



THERMIC FLUID HEATER

VFF SERIES VERTICAL FOUR PASS FBC FIRED



FOUR PASS DESIGN

- ◆ Maximum Heat Transfer
- ◆ Higher Efficiency
- ◆ Lower Fuel Consumption



CAPACITY RANGE
1,00,000 to
20,00,000
Kcal/hr



WORKING TEMPERATURE
Up to 300°C

SOLID FUEL FIRED

PULVERISED COAL / SAW DUST /
RICE HUSK / AGRO WASTE /
BAGASSE / PELLETS

FUEL OPTIONS



PULVERISED COAL



SAW DUST



RICE HUSK



AGRO WASTE



BAGASSE



PELLETS

WIDELY USED IN



FOOD
PROCESSING



CHEMICAL
INDUSTRY



TEXTILE
INDUSTRY



PHARMACEUTICALS



PLYWOOD &
LAMINATE



DAIRY
INDUSTRY



RUBBER &
PLASTIC INDUSTRY



HIGH THERMAL
EFFICIENCY



LOW FUEL
CONSUMPTION



RUGGED &
DURABLE



EASY
MAINTENANCE



LONG
SERVICE LIFE



ECO FRIENDLY
DESIGN

POWERING HEAT. MAXIMUM EFFICIENCY HEAT TRANSFER

INSTALLATION PHOTOS



OUTDOOR INSTALLATION



INDOOR INSTALLATION



INDOOR INSTALLATION



APPLICATIONS

- ✓ Food Processing
- ✓ Chemical Industry
- ✓ Textile Industry
- ✓ Pharmaceuticals
- ✓ Plywood & Laminate
- ✓ Rubber & Plastic Industry
- ✓ Dairy Industry
- ✓ Edible Oil Industry



FEATURES

- ✓ High Thermal Efficiency up to 80%
- ✓ Low Fuel Consumption
- ✓ Uniform Heat Transfer
- ✓ Easy Maintenance
- ✓ Robust Construction
- ✓ Long Service Life
- ✓ Multi Fuel Compatible
- ✓ Eco Friendly Design



TECHNICAL SPECIFICATIONS

PARAMETER	DETAILS
Capacity	1,00,000 to 20,00,000 Kcal/hr
Working Temperature	Up to 300°C
Fuel	Pulverised Coal, Saw Dust, Rice Husk, Agro Waste, Bagasse, Pellets
Operation	Automatic / Semi Automatic
Heater Type	Vertical Coil Type
Heat Transfer Fluid	Thermic Oil
Efficiency	Up to 80% ± 5%
Design	Vertical Four Pass Design
Mounting	Floor Mounted
Insulation	High Grade Mineral Wool
Construction	M.S. Plate Fabricated
Feed Pump	Helical Gear / Process Pump
Control Panel	Fully Automatic (Optional)

FBC TECHNOLOGY (FLUIDIZED BED COMBUSTION)

FBC Technology ensures excellent mixing of fuel with air in a fluidized bed, resulting in complete combustion, higher efficiency and low emission performance.



KEY BENEFITS

- ✓ Higher Thermal Efficiency
- ✓ Lower Fuel Consumption
- ✓ Uniform Combustion Across Bed
- ✓ Multi-Fuel Compatibility
- ✓ Reduced Emissions
- ✓ Better Temperature Control
- ✓ Lower Maintenance Cost
- ✓ Longer Equipment Life

SUITABLE FUELS



COAL



SAW DUST



RICE HUSK



AGRO WASTE



BAGASSE



PELLETS

FBC TECHNOLOGY ADVANTAGES

- ✓ Uniform Combustion
- ✓ Maximum Heat Transfer
- ✓ Fuel Cost Saving
- ✓ Multi-Fuel Operation
- ✓ Eco-Friendly Performance
- ✓ Reliable Industrial Heating
- ✓ Suitable for Low-Cost Biomass & Agricultural Fuels

AUTOMATIC SCREW FEEDER SYSTEM



- ✓ Automatic Fuel Feeding
- ✓ Uniform Fuel Distribution
- ✓ Stable Bed Combustion
- ✓ Reduced Manual Handling
- ✓ Higher Fuel Efficiency
- ✓ Suitable for Coal, Biomass, Agro Waste, Bagasse, Pellets

