



JOHNSON PUMP
AN SPX BRAND

Shipbuilding Pumps – the heart of any ship



THE WILLIAMS - CARVER COMPANY, INC.

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SPX[®]



When the pumps stop working, everything on board shuts down. Pumps are the life of a ship. That's why we make the best pumps. For SPX, the best pump represents both the right price and the shortest delivery time, which precisely meets the specifications demanded. This requires a constant feedback from the marine market and a swift translation into sound and reliable applications. Our design and manufacturing facilities are fully equipped to do just this.

The right pumps in the right place

SPX's R&D department developed the Hydraulic Investigator selection program for selecting the right size of centrifugal pump. This program translates the required QH-value into the hydraulic most suitable for the intended objective. SPX has its own approved test beds on which we can carry out tests for QHP, NPSH, vibration and noise level. We can carry out tests in accordance with various inspection agencies such as Lloyds RoS, GL, DNV, ABS, RINA etc.

We can provide you the total pump package for:

- Bilge & Ballast
- Engine Cooling
- Fire Fighting
- General Service
- HVAC
- Oil Systems
- Potable Water
- Sewage



One man one pump

Supplying reliable pumps at a reasonable price imposes considerable demands on the core of our firm; the works floor. By applying the principle of one man one pump, we are aiming at the shortest possible production time. Working in specially equipped assemblage cells, our highly qualified technicians have all components within easy reach and are able to assemble each pump exactly to specification in a minimum of time.



The Combi system

The Johnson Pump brand Combi system is a modular program that comprises a range of vertical and horizontal centrifugal pumps. One of the major advantages of the system is the ability to interchange components between the various models.

This means a considerable reduction in the stock of spare parts to be maintained by the customer. For maintenance staff the modular system also means significant time gains.



CombiPrime Vertical & Horizontal

Vertical & Horizontal self-priming pump, hydraulics according to EN733

General service, bilge, ballast and fire fighting applications

Maximum ratings

Capacity	500 m ³ /h (H) 800m ³ /h (V)
Head	100 m
Working press.	10 bar
Temperature	80°C
Speed	3600 rpm

Materials: cast iron, bronze

Features

- Built-in vacuum pump operating on liquid ring principle
- Large air capacity, i.e. short priming time, even for large suction lines
- No compressed air required
- CombiPrime V vertical, compact build
- Variable (8) positions of suction bend (CombiPrime V)



FreFlow

Self priming centrifugal pump

Corrosive and slightly contaminated liquids containing gas or air such as sea, fresh, bilge and fire-fighting water

Maximum ratings

Capacity	350 m ³ /h
Head	80 m
Working press.	9 bar
Temperature	95°C
Speed	3600 rpm

Materials: cast iron, bronze, stainless steel

Features

- Excellent suction ability up to 7 meters lift
- Heavy-duty, dust-tight, grease-lubricated bearing
- Inspection hatch for easy maintenance (bigger types)
- Modular design
- Available in compact monobloc design



CombiLine

Inline close-coupled circulation pump on extended shaft motor

Circulating pump for heating and cooling systems

Maximum ratings

Capacity	500 m ³ /h
Head	35 m
Pressure	10 bar
Temperature	140°C
Speed	1800 rpm

Materials: cast iron

Features

- Specially designed suction bend
- Improved impeller design
- Ample hydraulic application range
- Excellent hydraulic performance
- In-line design
- Horizontal or vertical installation



CombiLineBloc

Inline close-coupled circulation pump

Circulating pump for HVAC - and cooling systems

Maximum ratings

Capacity	450 m ³ /h
Head	100 m
Pressure	10 bar
Temperature	120°C
Speed	3600 rpm

Materials: cast iron, bronze

Features

- Standard mechanical shaft seal EN12756 (DIN 24960)
- In-line design
- Stub shaft for standard IEC flange motors
- Back-Pull-Out construction for easy maintenance
- Low NPSH through unique suction bend design
- Horizontal or vertical installation



CombiFlex, -Universal, -Bloc

Vertical pump variable position suction bend, hydraulics according to EN733

General service and fire fighting applications

Maximum ratings

Capacity	1500 m ³ /h
Head	140 m
Working press.	10 bar
Temperature	200°C
Speed	3600 rpm

Materials: cast iron, bronze

Features

- Many mounting options (floor-, bulkhead-, wall-mounting)
- 8 positions possible between suction and delivery connections
- Top-pull-out construction in combination with spacer coupling for easy maintenance
- Bearing bracket option allows range of shaft-seals
- Compact build



CombiBloc

Horizontal centrifugal pump in monobloc design with standard IEC flange motor

Ideal pumps for engine rooms in HVAC- and chiller units and in general duty systems.

Maximum ratings

Capacity	850 m ³ /h
Head	105 m
Working press.	10 bar
Temperature	110°C
Speed	3600 rpm

Materials: cast iron, bronze, stainless steel

Features

- Standard mechanical shaft seal according to EN 12756 (DIN 24960)
- Back-pull-out construction for easy maintenance
- Self-venting pump housing
- Can be mounted horizontally or vertically (wall-mounting)
- High pump efficiency
- Compact build



CombiNorm

Horizontal centrifugal pump according to EN733 with electric motor built on common base plate

General service, cooling or fire fighting applications

Maximum ratings

Capacity	1500 m ³ /h
Head	100 m
Working press.	16 bar (10 bar)
Temperature	200°C
Speed	3600 rpm

Materials: cast iron, nodular cast iron, bronze

Features

- Back-pull-out construction for easy maintenance
- Many shaft-seal, bearing-design and material options
- Modular design and interchangeability of parts



CombiChem

Heavy duty chemical pump according to ISO5199 and EN22858

General service, boiler feed, exhaust gas and tank cleaning applications

Maximum ratings

Capacity	800 m ³ /h
Head	160 m
Working press.	16 bar (10 bar)
Temperature	200°C
Speed	3600 rpm

Materials: cast iron, nodular cast iron, bronze, stainless steel

Features

- Mechanical seals according to EN 12756 (DIN 24960)
- Back-pull-out construction for easy maintenance
- Many shaft-seal, bearing-design and material options
- Modular design and interchangeability of parts
- Mag-driven CombiMag is 100% leakproof



Multistage

Horizontal (MCH), self-priming (MCHZ) and vertical (MCV) high pressure multistage pumps

General service and engine room

Maximum ratings

Capacity	100 m ³ /h
Head	340 m
Working press.	40 bar
Temperature	120°C(MCV&MCHZ), 150°C(MCH)
Speed	3600 rpm

Materials: cast iron, bronze

Features

- Ridgid, reliable construction
- MCHZ liquid ring self-priming version
- Compact build
- Modular design and interchangeability of parts



TopGear

Heavy duty self-priming internal gear pump range

Cargo transfer, fuel and oil transfer

Maximum ratings

Capacity	250 m ³ /h
Working pres.	16 bar
Temperature	300°C
Viscosity	80 000 mPas

Materials: cast iron, nodular cast iron, stainless steel, cast steel

Features

- Front and Back-Pull-Out
- High and low viscos products
- Simple design
- Easy maintenance

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PROCESS EQUIPMENT

Your local contact:



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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.johnson-pump.com and www.spxpe.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Certified drawings are available upon request.

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