



Folded crew quarter



BUSINESS
INCUBATION
CENTRE

Northern
Germany



LIQUIFER
SPACE
SYSTEMS

FLECS Foldable Living Environment
for Crew Support

Foldable crew cabin for microgravity, unfolds at
night, stows by day.

LIQUIFER
SPACE
SYSTEMS

BAB
Die Förderbank

Ein Segment der BAB:
STARTHAUS
Bremen & Bremerhaven

Sabelt



www.liquiferspacesystems.com

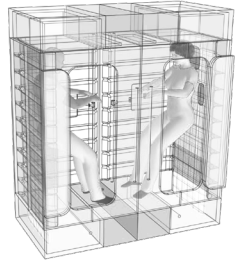
A transdisciplinary platform engaged in
designing our future on earth and in space

FLECS Foldable Living Environment for Crew Support

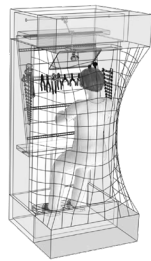
FLECS is a foldable private cabin for astronauts. It requires no permanent infrastructure, can be quickly unfolded, and easily stowed away when not in use. Equipped with special quick-release mechanisms, it allows for effortless installation and redeployment in microgravity. Inside, FLECS provides everything for privacy and comfort: ventilation, lighting, storage, work desk, and sleeping space. Its mass- and volume-optimized design ensures structural strength, sound insulation, and adaptability for short and long-duration missions. Scalable and modular, FLECS can be reconfigured for multiple purposes – whether as a crew cabin, galley, or hygiene module – offering a versatile solution for the future of human spaceflight.



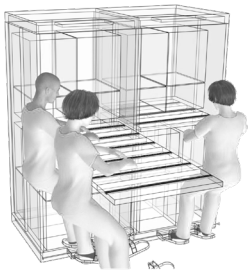
SINGLE CABIN



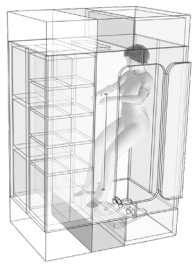
DOUBLE CABIN



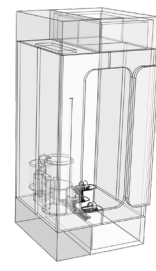
WORK STATION



GALLEY



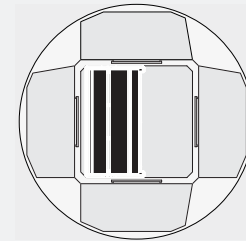
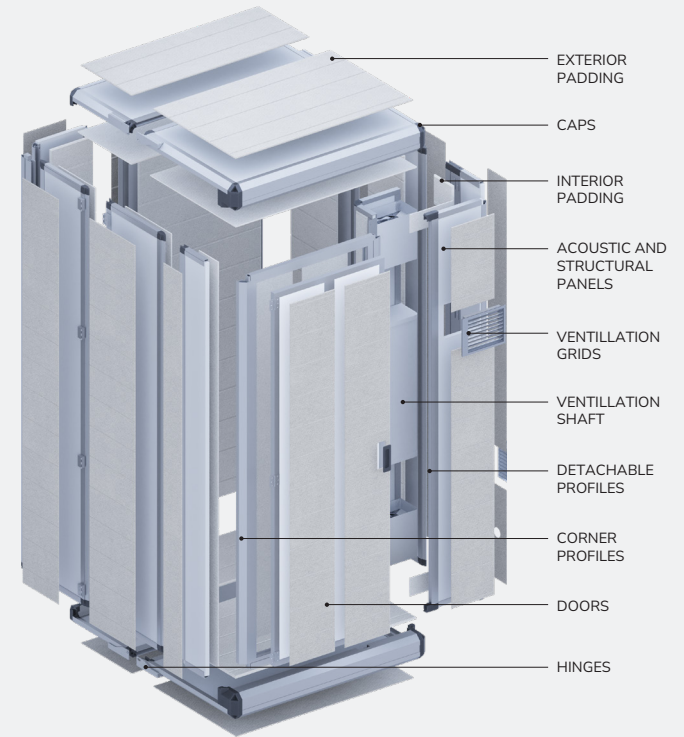
HYGIENE



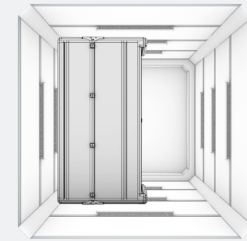
TOILET



Deployed crew quarter



ISS COLUMBUS MODULE



DEPLOYED WIDTH: 1071mm



FOLDED WIDTH: 463mm (43%)