

# Compressed Air Treatment System

Model 494

**Focal Technologies Corporation, a Moog Inc. company, has over 30 years of expertise in supplying standard and custom marine products for harsh environment applications and is a leading manufacturer of high performance and high quality swivels. Contact Focal for any assistance in selecting the best solution for your requirements.**

## Description

The Model 494 Compressed Air Treatment System (CATS) is designed to supply clean, dry air for any offshore applications. The system is usually supplied as part of a purged/pressurized (Ex p) swivel to ensure the purge control system has a good air supply. Operating pressure is typically 125 psi [8.5 bar]. Flow rates are determined by the customer requirements. Output air is Class 2 in accordance with ISO 8573-1.

While the CATS is typically used with an Ex p swivel, it can be used for any application that requires a source of clean, dry air.

The system can be supplied with a pneumatic system that will automatically use a compressed gas bottle as a secondary supply should the primary supply fail. This will keep a pressurized swivel operating with a loss of primary air.

The components of the CATS are housed in a 316 SS enclosure. External to the enclosure is the air input/output connections. Ingress protection is IP66.

All 400 series products are intended for use in Floating Production Systems (FPS). They are well suited for any application requiring a product that can withstand harsh marine conditions or require long life with minimal maintenance intervals. Designed and manufactured in our ISO 9001 facility under our project management system, products have a two year warranty and are provided with a complete document package.

All products can be modified to meet specific requirements. Installation, commissioning and service is available. Contact the factory for details.

[www.moog.com/marine](http://www.moog.com/marine)

## Features

- Enclosure: 316 stainless steel
- Piping and fittings: 316 SS
- IP66
- Temperature: -15 °C to + 60°C
- Online filter and dryer changes

## Options

- Emergency use gas input
- External pressure gauges
- Instrumentation to allow remote system monitoring



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# Specifications

Input (Note 1)	
Pressure	125 psi [8.5 bar]
Flow Rate	Up to 6 000 L / min
Air Quality	Not specified (Note 2)
Pipe Size	1" NPT
Output	
Pressure	125 psi [8.5 bar]
Flow Rate	Up to 6 000 L / min
Air Quality	ISO 8573-1 Class 2
Particle Size	5 micron max
Dew Point	-40 °C (at maximum pressure)
Oil Content	0.1 mg/m <sup>3</sup> max
Interface	
Mounting	Four tabs, two slotted suitable for M12 hardware
Classification	
Marine	Typically included with swivel classification

Note 1: All CATS systems are custom made to suit a particular application. As such, the specifications shown are typical.

Note 2: To minimize the frequency of filter changes, we recommend an instrument air supply.

Environmental	
Temperature	-15 °C to +60 °C (operational) -15 °C to +60 °C (storage) Extended temperature ranges available. Contact factory
Ingress	IP66
Physical	
Height	Typically 3 ft [900 mm]
Width	Typically 2 ft [600 mm]
Depth	Typically 2 ft [600 mm]
Weight	300-500 lbs [135-230 kg]
All dimensions depend on the configuration	
Material	316 / 316L stainless steel
Drawing	494-XXXX-00
Options	
Input/output	Other pipe interfaces available
Supply backup	Connection for compressed gas bottle; automatic switchover
Gauges	Visual gauges for input/output pressure, output flow rate
Monitoring	Available. Contact factory



All specifications and information are subject to change without notice. Please contact Focal for the latest updates.

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