

Press Release

Oct. 27, 2025

**ASPINA Space Blower Launched to the International
Space Station!**

**Contributing to Space Exploration with Compact, Lightweight,
and Quiet Technology**

ASPINA (Shinano Kenshi Co., Ltd., President & CEO: Yukihiro Kaneko) is proud to announce that its space-grade blower has been launched to the International Space Station (ISS) aboard the H3 Launch Vehicle No. 7 and the new HTV-X1 cargo spacecraft on October 26, 2025, from the Tanegashima Space Center in Japan.

This blower is integrated into the Demonstration of Removing Carbon-dioxide System (DRCS), a CO₂ removal apparatus developed by Chiyoda Corporation (President & CEO: Koji Ota) under contract from the Japan Aerospace Exploration Agency (JAXA, President: Hiroshi Yamakawa). The DRCS is part of JAXA's technology demonstration mission aboard the ISS, aimed at validating CO₂ removal technologies for future crewed lunar and Martian exploration.

In space habitats, maintaining a safe and healthy environment is critical due to unique constraints such as microgravity, enclosed spaces, and limited resources. CO₂ accumulation from human respiration poses serious health risks, making efficient and sustainable removal essential.

ASPINA's blower plays a key role in the DRCS by enabling stable air circulation within the system.

Key Features of ASPINA's Space Blower:

- **Compact and Lightweight:** Ideal for installation in limited space environments.
- **High Output and Pressure:** Ensures reliable and consistent air circulation.
- **Quiet Operation:** Enhances comfort within crewed living spaces.

These features make ASPINA's blower a vital component supporting the DRCS's CO₂ removal capabilities.

ASPINA remains committed to developing innovative solutions for the challenges of space environments and contributing to the advancement of the space industry.

About DRCS (Demonstration of Removing Carbon-dioxide System):

DRCS is a technology demonstration unit designed to validate CO₂ removal systems for crewed space missions. It draws cabin air, removes CO₂ within the device, returns purified air to the cabin, and exhausts the removed CO₂ into the vacuum of space.

[About ASPINA]

<https://aspina-group.com/>

ASPINA endeavors to enhance its visibility within related industries and among potential customers worldwide as part of its long-term growth strategy for global expansion. Driven by the mission of "giving shape to the concepts of hope and comfort of people around the world," ASPINA aims to realize new products and businesses through innovative ideas and solutions by collaborating with customers and leveraging our technologies.

[Related Information]

(On our company's corporate website)

[Environmental control and life support system in Space \(ECLSS\) | ASPINA](#)

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