

# **BOGE** duotherm

# External heat recovery – your way to save energy

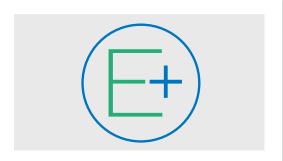
Get more out of your compressor — with the external BOGE duotherm heat recovery. It saves money because up to 72% of the primary energy used by the compressor can be used for other purposes — in the form of heat that increases the temperature of your heating or service water. This turns your compressor into an energy savings miracle with little effort.

Retrofit new or older machines now – with the license to save energy!



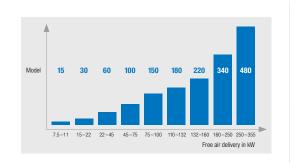
### **Maximum efficiency**

With this ingenious solution, in addition to compressed air, your compressor will also generate energy to increase the temperature of your heating and service water ... you can therefore use much of the energy used by the compressor for other purposes! BOGE duotherm provides additional value that makes sense ecologically and economically because it reduces the  $\mathrm{CO}_2$  footprint in the long term and pays off immediately.



### Can be used anywhere

Our external heat recovery is available in nine versions: This makes it suitable for oil-injection cooled screw compressors with an output between 7.5 and 355 kW. While in addition to the entire BOGE C and S series, compressors from other manufacturers can be retrofitted with this as well, BOGE compressors also benefit from a special kit that allows easy connection.



# Extremely compact solution – with an uncomplicated connection

The compact design of the two housing sizes allows space-saving connection of our external heat recovery and makes retrofitting of your new energy savings miracle very easy: First, no external energy is required for operation and second, the BOGE duotherm module can simply be connected to your compressor's oil circuit. As soon as a plumber has connected the water circuit, you can begin to save energy!





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# External heat recovery – your way to save energy

You're in control of taking the sting out of increasing energy costs: Based on the guaranteed savings achieved thanks to the BOGE duotherm external heat recovery, this investment, which is subsidised by BAFA, pays for itself within a short time.

#### An overview of all benefits:

- Maximum efficiency
- Heat recovery of up to 72% of the energy used
- Short payback period
- Compact design

- Can be used anywhere
- Easy retrofitting
- No external energy required
- Long-term reduction of the CO<sub>2</sub> footprint



#### Cost example: duotherm 220

For a 160 kW system with an S 160-4 L/LF

Rated output 160 kW Electr. power consumption 179.9 kW

Operating hours per year 6,000 operating hours

Gas price 0.12 €/kWh

Usable heat 72%

#### Usable energy in the oil cooler:

179.9 kW x 72% = 129.5 kW

#### **Potential savings:**

- = Usable energy x operating hours x gas price
- = 129.5 kW x 6,000 operating hours x 0.12 €/kWh

Over 6,000 operating hours, you will save

# 93,200 Euros

payback with an investment of 30,000 Euros

< 4 months

### **BOGE** duotherm at a glance:

duotherm 15	duotherm 30	duotherm 60	duotherm 100	duotherm 150	duotherm 180	duotherm 220	duotherm 340	duotherm 480
Maximum possible heat in kW								
6.1 8.9	12.1 17.8	17.8 36.3	36.3 60.6	60.6 88.8	88.8 106.6	106.6 129.2	129.2 201.9	201.9 286.7
Associated drive power in kW								
7.5 11	15 22	22 45	45 75	75 110	110 132	132 160	160 250	250 355
BOGE C and S series								
S 10 S 15 C 9 C 16 C 9 LF C 15 L C 12-2	S 20/-2 S 29/-2 C 20 C 30 C 20 L C 15-2 C 22-2	S 31/-2 S 50/-2 S 31-3 S 50-3 SL 31-3 S 60/-2 S 60-3	S 61/-2 S 75/-2 S 61-3 S 75-3 SL 75-3 S 90/-2 S 100/-2 S 90-3 S 100-3 S 46-4 S 75-4 S 56-4 S 76-4	\$ 101 \$ 150 \$ 101-3 \$ 150-3 \$L 101-3 \$G 101-3 \$G 150-3 \$ 90-4 \$ 110-4	S 91-4 L / LF S 111-4 L / LF S 132-4 L / LF	S 160-4 L / LF	upon request	upon request
Compressors by other manufacturers								
•	•	•	•	•	•	•	•	•

BOGF duotherm BPT, dt 50 K, tmaxAUS = 70 °C, in external housing