

Waste oil low NOx burner



Introduction of waste oil low nitrogen burner

Waste oil low nitrogen burner is an industrial burner which uses waste oil as fuel and low nitrogen combustion technology. Detailed introduction of waste oil burner:

1. Suitable for a wide range of oil: waste engine oil (waste crankcase oil, waste automatic wave box oil, waste gear box oil, waste butter and its mixture etc.); any brand of diesel oil, waste diesel oil, kerosene, waste kerosene, waste liquid pressure oil, waste transformer oil etc.; waste dirty vegetable oil, animal oil etc.
2. Wide range of applicable equipment: various types of spray painting and baking rooms at home and abroad; Various fuel oil hot-blast stove, oven, coating production line; various types of boilers, boiling furnace, thermal oil furnace; All kinds of large heating equipment, steam engine machine, baths (hotel, office, factory).
3. Easy installation, strong adaptability (no change the original control line/ the original operating procedures/ the original location of the installation, applicable for the installation of various burners at home and abroad).
4. Principle of the nano-excitation atomization, waste oil does not need any additives, durable, perfect electronic protection, safe and reliable, wearable parts, service life of more than 10 years.
5. The equipment can be started normally even at minus 40 degrees Celsius, which is most suitable for alpine regions.
6. Save energy and cost (comparing with diesel oil burner, can save over \$700/month in average).

NO generated by waste oil combustion mainly comes from two aspects: one is from the oxidation of nitrogen in the air used for combustion (combustion air); the other is, the nitride contained in fuel decomposes and re-oxidizes during combustion. In most combustion devices, the former is the main source of NO, called "thermal reaction NO", the latter called "fuel NO", another one called as "prompt NO". NO formed during combustion can react with intermediate products containing nitrogen, to reduce NO to NO₂. NO can also form NO₂ with various nitrogenous compounds. When the reaction reaches the chemical equilibrium in the actual combustion device, the transformation of NO into NO₂ is very small to be ignored.

Strong R&D teamwork
 With 50 experienced R&D engineers who will work on your modifications, moldings, electromechanical engineering, 3D drawing and debugging etc.

Multi-channel gas burner nozzle for rotary kiln

CFD simulates the combustion of large thrust burners with swept secondary air

Axial swirl step-less adjustable multi-channel burner

Thrust vector nozzle: diffusion and convergence

Thrust vector nozzle: rotate left & right