

FARGON



FR Series



Regenerator
for adsorption materials

Electric regenerator for adsorption materials – FR series

The FR series of regenerator for adsorption materials for regenerative adsorption Fargon is intended for operations that need to recover the original condition of these materials.

It can be applied to all types of adsorption materials such as:

- silica gel white granular or spherical
- granular activated alumina or spherical
- spherical molecular sieve or extruded

Their use removes contaminants adsorbed by these materials, such as humidity, CO, CO₂, etc., thus allowing reuse.

Provided primarily in two sizes, are manufactured mechanically as ASME sec. VIII - Div.1. (Larger sizes on request)

Regeneration temperatures of up to 250-300°C, with automatic control through the control panel coupled to the system.

Construction materials: carbon steel / stainless steel - all in stainless steel optional.



Basic models

Model	Power (KW)	Voltages available (V – 3 fases)	Approximate capacity adsorbent per charge	Basis Connections
FR-200	20	220/380/440/460/480	200 kg	1.½"
FR-400	35	220/380/440/460/480	400 kg	2"

Special models on request

Applications

- removal of moisture from the new adsorbent materials that were exposed to moisture, thus regain their original capacity adsorption.
- recovery of adsorbent materials used - provided they are not the end of its operational capacity, thereby increasing its useful life.
- materials recovery adsorption of equipment that received high amounts of moisture for operational failure.

note: applications not recommended

- adsorption materials contaminated with oil
- removal of mercaptan, because of the high odor generated



Main components



- 1 Insulated column for the placement of adsorbent material
- 2 Nozzle for loading of the adsorbent material
- 3 Nozzle for discharging of the adsorbent material
- 4 Radial compressor
- 5 Air outlet system
- 6 Full control panel with temperature controller analog or digital, heater contactor / radial compressor and breaker system.
- 7 Flanged electrical resistance with stainless steel elements
- 8 Temperature sensor
- 9 Input thermometer
- 10 Output thermometer
- 11 Output junction box of electrical resistance
- 12 Heater body – insulated
- 13 Base support



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