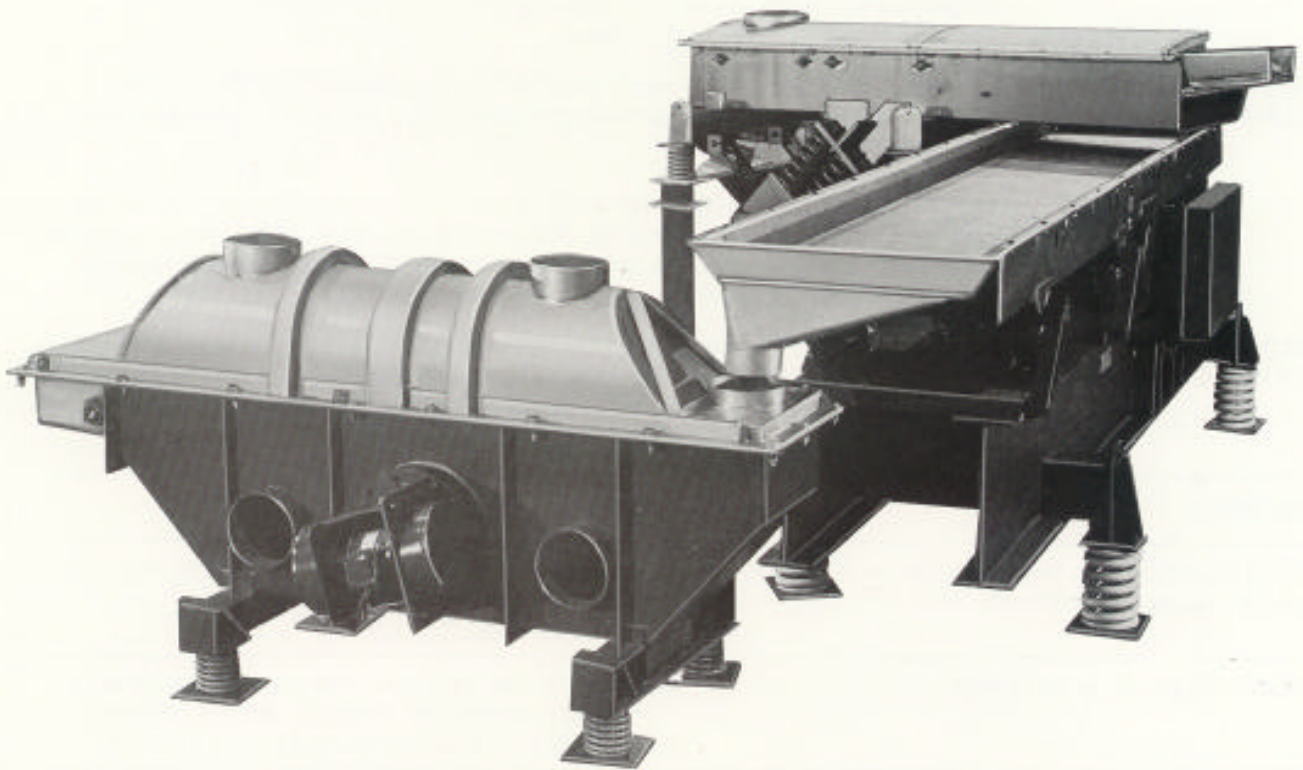


COOLING/DEDUSTING SYSTEM



Carrier

Vibrating Equipment, Inc.

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SUBJECT: GRAPHITE MEDIA COOLING AND DEDUSTING SYSTEM

MODELS: HTFCS-2460F-1/4" (309 s/s) 8'0" BS - 3 HP
 IHT2-3360S-1/4" (309 s/s) 20'0" - 7½ HP
 QAC-2480S-8ga (304 s/s) 10'0" - (2) 1 HP

SYSTEM: 24" wide x 8' long Carrier vibrating feeder, circulating water deck, dimple design, 16 ga. 304 stainless steel jacket, 2' long grizzly section.

3' wide x 20' long Carrier vibrating conveyor, isolated base, 1/4" 309 stainless steel circulating water deck, dimple design, 16 ga 304 s/s jacket.

24" wide x 10' Carrier fluid bed cooler/deduster, stainless steel drilled deck and hood, flexible connections and fan.

Material: coke media (graphite)
 Capacity: 10 TPH
 Bulk Density: 50 pcf
 Temperature: Inlet to cooler: 1800 deg. F.
 to 2200 deg. F. max.

APPLICATION DETAILS: The main objective of the process is to dedust, but above 1250 deg. F. the product ignites and burns, therefore precooling was required to prevent combustion in the deduster.

Feeder is charged by hopper with 1800 deg.F. to 2200 deg.F. material, scalps off all + 1" lumps to side discharge, distributing bulk of material over a bias end discharge to cooling conveyor, which feeds the fluidized bed deduster/cooler interfacing through side discharge to bucket elevator.

REASONS FOR PURCHASE: Customer required an efficient and reliable method of cooling and dedusting this product. They were pleased with the performance of a similar system which Carrier had furnished to the company in another location and specified this equipment.

FEATURES:	BENEFITS:
Natural frequency high temperature designs, multi-functional capabilities.	Scalping, cooling and dedusting while conveying in compact system utilizing low horsepowers.
SCR control package on feeder.	Accepts standard milliamp control signals with no extra equipment required. Allows variation of the speed and thus output from the feeder.
Stainless steel circulating water cooled decks.	Required cooling is accomplished utilizing Glycol and water solution. Resist deterioration from radiation or direct contact with coke media.
Fluidized Bed deduster/cooler hood fabricated in two s/s sections.	Allows for thermal expansion. Dust tight.
Variable weir at discharge end of Model Q.	Accomplishes variation in the process by controlling the bed depth and retention time.
Rubber compression conveyor drive.	Withstands start up under full product load repeatedly, accepts overloads and system upsets, without affecting the drive structure.

