



**Naval Know-how
for the world market**

More than 53 of the world's navies rely on Sauer Compressors in their aircraft carriers, destroyers, frigates, corvettes, patrol boats, submarines and mine hunters.

Navies that appreciate such special design features as:

- easy maintenance and accessibility
- low noise signature
- high reliability
- low-weight, compact design



WP 5000

Based on the feedback of navies' experience, Sauer's know-how results in a steady stream of innovations, e.g. the WP 5000 high-pressure air compressor with its 100% balanced free inertial forces and the integration of maintenance free and highly reliable Interstage Membrane Dryers.

References



Korvette K 130 – German Navy

2 x WP 5500, 80 m³/h @ 300 bar
and 1 x SC22, 100 m³/h @ 8 bar



T45 Destroyer – Royal Navy

3 x WP 5500, 54 m³/h @ 276 bar



Frigate P 17A – Indian Navy

3 x WP 5000, 150 m³/h @ 250 bar



F125 Frigate – German Navy

2 x WP 5000 with Interstage Membrane
Dryer, 160 m³/h @ 300 bar



AWD Hobart Class Destroyer – Australian Navy

2 x WP 5000, 160 m³/h @ 300 bar
and 2 x SC52, 350 m³/h @ 8 bar



PPA – Italian Navy

4 x WP5500 with Interstage Membrane
Dryer, 80 m³/h @ 350 bar

Download our
Whitepaper about
the Centralized High
Pressure Air System

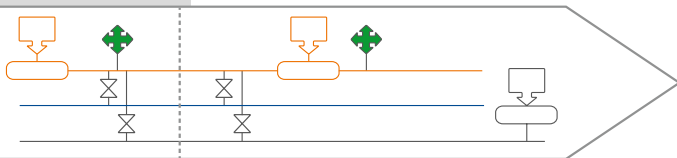


Advantages of the Centralized High Pressure Air System

The selection of a centralized high pressure air system in your warship will provide lowest life-time-costs and is a prerequisite for up-to-date and affordable warship design.

■ **lowest capital costs** ■ **lowest ILS costs** ■ **lowest maintenance costs**

The centralized air system provides air for all consumers via a ring-main directly or if required through pressure reducing stations. It is versatile and flexible even if consumers requiring air supply will be installed in a later stage of the design or operation. Space and weight is considerably lower than the alternative "point of use" system which requires dedicated air compressors for each application in a warship. Whilst also initial costs are reduced – the major savings in design and operation will come through the reduced number of compressors installed.



**Less number of compressors
and types installed →
less integration, ILS and support costs!**

PPA Italian Navy	Horizon Italian Navy
4 x 80 m³/h water-cooled @ 350 bar	2 x 60 m³/h air-cooled @ 30 bar
1 x 30 m³/h @ 330 bar diesel-driven	4 x hand operated emergency compressor
	1 x low pressure compressor 350 m³/h @ 8 bar
	3 x breathing air compressors 30 m³/h @ 330 bar
	2 x portable breathing air compressors 15 m³/h @ 330 bar
	2 x weapon air compressors 30 m³/h @ 160 bar

Guess which solution is easier and less costly to operate and maintain?

J.P. Sauer & Sohn Maschinenbau GmbH
P.O. Box 92 13
24157 Kiel/Germany

PHONE + 49 431 3940-0
FAX + 49 431 3940-24
E-MAIL info@sauercompressors.de
WEB www.sauercompressors.com