

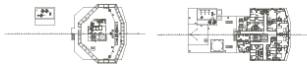
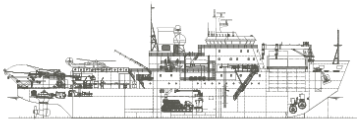
GENERAL DESCRIPTION



ARAON

KOREAN RESEARCH ICEBREAKER

- Ship Type** : KRS1-Special purpose ship (Research),
PL10, DAT (-30°C), HMS1
: KRM1-UMA3, DPS2, NBS2
- Dimension** : L (109.5m)×B (19.0m)×H (9.9m)
- Gross Tonnage** : 6,950 tonnes
- Accommodation** : 85persons (25 crews + 60 researchers)
- Speed** : 12 knots (Max 16knots)
- Endurance** : 70 day (20,000 nautical miles)
- Cargo** : 31TEU of 20ft container capacity
- Propulsion** : 2 Azimuth thruster (Main), 2 tunnel thruster



'Araon' is a compound word which combines 'Ara' (old Korean word which means 'sea') and 'On' (Korean word which means 'all') and is named for a wish to cruise all the sea in the world.



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ARAON

KOREAN RESEARCH ICEBREAKER

THE PROJECT



Well equipped laboratories, computer suites, and research support equipments will help researchers conduct worldclass scientific research, surveys and long-term observations in the Arctic and Antarctic regions, and supply logistics to the polar stations.

Araon - one of the most sophisticated polar research vessels can advance Korea's polar research activities in several ways.

Three major research areas to be conducted with 'Araon' are being identified, and in each area international cooperation is actively sought:

- How the polar ocean, atmosphere and geosphere have interacted with the rest of the earth to influence its development during its history.
- How the polar ocean affects biological production, and bio-geochemical cycles warrant focused research in sea-ice influenced areas.
- How under-exploited resources, in an environmentally safe manner, can be effectively explored and managed as an important aspect of research.



RESEARCH EQUIPMENT



- **Oceanographic Research**
CTD w/Water Sampler, X-BT, Thermo-Salinograph, etc.
- **Acoustic Research**
Multi-Beam Echo Sounder, ADCP, Acoustic Synchronizer, etc.
- **Geophysical Research**
Multichannel Seismic System, SBP, PDR, Marine Gravity Meter, etc.
- **Biological Research**
MOCKNESS, FMT, Bongo Net, etc.
- **Observation & Monitoring**
Weather Station, Satellite Receiver, Underway Measurement System, Seawater Analyzer, etc.

TIME PLAN

- 2003 : Feasibility study
- 2004 : Design development
- 2005 : Construction documents
- 2006 : Construction start
- 2009. 09 : Delivery
- 2009. 10 : Open sea & Ice trial