

Customer: Teplárny Brno, a.s., Okružní 828/25, 638 00 Brno Lesná, Česká republika

Order: Greening of hot-water boilers at PČM

Supply of a 50 MWt gas-fired hot water boiler house

Boiler parameters:

Number of pieces	2 pcs
Nominal heat output of the boiler	25 MWt
Maximum permissible operating water pressure	24,5 bar(g)
Boiler inlet water temperature - medium	105 °C
Boiler outlet water temperature - medium	145 °C
Max. possible temperature gradient in the boiler	40 °C
Water flow rate	548,4 m ³ /h
Max. flow rate of mixing water (recirculation)	296 m ³ /h
Circulating water pressure before the boiler	18,5 ÷ 21,5 bar g
Boiler efficiency	95,9 %
Control range:	1:8
Fuel:	natural gas
Number of burners on the boiler	2 pcs
Sound pressure level 1 m from burner with silencer: max.	75 dB(A)
NOx content in flue gas:	max. 60 mg/Nm ³
CO content in the flue gas:	max. 15 mg/Nm ³



Material supplies:

2pcs hot water gas boiler with accessories
4pcs monoblocs burners
Connecting pipes for boiler room, gas and heat exchanger including pumps
2pcs flue pipes and stainless-steel chimneys in steel truss construction
Boiler control system and modification of the master control system
BMS instrumentation
Electrical installation
Air handling equipment
Gas detection and FDAS
Building modifications
Boiler room equipment

Non-material supplies:

TURN KEY delivery
Production and project documentation
Ensuring OSH and FP
Dismantling of two existing boilers including waste disposal
Installation of process equipment including thermal insulation
Electrical installation and BMS
Construction work
Construction management and coordination

Terms of realization: 12/2020–11/2021

Delivery form: “TURN KEY“

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