

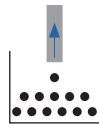
Truck Master 4

Hose-end performance

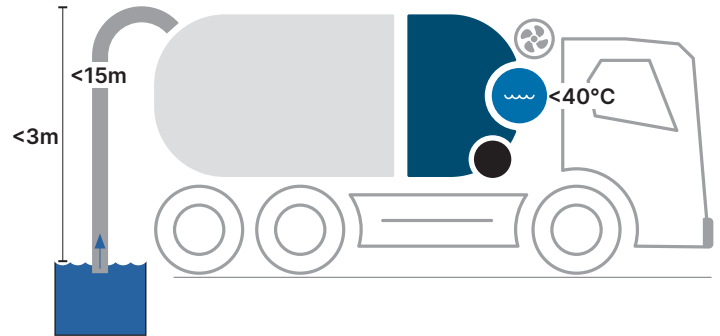
Hose-end flow data is based on the following test parameters:

- Water temperature up to 40°C
- Suction hose length up to 15 m
- Suction depth up to 3 m
- Tolerance ±10%

WATER flow can be used as a test parameter during commissioning and factory acceptance tests.



AIR FLOW



WATER FLOW

		Operators power experience during air lift of solids					Tank filling performance fully submerged vacuum lift					RETURN ON INVESTMENT				
		Air flow m/sec					m³/h kW					Fuel consumption filling 100m³				
		6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE	Diesel oil consumption liter				
							Performance loss					KG/CO2 emissions				
		6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE
TRUCK MASTER 1700	2000 RPM	20 -43%	29 -17%	40 Perfect	67 93%	105 200%	377 131% 62kW	260 60% 62kW	163 62kW	79 -52% 62kW	26 -84% 62kW	1,64 4,41 KG/CO2	2,38 6,39 KG/CO2	3,80 10,19 KG/CO2	7,85 21,0 KG/CO2	23,8 63,9 KG/CO2
	1900 RPM	20 -43%	28 -20%	39 Perfect	65 85%	102 193%	370 127% 53kW	253 56% 53kW	163 53kW	79 -52% 53kW	26 -84% 53kW	1,43 3,83 KG/CO2	2,09 5,60 KG/CO2	3,25 8,71 KG/CO2	6,71 17,9 KG/CO2	20,3 54,6 KG/CO2
	1800 RPM	19 -46%	27 -23%	37 Perfect	62 79%	101 187%	370 127% 48kW	253 56% 48kW	163 48kW	79 -52% 48kW	26 -84% 48kW	1,29 3,47 KG/CO2	1,89 5,07 KG/CO2	2,94 7,89 KG/CO2	6,08 16,2 KG/CO2	18,4 49,4 KG/CO2
	1700 RPM	18 -49%	25 -29%	35 Perfect	59 69%	97 178%	357 119% 42kW	253 56% 42kW	163 42kW	79 -52% 42kW	26 -84% 42kW	1,18 3,15 KG/CO2	1,65 4,43 KG/CO2	2,58 6,91 KG/CO2	5,32 14,2 KG/CO2	16,1 43,2 KG/CO2
	1600 RPM	17 -51%	24 -31%	33 -5%	56 61%	94 168%	346 113% 38kW	252 55% 38kW	163 38kW	79 -52% 38kW	26 -84% 38kW	1,10 2,94 KG/CO2	1,50 4,03 KG/CO2	2,33 6,25 KG/CO2	4,81 12,8 KG/CO2	14,6 39,1 KG/CO2
	1500 RPM	15 -57%	22 -37%	30 -14%	52 47%	90 157%	336 131% 33kW	243 67% 33kW	145 33kW	79 -46% 33kW	26 -82% 33kW	0,98 2,63 KG/CO2	1,35 3,63 KG/CO2	2,26 6,07 KG/CO2	4,18 11,1 KG/CO2	12,6 34,0 KG/CO2
	1400 RPM	14 -60%	20 -43%	27 -22%	47 35%	83 136%	310 120% 28kW	231 64% 28kW	141 28kW	79 -44% 28kW	26 -82% 28kW	0,90 2,42 KG/CO2	1,21 3,24 KG/CO2	1,98 5,31 KG/CO2	3,54 9,50 KG/CO2	10,7 28,8 KG/CO2
	1300 RPM	13 -63%	18 -49%	26 -27%	44 25%	80 127%	304 118% 26kW	224 61% 26kW	139 26kW	79 -43% 26kW	26 -81% 26kW	0,85 2,29 KG/CO2	1,16 3,11 KG/CO2	1,86 4,99 KG/CO2	3,29 8,82 KG/CO2	10,0 26,80 KG/CO2
	1200 RPM	11 -69%	15 -57%	21 -39%	37 Perfect	72 104%	271 99% 21kW	207 52% 21kW	136 21kW	79 -42% 21kW	26 -81% 21kW	0,77 2,07 KG/CO2	1,01 2,71 KG/CO2	1,54 4,11 KG/CO2	2,66 7,12 KG/CO2	8,0 21,6 KG/CO2
	1100 RPM	10 -71%	14 -60%	20 -44%	35 Perfect	67 90%	261 96% 19kW	200 51% 19kW	133 19kW	66 -51% 19kW	26 -80% 19kW	0,73 1,95 KG/CO2	0,95 2,54 KG/CO2	1,43 3,82 KG/CO2	2,89 7,75 KG/CO2	7,3 19,58 KG/CO2

Air flow m/sec

100%+	Overcapacity extreme
45-99%	Overcapacity high
15-44%	Overcapacity
0-14%	Perfect 35 - 40 m/sec
0--29%	Water is flying
-30%-	Insufficient speed

Performance +/- %

90% +	
60-90%	
40-60%	
20-40%	
10-20%	
Full capacity	

Diesel oil consumption per 100m³

5L +	Highly Inefficient
4-5L	Inefficient
3-4L	Less Efficient
2-3L	Moderately Efficient
1-2L	Efficient
0-1L	Highly Efficient

Customized calculations

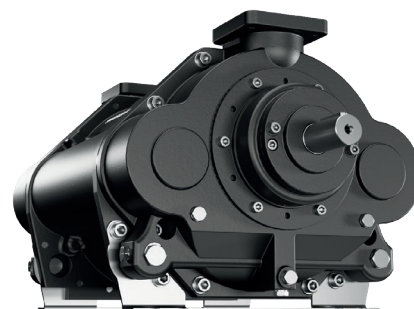
Our team of vacuum specialists, with extensive experience, is available for customized calculations based on specific investments. Reach out for a consultation and achieve goals with precision and expertise.

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Pump-end performance

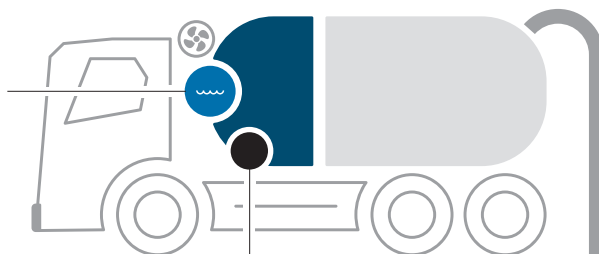
Features:

- E-coated cast iron
- Stainless steel rotor
- FreezeSafe
- Dry run resistant mechanical shaft seals
- Available in ATEX Zone 1 or 0
- Low noise



Water evaporation from saturation inside the pump

Metric	50% vacuum	70% vacuum	80% vacuum	US	50% vacuum	70% vacuum	80% vacuum
20°C	12	5	4	68°F	3	1	1
30°C	17	10	7	86°F	4	3	2
40°C	34	20	13	104°F	9	5	3
50°C	60	35	24	122°F	16	9	6
55°C	100	60	39	131°F	26	16	10
L/h				Gal/h			



Vacuum

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
2000 RPM	1680	62	296	2000 RPM	989	83	218
1900 RPM	1646	53	266	1900 RPM	969	71	196
1800 RPM	1619	48	255	1800 RPM	953	64	188
1700 RPM	1550	42	236	1700 RPM	912	56	174
1600 RPM	1457	38	227	1600 RPM	858	51	167
1500 RPM	1321	33	210	1500 RPM	778	44	155
1400 RPM	1041	28	191	1400 RPM	613	38	141
1300 RPM	966	26	191	1300 RPM	569	35	141
1200 RPM	823	21	167	1200 RPM	484	28	123
1100 RPM	753	19	165	1100 RPM	443	25	122

Pressure

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1800 RPM	944	65	345	1800 RPM	556	87	254
1700 RPM	810	60	337	1700 RPM	477	80	249
1600 RPM	757	54	322	1600 RPM	446	72	238
1500 RPM	674	47	299	1500 RPM	397	63	221