

Compact Ejectors SEM-C

Suction rate from 338 l/min to 673 l/min



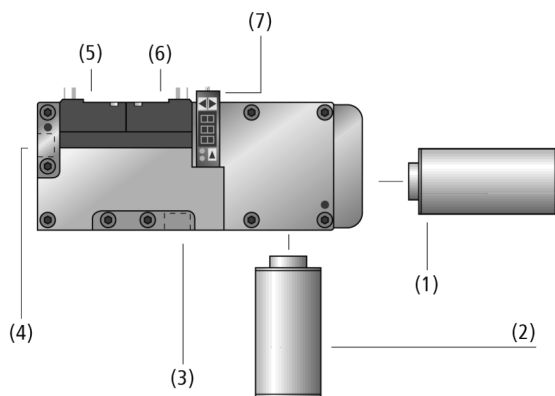
Suitability for industry specific applications

Application

- Compact ejector with integrated valve technology and system monitoring for handling of cardboard, packing materials, insulating materials and other porous items



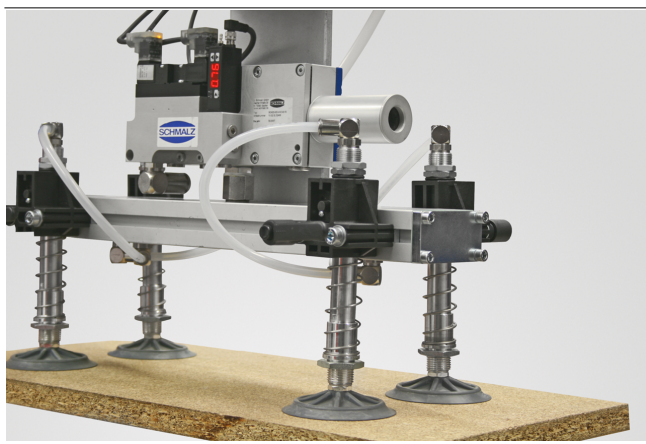
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Design

- Nozzle system made of aluminum
- Gaskets and valve flaps made of NBR
- Silencer can be mounted axially (1) or on the side (2)
- Functional mounting plate with suction valve (5) (NO or NC) and blow off valve NC (6)
- Optional vacuum switch (7)
- Vacuum connection (3), compressed air connection (4)

System design Compact Ejectors SEM-C



Central vacuum generation by compact ejectors SEM-C when handling chipboards

Product highlights

- Ejector family with very high suction rate ideal for porous materials
- Multi-stage ejector nozzle optimized for fast evacuation in the lower vacuum range and shortest cycle time
- Compact unit with integrated control valves and vacuum switch
- Air saving function (optional) reduces energy consumption for airtight parts

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Designation code Compact Ejectors SEM-C

SEM-C	–	25	–	SDA	–	NO	–	AS	–	VD
1		2		3		4		5		6

1 – Abbreviated designation

Code	Version
SEM-C	SEM-C

2 – Size

Code	Type
25...100	25 to 100

3 – Variant

Code	Type
SDA	Silencer

4 – Idle position suction valve

Code	Type
NC	Normally closed
NO	Normally open

5 – Blow off and safety non-return valve

Code	Blow off and safety non-return valve
AS	Blow off and safety non-return valve

6 – System monitoring

Code	Type
VD	Digital vacuum switch

Compact ejector SEM-C is delivered as a ready-to-connect product (without connection cable).

Available spare parts: silencer

Available accessories: connection cable, distributor

Ordering data Compact Ejectors SEM-C

Type	Part no.
SEM-C 25 SDA NC AS	10.02.02.03203
SEM-C 25 SDA NO AS	10.02.02.03204
SEM-C 25 SDA NC AS VD	10.02.02.03205
SEM-C 25 SDA NO AS VD	10.02.02.03206
SEM-C 50 SDA NC AS	10.02.02.03207
SEM-C 50 SDA NO AS	10.02.02.02966
SEM-C 50 SDA NC AS VD	10.02.02.03208
SEM-C 50 SDA NO AS VD	10.02.02.03057
SEM-C 100 SDA NC AS	10.02.02.03215
SEM-C 100 SDA NO AS	10.02.02.03209
SEM-C 100 SDA NC AS VD	10.02.02.03210
SEM-C 100 SDA NO AS VD	10.02.02.03211

Ordering data Spare parts Compact Ejectors SEM-C

Type*	Spare parts		Part no.
SEM-C 25 SDA NC AS	Silencer (round)	SD G1/2-AG 40x80 SEM	10.02.01.00309
SEM-C 25 SDA NO AS	Silencer (round)	SD G1/2-AG 40x80 SEM	10.02.01.00309
SEM-C 25 SDA NC AS VD	Silencer (round)	SD G1/2-AG 40x80 SEM	10.02.01.00309
SEM-C 25 SDA NO AS VD	Silencer (round)	SD G1/2-AG 40x80 SEM	10.02.01.00309
SEM-C 50 SDA NC AS	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 50 SDA NO AS	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 50 SDA NC AS VD	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 50 SDA NO AS VD	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 100 SDA NC AS	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 100 SDA NO AS	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 100 SDA NC AS VD	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312
SEM-C 100 SDA NO AS VD	Silencer (round)	SD G3/4-AG 50x120 SEM	10.02.01.00312

*The silencers can be mounted axially or on the side, as desired

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Ordering data Accessories Compact Ejectors SEM-C

Type	Connection cable for solenoid valves (5 m, PVC)	Connection cable, M8 4-pole, 5 m, PUR, straight	Connection cable, M8 4-pole, 5 m, PUR, 90°	Distributor for air saving function
SEM-C 25 SDA NC AS	21.04.06.00084	-	-	-
SEM-C 25 SDA NO AS	21.04.06.00084	-	-	-
SEM-C 25 SDA NC AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01287
SEM-C 25 SDA NO AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01291
SEM-C 50 SDA NC AS	21.04.06.00084	-	-	-
SEM-C 50 SDA NO AS	21.04.06.00084	-	-	-
SEM-C 50 SDA NC AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01287
SEM-C 50 SDA NO AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01291
SEM-C 100 SDA NC AS	21.04.06.00084	-	-	-
SEM-C 100 SDA NO AS	21.04.06.00084	-	-	-
SEM-C 100 SDA NC AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01287
SEM-C 100 SDA NO AS VD	21.04.06.00084	10.06.02.00031	10.06.02.00032	10.02.02.01291

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Technical data Compact Ejectors SEM-C

Type	Degree of evacuation [%]	Suction rate (max.) [l/min]	Suction rate (max.) [m³/h]	Air consumption suction [l/min]*	Air consumption suction [m³/h]**	Sound pressure level free [dB(A)]
SEM-C 25 SDA NC AS	87	338	20.2	100	6.0	80
SEM-C 25 SDA NO AS	87	338	20.2	100	6.0	80
SEM-C 25 SDA NC AS VD	87	338	20.2	100	6.0	80
SEM-C 25 SDA NO AS VD	87	338	20.2	100	6.0	80
SEM-C 50 SDA NC AS	86	554	33.2	190	11.4	84
SEM-C 50 SDA NO AS	86	554	33.2	190	11.4	84
SEM-C 50 SDA NC AS VD	86	554	33.2	190	11.4	84
SEM-C 50 SDA NO AS VD	86	554	33.2	190	11.4	84
SEM-C 100 SDA NC AS	81	673	40.3	246	14.8	83
SEM-C 100 SDA NO AS	81	673	40.3	246	14.8	83
SEM-C 100 SDA NC AS VD	81	673	40.3	246	14.8	83
SEM-C 100 SDA NO AS VD	81	673	40.3	246	14.8	83

*At optimal operating pressure

**At optimal operating pressure

Type	Optimal operating pressure [bar]	Sound pressure level suction [dB(A)]	Recommended hose internal diameter compressed air [mm]*	Recommended hose internal diameter vacuum [mm]**	Weight [kg]	Operating temperature [°C]
SEM-C 25 SDA NC AS	5	70	4	20	1.6	0 ... 50 °C
SEM-C 25 SDA NO AS	5	70	4	20	1.6	0 ... 50 °C
SEM-C 25 SDA NC AS VD	5	70	4	20	1.7	0 ... 50 °C
SEM-C 25 SDA NO AS VD	5	70	4	20	1.7	0 ... 50 °C
SEM-C 50 SDA NC AS	5	60	6	25	1.9	0 ... 50 °C
SEM-C 50 SDA NO AS	5	60	6	25	1.9	0 ... 50 °C
SEM-C 50 SDA NC AS VD	5	60	6	25	2.0	0 ... 50 °C
SEM-C 50 SDA NO AS VD	5	60	6	25	2.0	0 ... 50 °C
SEM-C 100 SDA NC AS	5	63	6	32	2.2	0 ... 50 °C
SEM-C 100 SDA NO AS	5	63	6	32	2.2	0 ... 50 °C
SEM-C 100 SDA NC AS VD	5	63	6	32	2.2	0 ... 50 °C
SEM-C 100 SDA NO AS VD	5	63	6	32	2.2	0 ... 50 °C

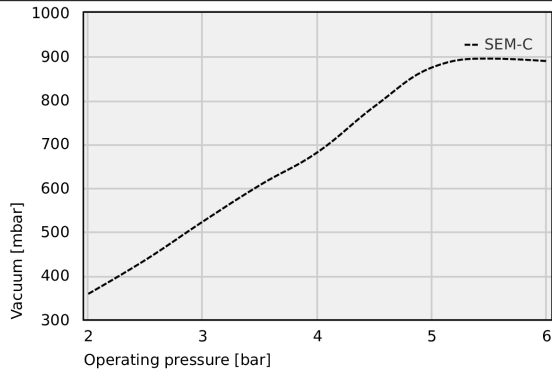
*For max. length 2 m

**For max. length 2 m

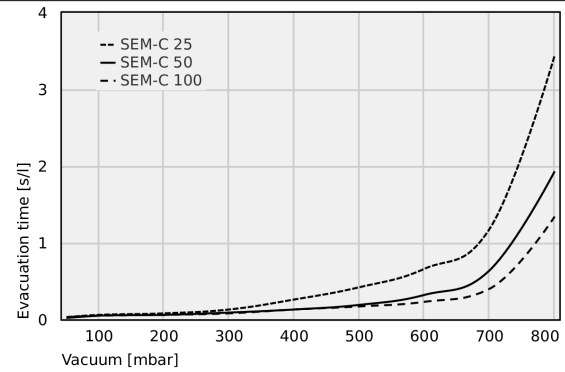
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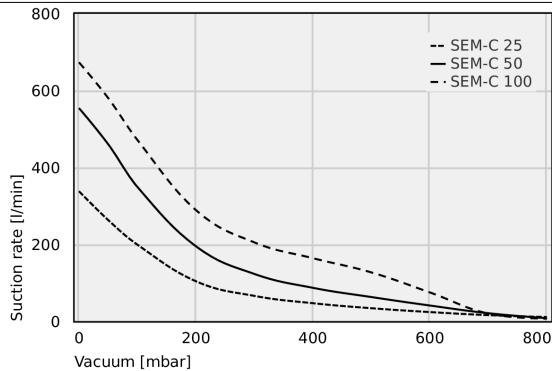
Performance data Compact Ejectors SEM-C



Achievable vacuum at various operating pressures



Evacuation time for various vacuum ranges [s/l]



Suction rate at various degrees of evacuation [l/min]

Achievable vacuum at various operating pressures

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
SEM-C	358.46	436.12	523.46	606.88	681.59	786.74	874.91	894.79	889.12

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Evacuation time for various vacuum ranges [s/l]

	50	100	200	300	400	500	600	700	800
SEM-C 25	0.03	0.06	0.08	0.13	0.26	0.42	0.66	1.18	3.44
SEM-C 50	0.02	0.05	0.06	0.09	0.13	0.19	0.32	0.64	1.93
SEM-C 100	0.03	0.05	0.06	0.08	0.13	0.17	0.23	0.40	1.34

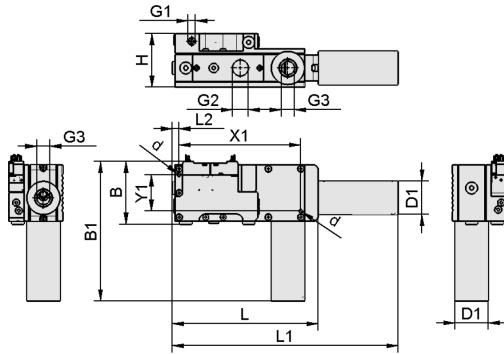
Suction rate at various degrees of evacuation [l/min]

	0	50	100	200	300	400	500	600	700	800
SEM-C 25	338.00	263.00	199.00	104.00	66.00	47.00	34.00	24.00	16.00	11.00
SEM-C 50	554.00	460.00	349.00	195.00	123.00	87.00	63.00	41.00	21.00	8.00
SEM-C 100	673.00	580.00	471.00	289.00	205.00	164.00	127.00	75.00	20.00	7.00

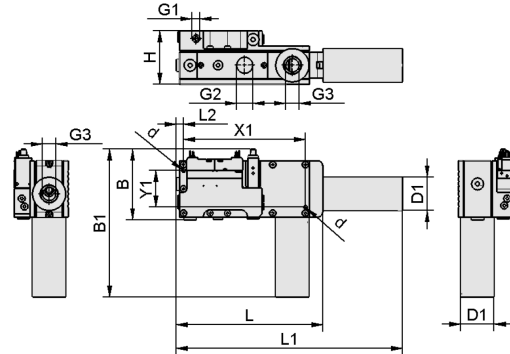
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Design data Compact Ejectors SEM-C



SEM-C SD NO/NC AS



SEM-C SD NO/NC AS VD

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Design data Compact Ejectors SEM-C

Type	B [mm]	B1 [mm]	d [mm]	D1 [mm]	G1	G2	G3	H [mm]	L [mm]	L1 [mm]	L2 [mm]	X1 [mm]	Y1 [mm]
SEM-C 25 SDA NC AS	95	170	5.5	40	G1/4"-F	G1/2"-F	G1/2"-F	70	200	280	11	183	55
SEM-C 25 SDA NO AS	95	170	5.5	40	G1/4"-F	G1/2"-F	G1/2"-F	70	200	280	11	183	55
SEM-C 25 SDA NC AS VD	117	192	5.5	40	G1/4"-F	G1/2"-F	G1/2"-F	70	200	280	11	183	55
SEM-C 25 SDA NO AS VD	117	192	5.5	40	G1/4"-F	G1/2"-F	G1/2"-F	70	200	280	11	183	55
SEM-C 50 SDA NC AS	95	210	5.5	50	G1/4"-F	G3/4"-F	G3/4"-F	80	220	340	11	183	55
SEM-C 50 SDA NO AS	95	210	5.5	50	G1/4"-F	G3/4"-F	G3/4"-F	80	220	340	11	183	55
SEM-C 50 SDA NC AS VD	117	232	5.5	50	G1/4"-F	G3/4"-F	G3/4"-F	80	220	340	11	183	55
SEM-C 50 SDA NO AS VD	117	232	5.5	50	G1/4"-F	G3/4"-F	G3/4"-F	80	220	340	11	183	55
SEM-C 100 SDA NC AS	95	210	5.5	50	G1/4"-F	G1"-F	G3/4"-F	90	220	340	11	183	55
SEM-C 100 SDA NO AS	95	210	5.5	50	G1/4"-F	G1"-F	G3/4"-F	90	220	340	11	183	55
SEM-C 100 SDA NC AS VD	117	232	5.5	50	G1/4"-F	G1"-F	G3/4"-F	90	220	340	11	183	55
SEM-C 100 SDA NO AS VD	117	232	5.5	50	G1/4"-F	G1"-F	G3/4"-F	90	220	340	11	183	55

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/147436675>