Waste liquid hot-blast stove burner

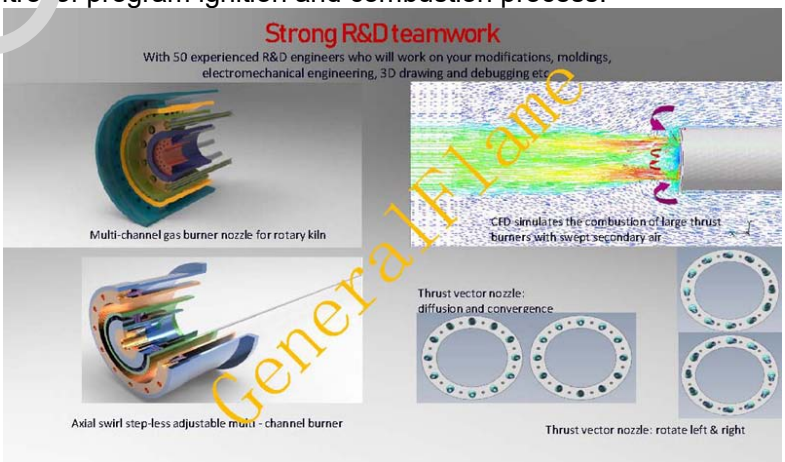


Introduction to waste liquid hot-blast stove burner

Waste liquid hot-blast furnace burner is mainly composed of casing, motor, fan, ventilation door regulator, oil pump, solenoid valve, ignition device, flame monitor, fuel injection nozzle and so on. The motor, fan and oil pump are connected through the coupling. When the motor rotates, it drives the fan and the oil pump to rotate together. The fan is used to deliver the required air into the furnace, and produces a certain pressure. The ventilation door regulator controls the opening of door and regulates the air input. The oil pump pressurizes the fuel and provides energy for atomization. Control the solenoid valve switch to control the fuel supply. For small burners, can be one or several nozzles, and controlled by different solenoid valves, to achieve segmenting combustion. The flame monitor is used for safe ignition and flameout protection. In addition, each burner shall be equipped with a controller to control the ignition operation of the burner. At present, the burner used for small and medium-sized hot air furnace always adopts integrated structure, while large hot air furnace adopts split structure. The selection of waste liquid hot air furnace burner should be based on the structure characteristics, performance requirements of the hot air furnace, and base on the fuel characteristics and the user conditions. If the waste liquid fuel consumption of the selected burner cannot meet the fuel consumption of the hot air furnace, then the output of the hot air furnace cannot be guaranteed.

As hot air furnace combustion equipment, the main role of the burner is:

1. Provide the hot air furnace with fuel, select atomization way to increase the contacting area between fuel and air.
2. Supply the combustion with necessary air to mix fully with the waste liquid mist to ensure sufficient combustion.
3. Ensure quick ignition and stable combustion.
4. Realize automatic control of program ignition and combustion process.



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