



## Arctic Offshore Patrol Ship (AOPS)

<b>General:</b>	The Arctic Offshore Patrol Ship (AOPS) is a six-ship class being built for the Royal Canadian Navy. The first ship is expected to enter service in 2018.	
<b>Main Particulars:</b>	Displacement	6,478 t
	Length	103.60 m
	Beam	19.00 m
<b>Capacity:</b>	Crew	67 pers
	Embarked forces	20 pers
	Helicopter CH-148	
	Carry	landing craft, 2 x RHB & vehicles, pick-up, ATV's, snowmobile
<b>Speed:</b>	Open water	17.00 knots
	Icebreaking	3.00 knots
<b>Machinery and Equipment:</b>	Diesel Electric	4 x 3,6 MW MAN
<b>Miscellaneous:</b>	Range	6,800 nautical mile (12,600 km)
<b>Scope of Work:</b>	<p>KNUD E. HANSEN HVAC was in charge of the full HVAC design, conjointly with the client's team incl.:</p> <ul style="list-style-type: none"> <li>Design with Thermal load calculations, Air flow calculations, Heating calculations, One line diagrams, P&amp;ID's for accommodation, engine rooms, hangar, vehicle deck &amp; technical spaces.</li> <li>Control philosophy and coordination with el dept for control and P&amp;ID's.</li> <li>HVAC equipment specifications. HVAC data for el load analysis. Evaluation of HVAC supplier documentation. HVAC part of Winterization.</li> <li>Smoke clearance concept.</li> <li>Fire damper push button arrangement.</li> <li>Simultaneous factor report.</li> <li>Update and maintenance of documentation through ship design and 3D modelling phase.</li> <li>Support to client for discussions with owner, classification, yard and suppliers through the design phase.</li> <li>Participation in integration of HVAC in 3D model.</li> <li>Pressure drop calculations.</li> </ul>	
<b>Ref. No.:</b>	KEH 13046	

