



Arctic Offshore Patrol Ship (AOPS)

General:	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.	
Main Particulars:	Displacement	6478 t
	Length	103.60 m
	Beam	19.00 m
Capacity:	Crew	67 pers
	Embarked forces	20 pers
	Helicopter CH-148	
	Carry	landing craft, 2 x RHB & vehicles, pick-up, ATV's, snowmobile
Speed:	Open water	17.00 knots
	Icebreaking	3.00 knots
Machinery and Equipment:	Diesel Electric	4 x 3,6 MW MAN
Miscellaneous:	Range	6,800 nautical mile (12,600 km)
Scope of Work:	<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"> Design with Thermal load calculations, Air flow calculations, Heating calculations, One line diagrams, P&ID's for accommodation, engine rooms, hangar, vehicle deck & technical spaces. Control philosophy and coordination with el dept for control and P&ID's. HVAC equipment specifications. HVAC data for el load analysis. Evaluation of HVAC supplier documentation. HVAC part of Winterization. Smoke clearance concept. Fire damper push button arrangement. Simultaneous factor report. Update and maintenance of documentation through ship design and 3D modelling phase. Support to client for discussions with owner, classification, yard and suppliers through the design phase. Participation in integration of HVAC in 3D model. Pressure drop calculations. 	
Ref. No.:	KEH 13046	

