



Air Treatment and
Refrigeration Division

DELIVERY SPECIFICATION

1. R.S.W. plant

1.1 Two (2) screw compressors units

for the R.S.W plant. Each unit consists of a heavy marine base frame, on which are mounted:

1.1.1 Two (2) screw compressors, make MYCOM type 160-L.

Capacity and power consumption:

Unit capacity	: 525	735	kW
Evaporating temp	: -5°C	+5	°C
Condensing temp	: +40	+42	°C
Speed	: 3550	3550	rpm
Power absorbed	: 146	152	kW

Accessories of each 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 oil circuit, complete with:
 - 1 seawater cooled shell and tube oil cooler;
 - 1 oil temperature control valve, electrically operated, for the oil cooler;
 - 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%.

Both compressors at the unit are running on one horizontal oil separator, complete with electric heating(during no-operation), thermostat, safety valve, purge valve, drain valve and level indicator;

1.1.2 One (1) control switchboard

in dripproof IP23 execution, which contains push buttons for start/stop procedures, capacity control and emergency stop for each compressor.

Two 4" L.C.D. monitor are included to monitor the most important process parameters of each compressor. The compressors will be operated automatically from the E.C.R. In case of computer failure manual operation will be possible.



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1.1.3 Two (1) squirrel cage electric motor

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

Motor power	: 185 kW
Electric supply	: 3 x 440 V - 60 Hz
Speed	: 3540 r.p.m.
Degree of protection	: IP 54
Type of construction	: B3 Insulation class: Class F
Ambient temperature	: < 45°C