

DELIVERY SPECIFICATION

2. Cold water production plant

The cold water production plant is capable of making of 8 m³/hr at an inlet seawater temperature of 30 °C.

At a lower seawater temperature the waterflow through the watercoolers is increased to obtain maximum output of the waterchiller units. Each chilled water unit is mounted on a heavy marine base frame, and consists of :

2.1 One (1) screw compressor, make MYCOM type 160-L.

Capacity and power consumption:

Unit capacity	:	335	kW
Evaporating temp.	:	-6	°C
Condensing temp.	:	+37	°C
Speed	:	3550	rpm
Power absorbed	:	90	kW

Accessories at the compressor:

- 1 direct coupling with protecting guard;
- 1 suction and 1 discharge stop valve;
- 1 suction gas strainer;
- 1 suction and 1 discharge non return valve;
- 1 vertical oil separator, complete with electric heating (during no-operation), thermostat, safety valve, purge valve, drain valve and level indicator;
- 1 oil circuit, complete with:
 - 1 seawater cooled shell and tube oil cooler;
 - 1 oil temperature control valve, electrically operated, for the oilcooler;
 - 1 oil filter with differential pressure safety switch;
 - 1 oil pump with direct coupled squirrel cage motor;
 - 1 oil pressure regulating valve;
 - 1 set of stop valves around filter and pump;
 - 1 oil injection manifold;
- 1 complete set of pressure transmitters and temperature sensors for monitoring and protection purposes.
- 1 control valve for stepless capacity control between 100% and 10%.

2.2 One (1) squirrel cage electric motor

marine type with one free shaft-end and anti condensation heating.

Motor power	:	105	kW
Electric supply	:	3 x 440 V - 60 Hz	
Speed	:	3540	r.p.m.
Degree of protection	:	IP54	
Type of construction	:	B3	
Insulation class	:	Class F	
Ambient temperature	:	< 45°C	