

NIULPE STUDY GUIDE 100%

VERIFIED ANSWERS

2024/2025 CORRECT

LOW-PRESSURE STEAM BOILER

A BOILER THAT OPERATES AT A MAXIMUM ALLOWABLE WORKING PRESSURE (MAWP) OF NOT MORE THAN 15 PSI. PRIMARILY USED FOR HEATING BUILDINGS SUCH AS SCHOOLS, APARTMENTS, WAREHOUSES, AND FACTORIES, AND FOR HEATING DOMESTIC WATER.

HIGH-PRESSURE STEAM BOILER

A BOILER THAT OPERATES AT A MAXIMUM ALLOWABLE WORKING PRESSURE (MAWP) OF MORE THAN 15 PSI. ALSO KNOWN AS POWER BOILERS. USED IN GENERATING ELECTRICITY AND IN INDUSTRIAL AND COMMERCIAL LOCATIONS

FIRETUBE STEAM BOILER

A BOILER IN WHICH HOT GASES OF COMBUSTION PASS THROUGH TUBES THAT ARE SURROUNDED BY WATER. MAY BE EITHER HIGH PRESSURE OR LOW PRESSURE. FIRETUBE BOILERS ARE USED WHERE MODERATE PRESSURES ARE NEEDED AND LARGE QUANTITIES OF STEAM ARE NOT REQUIRED. COMMON TYPES INCLUDE: HORIZONTAL RETURN TUBULAR BOILER, SCOTCH MARINE BOILER, AND VERTICAL FIRETUBE BOILER.

ADVANTAGES OF FIRETUBE BOILERS

DESIGN FOR PRESSURE UP TO A MAXIMUM OF 350 PSI AND APPROXIMATELY 2000 BHP.
ADVANTAGES: CAN BE FACTORY ASSEMBLED, INITIAL COST IS LESS THAN A WATERTUBE BOILER, REQUIRES LITTLE OR NO SETTING, CONTAINS LARGER VOLUME OF WATER FOR A GIVEN SIZE COMPARED TO A WATERTUBE BOILER, REQUIRES LESS HEADROOM.

STEAM PRESSURE AND TEMPERATURE RELATIONSHIP

Niulpe Study Guide

Brendan G. Carr



Niulpe Study Guide:

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