SWEP's unique solutions for air compressors

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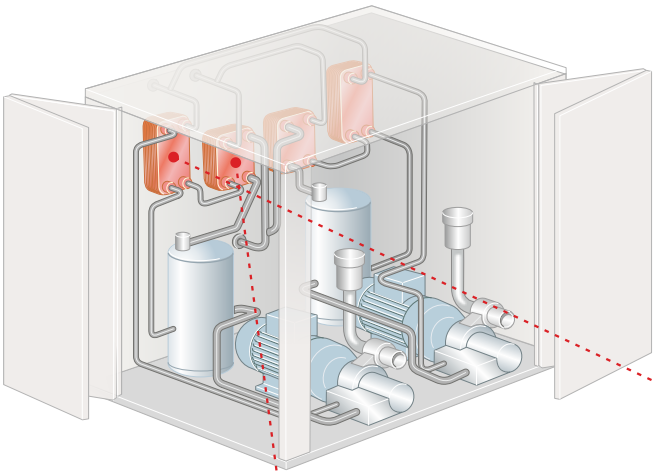
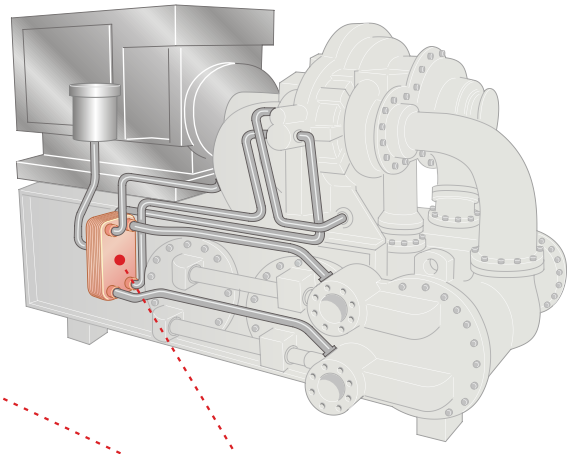
Oil-lubricated rotary screw compressor



Oil-free centrifugal compressor



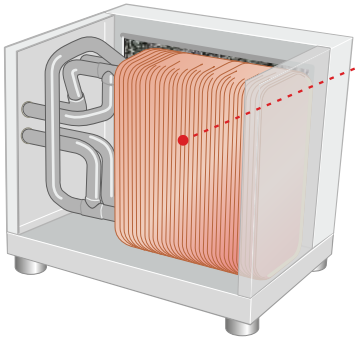
Inter/after-cooler

- Compact and modular design
- High thermal performance
- Material efficiency
- Accessibility and short lead times

Oil/fluid cooler

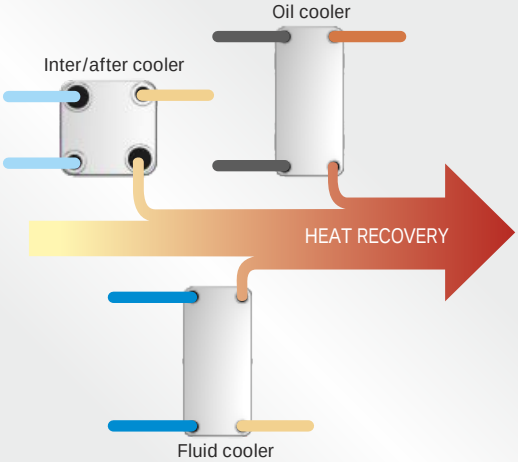
- Compact and modular design
- High thermal performance
- Material efficiency
- Accessibility and short lead times
- Can be equipped with fail-safe design (double wall)

External heat recovery system



Energy recovery increases efficiency

- Approximately 96% of the total electrical input can be recovered
- 6 months payback*
- In oil-lubricated compressors, oil cooling is the main energy source, providing up to 81% recovery. Compressed air provides an additional 15% recovery.
- In oil-free compressors, compressed air is the main energy source, providing up to 91% recovery. Transmission oil cooling provides an additional 5% recovery.



based on a 20 kW / 27 HP compressor. Working 5 days per week and 16 hours per day, recovering 80% of the energy input at an electricity cost of 0.14 USD.

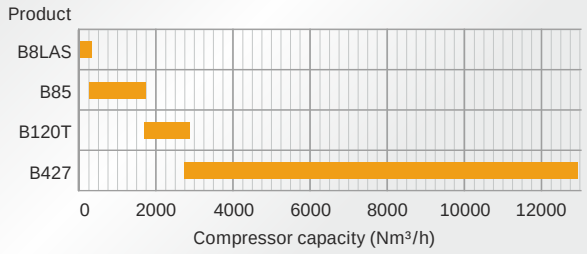
Recommendations and quick selections

- All brazed plate heat exchangers maintained via regular cleaning in place, with no spare parts required.
- Scaling and fouling should be addressed depending on water quality, temperature case, and usage of filter. SWEP recommends a filter to avoid particles larger than 1 mm.
- When risk for thermal stress, water should run continuously during start up and shut down.

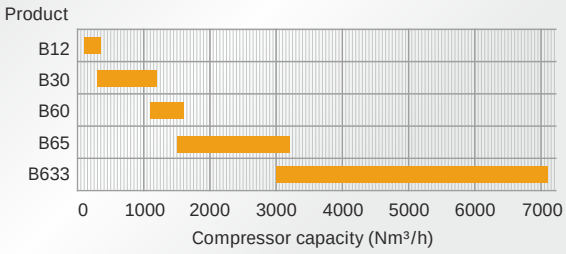
Circuit	Oil side	Water side
Fluid	ISO VG 46	Water
T_{in} (°C/°F)	80/176	45/113
T_{out} (°C/°F)	60/140	70/158
Compressor capacity (Nm³/h/scfm)	40-13000/20-7500	
Pressure drop (kPa/psi)	50/7.3	30/4.4

Circuit	Air side	Water side
Fluid	Air 7 bar(g)	Water
T_{in} (°C/°F)	80/176	20/68
T_{out} (°C/°F)	40/104	40/104
Compressor capacity (Nm³/h/scfm)	20-7100/10-4000	
Pressure drop (kPa/psi)	10/1.5	20/2.9

ISO VG 46 - Water



Compressed air 7 bar(g) - Water



Entrepreneurship for the future

What started with two Swedish entrepreneurs in a garage in 1983 is now a global corporation with approx. 1000 employees, five manufacturing facilities, and a production capacity of more than three million BPHEs every year. The founders were pioneers taking a chance with a technology they believed in, and to which they dedicated their passion, creativity, and personal commitment. This spirit is still present in today's SWEP, making us keep pushing the borders of what is possible. Driven by the conviction that our products are part of a sustainable future, we challenge efficiency, and we challenge our partners to do the same.

Core production competences

Our owners

Our owner Dover Corporation is a multi-billion dollar global producer of innovative equipment, specialty systems, and value-added services for industrial products.

- More than 50 independent companies
- Customers in more than 100 countries
- dovercorporation.com

Challenge efficiency

At SWEP, we believe our future rests on giving more energy than we take – from our planet and our people. That's why we pour our energy into leading the conversion to sustainable energy usage in heat transfer. Over three decades, the SWEP brand has become synonymous with challenging efficiency.

SWEP is a world-leading supplier of brazed plate heat exchangers for HVAC and industrial applications. With over 1,000 dedicated employees, carefully selected business partners, global presence with production, sales and heartfelt service, we bring a level of expertise and customer intimacy that's redefining competitive edge for a more sustainable future. SWEP is part of Dover Corporation, a multi-billion-dollar, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.

Printed on 100% recycled paper. SWEP is an ISO14001 certified company.

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