

FACT SHEET – Raw Material Dryer

What is the purpose of a raw material dryer?

Cement raw materials (primarily limestone, clay and sand) are received with an initial moisture content varying from one to more than 50 percent. If the facility uses dry process kilns, this moisture is usually reduced to less than one percent before or during grinding.

While thermal energy for drying can be supplied by exhaust gases from separate, direct-fired coal, oil, or gas burners, the most efficient and widely used source of heat for drying is the hot exit gases from the pyroprocessing system.

What Pollutants are emitted?

HAP metals (arsenic, cadmium, chromium, lead, manganese, mercury, nickel, selenium), dioxins/furans, organic HAPs (acetaldehyde, benzene, chlorobenzene, formaldehyde, hexane, naphthalene, phenol, polycyclic organic matter, styrene, toluene, xylene)

What are the Equipment Control Options?

Typically baghouses and ESPs.