



SERVING FOOD PROCESSORS SINCE 1946

# MAGTRAPS

.....

REMOVE UNWANTED FERROUS  
AND WORK-HARDENED STAINLESS  
FROM PROCESSING LINES

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[cescomagnetics.com](http://cescomagnetics.com)



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## WHAT MAGTRAPS DO

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**MAGTRAPs** remove the hazards of unwanted ferrous and work-hardened stainless contaminants from processing lines. They capture the very fine of particles that pass undetected through electronic metal detectors. Placed in front of pumps, screens and mills, they protect vital plant equipment from metal damage, with its costly resultant - downtime. When product purity is paramount, install a MAGTRAP in front of the filler. MAGTRAPs work with virtually all pumped products. Their rare earth magnets catch all sizes of ferrous debris found in product lines. They also capture particles of work-hardened 304 and 316 stainless steels as well as nickel and carbide items that sometimes appear in process lines. MAGTRAPs are available from 1/2" through 6" line sizes.

### TWO MAGTRAP STYLES

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**MAGTRAPs** magnets are either enclosed in tubes (Models 130, 135, 135EC, 170 and Micro Magtrap) or in a flat plate configurations (Models 115, 120 and 125). Tube magnets are used for liquids, purees, and products with smaller (less than 1/2" ) included solids not susceptible to size reduction. Flat plate magnets are for products with fragile included solids (fruit preserves, cooked meat chunks, cottage cheese, etc.), chunks larger than 1/2", long, sinewy items, and products that are hard to pump.

### USEFUL NOTES

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**MAGTRAPs** can be supplied with all types of line connectors. Models 125 and 135 can have dissimilar inlet and outlet line sizes. MAGTRAPs may be mounted in vertical, horizontal or sloped lines without affecting the magnetic efficiency. For complete drainage required by Clean-In-Place (CIP) systems (no sump area), install MAGTRAPs in a vertical line. CESCO would be pleased to provide you with suggestions and information regarding your application. Complete instructions accompany every MAGTRAP.

### GOOD REASONS FOR USING CESCO MAGTRAPs

- .....
- No Electricity
  - No Moving Parts
  - Built to Sanitary Standards
  - Easy to Install
  - Available to 300°F
  - Built to Last
  - Pressures to 200 psi
  - Easy to Clean
  - Clean-In-Place (CIP) Capable
  - Captures Items Smaller than Electronic Metal Detectors Sense



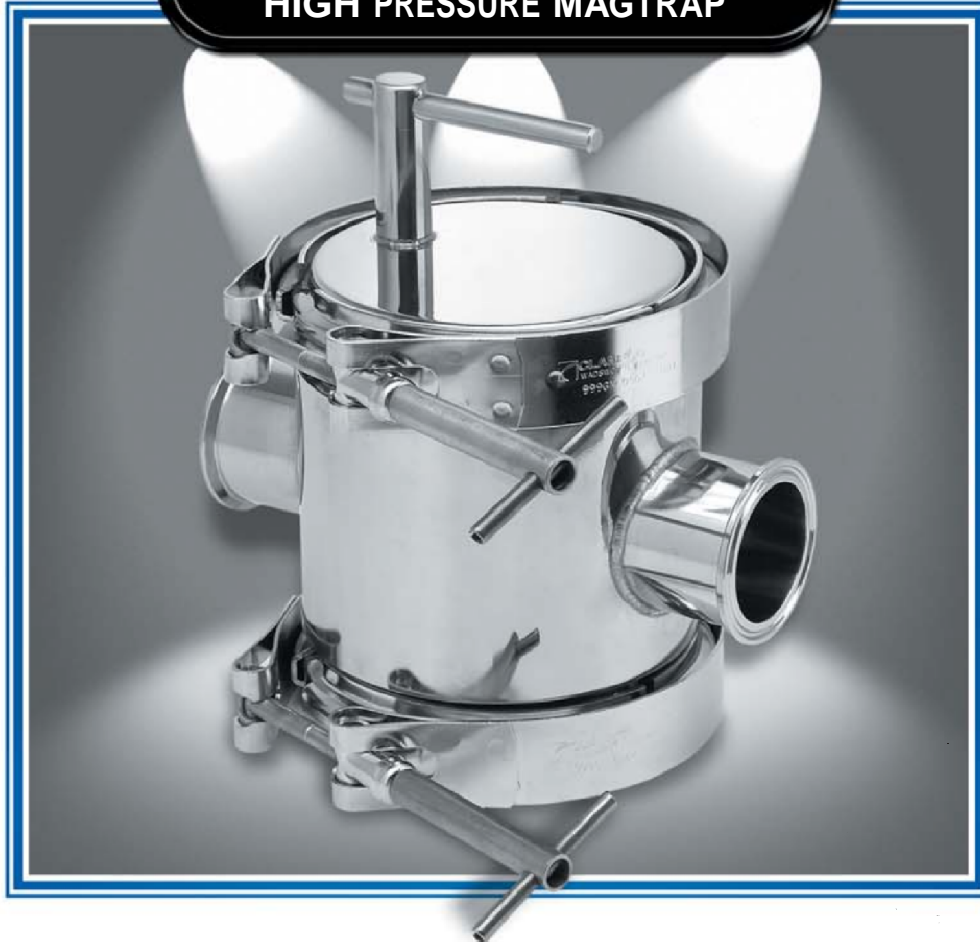
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S E R V I N G   T H E   F O O D   I N D U S T R Y   S I N C E   1 9 4 6

• **MODEL 170** •  
**HIGH PRESSURE MAGTRAP**



**MAGTRAPS REMOVE UNWANTED FERROUS FROM YOUR PRODUCTS**

**High Pressure Magtrap to 750 PSI (53 BAR)**

For removing ferrous, nickel and work-hardened stainless steel from high pressure processing lines. The Model 170 handles oils, liquids and slurries. The magnetic element contains powerful rare earth magnets which capture and hold any unwanted metal as the product passes through them. Units can be used in processing lines with maximum temperatures of 400°F. (204°C.). Please advise us of your maximum temperature to assure receiving the appropriate magnets and O-Rings.

CESCO builds **QUALITY** equipment made to your satisfaction.

CESCO for all your magnetic separator needs.

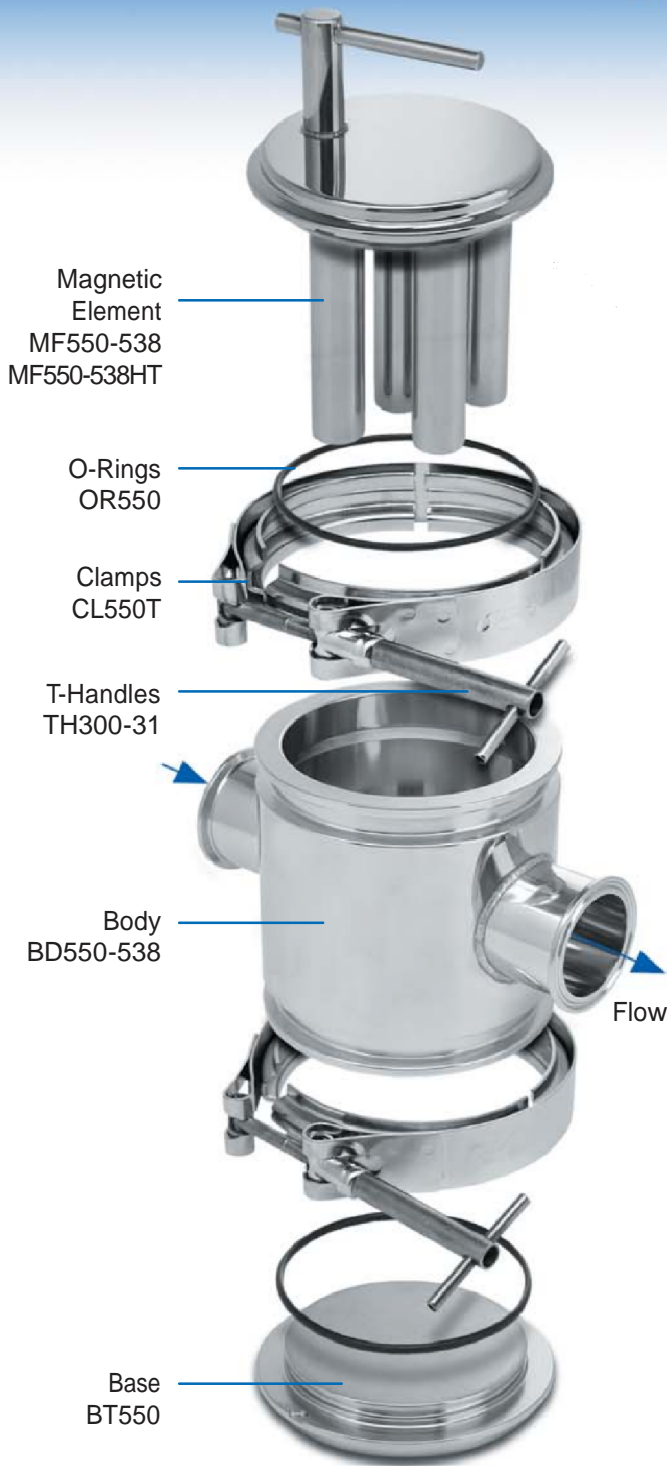
Easy to clean, requiring no electricity, these USDA approved units are ideal for scraped surface heat exchangers and other applications where pressures exceed 200 psi (14 bar). They may be mounted in any position, but mounting in a vertical line allows the unit to fully drain. For applications under 200 psi, consider using CESCO's Models 115, 125, 135, 135 EC and MicroMagtrap.

**MAGTRAP SPECIFICATIONS**

Product contact surfaces are 316 stainless steel except for the Food Grade gaskets. CESCO gaskets are available in several food grade compounds. MAGTRAPS are based on tubing sizes.



# Model 170 High Pressure Magtrap



## HOW TO SIZE A MAGTRAP:

MAGTRAPS are more effective at slower rates of flow. It is easier to extract metal trash through low viscosity products than through higher viscosity products. With this in mind, use TABLE A to select your product's viscosity class (Example: Water is Class 1, Molasses = Class 4), then move to TABLE B. From TABLE B, match your line's viscosity class and maximum pumping capacity with the MAGTRAP's maximum flow rates and select the appropriate line size.

### TABLE A:

Select a class that best matches the most viscous product to be pumped. Remember that temperature and percent of liquid can greatly affect a product's viscosity class.

#### CLASS 1 (1-1000 CPS)

Beverages, clear broths, thin soups, juices, warm jellies, light sauces, thin salad dressings.

#### CLASS 2 (1000-5000 CPS)

Applesauce, pulped fruits and vegetables, syrups, custards, baby foods, cranberries, hot preserves.

#### CLASS 3 (5000 - 50,000 CPS)

Chopped foods, creamed cheese, pumpkin filling, frozen slush, heavy sauces, batters, heavy purees.

#### CLASS 4 (50,000+ CPS)

Cooled products, pet foods, nut butters, minced meat, thick batters and slow flowing products.

**TABLE B** Maximum Flow in Gallons/Minute & (Liters/Minute)  
Maximum Pressure - 750 PSI (53 Bar)

Line Size	Class 1		Class 2		Class 3		Class 4	
	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
1" - 2.5"	75	(284)	53	(199)	30	(114)	15	(57)

### LINE CONNECTIONS (FERRULES):

Tri-Clamp and weld ends are standard. To assure a perfect weld end match, specify your line's outside and inside diameters. Bevel Seat (Acme Thread), International Dairy Fitting (IDF), pipe sizes and threads, John Perry, I-line, Q-line, Camlocks, 150# pipe flanges, connections with captive nuts and various other domestic and European sanitary ferrules are available. Non-similar sizes are available on special order. Inquire regarding other connection options.

### MAGNETS:

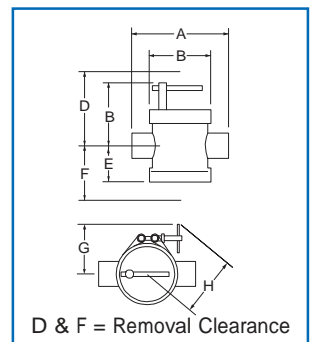
Rare earth magnets capture and hold the very finest of ferrous and nickel particles as well as bits of work hardened 300 series stainless steel and carbide. Standard rare earth magnets operate to a maximum of 210°F. (99°C.) without degrading their strength. By substituting other rare earth magnets the maximum working temperature can be extended to 400°F. (204°C.).

### REPLACEMENT PART NUMBERS:

(on left) When ordering parts, please provide the serial number stamped on the unit.

Line Size	A	B	C	D	E	F	G	H	Net Wt.	Ship Wt.
1" - 2.5"	about 8*	6.1	5.3	10	2.4	3.5	3.7	6.6	26	30
(25) - (63.5)	(203)*	(155)	(135)	(254)	(60)	(90)	(95)	(165)	(12)	(13.6)

Metric values in parenthesis \*Varies with each type of connector



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