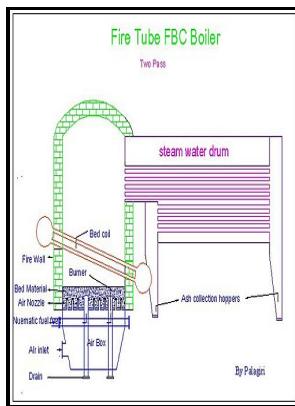


# Pressurized fluidized bed combustion

## Blackie Academic & Professional - Pressurized Fluidized



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Notes: Includes bibliographical references and index.

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### Fluidized bed combustion

One of the major benefits of FBC is that it facilitates the combustion of many unconventional fuels that would not be otherwise possible. Atmospheric air is filtered in a conventional manner not shown to protect the equipment from airborne solids and conducted via a conduit 24 to the suction of a first-stage air compressor 26 which delivers it hot and at an elevated pressure level of a first section of first-stage air-condensate exchanger 28 from which, partially cooled, it flows to a second section of first-stage air-condensate exchanger 30. In spite of the expenditure of a great deal of effort, a completely satisfactory dry method of removing fine ash and other particles from hot flue gases has not been found.

### Pressurized fluidized bed combustion.

CFB combustion technology Fluidized-bed combustion evolved from efforts to find a combustion process able to control pollutant emissions without external emission controls such as scrubbers.

### Pressurized Fluidized Bed Combustion by M. Alvarez Cuenca, E.J. Anthony, Paperback

This is achieved by extracting heat from the bed by conductive and convective heat transfer through tubes immersed in the bed.

### Circulating fluidized bed combustion boiler,

As is known, heat transfer surface of various physical forms may perform essentially the same service. Google has not performed a legal analysis and makes no representation or warranty as to the accuracy of the list. High level heat in product gases from the reaction system may be utilized in several ways.

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The cooled flue gas leaving the uppermost contacting element passes through a mist extractor 158 to free it of entrained water droplets and is then reheated, successively, in the first-stage circulating reflux-flue gas exchanger 140 and the first-stage flue gas reheat exchanger 94. A cyclone separator 636, designed to handle all of the spent solids rather than a small proportion of the lighter particles, as in the embodiments of FIGS.

## **Fluidized Bed Combustion FBC Boiler**

It may also be useful to reheat the flue gas or carbon dioxide, by exchange with hot combustion products, so as to apply heat as well as pressure to the formation. As the hot recycled solids move downward through the heat transfer tubes 820, heat flows through the tube walls to the cooling medium.

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