

Additional information is available at:
www.allweiler.com



Experienced ALLWEILER technicians are ready to respond at any time of day or night, wherever you need them. You can count on service and support within 24 hours no matter where your ALLWEILER-equipped installation is located.

The addresses of ALLWEILER global representatives are available here:
<http://www.allweiler.com>



- Colfax/ALLWEILER manufacturing centers
- Colfax/ALLWEILER sales and service locations

ALLWEILER products and services

- >> Centrifugal pumps
- >> Propeller pumps
- >> Screw pumps
- >> Progressing cavity pumps
- >> Peristaltic pumps
- >> Macerators
- >> Plant engineering
- >> Systems
- >> Monitoring and control

ALLWEILER application categories

- >> Marine and Offshore
- >> Power Generation
- >> Oil and Gas
- >> Process Technology
- >> Chemistry
- >> Bioenergy
- >> Heat Transfer
- >> Residential and Commercial Engineering
- >> Machine Tools
- >> Pulp and Paper
- >> Water and Wastewater
- >> Food and Pharmaceutical

This new screw pump is equipped with a magnetic coupling for environmentally friendly pumping of oils and other lubricating liquids up to 40 bar

- >> 100 % security against leakage
- >> Wearless by contactless and slip-free transfer of torque
- >> Lowering costs by long service life and low-maintenance
- >> Customizable with a variety of construction types and materials



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ALLFUEL® Magdrive

- >> Ideal for fuels and oils
- >> For oil-fired systems, marine engineering, tank farms, industrial equipment
- >> Designed for safe and clean pumping of even environmentally hazardous liquids up to 40 bar

ALLFUEL® Magdrive:

**Leakage-Free,
Efficient,
and Reliable**



ALLWEILER is a business unit of Colfax Corporation

ALLFUEL® Magdrive: Simply no leaks.

Extraordinary efficiency combined with the highest possible environmental protection

ALLFUEL® Magdrive combines all benefits of the ALLFUEL® series

- >> low space requirement,
- >> high operational safety,
- >> cleanliness, and
- >> ease of service

with a complete absence of leakage and maximum environmental protection.

Contamination on the pump surface endangers the environment and causes an ignition hazard.

The ALLFUEL® Magdrive series is

- >> safe,
- >> environmentally friendly and
- >> completely free of emissions.

Extremely durable

Strong samarium cobalt magnets prevent demagnetization under excessive loads and transfer torque smoothly even under high operating temperatures.

Automatic cooling

The return bore in the drive screw provides for effective removal of heat even without external cooling.

Permanent operation

The "Twin Unit" contains a non-return valve that enables servicing and removal of one of the pumps. The reserve pump takes over operation and ensures smooth continuation of the process.

Optimized control

The vacuum gauge provides continuous information about the condition of the filter.

Safe operation

The advanced valve casing with only one ball valve ensures complete safety when switching to the reserve pump.

Rapid maintenance

Vertical filter installation enables filter replacement without draining oil.

Extended maintenance intervals

Large filter surfaces ensure very good suction performance and extended maintenance intervals.

Durable and reliable

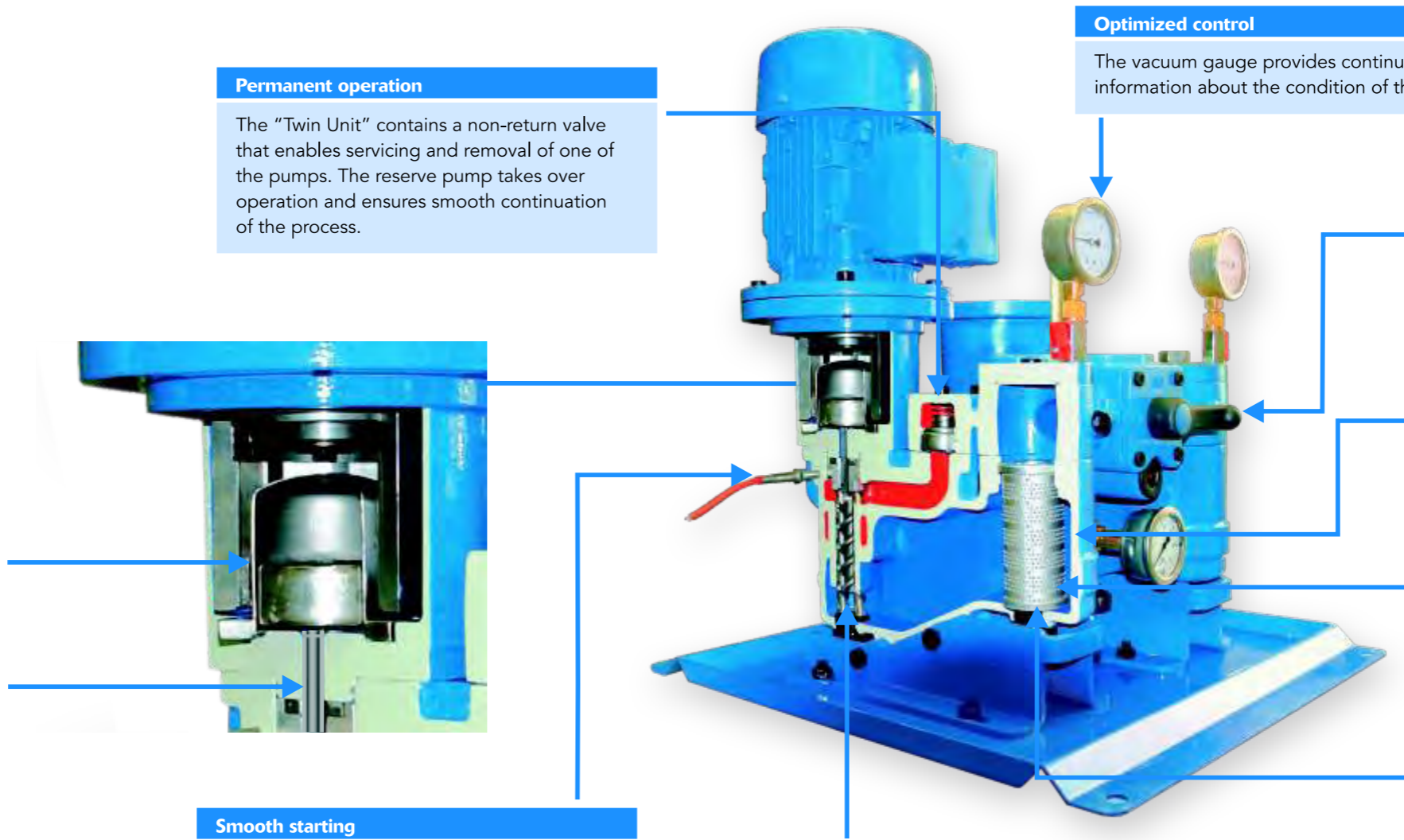
The filter's "inside out" flow and a magnet in filter bottom ensures that dirt and metal particles collect conveniently inside the filter.

Smooth starting

The heating cartridge at the containment prevents the magnetic coupling from disengaging when pumping highly viscous liquids.

Low-noise operation

Specially-shaped thread flanks provide low-noise performance with virtually no pulsation.



ALLFUEL® Magdrive prevents leaks and succeeds in less engine room fires

Research shows that more than 60 % of fires in a marine environment start in engine rooms. Fires were caused by oil leakage in more than 55 % of the cases. The hermetically sealed magnetic coupling on ALLFUEL® Magdrive reliably avoids this source of fire. Thanks to its variety of construction types, installation versions, and diverse combinations of materials, the ALLFUEL® Magdrive series can adapt to virtually any situation.

It provides efficient, reliable, and leak-free pumping as

- >> transfer, booster, and burner-operation pump in oil-fired systems,
- >> feeder and circulation pumps for fuels and lubricants in marine environments,
- >> feeder and filling pumps in tank systems,
- >> lube-oil pumps for gearboxes, motors, and hydraulic systems.

Enjoy complete operational safety by the use of ALLFUEL® Magdrive even when pumping fuels with a sulphur content below 0,1% or highly viscous liquids. Optional heating of the magnetic coupling directly at the containment can ensure smooth starting of the pump even with critical liquids and at low temperatures. The robust magnetic coupling delivers a virtually unlimited service life by transferring torque without physical contact.

In addition, a bore hole in the drive screw effectively dissipates heat and makes external cooling of the magnetic coupling unnecessary. Elimination of the axial shaft seal means that all service-intensive components are also eliminated. This minimizes expenses related to maintenance and spare parts.

Maximum performance data

	AFM	AFM-F/-T	
Q	112	112	l/min
t	150	150	°C
p _s	25	7	bar
p _d	40	40	bar
V	1-750	1-750	mm ² /s

Legal requirements related to the handling of environmentally hazardous materials are growing more stringent. The SOLAS-regulations from the „International Maritime Organization“ (IMO) provide a set of guidelines, according to which even normal functional leakage of mechanical seals is no longer accepted in some cases.