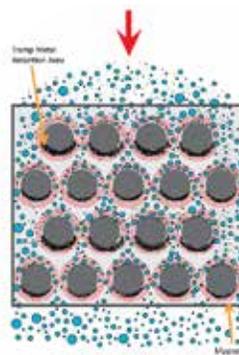
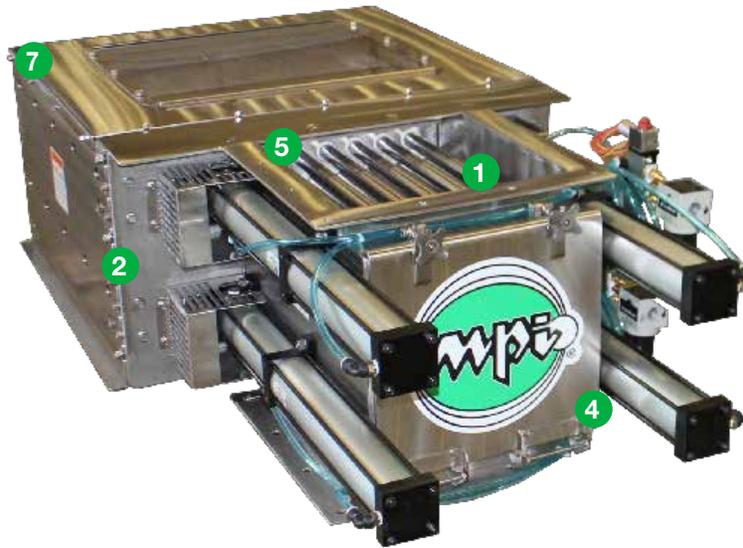




Continuous Self-Cleaning Drawer Magnet

Series: CFDMU-400-SC

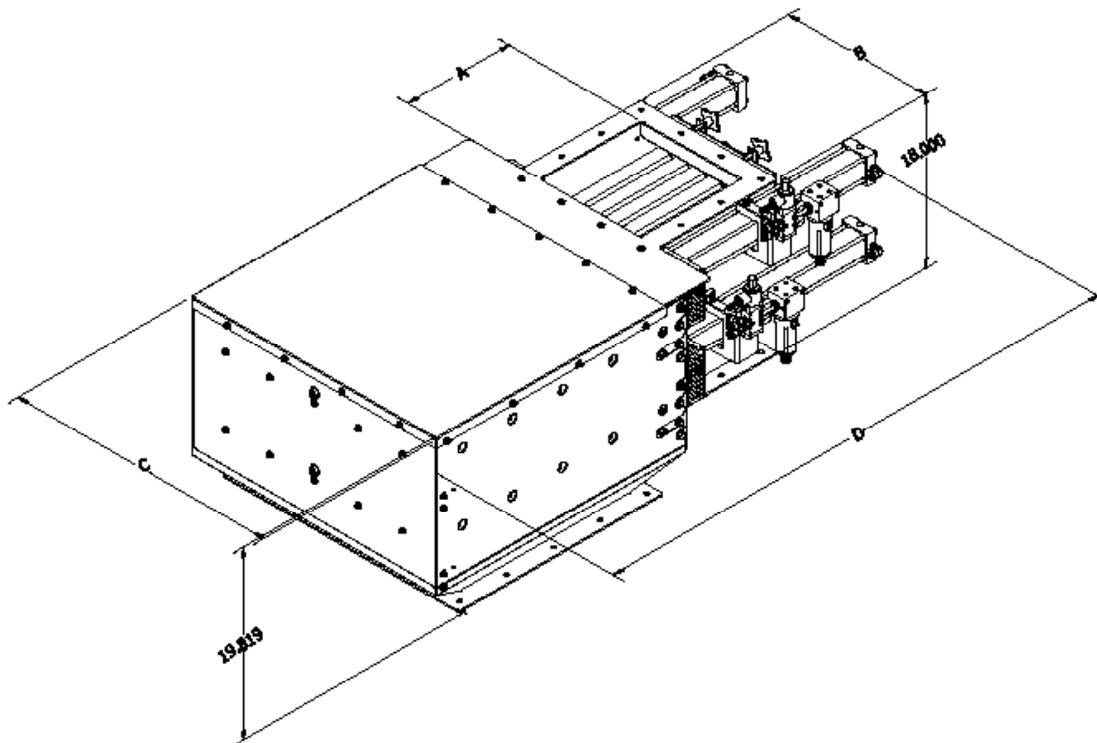


- 1 Magnetic Tubes:**
 - MPI continuous flow drawer magnets feature four tiers of high intensity rare earth magnetic tubes that ensure the highest levels of magnetic filtration through direct product contact on the tubes, removing all ferrous tramp metal from the product stream
- 2 Continuous Flow Design:**
 - Terminating product flow is not required to cycle magnets
 - The four tier design cleans only 2 rows at any time ensuring that the product is still protected while the magnets are cleaning
- 3 Internal Drawer Support:**
 - Provides drawer support when cycling magnet while product is still running so tubes are not cantilevered into the product flow unsupported, which would lead to misalignment
- 4 Extended Drawer Front:**
 - Helps reduce product leakage when cycling magnet with uninterrupted product flow
- 5 Floating Stripper Seal:**
 - Adjusts to tube resulting in even wear and longer life between replacements
 - Held in place by machined and fastened laminated stripper plate assembly
- 6 Rear Access Panel:**
 - For easy inspection and maintenance
- 7 Bolt-On Stainless Steel Safety Cage:**
 - Removable cover for magnet maintenance and testing
 - Multiple options for tramp metal recovery
- Sani-TIGHT Seal™ Gasket:**
 - Type: Compression style "O-ring" cord gasket
 - Sealing plate: 1/2" thick machined stainless plate
 - 100% Positive seal, cannot be over-compressed
 - Sanitary: Gasket can be removed and replaced for wash-down, no adhesive required
- Grounding Strap:**
 - Provides a discharge path for static buildup
- Cleaning Cycle:**
 - Start: After manually or electrically actuating the solenoid, the cylinders retract, pulling the magnetic tubes through the stripper assembly to deposit the collected tramp iron outside of the product flow area
 - Finish: The cylinders return to the run position, pushing the magnetic tubes back through the stripper assembly into the housing (working position)
- Stripper Latch:**
 - Releases stripper plate assembly once the plate has been clearly pulled away from the sealing plate
 - Prevents accidental cleaning of the tubes in the product flow area, commonly caused when the stripper assembly is stuck to the sealing plate

*Specifications subject to change

Series CF-DMU-400-SC Version 4.0 © MPI

MPI



CF-DMU-400-SC Selection Guide

MODEL NUMBER	PRODUCT FLOW OPENING AREA A		FLANGE WIDTH B		OVERALL WIDTH C		OVERALL LENGTH D		# OF TUBES	APPROX. WEIGHT	
	IN ²	CM ²	IN	CM	IN	CM	IN	CM	4-ROW	LBS	KG
CF-DMU408-SC	64	162.56	12.25	31.12	25.2	64.01	49.5	125.73	14	421	191
CF-DMU410-SC	100	254	14.25	36.2	27.2	69.09	53.5	135.89	18	469	212
CF-DMU412-SC	144	365.76	16.25	41.86	29.2	74.15	57.5	146.05	22	517	234
CF-DMU414-SC	196	497.84	18.25	46.46	31.2	79.25	61.5	156.21	26	565	256
CF-DMU416-SC	256	650.24	20.25	51.43	33.2	84.33	65.5	166.37	30	613	278
CF-DMU418-SC	324	822.96	22.25	56.52	35.2	89.41	69.5	176.53	34	661	300
CF-DMU420-SC	400	1016	24.25	61.60	37.2	94.49	73.5	186.69	38	709	321

CF-DMU Selectable Options

Cleaning Method:

- Manual clean [reference datasheet DM]
- Manual quick-clean [reference datasheet DMU-QC]
- Automated self-cleaning [reference datasheet DMU-SC]
- **Continuous automated self-cleaning (standard)**

Number of Tiers of Tubes:

- 200 Series with 2 tiers of tubes
- **400 Series with 4 tiers of tubes (standard)**
- 600 Series with 6 tiers of tubes

Material Construction:

- **304 Stainless Steel (standard)**
- 316 Stainless Steel

Magnetic Tubes [reference datasheet MT]:

- Ceramic
- **REN Rare Earth (standard)**
- Hi-G high performance Rare Earth
- TW Thin Wall high performance Rare Earth

Magnetic Material Temperature:

- 400° @ 3.5 MGO (ceramic)
- **176 F @ 52+ MGOe (rare earth) (standard)**
- 248° @ 48 MGO (rare earth)
- 356° @ 38 MGO (rare earth)
- 662° @ 30 MGO (rare earth)

**Specifications subject to change*

Tube Spacing:

- **2" horizontal and vertical spacing (standard)**
- 3" (approx.) horizontal and vertical for increased flowability (recommended for products that bridge or choke) (adds 2" to OAH)
- 3" (approx.) horizontal only for increased flowability (available for height restrictions only)
- Custom configurations available

Tube Coatings:

- **Stainless steel with no coating (standard)**
- Synergistic Coating
[reference datasheet Synergistic Coating]

Gasket Material:

- **White silicon, FDA approved (standard)**
- Buna, FDA approved
- Metal detectable blue silicon, FDA approved

Stripper Material:

- **UHMW material (standard)**
- Maximum temperature: 180° F
- Hydrex material
 - Higher wear resistance compared to UHMW
 - Higher maximum temperature: 221° F
- Metal detectable Hydrex
- Teflon material
 - Higher wear resistance compared to UHMW
 - Higher maximum temperature: 500° F

Transitions: Stainless steel transitions for easy installation

- **Not included (standard)**
- Inlet, outlet or both, configured as required for installation

Companion Flanges: Matching companion flanges for customer to weld onto existing chute work for easy installation

- **Not included (standard)**
- Stainless steel companion flanges
- Carbon steel companion flanges

Housing Vibrator: Housing mounted vibrators improve product flowability over magnetic tubes

- **Mounting holes only (standard)**
- Pneumatic vibrator - quantity 2

Reed Switches: For position verification of cylinders in open and closed position

- **Not included (standard)**
- Quantity 2 bolt on magnetic reed switch for unit closed confirmation (120VAC/VDC 500MA)
- Quantity 4 bolt on magnetic reed switches for unit open and closed confirmation (120VAC/VDC 500MA)

Valve Packages (Quantity 2):

- **120VAC explosion proof rated (standard)**
- 240VAC explosion proof rated
- 12VDC explosion proof rated
- 24VDC explosion proof rated
- Manual lever to actuate magnet cycle

Safety Cage Design:

- **Safety cage with removable cover for magnet access (standard)**
- Safety cage with hinged cover for easy magnet access
- Safety cage with hinged cover, Lexan viewing window and DESTACO latches for easy magnet access and visual drawer position monitoring

Tramp Metal Collection Method:

- **Open bottom safety cage with MPI standard flange (standard)**
- Removable collection tray (split tray for sizes 16" and larger)
- Bolt on tramp iron collection transition to 4" pipe with sock bead to attach collection pipe or bag

Rack and Pinion System: Large drawers, adhesive and abrasive products can benefit from the added alignment provided by the rack and pinion system. The RP system provides smooth and jam free cleaning of the magnetic tubes ensuring that all magnet tubes travel the exact same distance, at the same time, from left to right, top to bottom, resulting in reduced system wear and improved magnetic tube cleaning.

- **Not included (standard)**
- Included

Visual Position Indicators: Mechanical color coded flags move with drawer and indicate drawer position

- **Not included (standard)**
- Included