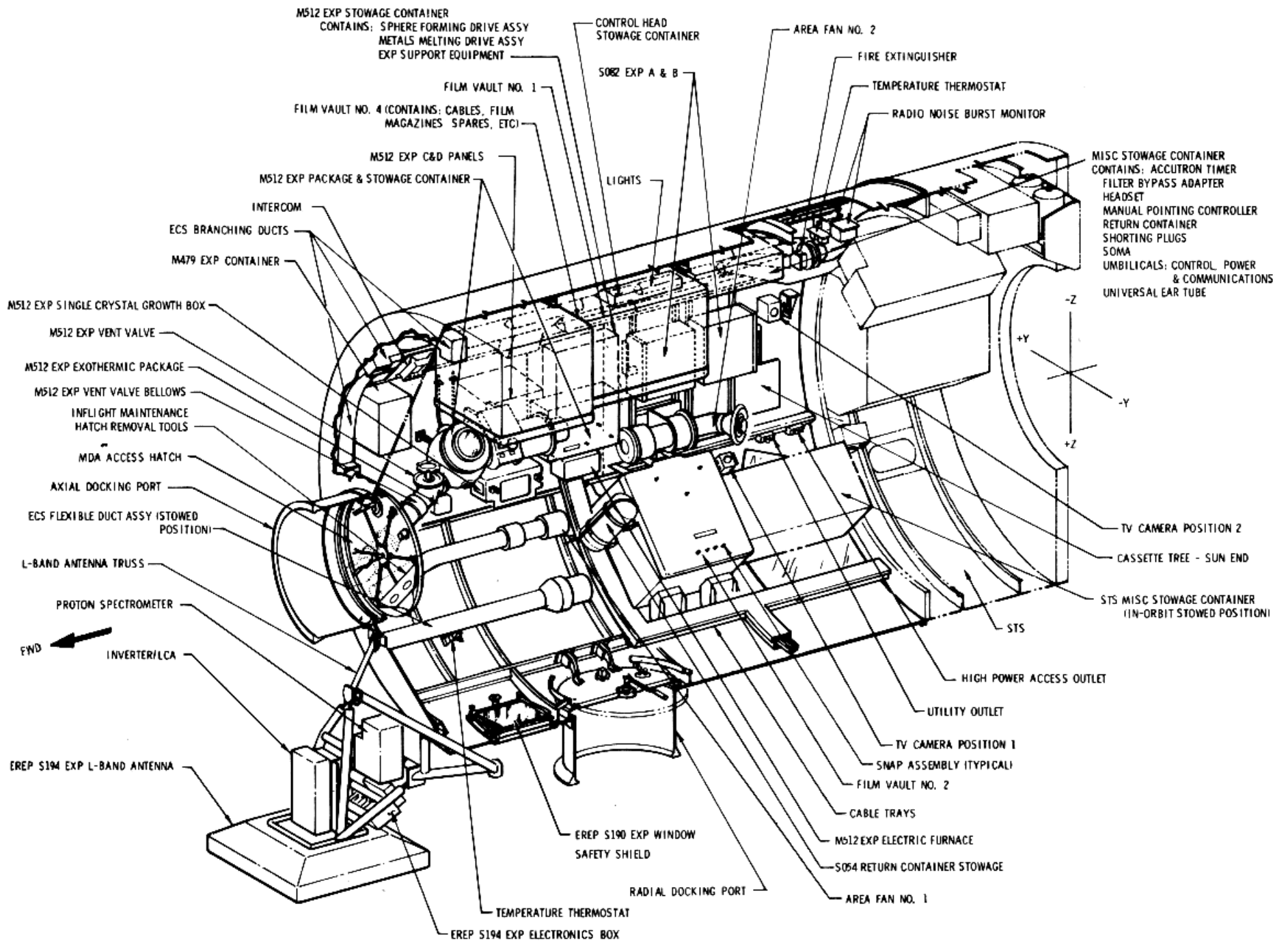


Figure I-21 - MDA Internal View, +Y

Figure I-21 – MDA Internal View, +Y

1

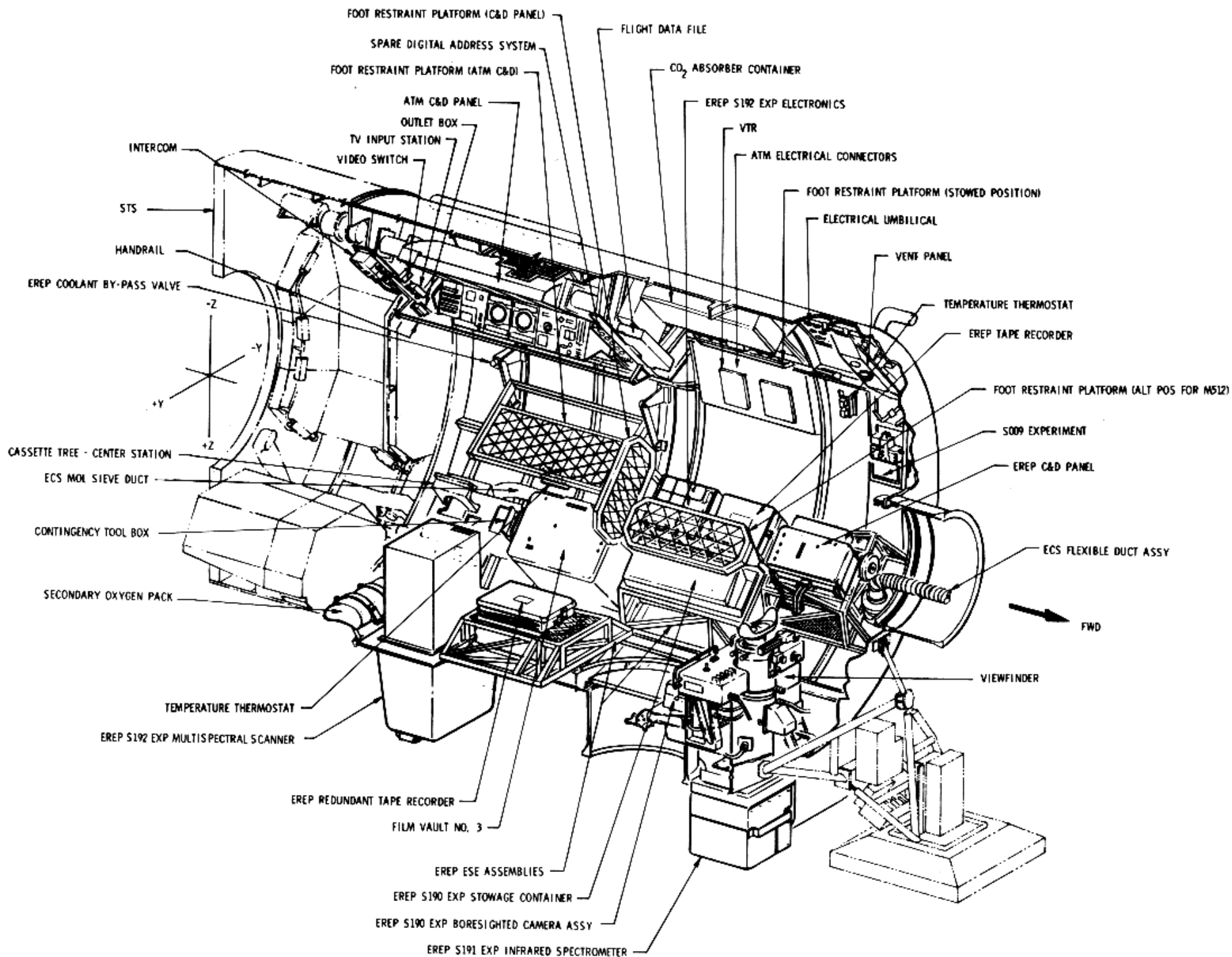




Figure I-22 – MDA Internal View, -Y