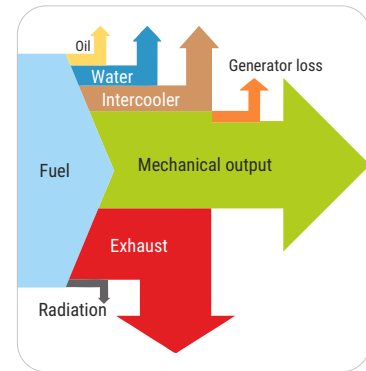
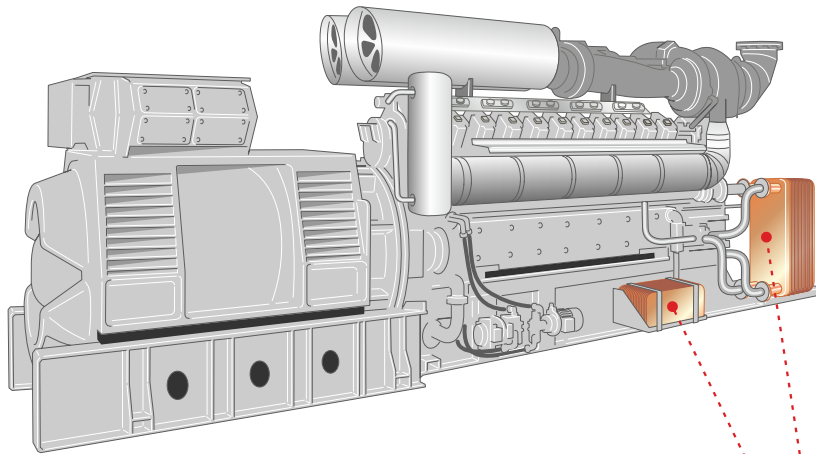


## SWEP's solutions for combined heat & power

## Onsite/distributed power generation system



### Exhaust gas cooler



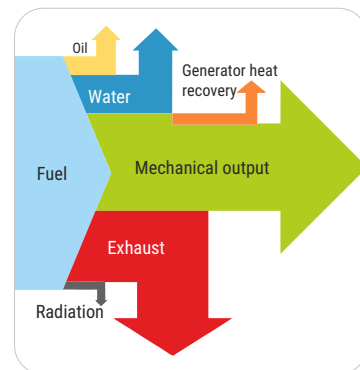
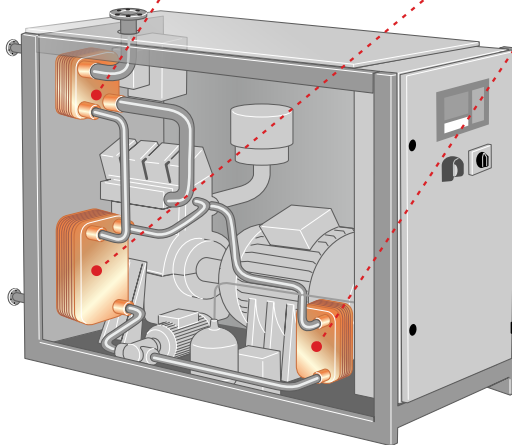
- Compact and modular design
- High temperature resistance
- Material efficiency
- Accessibility and short lead times

### Oil/Jacket water cooler



- High thermal performance
- Compact and modular design
- Convenient integration
- Vibration resistance
- Can be equipped with fail-safe design (double wall)

## Light commercial $\mu$ CHP



## Efficiency gains from energy recovery

- Over 90% total energy efficiency with combined heat and power production
- Exact match with high performance and quick response for longer maintenance intervals
- Water-cooled generator adds to heating capacity and minimizes unwanted heat radiation
- Lower emission levels and higher engine output with an efficient charge air cooler

## Recommendations and quick selections

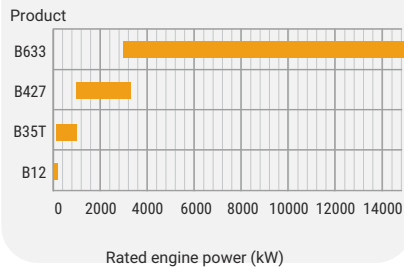
- All brazed plate heat exchangers maintained via regular cleaning in place, with no spare parts required.
- Scaling and fouling should be addressed depending on water quality, temperature case, and usage of filter. SWEP recommends a filter to avoid particles larger than 1 mm.
- When risk for thermal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

Circuit	Primary	Secondary
Fluid	SAE 40W	Glycol (50%)
T <sub>in</sub> (°C/°F)	95/203	60/140
T <sub>out</sub> (°C/°F)	85/185	65-70/149-158
Rated engine power	50-15000 kW	
Pressure drop (kPa/psi)	70/10.2	50/7.3

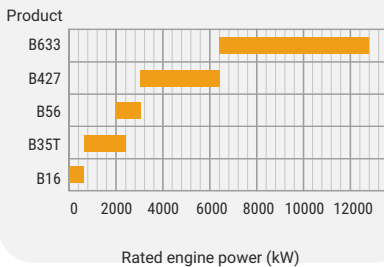
Circuit	Primary	Secondary
Fluid	Glycol (50%)	Water H <sub>2</sub> O
T <sub>in</sub> (°C/°F)	95/203	70/158
T <sub>out</sub> (°C/°F)	85/185	90/194
Rated engine power	50-13000 kW	
Pressure drop (kPa/psi)	50/7.3	50/7.3

Circuit	Primary	Secondary
Fluid	Exhaust gas	Water H <sub>2</sub> O
T <sub>in</sub> (°C/°F)	500/932	80/176
T <sub>out</sub> (°C/°F)	125/257	90/194
Rated engine power	20-200 kW	
Pressure drop (kPa/psi)	2/0.3	50/7.3

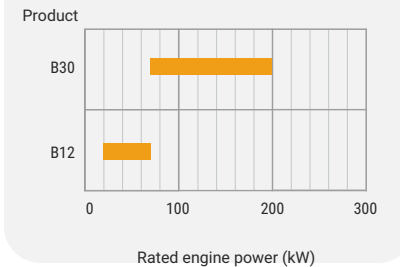
### Oil cooler



### Jacket water cooler



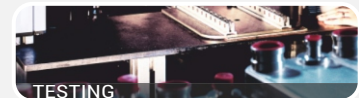
### Exhaust gas cooler



## 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.

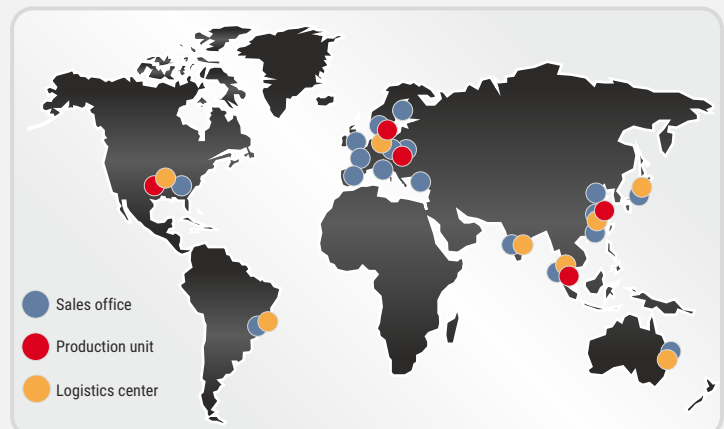
## Core production competences



## 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](http://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.