

Model 510

- Sizes 8" to 36"
- Iron or carbon steel
- Flanged

Features

- Four baskets per strainer
- Bolted cover
- Straight through flow design
- Compact
- Threaded drain
- Perforated or mesh 316 stainless steel basket
- Low profile for easy basket removal

Options

- Basket perforations from 1/32" to 1/2"
- Basket mesh of 20, 40 or 60
- MONEL® baskets
- Drain valves
- Gauge taps 1/4" NPT
- Basket flange gaskets
- Cover lift davit
- Stainless steel construction
- Magnetic basket inserts
- Pressure differential gauges and switches

MONEL® is a registered trademark of Special Metals Corporation group of Companies.



For large size piping systems with flow rates up to 40,000 GPM (9,000 m³/h)

The Eaton Model 510 simplex strainer is unlike other large size simplex strainers because of its multi-basket design. Four strainer baskets strain the process media and give the strainer an extremely high dirtholding capacity-an important consideration in larger size strainers that, because of their size and design, take longer for basket cleaning or changeout. The longer the strainer stays in service between cleaning, the less expensive its total operating costs.

Reduced pressure loss

To reduce the pressure loss to an absolute minimum, the Model 510 has a straight through flow configuration, made possible by a unique basket design that incorporates a slanted top.

Multi-basket design

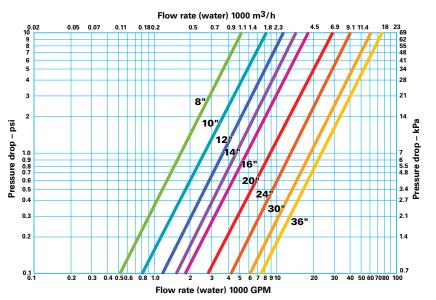
The use of four baskets, rather than one or two, helps to keep operating costs low because the size of each basket can be smaller. This means that cleaning is a one-person job, eliminating the need for additional operators or lifting tackle to pull the baskets out of the strainer housing.

To make this job even faster and easier, the Model 510 has an optional cover lifting davit. The operator can raise the strainer cover and swing it out of the way for access to the strainer baskets. The fourbasket design of the Model 510 provides an additional benefit as well: the centerline to bottom and centerline to top dimensions of the strainer are very short-creating a lowprofile design ideally suited for installation in cramped quarters.

For large size piping systems with high flow rates, the Model 510 offers significant advantages over ordinary large size strainers, advantages that will improve performance and reduce operating costs over the life of the strainer



Model 510 Multi-Basket Strainer



Selection chart

Size	Material	End connections	Gasket	Pressure rating*	
8" to 24"	Iron	Flanged 125#	Non-asbestos	125 psi (8.6 bar)	
30" to 36"	Iron	Flanged 125#	Non-asbestos	70 psi (4.8 bar)	
8" to 24"	Carbon steel	Flanged 150#	Non-asbestos	150 psi (10.3 bar)	
8" to 16"	Carbon steel	Flanged 300#	Non-asbestos	300 psi (20.7 bar)	
* @ 400 % (00 %	201				

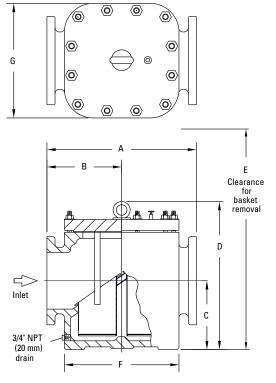
* @ 100 °F (38 °C)

Cv factors*

Size	Value	Size	Value	Size Value
8"	1600	14"	4800	24" 13000
10"	2500	16"	5800	30" 19000
12"	3500	20"	9000	36" 23000*

*For water with clean, perforated basket

Dimensions (in/mm)



Dimensions and weights are for reference only. Contact Eaton for certified drawings.

Pipe size	А	В	С	D	E	F	G	Dry \ Iron	wt (lb / <mark>kg</mark>) Carbon steel
8	23.25 / <mark>59</mark> 1	11.63 / <mark>295</mark>	9.13 / <mark>232</mark>	20.13 / <mark>511</mark>	38 / <mark>965</mark>	18.00 / <mark>457</mark>	18.50 / <mark>470</mark>	547 / 249	547 / <mark>249</mark>
10	26.13 / <mark>664</mark>	13.06 / <mark>332</mark>	11.38 / <mark>289</mark>	23.75 / <mark>603</mark>	44 / 1118	20.25 / <mark>514</mark>	21.00 / <mark>533</mark>	730 / <mark>332</mark>	730 / <mark>332</mark>
12	29.00 / 737	14.50 / <mark>368</mark>	14.63 / <mark>372</mark>	28.38 / 721	52 / <mark>1321</mark>	22.25 / <mark>565</mark>	22.75 / <mark>578</mark>	1080 / <mark>491</mark>	1080 / <mark>491</mark>
14	30.50 / <mark>775</mark>	15.25 / <mark>387</mark>	16.75 / <mark>425</mark>	31.25 / <mark>794</mark>	60 / 1 <mark>524</mark>	24.63 / <mark>626</mark>	25.13 / <mark>638</mark>	1360 / <mark>618</mark>	1360 / <mark>618</mark>
16	33.50 / <mark>85</mark> 1	16.75 / <mark>425</mark>	19.13 / <mark>486</mark>	35.50 / <mark>902</mark>	66 / 1 <mark>676</mark>	27.13 / <mark>689</mark>	27.75 / <mark>705</mark>	1750 / <mark>795</mark>	1750 / <mark>795</mark>
20	44.75 / 1137	22.00 / <mark>559</mark>	28.50 / <mark>724</mark>	46.25 / <mark>1175</mark>	88 / <mark>2235</mark>	32.75 / <mark>832</mark>	34.75 / <mark>883</mark>	3330 / 1 <mark>514</mark>	3330 / <mark>1514</mark>
24	44.38 / 1127	22.19 / <mark>564</mark>	31.50 / <mark>800</mark>	52.25 / <mark>1327</mark>	98 / <mark>2489</mark>	36.63 / <mark>930</mark>	38.50 / <mark>978</mark>	4550 / <mark>2068</mark>	4550 / <mark>2068</mark>
30	61.50 / <mark>1562</mark>	30.75 / <mark>781</mark>	41.63 / 1057	66.50 / <mark>1689</mark>	125 / <mark>3175</mark>	47.50 / 1207	47.50 / 1207	8880 / 4036	8880 / 4036
36	62.00 / 1575	31.00 / 787	41.63 / 1057	66.50 / <mark>1689</mark>	125 / <mark>3175</mark>	47.50 / <mark>1207</mark>	47.50 / <mark>1207</mark>	9700 / <mark>4409</mark>	9700 / 4409

North America 44 Apple Street Tinton Falls, NJ 07724 Toll Free: 800 656-3344 (North America only) Tel: +1 732 212-4700

Europe/Africa/Middle East Auf der Heide 2

53947 Nettersheim, Germany Tel: +49 2486 809-0

Internormen Product Line Friedensstraße 41 68804 Altlußheim, Germany Tel: +49 6205 2094-0

Begerow Product Line An den Nahewiesen 24 55450 Langenlonsheim, Germany Tel: +49 6704 204-0

China No. 3, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 5200-0099

Singapore 4 Loyang Lane #04-01/02 Singapore 508914 Tel: +65 6825-1668

Brazil

Av. Julia Gaioli, 474 – Bonsucesso 07251-500 - Guarulhos, Brazil Tel: +55 11 2465-8822

For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

© 2014 Eaton. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

US EF-SSEA-10 6-2014



