

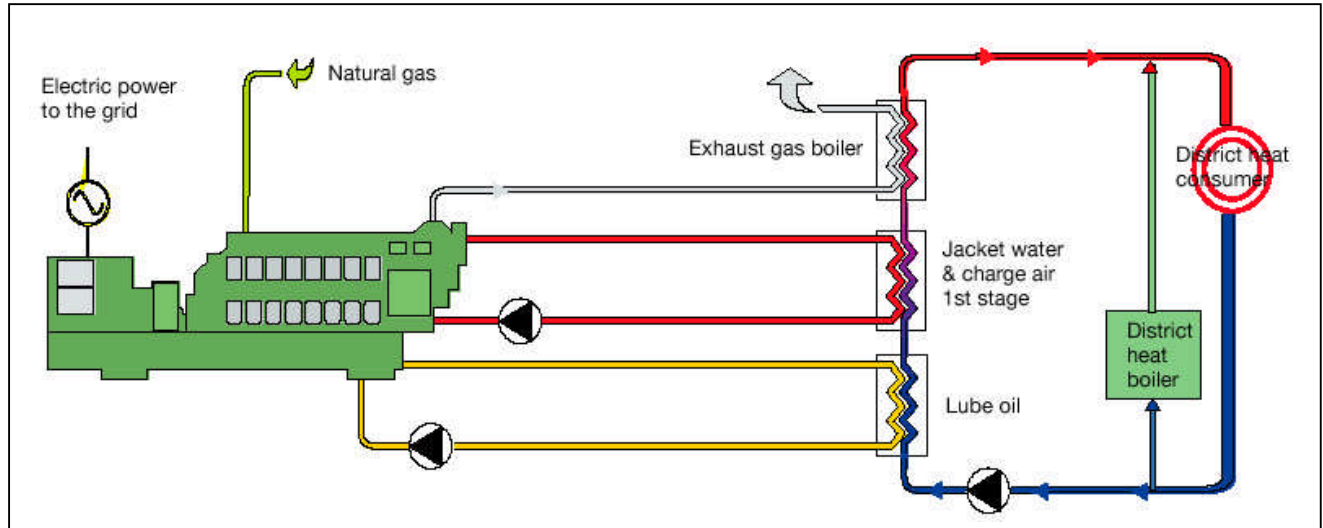
For sale:

Complete functional CHP power plant 19,600KWe, 50Hz, 6,300 volt, natural gas, consisting of five unused Deutz generator sets type TCG2032V16. Year 2005

Generator set

Engine and generator housing are mounted with vibration absorbers on a common base frame. The rotating shafts are coupled by means of a flexible coupling. The rest vibrations are so limited that the common base frame can be placed directly on the concrete foundation. No special foundation constructions are necessary .

Heat recovery



Each engine has its own heat recovery system.

Heat is recovered from lube oil, jacket water, charged air-gas mixture and exhaust gases.

The lube oil cooler, jacket water cooler and charge air cooler are direct mounted on the base frame. The exhaust cooler is executed as a separate freestanding unit.

All coolers are made of stainless steel and executed as compact plate heat exchanger, except for exhaust cooler which is executed as stainless steel shell and tube boiler.

If steam is required the exhaust gas cooler must be replaced by an exhaust gas steam boiler, jacket water and lube oil can be used for heating the condensate and feed water.

In case heat recovery is not required, exhaust gases shall flow directly to the stack and lube oil, jacket water etc. must be cooled by an air fin bank.

Lube oil system

Each engine has a high performance lube oil pump and an electrical driven pre lubrication pump. The oil level in the crankcase will be automatically controlled by a level switch and electric valve. The oil will flow to the crankcase by gravity .

For quick oil exchange two separate electric driven lube oil pumps are installed, one for fresh oil and one for used oil.

Two storage tanks will be supplied, one for fresh oil and one for used oil, tanks are equipped with level indicators and level switches.

Natural gas manifold

Each engine has its own gas manifold, equipped with one manual shutoff valve, two electric shutoff valves, gas filters, pressure controllers, pressure switches (min.& max. protection) and pressure indicators (manometers)

A flexible stainless steel hose will connect engine with the gas manifold.

Starting system

Each engine is started with an pneumatic start motor. Each unit has its own air compressor with compressed air tank and auxiliary equipment.

Control panel

Each unit has its own control panel with all controls and protection devices.

A major part of the control is the DEUTZ motor management system called TEM.

This system comprises powerful central industrial controls that handle master control and feedback control for the engine-plant, as well as visualization. A link with central process control is provided to meet the specific requirements of customers, via standardized industry buses or using direct signal lines.

The particular focus of the TEM design lies in combining powerful and flexible open- and closed-loop control electronics with a user-friendly operating concept.

The novel hardware design employs the most modern components and sets new standards for performance, functionality and operating safety.

The visual display uses a colour graphics display screen, providing clear and comprehensible presentation of information and measured values.

Knock control system

Each engine has its own knock control system.

The resulting specific firing point, output and gas/air mixture temperature control protects the engine from inadmissible loads, resulting in increased reliability and availability.

Exhaust gas silencer

Each engine has its own silencer, stainless steel with condensate relief connection and flexible compensators. Sound pressure 60dB(A) at 10 meter.

Starting up

Advice, consulting and starting up of the complete plant is included in our price.

Erection

On demand we can erect the complete plant for the customer.

Erection costs are not included in our price.

Please indicate country and place where plant will be installed and we will quote plant on a turn-key base.

Transport

Transport is not included in our price.

Price is F.O.B. Europe

Guarantee

Power plant will be supplied with one year full guarantee