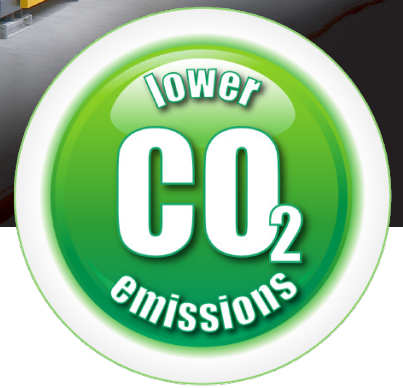




Heat recovery for greater efficiency

In fact, compressed air generators such as screw compressors, after-compressors and blowers convert the electrical drive energy supplied to them almost completely into heat. KAESER Compressors SE offers systems for this purpose that can be easily integrated into the compressed air station for hot air and hot water applications.

AND THIS IS HOW HEAT RECOVERY WORKS

Due to thermodynamic reasons, waste heat is always produced during compressed air generation. Energy in the form of heat for room heating or hot water preparation can be cleverly utilized here. All that is needed to integrate a heat exchanger in the oil or cooling water circuit. It does not matter whether fluid-injected or dry compressors are used. Heat recovery works without any problems.

Your advantages

- Reduction of energy costs
- Reduction of CO2 emissions

HEAT RECOVERY

Heating with hot air

Surrounding atmospheric air is passed through the compressor cooler, where it extracts the heat of compression. Adjacent rooms can be heated very easily and effectively with the heated cooling air from the compressor via ventilation ducts. Up to 96 % of the electrical power supplied to a compressor can be used for room or process heating. When using a hot air heating system, exhaust air ducts direct heated cooling air specifically to the areas that are to be heated. KAESER Kompressoren SE provides a connection for exhaust air ducts on all types of screw compressors. The installation is done on site. This allows rooms to be heated with heated cooling air.

Hot water generation

The integration of a heat exchanger system enables the use of waste heat from fluid and compressed air tanks of the compressors for hot water production. Plate heat exchanger (PTG) systems are used for heat heating and service water up to +70 °C.

HEAT RECOVERY PUT TO GOOD USE

- Feeding into central heating systems
- Hot air for drying processes
- Service water for canteens and large kitchens
- Laundries
- Electroplating
- General process heat
- Construction of air locks
- Cleaning water in the food industry
- Swimming pool heating
- Hot water for showers and washrooms

USE WASTE HEAT!

FILCOM[®]
DRUCKLUFT

Save money and protect the environment at the same time

Heat recovery

up to 96 % usable waste heat

Savings

Gas heating
294 € up to 56.723 €/year

Oil heating
331 € up to 63.888 €/year

Source: Website KAESER

Electrical power

KAESER ASD 50

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