

4SW80 & 4SW140

Four Stage Water Cooled Air Compressor Module

Capacities: 75 - 170 cfm (128 - 288 m³/hr)
 Nominal Pressures: 3000 psi (207 bar)
 Maximum Pressure: 3625 psi (250 bar)
 Max Pressure Compressor: 5000 psi (345 bar)



Hamworthy's rig tensioning compressors and heave compensation compressor packages are fully integrated, lightweight, compact and engineered for the offshore environment.

Hamworthy 4SW80 and 4SW140 combine a 4 stage compressor, air dryer and filtration package with a contained cooling system, producing dry, filtered, high pressure air/gas suitable for riser tensioning and offshore applications worldwide.

Standard Features

- ▶ Fully piped and wired skid with lifting points to an offshore specification
- ▶ Split design skid assisting installation
- ▶ Marine motor
- ▶ Fully automatic, desiccant air dryer giving a -40°F/°C dewpoint
- ▶ Fresh water cooling pack including plate heat exchanger & pump
- ▶ Remote PLC/starter controller designed for ease of operation
- ▶ Suction filter silencer
- ▶ Safety valves on each stage
- ▶ Integral separators with automatic drains
- ▶ Condensate blow down receiver/silencer with automatic drain
- ▶ Air pressure system control switch

Optional Features

- ▶ Refridge dryer giving a 37°F/+3°C dewpoint
- ▶ Cooling pack fitted with shell and tube heat exchanger
- ▶ Resilient mounts fitted to skid with flexible hoses provided
- ▶ Sequence selector panel for lead/lag situations
- ▶ Direct cooling from central circuit

Skid Design

The base is an open frame modular design with a major base supporting the compressor and motor and a sub baseplate supporting the cooling pack and dryer. The bases are bolted together and all services are fully integrated.

Classification

Units are tested and fully assembled ready for installation. The module meets the requirements of the major marine classification societies.

Starter/controller

The starter controller provides a fully automatic control via a combined starter/control panel. Fitted with a PLC and operator interface which monitors the performance of the compressor. The following functions are monitored and displayed.

- | | |
|--------------------------|------------------|
| ▶ Maintenance timer | ▶ Standby |
| ▶ Auto drain | ▶ Motor overload |
| ▶ Low oil pressure | ▶ Delayed stop |
| ▶ Low water flow | ▶ Power loss |
| ▶ High water temperature | ▶ Start up |
| ▶ High air temperature | ▶ Run |
| ▶ Compressor purge | |

Using the optional sequence selector panel multiple machines can be linked together to provide a lead/lag situation.

Specification

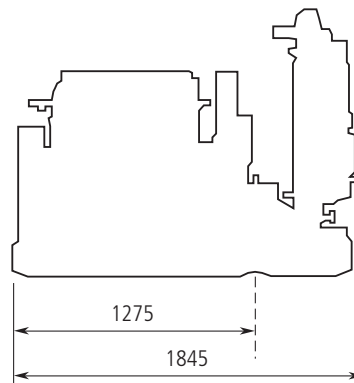
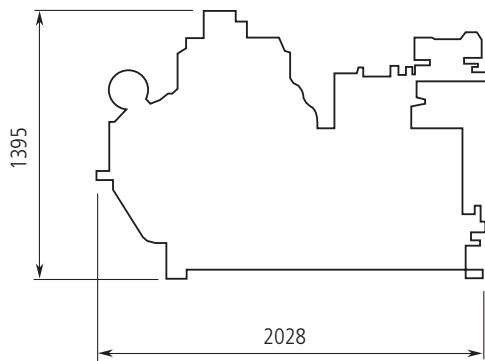
Model	Capacity		Pressure		Motor Power
	m ³ /h	cfm	bar	psi	
4SW80 (@ 50 & 60 Hz)	127.5	75	207	3000	75 HP (55kW)
4SW140 (@ 60 Hz)	238	140	207	3000	100 HP (75kW)
4SW140 (@ 50 Hz)	288	170	207	3000	130 HP (97kW)

Drive: 4SW80 - belt driven, 4SW140 - direct coupled

Nominal Dimensions (mm)

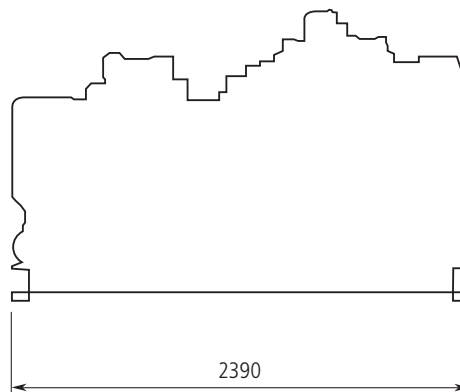
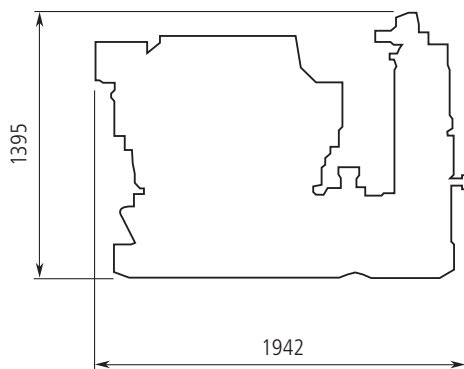
4SW80

Weight: 907 kg (2000 lbs)



4SW140

Weight: 1542 kg (3400 lbs) Est.



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