

В. В. Алексеев, В. О. Лукви, Н. И. Поникаров

ИССЛЕДОВАНИЕ ГИДРАВЛИЧЕСКОГО СОПРОТИВЛЕНИЯ АППАРАТА Вихревого типа комплексной очистки газов

Ключевые слова: гидравлическое сопротивление, пылеулавливание, абсорбция, контактный теплообмен, аппарат вихревого типа комплексной очистки газов.

Новые безотходные и малоотходные технологии предполагают применение более совершенного оборудования, позволяющего комплексно и эффективно осуществлять процессы тонкого пылеулавливания и абсорбции или контактного теплообмена. Использование традиционного колонного насадочного или тарельчатого оборудования ограничивается низкой эффективностью и производительностью противоточного взаимодействия фаз. Применение аппаратов вихревого типа, сочетающих высокие скорости контактирования и центробежную сепарацию фаз позволяет рекомендовать их для проведения комплексных процессов. В статье рассмотрено конструктивное оформление аппаратов вихревого типа, область их применения и представлены экспериментальные исследования по определению энергетик данного аппарата на проведение комплексных процессов пылеулавливания и абсорбции или теплообмена.

Key words: the hydraulic resistance, dust collection, absorption, contact condenser, device vortex integrated gas cleaning.

New wasteless technologies suppose using more modern equipment, which allows effectively to carry out the processes of fine dust collection and absorption or contact condenser. The using of traditional column packed or paper equipment hampered by low efficiency and performance countercurrent interaction phases. The using of devices vortex which include high contact speeds and separation of phases allows to recommend them for conducting of complex processes. The article examines constructive design of device vortex the sphere of their using and represents experimental researches on definition of energy of this device for carrying out of complex processes dust collection and absorption or contact condenser.

Введение

Для проведения процессов пылеулавливания, газоочистки и контактного теплообмена широкое применение находят аппараты с закруткой потока: циклоны, вихревые камеры, горелки, абсорберы и теплообменники вихревого типа [1-5].

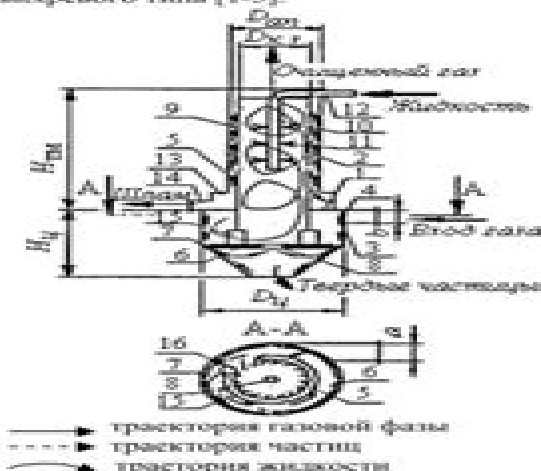


Рис. 1 – Схема аппарата комплексной очистки газов.

Циклоны проточные и более эффективные противоточные, разработанные в институтах охраны

труда (ЛНПО, СНОТ, и ВЦНПО), применяются для индивидуальных процессов сухого пылеулавливания твердых частиц с размерами более 10 мкм [1]. Из большого разнообразия противоточных циклонов наибольшее применение в отечественной практике пылеулавливания нашли циклоны конструкции ИНИОГАЗ (ЦН-11, ЦН-15, ЦН-15У и ЦН-24), а также разработанные позднее высокоэффективные спирально-конические циклоны типа СК-ЦН-34, СК-ЦН-34М и СК-ЦН-40 и спирально длинноконические, например типа СДК-ЦН-33. Область применения высокоэффективных циклонов ограничена сухим пылеулавливанием твердых частиц с размерами более 5 мкм при температурах пылегазовой смеси, не превышающей 400-500 °С.

Вихревые камеры и горелки [2] используют начальную закрутку потока для интенсификации процессов горения газообразного и твердого топлива с учетом специфики процесса имеют различные конструктивные модификации и ограниченное применение.

Вихревые пылеуловители отличаются от циклонов наличием устройств соплового и лопаточного типов, создающих вспомогательный закручивающий поток газа [8]. Наиболее выгодным является использование в качестве вторичного газа запыленных пылегазовых потоков с оптимальным расходом 30-35% от первичного. Основными достоинствами вихревых пылеуловителей по сравнению с циклонами являются более высокая эффективность улавливания мелкодисперсной пыли и возможность регулирования пылеулавливания за счет изменения подачи вторичного газа [12]. К недостаткам вихревых пылеуловителей следует отнести применение вспомогательного вентилятора и сложность в эксплуатации аппарата.

Центробежные циклоны и скрубберы с водяной пленкой применяются для мокрой пылеулавливания и

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