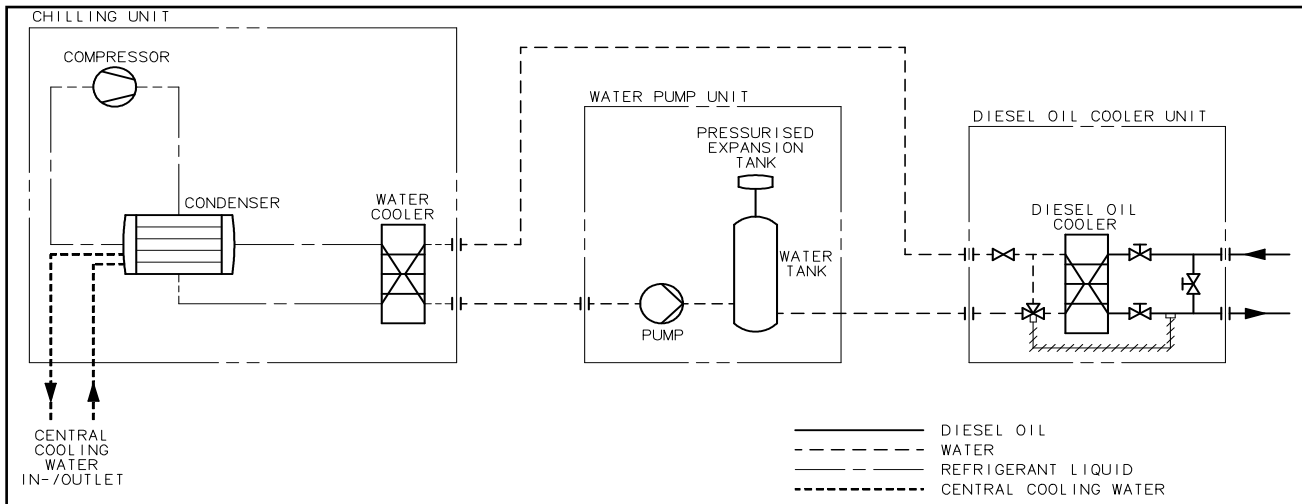
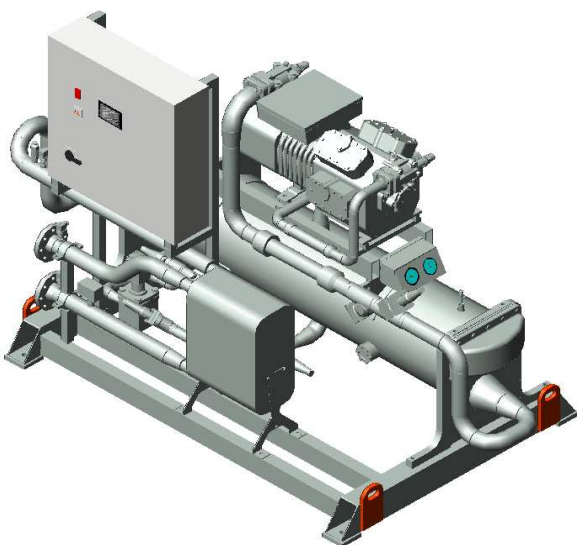


YORK MDO COOLING SYSTEM



Features

- MDO cooling system designed and manufactured by Johnson Controls Marine for easy installation and long service in heavy sea conditions
- Based on York's widely used & successful standard Marine Chiller
- Standard pump and buffer unit
- MDO cooler, ready for hook up to oil system
- Designed for various HFC or HCFC refrigerants
- Designed for cooling capacities, 50-285 kW



Chiller Unit

Chiller Unit

Compressors are semi hermetic multi cylinder reciprocating type.

With Condenser, integrated liquid receiver, suction gas heat exchanger and liquid sub-cooler.

They include:

- cylinder unloading capacity regulation
- positive lubrication by integral oil pump
- integral safety valve
- integral suction strainer
- suction and discharge isolating valves
- crankcase heater
- oil level sight glass
- electronic expansion valve
- PT-100 sensors for measurement of chilled water supply and return temperature
- flow switch in chilled water pipe system as safeguard for non-freezing

Water Pump & Buffer unit

The buffer unit is complete with buffer tank, pump and starter panel for easy connection to chiller and MDO cooler.

The starter panel is connected to the chiller PLC with interface connection.

MDO - Diesel Oil Cooler

The MDO unit is complete with 3-way valve and temperature sensors, ready for connection to the fuel line.

As option MDO cooler can be mounted on the pump & buffer skid.

Control Panel

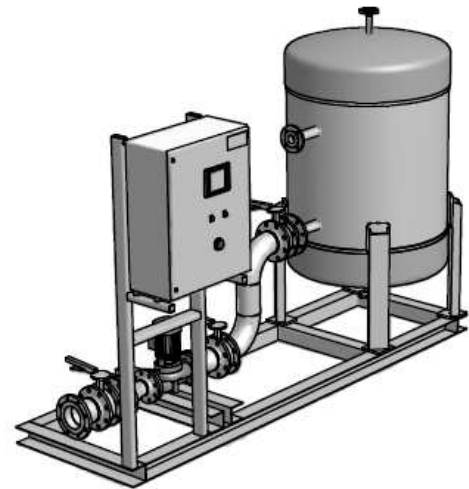
The control panel for the MDO cooling system is mounted on the chiller unit base frame.

PLC-based control is standard. The PLC is controlling the chiller, pump and MDO cooler to ensure correct working conditions and oil temperature to the main engine.

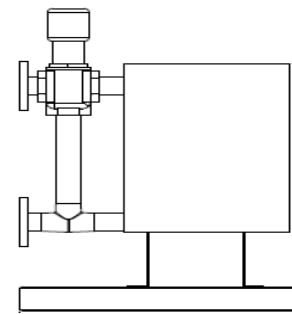
The system is including all internal wiring and includes signal for cooling / chilled water, pump start and MDO oil temperature control.

Reading and settings of MDO temperature and alarms are easily done at the front of the control panel.

As option the PLC can be connected to the ship's LAN network for remote control and monitoring of the system



Pump & Buffer unit



MDO Cooler

Chiller unit dimensions & capacity

Unit type for R404a	Length	Width	Height	Service area (mm) ***	Weight Kg **	Capacity	Drawing No.
	mm	mm	mm			50/60HZ	
MCSH-P / 4H -CRxC271954	2538	1610	1850	800 / 1900	980/1019	57/67	661036-0104
MCSH-P / 6J -CRxC271954	2538	1610	1850	800 / 1900	1010/1080	74/88	661036-0105
MCSH-P / 6H -CRxC271954	2538	1610	1850	800 / 1900	1020/1112	85/100	661036-0106
MCSH-P / 6G -CRxC272366	2918	1610	1850	800 / 2300	1065/1222	98/115	661036-0112
MCSH-P / 6F -CRxC411913	2627	1610	1850	800 / 1900	1292/1338	116/136	661036-0113
MCSH-P / 8GC -CRxC411913	2627	1610	1850	800 / 1900	1335/1422	136/164	661036-0114
MCSH-P / 8FC -CRxC411913	2627	1610	1850	800 / 1900	1360/1437	161/194	661036-0115
MCSH-P / 66G -CRxC501918	2804	1610	1850	800 / 1900	1690/1823	196/231	661036-0110
MCSH-P / 66F -CRxC501918	2804	1610	1850	800 / 1900	1690/1823	231/273	661036-0111