

Series 730 Countercurrent Packed Scrubbers

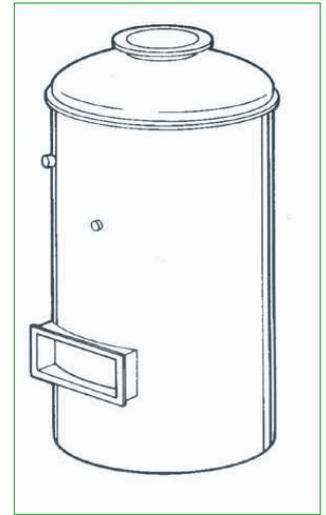
Series 730 Countercurrent Scrubbers

The Maskell Series 730 Countercurrent Scrubber is specifically designed to efficiently remove corrosive, noxious and/or nuisance gases from process or ventilation air streams.

The air stream entering the scrubber is first contacted by the scrubbing solution as it drains from the packed bed to the integral sump below. A spray header located above the packing properly distributes the scrubbing solution across the top of the packing. The air stream then moves upward through the packed bed countercurrently to downward flowing liquid. Travelling a torturous route through the packing extends the contact time between air and liquid, as well as increasing the intimacy of gas/liquid contact.

The type of gas and the desired removal efficiency will determine the bed depth, packing size, irrigation rate and chemical requirement.

The gas then passes through the liquid spray above the packing. Prior to leaving the scrubber, the scrubbed air passes through a mist eliminator (Mist Eliminator Blades or Mesh Pad) to remove entrained droplets.



Series 730 Applications

Maskell Series 730 Countercurrent 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 730 Countercurrent Scrubber has been used successfully for the control of odours generated in water and waste water treatment, laboratory exhausts, heat transfer, and degasifying.

The Series 730 Countercurrent Scrubbers are effective for the removal of corrosive and/or noxious fumes, and mists (5-7 microns and larger) from a gas stream.



Series 730 Features

Principal features of the Series 730 Countercurrent Scrubber are:

High efficiency - Proper sizing of the unit, selection of packing and packing depth, irrigation rate, and chemical feed can result in efficiencies of 99% or better. Units are custom designed to the specific requirements of each individual application.

Low initial cost - Pre-engineered standard designs are available from 700 m³/hr to 110,000 m³/hr.

Low operating cost - The static pressure drop at the rated capacity is less than 100mm W.G. for the standard 1.6m deep bed. In addition, scrubbing solutions can be recirculated using the integral pump. This reduces fresh water and chemical consumption and eliminates the need for extra tankage for the scrubber solution.

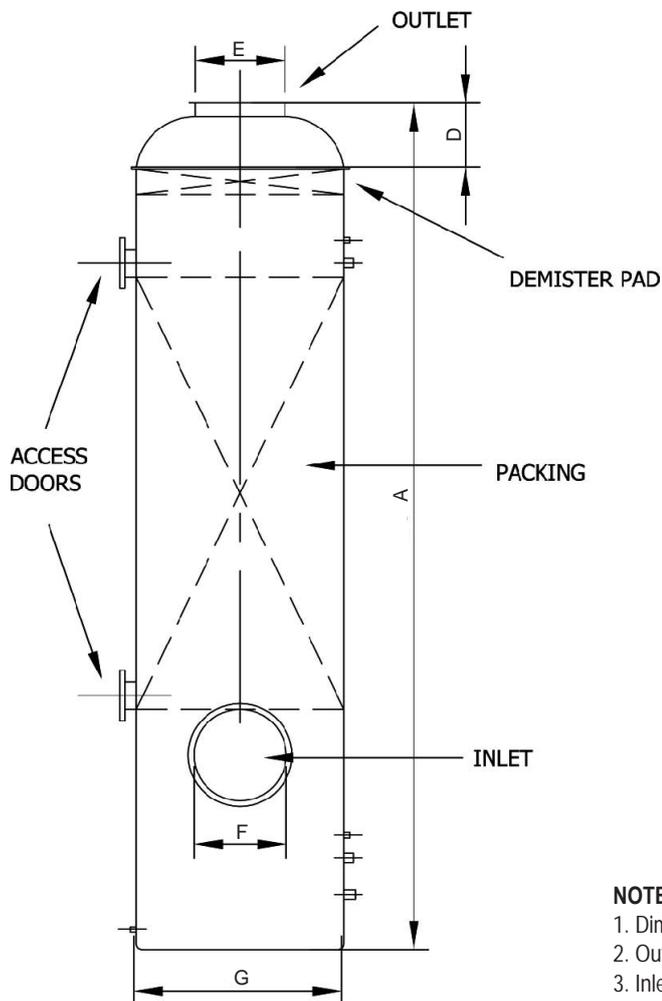
Versatile - The Series 730 Countercurrent Scrubber is designed to handle a wide variety of applications from removal of acid gases to degasifying a contaminate liquid. Units can be staged in series to achieve maximum efficiencies even on the most difficult applications.

Extended service life - The Series 730 Countercurrent Scrubber has been designed with maximum corrosion resistance as a primary consideration. The wide selection of corrosion resistant materials feature FRP (fibreglass reinforced plastic) as a standard material with stainless steel and other alloy construction available.

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Series 730 Equipment Selection

The key factors in selecting the right countercurrent scrubber for a given application are gas volume to be ventilated, type of contaminant(s) present, quantity of contaminant present, and the required removal efficiency. Maskell's engineers will gladly assist in the selection of a countercurrent scrubber, as well as sizing and selection of accessory items, such as pumps, fans and chemical feed systems. to make a complete scrubber system. Maskell's engineers will then provide a specific quotation on the appropriate scrubber and/or system.



NOTE:

1. Dimensions are nominal and are based on 1600mm packed bed.
2. Outlet configurations shown are standard. Dished heads are available in all sizes.
3. Inlets for 730- 4 to 12 are rectangular.

Size	m ³ / hour	litre / min	A	D	E	F	G
	680	19	3250	150	150	150	300
730-1.5	1700	42	3300	180	250	188	450
730-2	2890	72	3400	230	300	225	600
730-2.5	4420	114	3550	250	350	263	750
730-3	6290	163	3700	280	400	325	900
730-4	11050	284	4000	580	500	-	1200
730-5	17000	454	4100	640	610	-	1500
730-6	25500	644	4500	860	750	-	1800
730-7	34000	871	4550	790	900	-	2000
730-8	42500	1136	4600	860	1050	-	2500
730-9	57800	1438	4600	860	1050	-	2700
730-10	71400	1817	5050	1250	1200	-	3000
730-11	85000	2271	5100	1150	1400	-	3500
730-12	110500	2725	5000	1100	1500	-	3700

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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