

Series 760 Crossflow Scrubbers

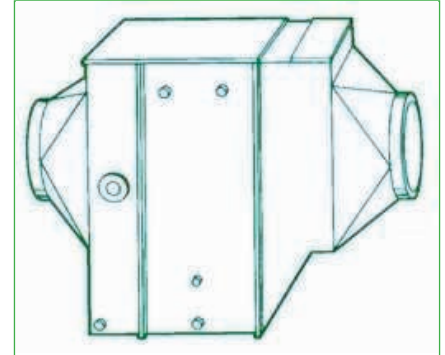
Series 760 Crossflow Scrubbers

The Maskell Series 760 Crossflow Scrubber is a versatile unit, specifically designed to remove mists, gases and particulate.

The gas stream enters the scrubber horizontally and at right angles to the packed bed. A spray header located at the inlet initiates the gas/liquid contact and provides irrigation to the front of the packed bed. Additional spray headers located at the top of the bed provide complete irrigation and wetting of the packing.

As the gas passes through the packing, entrained mists and particulate impinge on both the packing and liquid droplets and are rinsed from the bed. Simultaneously, soluble gas contaminants, i.e. HCl, H₂S, Cl₂, are absorbed. The type of gas and the desired removal efficiency will determine the bed depth, irrigation rate, and chemical requirement.

Once scrubbed, the gas then passes through a mist eliminator (Mist Eliminator Blades or Mesh Pad) to remove any entrained droplets. The gas is then exhausted to atmosphere.



Series 760 Applications

Maskell Series 760 Crossflow Scrubbers are ideally suited for service in a wide variety of applications in industries such as chemical, pulp & paper, steel & metal finishing, fertiliser and pharmaceutical. In addition, the Series 760 Crossflow scrubber has also been used successfully for the control of odours generated in water and waste water treatment and laboratory exhausts.

The Series 760 Crossflow Scrubbers are effective for the removal of corrosive and/or noxious fumes, and particulate matter (moderate loadings) 5-7 microns and larger.

Series 760 Features

Principal features of the Series 760 Crossflow Scrubber are:

High efficiency - Proper sizing of the unit and selection of packing depth and irrigation rate can result in efficiencies of 99% or better. While a standard unit contains a three foot deep bed of packing, each unit is custom designed to the specific requirements of each individual application.

Low operating cost - In addition to its improved solids handling capacity, the crossflow design also results in reduced static pressure losses; approximately 20% less than a comparably sized countercurrent unit. In addition, the crossflow design allows lower irrigation rates, thus both water and power consumption are reduced.

Compact design - The Series 760 Crossflow Scrubber is a compact unit frequently used where space, particularly headroom, is limited or where a low profile (for aesthetic reasons) is preferred.

Non-clogging - Since the gas stream and the irrigating liquid do not directly oppose one another as in a countercurrent scrubber, the Series 760 Crossflow Scrubber tends not to clog even while handling moderate particulate loads.

Versatile - The Series 760 Crossflow Scrubber is designed to handle a wide variety of applications. The crossflow mode permits units to be easily staged in series to achieve maximum efficiencies on the most difficult applications.

Extended service life - Corrosion resistant materials of construction, FRP (fibreglass reinforced plastic) is standard, provides a long service life in highly corrosive service conditions with a minimum of maintenance.



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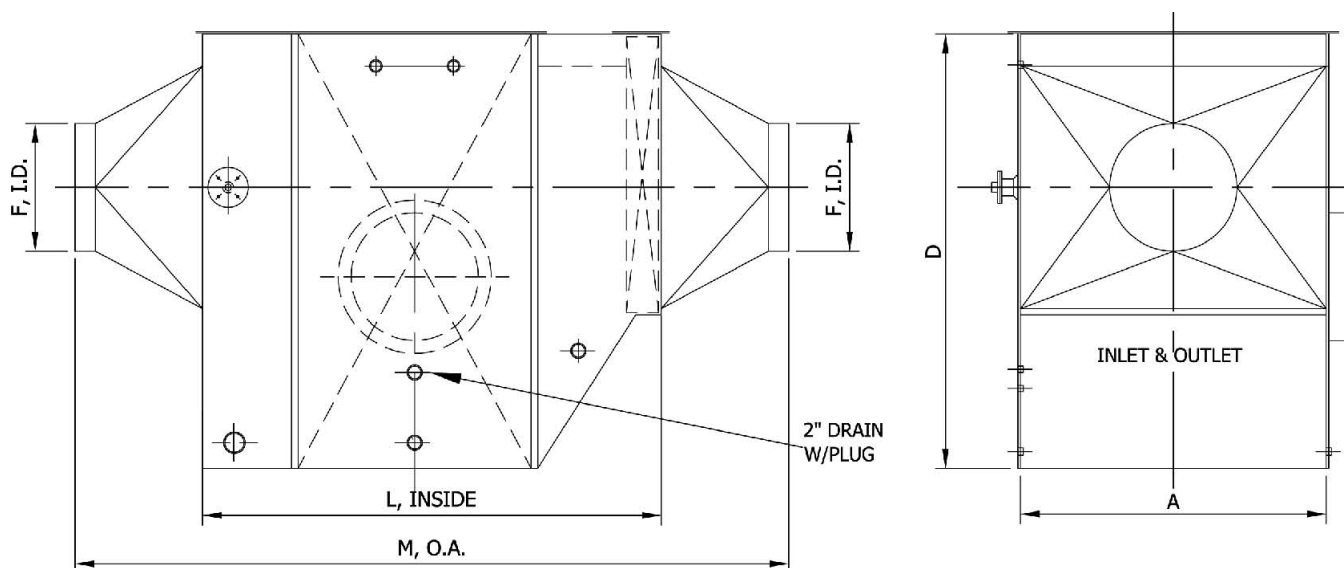
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Series 760 Equipment Selection

The key factors in selecting the right crossflow scrubber for a specific application are gas volume to be ventilated, type of contaminant(s) present, quantity of specific contaminants, and the required efficiency.

Maskell's engineers will gladly assist in the selection of a crossflow scrubber, as well as sizing and selection of accessory items, such as pumps, fans, etc. to make a complete scrubber system.

Maskell's engineers will then provide a specific quotation on the appropriate scrubber and/or system.



Size	A	D	F	L	M	Gas Flow	Liquid Rate
						m ³ / hour	litre / min
760-10	1200	1200	400	1800	2500	8500	91
760-15	1200	1700	500	1800	2800	12750	136
760-20	1800	1500	600	1800	2800	17000	182
760-25	1800	1800	600	1800	2800	21250	227
760-30	1800	2000	600	1800	2800	25500	273
760-35	1800	2300	750	1800	2800	29750	318
760-40	2400	2000	750	1850	3500	34000	363
760-45	2400	2200	900	1850	3500	39100	409
760-50	2400	2400	900	1850	3500	45900	454
760-60	2400	2800	1050	1850	3500	54400	681
760-70	2400	3200	1200	1850	3900	62900	795
760-80	2400	3700	1200	1850	3900	71400	908
760-90	3000	3300	1350	2100	4200	79900	1022
760-100	3000	3600	1350	2100	4700	89250	1136
760-110	3600	3400	1500	2100	4700	102000	1249
760-130	3600	3800	1500	2100	4700	115600	1363

Important - The data and information represented herein refers to typical values by the methods or apparatus indicated and should be so considered. Since processing variables are a major factor in product performance, this information should serve only as a guide. Any information presented herein should not be assumed to be free of patent coverage nor taken as an inducement or encouragement to infringe if patents exist claiming the methods, apparatus or products herein described. No warranty, therefore, is thereby given concerning the existence or non-existence of any patents claiming any pertinent subject matter presented herein. The company assumes no obligation, express or implied, or liability for use of the information and data presented.



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