De Dietrich
PROCESS SYSTEMS

THE ROMAN FILTER
MANUAL NUTSCHE

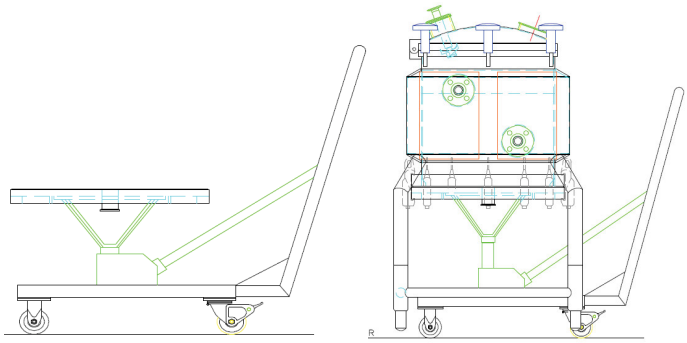
ROSENMUND

Product Description

The ROMAN (Rosenmund Manual Nutsche) Filter is a simple, manually operated nutsche filter with the pedigree you know and expect from the Rosenmund brand name. It is quality process equipment with the same attention to detail, but in the simplest form demanded by your operational needs and budget.

FEATURES

- Robust design for 24/7 operation - Whether at full vacuum, high pressure or both, the filter plate is designed to withstand pressure above the filter plate and full vacuum below, thus allowing a greater differential - that is what the ROMAN is all about!
- Pharmaceutical design - It is completely suitable for CIP and WIP with no crevices or product hold-up areas. All metal surfaces are of a high polish finish - 10 to 20 Ra internal, 20 to 30 Ra external.
- Campaign friendly - The ROMAN is designed for quick turnaround between campaigns, with its key focus on cleaning and filter media change-out.
- Qualification friendly - A dual flange design (positioned top and bottom) allows quick and complete access for visual and physical inspection, (i.e. swab inspection).



The ROMAN Filter has a unique cart assembly used for lowering the filter plate. In addition, only one cart assembly is needed for all ROMAN Filter sizes, minimizing required storage.

SPECIFICATIONS

Size Range

	Filtration Area		Diameter		Volume	
Model Number	(m^2)	(ft^2)	(mm)	(in)	(Liters)	(Gallons)
Model 12-30L	0.07	0.8	305	12	30	7.9
Model 18-70L	0.16	1.8	457	18	70	18.5
Model 24-125L	0.29	3.1	610	24	125	33
Model 32-225L	0.52	5.6	813	32	225	59.4

Note: Back layout can be altered based on data size, type, content, etc.

Nozzle Schedule

Noz	Description	Size (in)	Rating	Type
A	Sight glass (top head)	4	ASME	Tri-clamp
B	Pressure gauge (top head)	1-1 1/2	ASME	Tri-clamp
C	Product inlet (top head)	2	ASME	Tri-clamp
D	Nitrogen pressure (top head)	1	ASME	Tri-clamp
E	Spray disc (top head)	3 x 1	ASME	Tri-clamp
F	Vent (top head)	2	ASME	Tri-clamp
G	Filtrate outlet (filter base)	1-1/2	ASME	Tri-clamp
H	Heating inlet (side wall)	1	150#	RFSO
J	Heating outlet (side wall)	1	150#	RFSO

Mechanical Specifications

	Process/Shell	Jacket
Design Pressure (psig)	50 / FV	100 / FV
Design Temperature (°F)	-20 to 250	-20 to 250
Corrosion Allowance	None	None
Joint Efficiency	0.7	0.7
Internal Finish	15-20 Ra	
External Finish		20-30 Ra

De Dietrich Process Systems, Inc.

244 Sheffield Street
Mountainside, NJ 07092

P 908.317.2585
F 908.889.4960

www.ddpsinc.com
sales@ddpsinc.com

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