

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
CCG Des Groseilliers and Amundsen	2018	Canadian Coast Guard	Design, delivery and commissioning of nine (9) custom HVAC units for Accommodation.	Transport Canada
Solt Transmitter Building	2017	Nautel	Design, delivery, installation, startup and commissioning of Ventilation system for Transmitter Building	Antenna Hungary
CCG Sir Wilfred Grenfell	2016	Canadian Coast Guard	Design, Delivery and Commissioning of new refrigeration plant	Transport Canada
Wall Pack A/C unit	2016	Chevron Pipe Line Co.	Modification of a wall pack air conditioning unit to meet Class I, Division 2, Group C & D	US NEC
Water cooled heat pump conversion	2016	EHPRIE	Modification of a Bosch 30 TonR unit to meet Class II, Division 1, Group G for exposure to dust in food processing facility.	CSA Haz Loc
CCG Griffon	2016	Canadian Coast Guard	Supply of custom HVAC system for MCR	Transport Canada
Atlantica	2015	Cameron	Design and supply of custom Self-contained units for Driller's Cabin and LER Y-Purge, rated IECEx Zone 1, IIB.	IECEx, CSA
Offshore Patrol Boats - Turkey	2015	OMS	Engineering of HVAC systems	SOLAS
CCG SAMUEL RISLEY	2015	Canadian Coast Guard	Complete Design and supply of custom sea water cooled package units.	Transport Canada
HENRY GOODRICH	2014	Transocean	Complete Design and supply of custom air handlers for accommodations	DNV, PED
NWR Refinery Compressor Building Unit 30	2014	Fluor	Complete Design and supply of custom Class I Zone 2 +H2 rated HVAC system for compressor building.	Alberta Building Code CEC/CSA
NWR Refinery Unit 20 Buildings 1,2 3	2014	Fluor	Complete Design and supply of custom Class I Zone 2 +H2 rated HVAC systems for refinery Unit 20 buildings	Alberta Building Code CEC/CSA
Tundra Tug #2	2014	Group Ocean	Tug Winch Cooling and Heating equipment	Transport Canada
Huisman Drillship 1200	2014	EPHVAC BV/Huisman	HVAC Design and systems specification for the Huisman self-propelled deep water Mobile Offshore Drilling vessel.	DNV
EPR 0410 Olympia Accommodation Barge	2014	INTERSHIP PTE LTD	Provide HVAC Systems Design for Olympia accommodation Barge Upgrade	ABS/IMO/SOLAS
Tundra Tug	2013	Group Ocean	Tug Winch Cooling and Heating equipment	Transport Canada
Diamond Ocean Onyx	2013	Infinity / Keppel AmFELS	Complete installation, testing and commissioning of living quarters and engineering spaces HVAC systems for Diamond Onyx.	DNV
DOLWIN BETA	2012	KCI - Netherlands	HVAC Documents review – Offshore Wind farm Transformer Platform	DNV

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
NOBLE GT1 & GT2	2012	Huisman Equipment	Basic design for Chilled water units for DP compensation motors	DNV
DCV THIALF	2012	Heerema Marine Contractors	Design, Delivery and Installation new refrigeration system and cold stores for 750 POB Accommodation Crane Barge	Lloyds
Diamond Ocean Onyx	2012	Infinity / Keppel AmFELS	Complete design, supply, installation of living quarters and engineering spaces HVAC systems for Diamond Onyx.	DNV
Sedco 707	2012	Infinity / Transocean	Complete design, supply, installation, testing and commissioning of living quarters and engineering spaces HVAC systems for Sedco 707.	DNV
Vale Long Harbour Processing Plant - Labrador	2012	Dynamic Industries / Fluor	Complete supply, installation, testing and commissioning of Ducting for the Diesel pump house, Sulphuric pump house, Vacuum pump house and 3 super structure buildings.	SMACNA
Zimtex Drillers Cabin	2012	Zimtex Solutions	Complete design, supply, installation, testing and commissioning of one drillers cabin HVAC system for Zimtex MCC Building. Equipment to be constructed of 316L stainless steel and built to meet Class 1 Division 2 and z-purge.	ABS
Zimtex MCC Buildings	2012	Zimtex Solutions	Complete design, supply, installation, testing and commissioning of two HVAC systems for Zimtex MCC Building. Equipment to be constructed of 316L stainless steel and built to meet Class 1 Division 2 and z-purge.	ABS
Shell Mars B FGC MCC Building	2011	Dynamic Industries / Shell	Complete design, supply, installation, testing and commissioning of HVAC system for Shell Mars B FGC MCC Building. Equipment to be constructed of 316L stainless steel and built to meet Class 1 Division 2 and Z-Purge.	USCG
Shell Mars A Living Quarters Project	2011	Lone Star Marine Shelters / Shell	Complete design, supply, installation, testing and commissioning of HVAC system for Shell Mars A Assisted Living Quarters Project. Equipment to be constructed of 316L stainless steel and built to meet Class 1 Division 2 and Z-Purge.	USCG
EZRA	2011	Huisman Equipment	Design, Delivery and Installation, HVAC equipment for Offshore Cranes	DNV
AEGIR	2011	Huisman Equipment	Design, Delivery and Installation, HVAC equipment for Offshore Cranes	DNV
SKY HOOK	2011	Huisman Equipment	Design, Delivery and Installation, HVAC equipment for Shore Crane	DNV
HUISMAN 600MT	2011	Huisman Equipment	Design, Delivery and Installation, HVAC equipment for Shore Crane	DNV

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
YANTAI	2011	Huisman Equipment	Design, Delivery and Installation, HVAC equipment for Crane	DNV
Barge Alaska Solutions	2011	Trident Services	Complete Design, supply, installation, testing and commissioning of HVAC system for Trident.	ABS
DeepWater Navigator	2011	Infinity / Transocean	Complete supply, installation, testing and commissioning of seven levels LQ HVAC system for Transocean.	ABS
BP-Whiting FOS Buildings	2011	BP-North America	Complete design, supply, installation, testing and commissioning of HVAC system for the three (3) H120 Blast rated Control Centers for BP Refinery. Equipment to be constructed of 316L stainless steel and built to meet Class 1 Division 2 and Z-Purge.	DNV
T-15 Enclosures	2010	Zimtex Engineering	Complete ventilation design, and supplied materials for out fitting two offshore Transformer Buildings	ABS
BP-Whiting FOS Buildings	2010	BP-North America	Complete design, supply, installation, testing and commissioning of HVAC system for the three (3) H120 Blast rated Control Centers for BP Refinery.	ABS
West AQUARIUS	2010	Khan Offshore (South Korea)	HVAC modification on Seadrill West Aquarius (Hull 3020). Work scope included preparation of P&IDs and supply of WCCU's, FCU's Air cooled chillers, electrical control panels	DNV
Frontier Bully-I (Drillship)	2010	Noble Corp.	Design and supply of DX cooling system for electrical rooms and workshop consisting of Water Cooled Condensing Units and FCUs, Electrical Panels and Unit Heaters.	ABS
Frontier Bully-II (Drillship)	2010	Noble Corp.	Design and supply of DX cooling system for electrical rooms and workshop consisting of Water Cooled Condensing Units and FCUs, Electrical Panels and Unit Heaters.	ABS
Compact Semi-Sub 500 person Accommodator	2010	STX Canada	Basic Design for the complete HVAC system including Living Quarters, Mechanical spaces in Hull/Pontoon	ABS
Self-Propelled Wind Farm Jack-up	2010	Enertech Solutions/ NPCC (UAE)	Basic Design for the complete HVAC system including Living Quarters, Mechanical spaces in Hull/Pontoon	ABS
MOPU-Rig	2010	Gulf Copper/Infinity Marine	Complete design, supply, installation, testing and commissioning of HVAC system for the Accommodation and Mechanical spaces.	ABS
PSS-Chemul	2010	Allswater Marine Canada	Review and recommendation for the modification in the HVAC system for Galley, Laundry and Incinerator.	Lloyd Register
Canadian Navy Ship ISSC	2010	Fleetway Inc.	Pressure drop analysis for the duct modifications in various rooms	DND - Canada

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
JU2000E - Independencia	2009	CICSA-Mexico	Complete ventilation system design, equipment supply and commissioning support for JU2000E Jack-up	ABS/SOLAS
DND Barge	2009	CME - Halifax	Supply of Fire Dampers	ABS/SOLAS
Seafox7-New LQ	2009	IPL(Intech Power) Aberdeen	Accommodation module HVAC Design/Supply of Fire Dampers	ABS/SOLAS
ENSCO 8500	2009	Infinity Marine	Commissioning Support in USA for new build semi from Keppel FELS	ABS
ENSCO 89	2009	Infinity Marine	BOP Room and SCR Room turnkey supply and installation of new A/C	ABS/SOLAS
ENSCO 93	2009	Infinity Marine	BOP Room and SCR Room turnkey supply and installation of new A/C	ABS/SOLAS
Seafox7-Upgrade	2009	IPL(Intech Power) Aberdeen	Accommodation module HVAC Design/Supply of Fire Dampers	ABS/SOLAS
Megathyst	2008	Pride USA	Selection and Supply of Air terminal boxes, thermostat etc.. for Meagthyst Rig Accommodation upgrade	ABS/SOLAS
Transocean Drillship- DEEPWATER CHAMPION	2008	Transocean- USA	Complete design audit for HVAC System on Drillship constructed at Hyundai Heavy Industry Korea	ABS/SOLAS
Noble JIM DAY	2008	Noble Drilling - USA	Design of Drillers Cabin HVAC System for Semisub, construction by Jurong Shipyard- Work Scope include design of NFPA 496 compliant pressurization system and Comfort air conditioning	ABS/USCG/SOLAS/
Noble DANNY Adkins	2008	Noble Drilling - USA	Design of Drillers Cabin HVAC System for Semisub, construction by Jurong Shipyard- Work Scope include design of NFPA 496 compliant pressurization system and Comfort air conditioning	ABS/USCG/SOLAS/
PEMEX - CHEMUL Semi	2008	Irving Shipbuilding- Canada	Supply of Chillers, Pumps and Ventilation fans	Lloyds-North America
891-3-Compact Semi Sub (CSS)	2008	STX-Europe	FEED, Basic Design of complete HVAC system for LQ and Hull, DP3 compliance, Design per ABS codes	ABS/USCG/SOLAS/
ODFJELL OIL- DEEP SEA STAVANGER	2008	Daewoo Shipbuilding Korea GVAC 7500	Design/Equipment supply of Semi HVAC for the Living Quarters, Hull and Engineering Spaces Odfjell H3025	Norsok/NMD/PSA/DN V
GlobalSantaFe ARCTIC-III	2008	GlobalSantaFe - USA	Design for HVAC system & upgrade of Semi Rig HVAC Systems	DNV/SOLAS
REMEDIAL OFFSHORE	2007	BEACON MARINE	Design of LQ and Technical Spaces HVAC System for Jack Up, Construction by Beacon and Chinese Shipyard	ABS/USCG/SOLAS
ODFJELL OIL- DEEP SEA	2007	Daewoo Shipbuilding	Design/Equipment supply of Semi HVAC for the Living Quarters, Hull and	Norsok/NMD/PSA/DN V

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
ATLANTIC		Korea GVAC 7500	Engineering Spaces Odfjell H3023	
Noble JIM DAY	2007	Noble Drilling - USA	Design of LQ and Technical Spaces HVAC System for Semisub, construction by Jurong Shipyard/ Equipment Supply to Noble	ABS/USCG/SOLAS
GlobalSantaFe DEVELOPMENT DRILLER III	2007	GlobalSantaFe - USA	Design analysis of Semi HVAC Systems for newbuild, construction by Keppel FELS Shipyard	ABS/USCG/SOLAS
OPTI-EX  high temperature applications	2007	Exmar Offshore / Lone Star Marine Shelters	Design and turnkey installation for all the air conditioning for the LQ and electrical spaces. The air conditioning consisted of multiple split systems with air cooled condensers. The air handlers and condensers were in 316L stainless All the equipment was built to meet the class 1 division 2 hazardous zone criteria.	USCG, ABS / SOLAS /IMO
Noble DANNY ADKINS	2007	Noble Drilling - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Semisub, construction by Jurong Shipyard/ Equipment Supply to Noble	ABS/USCG/SOLAS
Noble DAVE BEARD	2007	Noble Drilling - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Semisub, construction by Dalian, China Shipyard/ Equipment Supply to Noble	ABS/USCG/SOLAS
Pride Alabama	2006	Pride International	Design and turnkey installation for the air conditioning and refrigeration systems for the LQ, and air conditioning for the electrical rooms. Provisions plants. Low temperature system consisting of a single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The cooler and freezer chambers were constructed completely of 316L stainless steel	ABS / SOLAS /IMO.
Pride Oklahoma	2006	Pride International	Design and turnkey installation for the air conditioning and refrigeration systems for the LQ, and air conditioning for the electrical rooms. Provisions plants having walk in cooler and freezers chambers . Low temperature system consisting of a single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid.	ABS / SOLAS /IMO.
Pride Nebraska	2006	Pride International	Design and turnkey installation for the air conditioning and refrigeration systems for the LQ, and air conditioning for the electrical rooms. Provisions plants having walk in cooler and	ABS / SOLAS /IMO.

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
			freezers chambers . Low temperature system consisting of a single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel	
Pride Tennessee	2006	Pride International	Design and turnkey installation for the air conditioning and refrigeration systems for the LQ, and air conditioning for the electrical rooms. Provisions plants having walk in cooler and freezers chambers . Low temperature system consisting of a single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel	ABS / SOLAS /IMO.
Noble DAVID BEARD	2006	Noble Drilling - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Semisub, construction by Dalian Shipyard/ Equipment supply to Noble.	ABS/USCG/SOLAS
West AQUARIUS	2006	Daewoo Shipbuilding Korea GVAC 7500	Design/supply of platform HVAC for the Living Quarters, Hull and Engineering Spaces SeaDrill H3019	Norsok/NMD/PSA/DN V
West HERCULES	2006	Daewoo Shipbuilding Korea GVAC 7500	Design/supply of platform HVAC for the Living Quarters, Hull and Engineering Spaces SeaDrill H3020	Norsok/NMD/PSA/DN V
West EMINENCE	2006	Shinhan Machinery Company Korea	Design/supply of platform HVAC for the Living Quarters (Smedvig Offshore/SeaDrill) constructed by Samsung Heavy Ind.	Norsok/NMD/PSA/DN V
Scorpion COURAGEOUS	2006	Scorpion Offshore - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Jack Up, Construction by Keppel AmFELS	ABS/USCG/SOLAS
Scorpion DEFENDER	2006	Scorpion Offshore - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Jack Up, Construction by Keppel AmFELS	ABS/USCG/SOLAS
Scorpion RESOLUTE	2006	Scorpion Offshore - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Jack Up, Construction by Keppel AmFELS	ABS/USCG/SOLAS
Scorpion VIGILANT	2006	Scorpion Offshore -	Design and turnkey installation of LQ and Technical Spaces HVAC System for	ABS/USCG/SOLAS

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
		USA	Jack Up, Construction by Keppel AmFELs	
Scorpion INTREPID	2006	Scorpion Offshore - USA	Design and turnkey installation of LQ and Technical Spaces HVAC System for Jack Up, Construction by Keppel AmFELs.	ABS/USCG/SOLAS
West PHOENIX	2005	Shinhan Machinery Company Korea	Design/supply of platform HVAC for the Living Quarters including cold store refrigeration plant. (Smedvig Offshore/SeaDrill) Commissioned in 2007	Norsok/NMD/PSA/DN V
Exxon-Mobil Sable Tier II Compression	2005	Daewoo Shipbuilding Korea	Design/supply of platform HVAC, MCC and FGS Modular Control Panel. Air handlers by Rosemex, condensing units and packaged Zone 1 units by Toromont. Fans by Witt & Sohn	Lloyds/ Transport Canada/CCGSSB
EnSCO 60	2005	EnSCO International	Design and turnkey installation for air conditioning and refrigeration systems for the living quarters, and electrical rooms. The air conditioning consisted of multiple split systems with air cooled condensers. On the provisions plants the walk in cooler and freezers chambers are 20'x20' in size. A single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel inside and outside and the flooring was constructed of heavy gauge 316L stainless steel.	ABS / SOLAS /IMO.
EnSCO 68	2005 2004	EnSCO International	Design and turnkey installation for air conditioning and refrigeration systems for the living quarters, and electrical rooms. The air conditioning consisted of multiple split systems with air cooled condensers. On the provisions plants the walk in cooler and freezers chambers are 20'x20' in size. A single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel inside and outside and the flooring was constructed of heavy gauge 316L stainless steel.	ABS / SOLAS /IMO.
EnSCO 7	2005 2004	EnSCO International	Design and turnkey installation for air conditioning and refrigeration systems	ABS / SOLAS /IMO.

<b>Marine / Offshore Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
	2004		for the living quarters, and electrical rooms. The air conditioning consisted of multiple split systems with air cooled condensers. On the provisions plants the walk in cooler and freezers chambers are 20'x20' in size. A single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel inside and outside and the flooring was constructed of heavy gauge 316L stainless steel.	
Ensco 84	2005	Ensco International	Design and turnkey installation for air conditioning and refrigeration systems for the living quarters, and electrical rooms. The air conditioning consisted of multiple split systems with air cooled condensers. On the provisions plants the walk in cooler and freezers chambers are 20'x20' in size. A single, semi-hermetic air cooled compressor skid was provided with 100% redundant air cooled compressor skid. The walk in cooler and freezer chambers were constructed completely of 316L stainless steel inside and outside and the flooring was constructed of heavy gauge 316L stainless steel.	ABS / SOLAS /IMO.
Ensco 86	2004			
Ensco 87	2004			
Ensco 88	2004			
Ensco 89				
Ensco 93				
Ensco 98				
Ensco 99				
Ensco 82				



<b>Marine/Naval HVAC Projects</b>				
<b>PROJECT</b>	<b>YEAR</b>	<b>CLIENT</b>	<b>WORKSCOPE</b>	<b>Rules Applied</b>
DND Canada HALIFAX CLASS Frigates	2010	Fleetway Inc.	Pressure drop analysis for the duct modifications in various rooms	DND - Canada
Halifax Class Frigate	2009	Fleetway Inc	Design/Recommendation for HVAC System upgrade in Operation Room	Canadian Navy
HMCS PRESERVER	2008	National Defence Canada	Design Cold Room and Freezer RFG Plants and Systems	Canadian Navy/Lloyds
HMCS PROTECTEUR	2007	National Defence Canada	Design Cold Room and Freezer RFG Plants and Systems	Canadian Navy/Lloyds
EMERALD SEA	2007	Secunda Marine	Design of Accommodation HVAC Upgrade for Platform Supply Vessel	DNV/SOLAS
DND Canada HALIFAX CLASS Frigates	2005	National Defence Canada	Design/supply Propulsion Engine Enclosure Vent System for 12 Navy Frigates (HALIFAX Class). Fans and dampers from Witt & Sohn	Canadian Navy/Lloyds
US ARMY SBX Missile Defense Project	2004	Peter Keweit Offshore	Design of US Army Radar Platform cooling and ventilation systems for the sea based X-Band radar platform for the long range missile program	USN/Raytheon
US Navy INLS Platforms	2004	Marinette Marine USA	Design HVAC Systems for Integrated Navy Literage Vessels	ABS/USCG/SOLAS