



BIGELOWSM
AEROSPACE

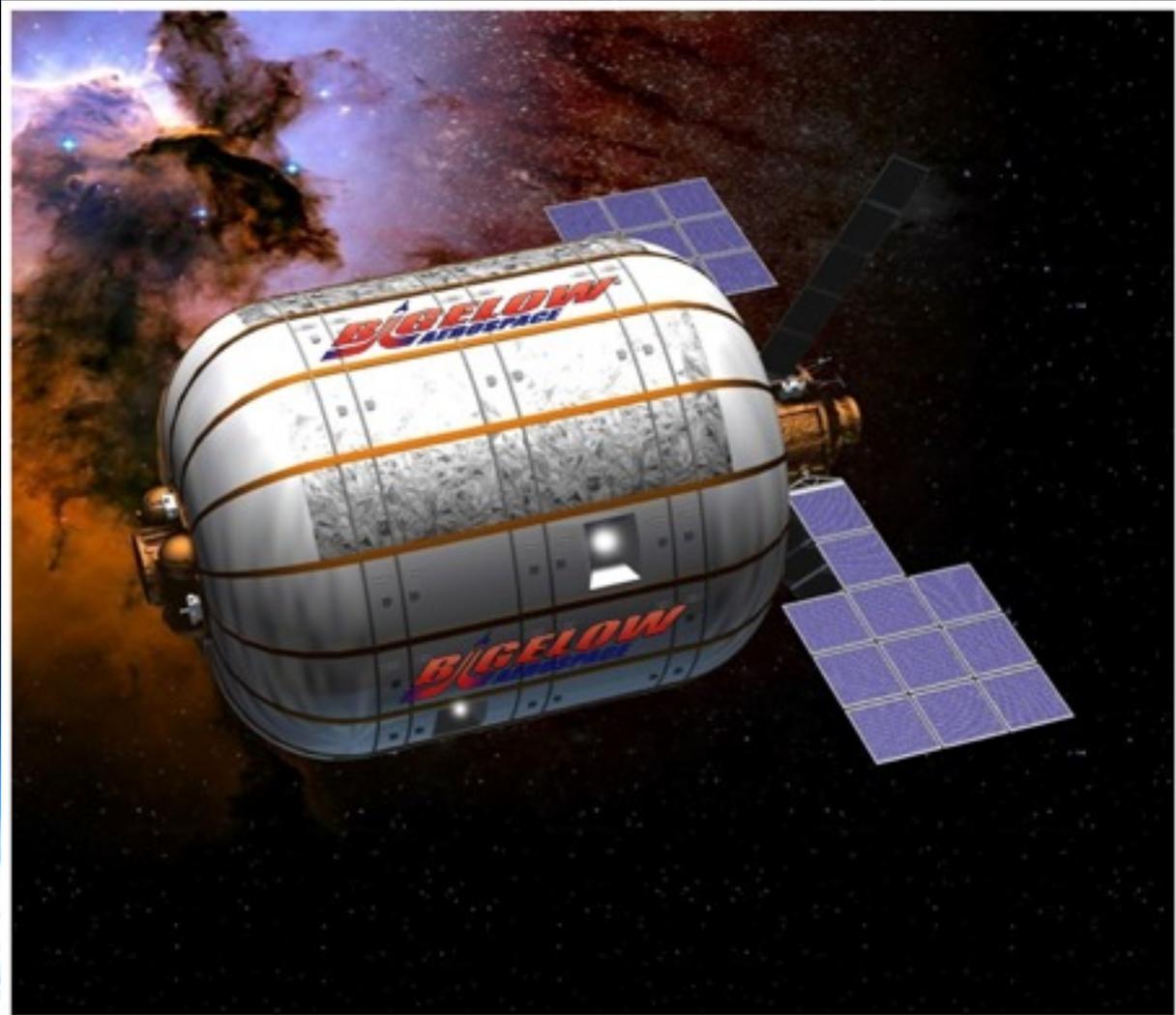
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Wednesday, May 25, 2011

BA 330

SPECIFICATIONS

- 330 CUBIC METERS OF PRESSURIZED VOLUME
- SELF CONTAINED DESTINATION
- CREW SIZE OF 6
- EXPANDABLE SHELL PROVIDES EXCELLENT ORBITAL DEBRIS AND RADIATION PROTECTION



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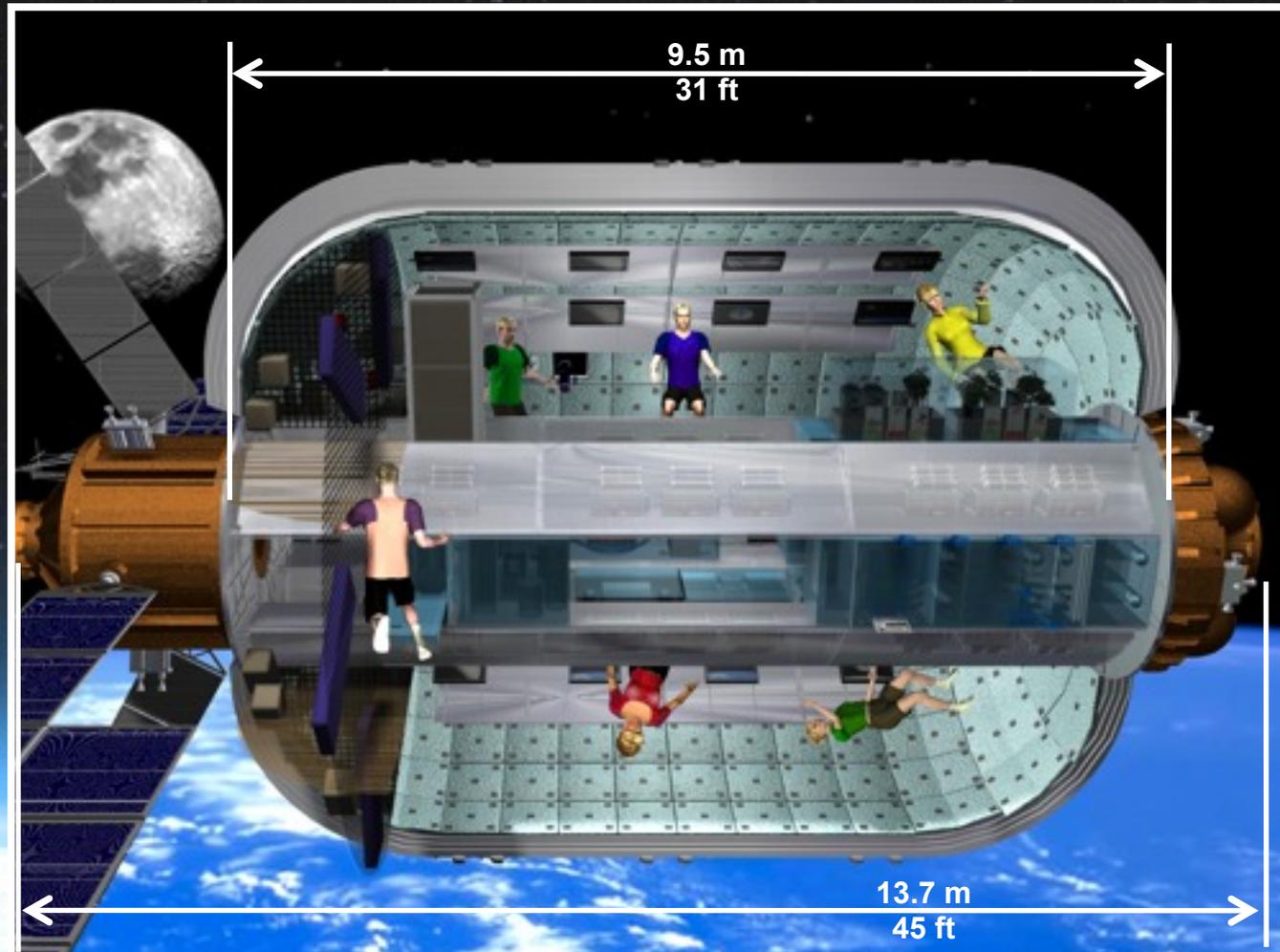
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BA 330

SELF CONTAINED

- POWER GENERATION
- LIFE SUPPORT EQUIPMENT
- HYGIENE FACILITIES
- ATTITUDE CONTROL
- LABORATORY SPACE



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VERSATILITY

- LIVING / WORKING AREA SURROUNDS CENTRAL TRUSS
- 3X VOLUME PER MODULE IN COMPARISON TO LARGE ISS MODULES
- RECONFIGURABLE TO CLIENTS' NEEDS



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ECLSS

- SIZED FOR 6 CREW MEMBERS
- MULTIPLE DISSIMILARLY REDUNDANT SYSTEMS
- INITIAL ECLSS SYSTEMS ARE CURRENTLY IN HUMAN TRIALS



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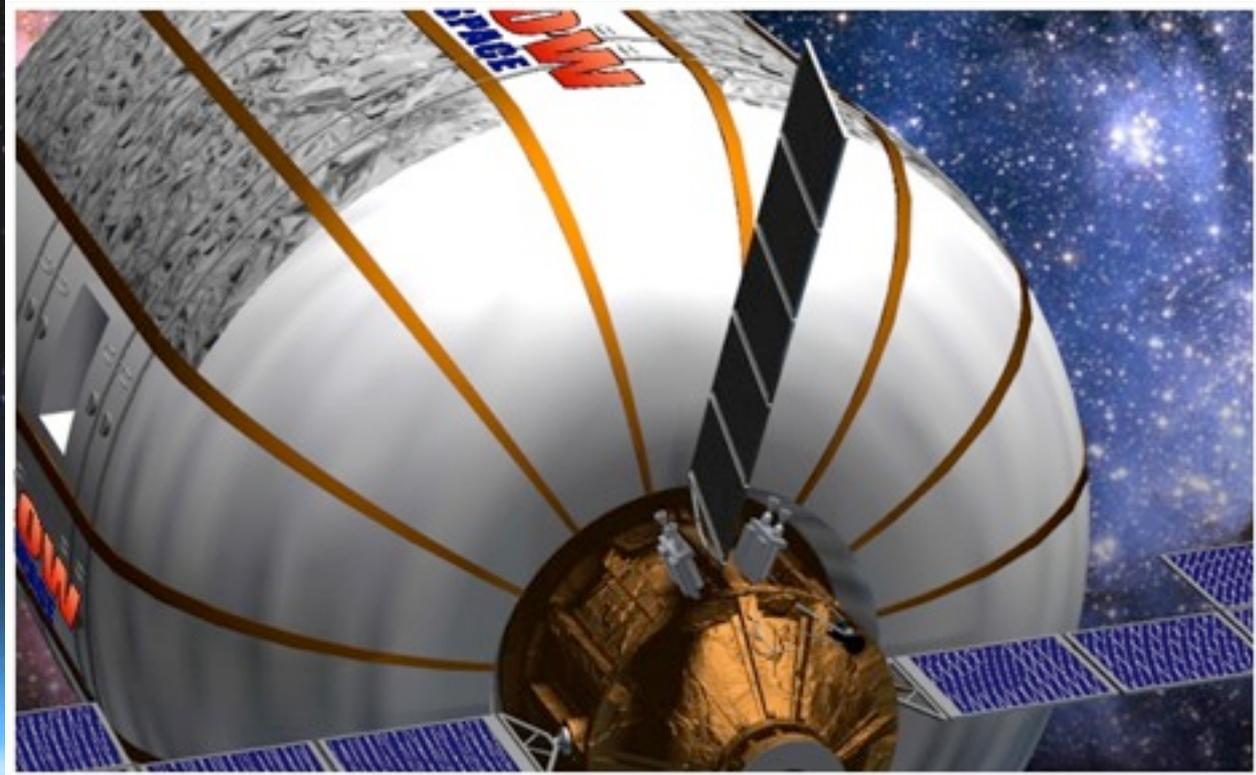
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PROPULSION

- **TRADITIONAL RELIABLE HYDRAZINE PROPULSION SYSTEM FOR AFT END**
- **INNOVATIVE GASEOUS HYDROGEN AND GASEOUS OXYGEN SYSTEM USED FOR FORWARD PROPULSION SYSTEM**
 - **USES WASTE H₂ AND SMALL AMOUNT OF O₂ FROM ECLSS ELECTROLYSIS**
 - **REFILLABLE WITH WATER**



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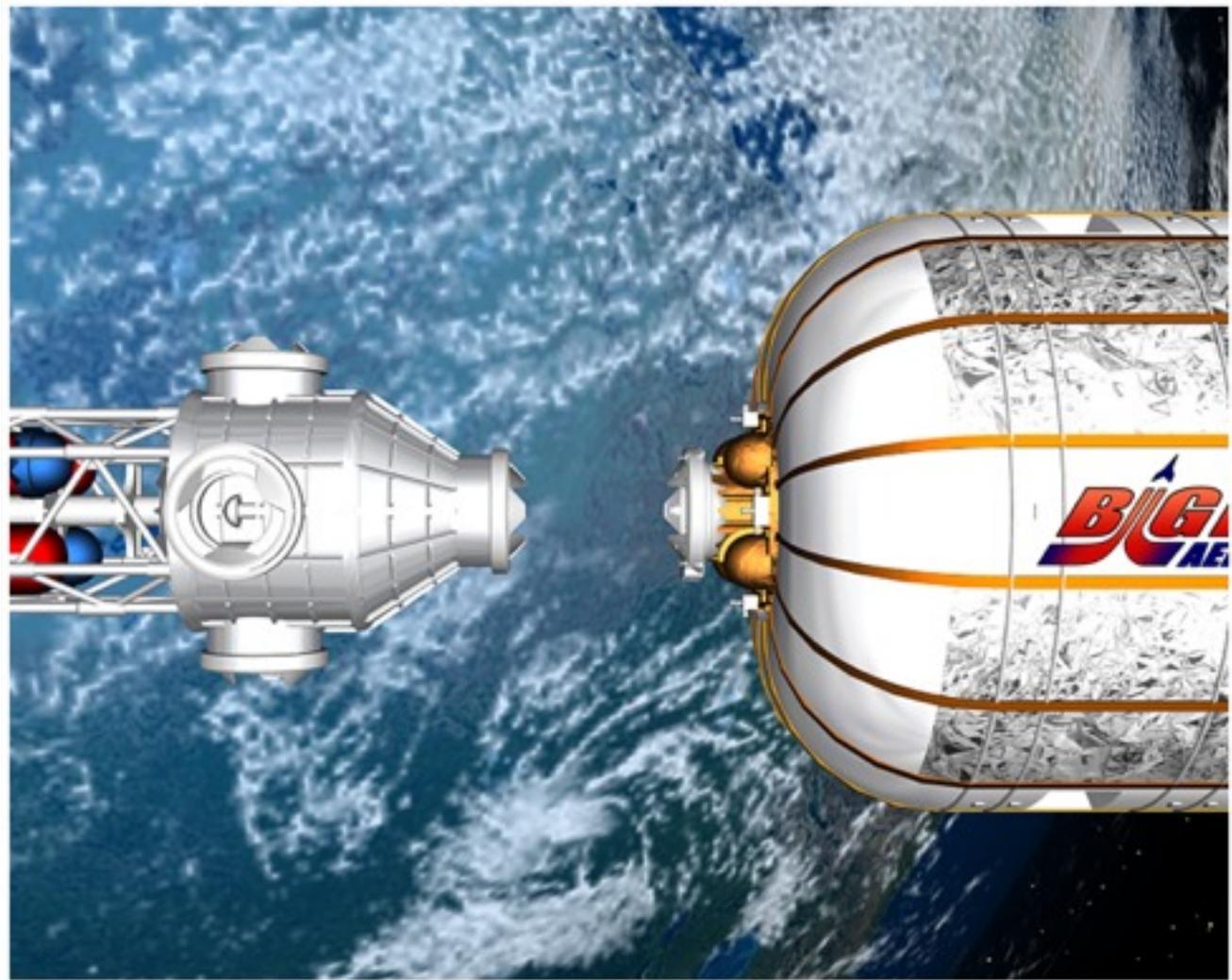
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DOCKING

- BA 330 MODULES HAVE PROPULSIVE CAPABILITY TO ACT AS CHASING VEHICLE IN DOCKING SCENARIOS



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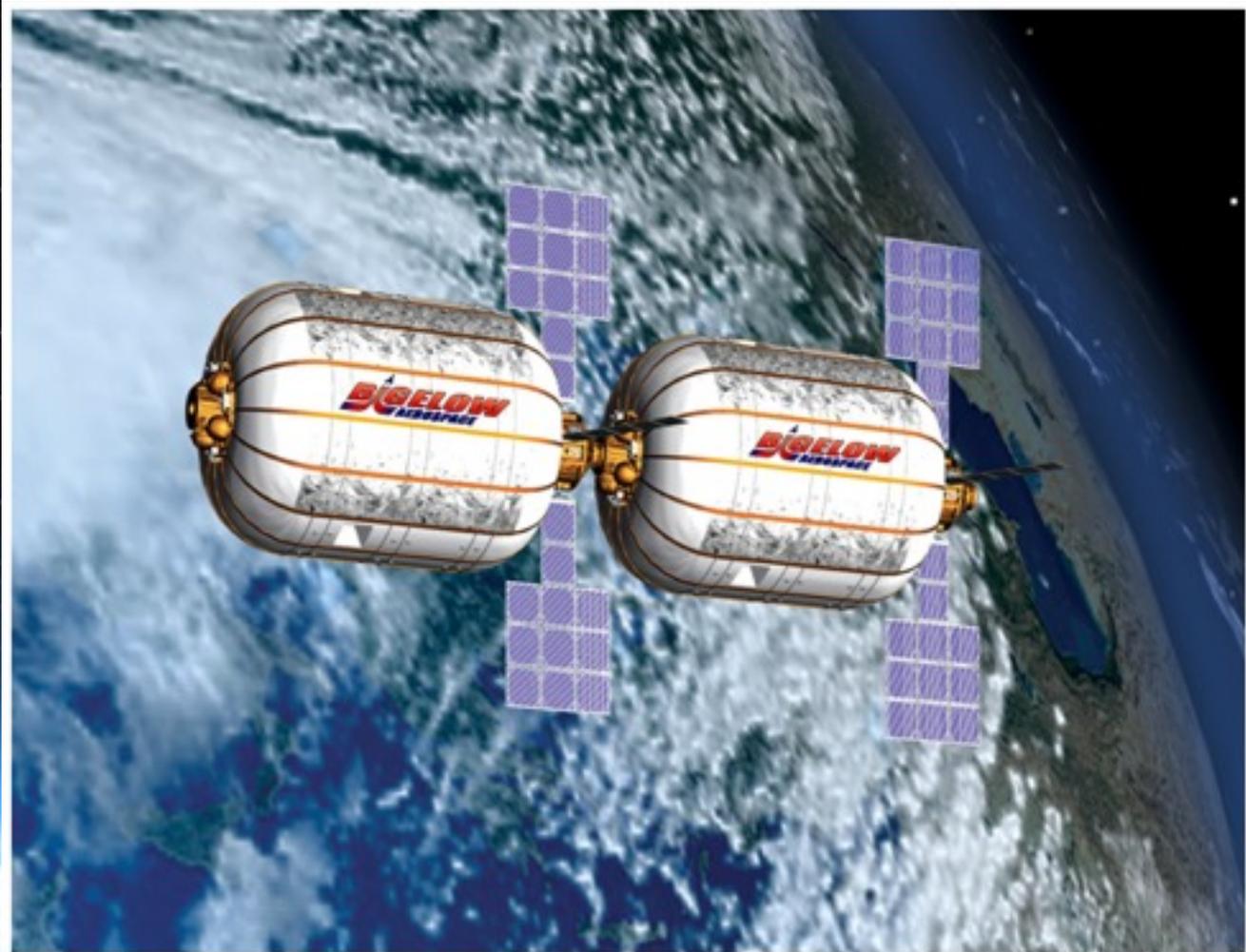
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STATION CONFIGURATIONS

- BA STATIONS CAN BE INDIVIDUAL MODULES OR MULTIPLE MODULES DOCKED TOGETHER



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MODULARITY

- THE ADDITION OF A PROPULSION BUS / DOCKING NODE ADDS ABILITY TO CONFIGURE STATION COMPLEX IN DIFFERENT WAYS AS WELL AS SUPPLEMENTS POWER GENERATION AND PROPULSIVE CAPABILITIES



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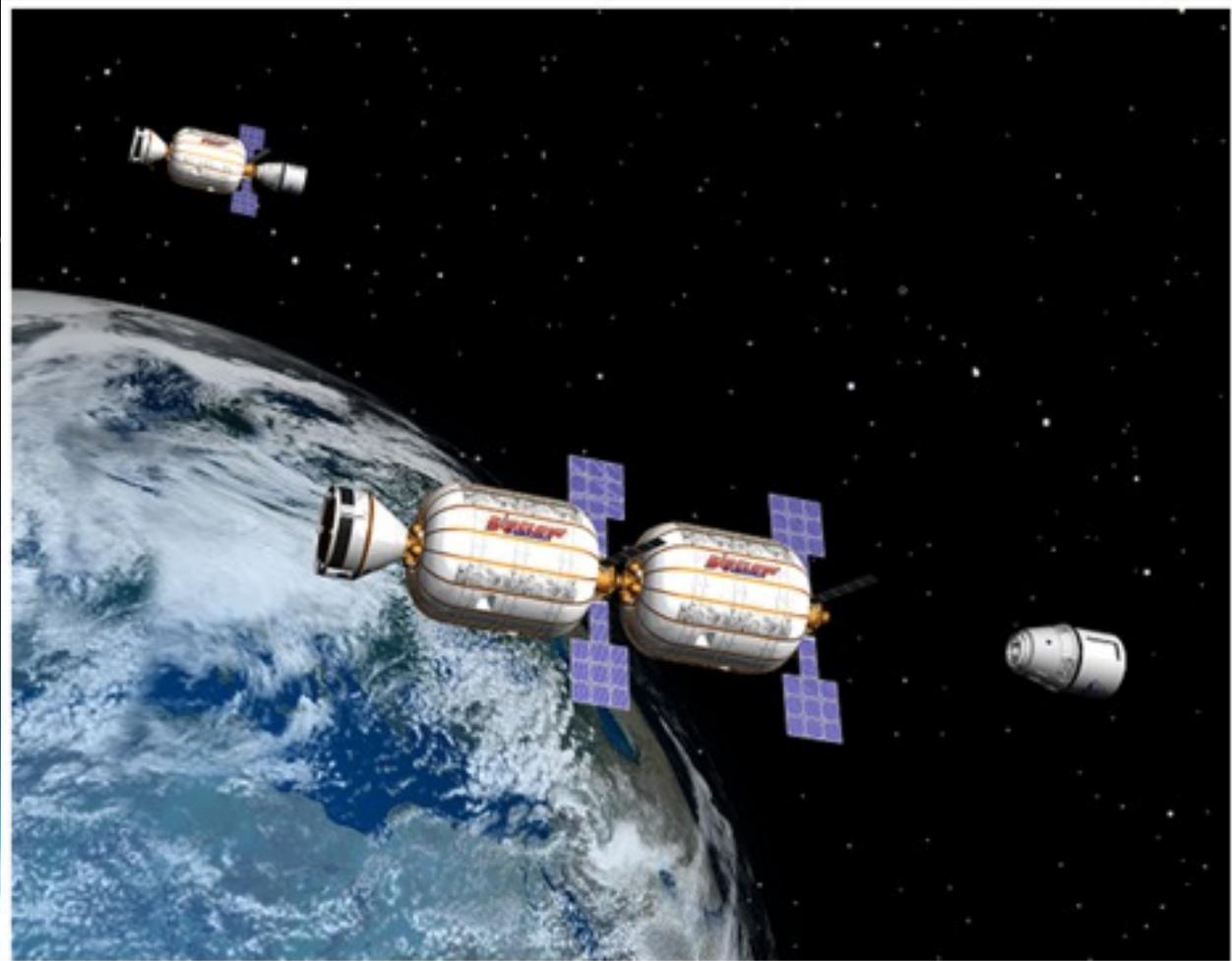
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HUMAN TRANSIT RATE

- EACH BA 330 REQUIRES MINIMUM OF 4 FLIGHTS PER YEAR FOR CREW ROTATION
- SPACE STATION COMPLEXES WITH MULTIPLE BA 330s WOULD REQUIRE 4 CREW FLIGHTS PER YEAR PER MODULE



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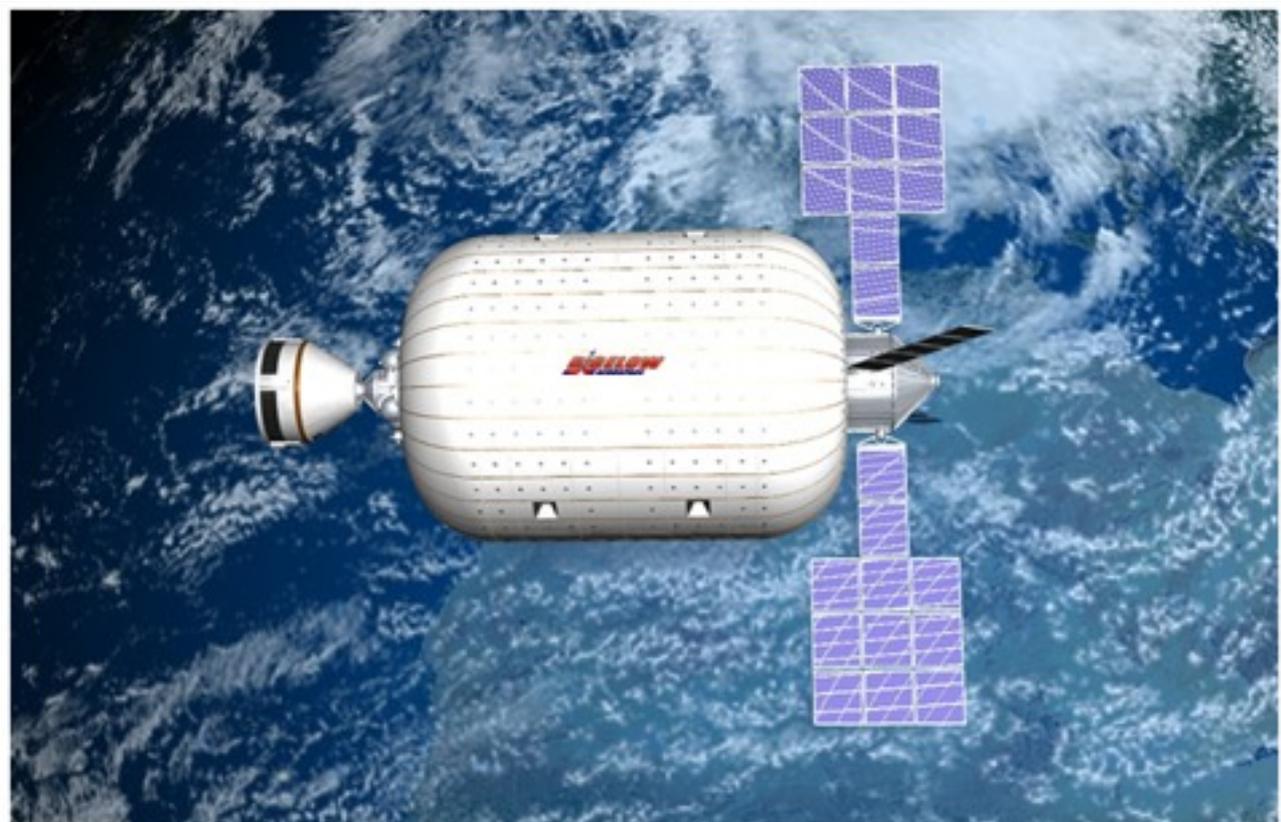
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BA 2100

- 2100 CUBIC METERS OF PRESSURIZED VOLUME
- EACH BA 2100 CONSTITUTES A STATION BY ITSELF
- CREW SIZE OF 16

OLYMPUS



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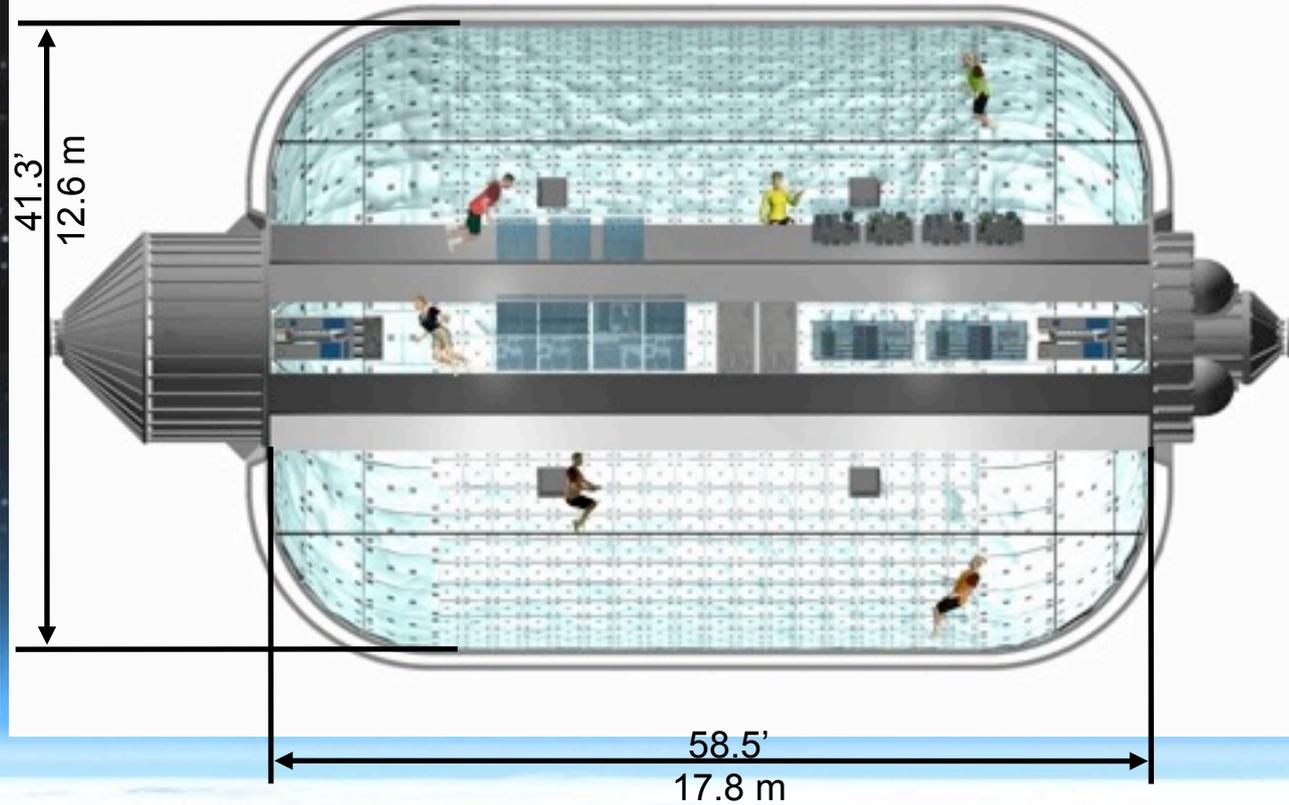
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OLYMPUS

BA 2100

- ALMOST TWICE THE VOLUME OF THE ENTIRE ISS
- ALMOST 7 TIMES THE INTERIOR VOLUME OF BA 330
- ALMOST 20 TIMES THE VOLUME OF THE DESTINY MODULE



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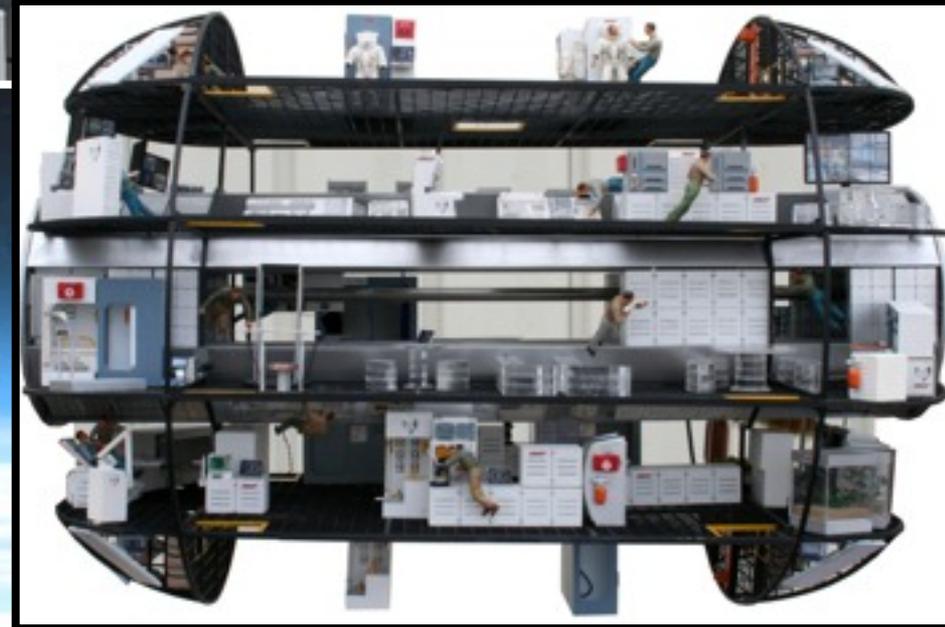
- LARGE INTERIOR VOLUME ALLOWS FOR VARIOUS SEGREGATED ACTIVITIES

- LABORATORY SPACE

- COMMAND AND CONTROL STATION

- HOSPITAL / SICK BAY

- RECREATIONAL AREA



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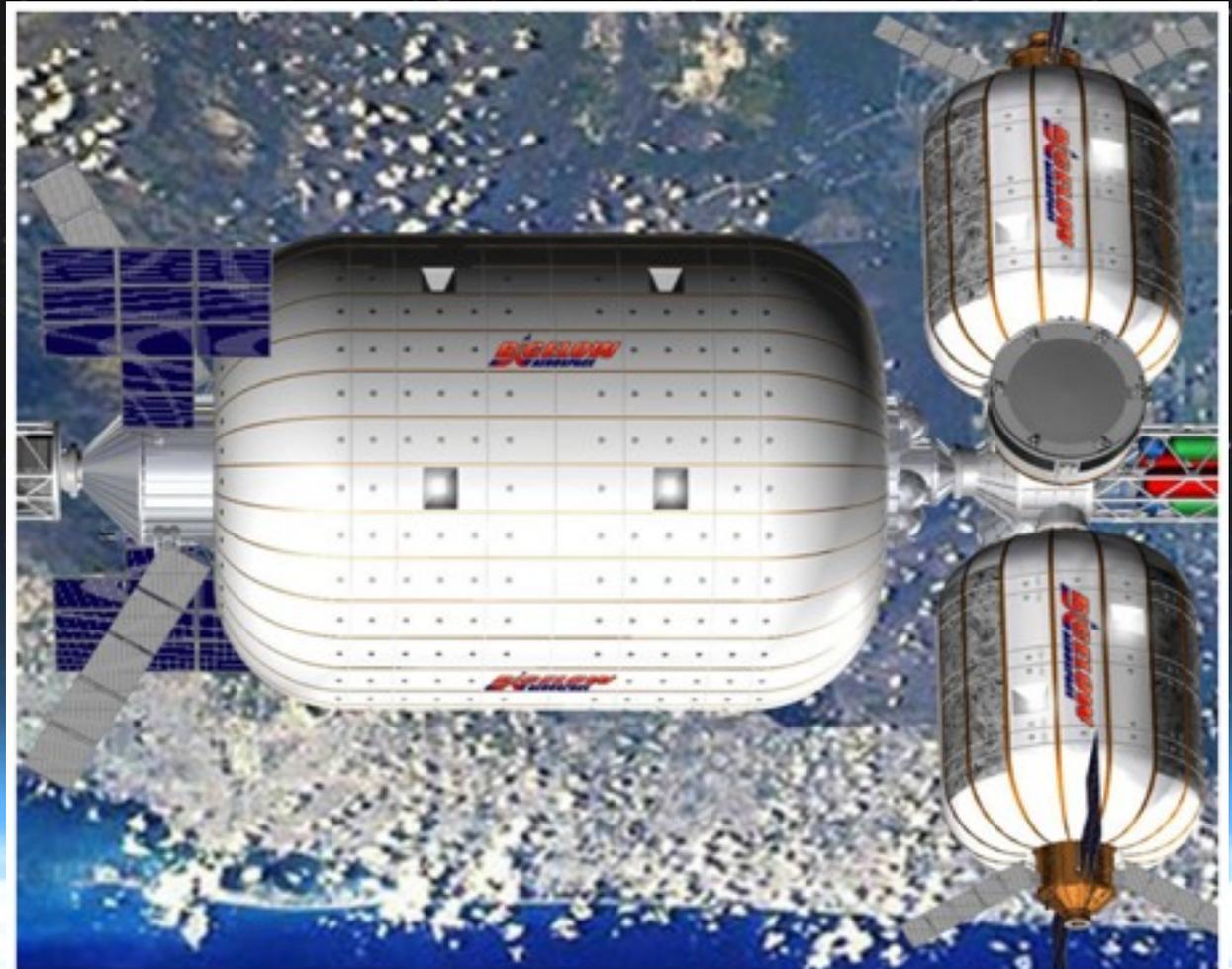
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BA 2100

- REQUIRES HEAVY LIFT LAUNCH VEHICLE WITH 8 METER FAIRING
- DRY MASS IS APPROXIMATELY 65 METRIC TONS
- 70 METRIC TON CAPABLE LAUNCH VEHICLE WILL ALLOW INITIAL LAUNCH OF THE VEHICLE AND 10% OF WATER REQUIRED FOR SUPPLEMENTAL RADIATION SHIELD



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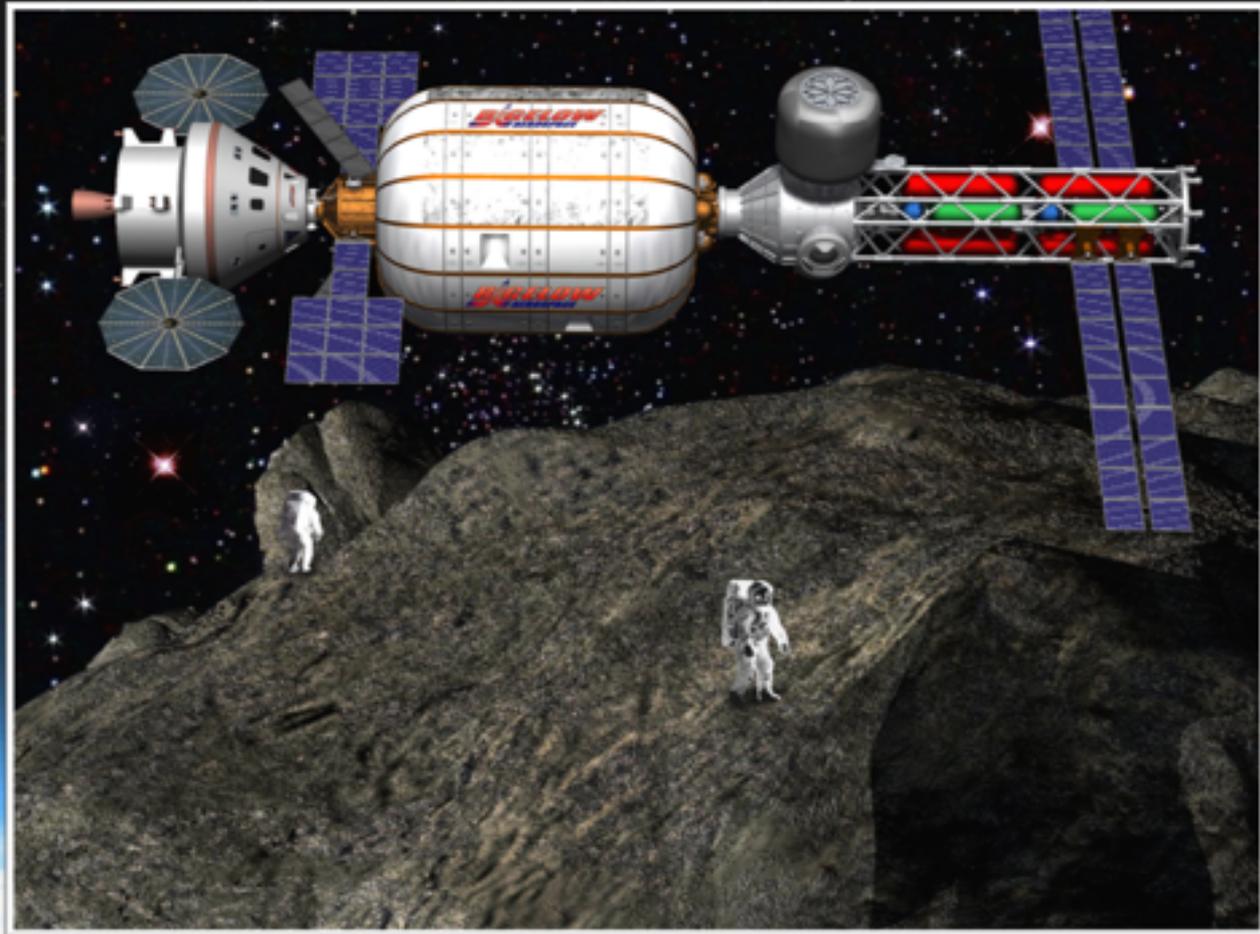
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ASTEROID MISSION

- 4 ASTRONAUTS ON 5 TO 6 MONTHS (AND LONGER) ASTEROID MISSION
- 2 ASTRONAUTS LAND ON AN ASTEROID, 2 REMAIN ON-BOARD
- FOOD, WATER, HYGIENE AND ETC. SUPPLIES FOR THE ENTIRE DURATION OF THE MISSION



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