

Light Duty Line Vac™

An effective way to convey small volumes of material over short distances!

What Is The Light Duty Line Vac?

EXAIR's Light Duty Line Vac is the ideal way to convey small volumes of materials over short distances. Like the Line Vac shown on page 161, the Light Duty Line Vac converts an ordinary hose or tube into a conveyor for scrap, trim and bulk materials.

Why The Light Duty Line Vac?

When lower throughputs at short distances are desired, the Light Duty Line Vac is a good choice. This simplified design utilizes a two-part threaded construction to provide effective conveying at a lower cost. Air consumption is reduced to a volume appropriate for moving small volumes of material at short distances. Conveying rates are easy to control by regulating the compressed air supply pressure.

The Light Duty Line Vac features inlet and outlet diameters common to hose and tube sizes. Eight sizes for diameters from 3/4" to 6" (19 to 152mm) are available. Standard construction is aluminum. (For corrosion resistant stainless steel models that are suitable for high temperature and food service, please see Line Vac models on page 166.) No moving parts or electricity assures maintenance free operation. (If higher conveying rates or mounting brackets are desired, see the Line Vac models on page 166.)



The low cost Model 130200 2" (51mm) Light Duty Line Vac conveys fibers to fill pillows, stuffed animals, diapers, etc.



A Model 130125 1-1/4" (32mm) Light Duty Line Vac can fill or empty the packing peanuts from shipping cartons.

Applications

- Hopper loading
- Fiber tensioning
- Material conveying
- Waste/trim removal
- Chip removal
- Part transfer
- Filling operations

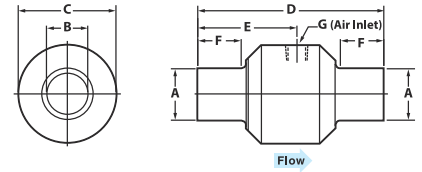
Advantages

- Compact
- Quiet
- No moving parts
- Fits standard hose or tube
- Aluminum
- Eight sizes
- Moderate throughput capability



Light Duty Line Vac

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Light Duty Line Vac Dimensions								
Model #		A	B	C	D	E	F	G
130075	in	0.75	0.50	1.88	4.53	2.31	1.06	1/4 NPT
	mm	19	13	48	115	59	27	
130100	in	1	0.75	2.13	4.53	2.41	1.06	1/4 NPT
	mm	25	19	54	115	61	27	
130125	in	1.25	1	2.38	4.53	2.41	1.06	1/4 NPT
	mm	32	25	60	115	61	27	
130150	in	1.50	1.25	2.75	4.63	2.41	1.06	3/8 NPT
	mm	38	32	70	117	61	27	
130200	in	2	1.75	3.25	4.66	2.47	1.06	3/8 NPT
	mm	51	45	83	118	63	27	
130300	in	3	2.75	4.25	5.06	2.75	1.06	3/8 NPT
	mm	76	70	108	129	70	27	
130400	in	4	3.75	5.25	5.06	2.75	1.06	1/2 NPT
	mm	102	95	133	129	70	27	
130600	in	6	5.75	7.38	5.56	2.88	1.06	1/2 NPT
	mm	152	146	187	141	73	27	

Light Duty Performance

80 PSIG (5.5 BAR)		Air Consumption	
Model #	SCFM	SLPM	
130075	7.30	207	
130100	10.70	303	
130125	14.70	501	
130150	20	566	
130200	27.50	778	
130300	45	1,274	
130400	58.50	1,656	
130600	80.20	2,270	



Light Duty Line Vacs are available in eight sizes for diameters from 3/4" to 6" (19 to 152mm).



Kits include a Light Duty Line Vac, filter separator and pressure regulator (with coupler).

Light Duty Line Vac Systems

Light Duty Line Vac Models		
Light Duty Line Vac Only Light Duty Line Vac Kits - include the Light Duty Line Vac, filter separator and pressure regulator (with coupler).		
Inlet/Outlet Diameter	Light Duty Line Vac Only Model	Light Duty Line Vac Kit Model
3/4" (19mm)	130075	132075
1" (25mm)	130100	132100
1-1/4" (32mm)	130125	132125
1-1/2" (38mm)	130150	132150
2" (51mm)	130200	132200
3" (76mm)	130300	132300
4" (102mm)	130400	132400
6" (152mm)	130600	132600

Accessories	
Model #	Description
9001	Auto Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM)
9002	Auto Drain Filter Separator, 3/4 NPT, 220 SCFM (6,230 SLPM)
9005	Oil Removal Filter, 3/8 NPT, 15-37 SCFM (425-1,048 SLPM)
9006	Oil Removal Filter, 3/4 NPT, 50-150 SCFM (1,416-4,248 SLPM)
9008	Pressure Regulator with Gauge, 1/4 NPT, 50 SCFM (1,416 SLPM)
9009	Pressure Regulator with Gauge, 3/4 NPT, 220 SCFM (6,230 SLPM)

Hose is available in 10', 20', 30', 40' and 50' lengths. Select the hose model number (diameter) and indicate the length with a dash. Example: A Model 6931-20 is 1" ID Hose x 20' long.

6930-	Hose 3/4" ID
6931-	Hose 1" ID
6932-	Hose 1-1/4" ID
6933-	Hose 1-1/2" ID
6934-	Hose 2" ID
6936-	Hose 3" ID



PVC hose is available in lengths up to 50' (15.2m) and diameters up to 3" (76mm).

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Order EXAIR's EFC™ electronic flow control to minimize compressed air use. See page 7 for details.



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Light Duty Line Vac

Live Vac Conveyance Data

The table below shows conveyance rates for EXAIR 1", 1-1/2" and 2" Line Vacs in both standard and heavy duty styles when used with various materials and bulk densities. Exact, application-specific conveyance rates are best determined through hands-on testing. Contact an EXAIR Application Engineer to learn more and configure a system suitable for your application.

Description	Line Vac Model	Horizontal Run (ft)	Vertical Rise (ft)	Rate (lb/min)
Ground Corn Cobs (density: 25 lbs/cu.ft)	6081 (1" Aluminum)	7	5	8.8
	6083 (1-1/2" Aluminum)	7	5	13.8
	6084 (2" Aluminum)	7	5	26
	150100 (1" Heavy Duty)	7	5	12.9
	150150 (1-1/2" Heavy Duty)	7	5	20.3
	150200 (2" Heavy Duty)	7	5	40
Tumbling Media (density: 64 lbs/cu.ft)	6081 (1" Aluminum)	50	0	3.68
		100	0	1.23
		0	11.33	3.69
		0	20.75	1.03
		25	11	2.6
	6083 (1-1/2" Aluminum)	50	0	9.3
		100	0	2.89
		0	11.33	13.58
		0	20.75	5.54
		25	11	11.16
	6084 (2" Aluminum)	50	0	15.52
		100	0	5.41
		0	11.33	16.39
		0	20.75	8.03
		25	11	15.52
	150100 (1" Heavy Duty)	50	0	6.43
		100	0	1.18
		0	11.33	9.54
		0	20.75	4.35
		25	11	4.84
	150150 (1-1/2" Heavy Duty)	50	0	18.98
		100	0	9.02
		0	11.33	22.52
		0	20.75	8.62
		25	11	16.13
	150200 (2" Heavy Duty)	50	0	30.93
		100	0	10.86
		0	11.33	24.97
		0	20.75	7.73
		25	11	24.42

(Note: all measurements taken at 80 PSIG supply pressure)



Light Duty Line Vac

Description	Line Vac Model	Horizontal Run (ft)	Vertical Rise (ft)	Rate (lb/min)
Rock Salt (density: 68 lbs/cu.ft)	6083 (1-1/2" Aluminum)	50	0	1.6
		35	15	0.6
	6084 (2" Aluminum)	100	0	5.57
		200	0	1.42
		35	15	0.6
	150150 (1-1/2" Heavy Duty)	50	0	8.32
		35	15	5.62
	150200 (2" Heavy Duty)	100	0	8.73
		200	0	3.33
Crushed Glass (density: 85 lbs/cu.ft)	6081 (1" Aluminum)	50	0	2.57
		100	0	1.18
		0	11.33	2.85
		0	20.75	1.1
	6083 (1-1/2" Aluminum)	50	0	6
		100	0	3.12
		0	11.33	8.67
		0	20.75	3.37
	6084 (2" Aluminum)	50	0	10.29
		100	0	4.73
		0	11.33	10.12
		0	20.75	5.21
	150100 (1" Heavy Duty)	50	0	2.55
		100	0	0.85
		0	11.33	3.72
		0	20.75	1.42
	150150 (1-1/2" Heavy Duty)	50	0	6.48
		100	0	2.83
		0	11.33	9.39
		0	20.75	4.17
	150200 (2" Heavy Duty)	50	0	12
		100	0	4.83
		0	11.33	13.26
		0	20.75	5.35

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