

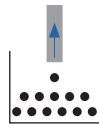
Truck Master 5

Hose-end performance

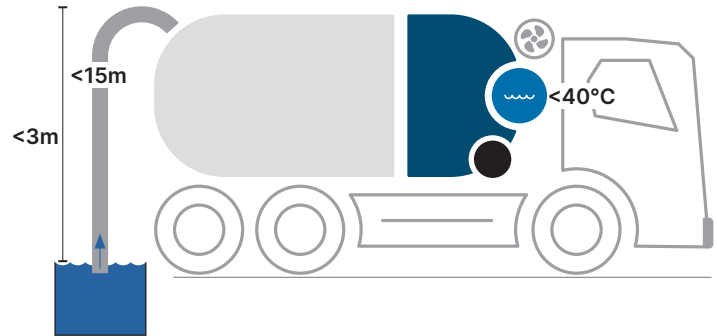
Hose-end flow data is based on the following test parameters:

- 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

RETURN ON INVESTMENT

		Operators power experience during air lift of solids					Tank filling performance fully submerged vacuum lift					Fuel consumption filling 100m ³				
		Air flow m/sec					m ³ /h kW					Diesel oil consumption liter				
		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
		Performance loss					Performance loss					KG/CO2 emissions				
TRUCK MASTER 2500	1800 RPM	32 -9%	46 31%	61 74%	96 174%	123 251%	410 51% 90kW	270 90kW	163 -40% 90kW	79 -71% 90kW	26 -90% 90kW	2,19 5,88 KG/CO2	3,32 8,90 KG/CO2	5,52 14,80 KG/CO2	11,39 30,53 KG/CO2	34,62 92,77 KG/CO2
	1700 RPM	31 -11%	45 29%	60 71%	93 166%	122 249%	409 51% 79kW	270 79kW	163 -40% 79kW	79 -71% 79kW	26 -90% 79kW	1,93 5,17 KG/CO2	2,92 7,82 KG/CO2	4,85 12,99 KG/CO2	10,00 26,80 KG/CO2	30,38 81,43 KG/CO2
	1600 RPM	31 -11%	44 26%	59 67%	92 163%	121 247%	408 51% 71kW	270 71kW	163 -40% 71kW	79 -71% 71kW	26 -90% 71kW	1,74 4,66 KG/CO2	2,62 7,02 KG/CO2	4,36 11,67 KG/CO2	8,99 24,09 KG/CO2	27,31 73,18 KG/CO2
	1500 RPM	29 -17%	42 20%	56 60%	89 154%	117 235%	406 51% 64kW	269 64kW	163 -39% 64kW	79 -71% 64kW	26 -90% 64kW	1,57 4,22 KG/CO2	2,38 6,37 KG/CO2	3,93 10,52 KG/CO2	8,10 21,71 KG/CO2	24,62 65,97 KG/CO2
	1400 RPM	28 -20%	40 Perfect	54 54%	87 147%	116 231%	382 44% 55kW	266 55kW	163 -39% 55kW	79 -70% 55kW	26 -90% 55kW	1,44 3,85 KG/CO2	2,06 5,53 KG/CO2	3,37 9,04 KG/CO2	6,96 18,66 KG/CO2	21,15 56,69 KG/CO2
	1300 RPM	25 -29%	37 Perfect	50 42%	81 132%	112 221%	389 50% 48kW	259 48kW	163 -37% 48kW	79 -70% 48kW	26 -90% 48kW	1,23 3,30 KG/CO2	1,85 4,96 KG/CO2	2,94 7,89 KG/CO2	6,08 16,28 KG/CO2	18,46 49,48 KG/CO2
	1200 RPM	24 -31%	34 -3%	47 34%	76 118%	110 215%	383 48% 42kW	258 42kW	163 -37% 42kW	79 -69% 42kW	26 -90% 42kW	1,10 2,94 KG/CO2	1,63 4,36 KG/CO2	2,58 6,91 KG/CO2	5,32 14,25 KG/CO2	16,15 43,29 KG/CO2
	1100 RPM	21 -40%	30 -14%	42 19%	69 97%	106 203%	374 46% 36kW	256 36kW	163 -36% 36kW	79 -69% 36kW	26 -90% 36kW	0,96 2,58 KG/CO2	1,40 3,76 KG/CO2	2,21 5,92 KG/CO2	4,56 12,21 KG/CO2	13,85 37,11 KG/CO2
	1000 RPM	18 -49%	26 -26%	36 Perfect	61 75%	100 185%	357 46% 31kW	243 31kW	163 -33% 31kW	79 -68% 31kW	26 -89% 31kW	0,87 2,33 KG/CO2	1,27 3,41 KG/CO2	1,90 5,10 KG/CO2	3,92 10,52 KG/CO2	11,92 31,95 KG/CO2
	900 RPM	16 -54%	23 -34%	32 -10%	54 54%	93 164%	322 43% 27kW	225 27kW	163 -28% 27kW	79 -65% 27kW	26 -88% 27kW	0,84 2,25 KG/CO2	1,20 3,22 KG/CO2	1,66 4,44 KG/CO2	3,42 9,16 KG/CO2	10,38 27,83 KG/CO2
	800 RPM	13 -63%	19 -46%	26 -25%	45 28%	84 140%	301 35% 21kW	224 21kW	143 -36% 21kW	79 -65% 21kW	26 -88% 21kW	0,70 1,89 KG/CO2	0,94 2,51 KG/CO2	1,47 3,93 KG/CO2	2,66 7,12 KG/CO2	8,08 21,65 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

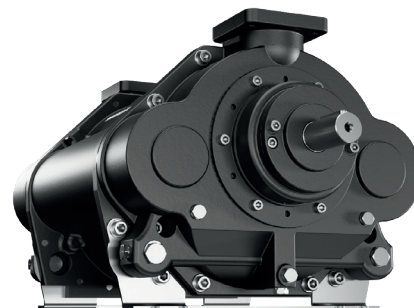
Our team of vacuum specialists, with extensive experience, is available for customized calculations based on specific investments. Reach out for a consultation and achieve goals with precision and expertise.

Truck Master 5

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

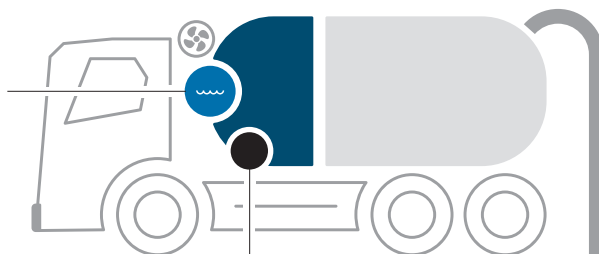


Water evaporation from saturation inside the pump

Metric	50% vacuum	70% vacuum	80% vacuum	US	50% vacuum	70% vacuum	80% vacuum
20°C	18	10	5	68°F	5	3	1
30°C	27	16	11	86°F	7	4	3
40°C	53	32	21	104°F	14	8	6
50°C	93	56	37	122°F	25	15	10
55°C	152	91	60	131°F	40	24	16

L/h

Gal/h



Vacuum

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1800 RPM	2619	90	478	1800 RPM	1542	121	352
1700 RPM	2523	79	444	1700 RPM	1485	106	327
1600 RPM	2482	71	424	1600 RPM	1461	95	313
1500 RPM	2465	64	407	1500 RPM	1451	86	301
1400 RPM	2205	55	375	1400 RPM	1298	74	277
1300 RPM	1980	48	353	1300 RPM	1165	64	260
1200 RPM	1846	42	334	1200 RPM	1087	56	247
1100 RPM	1663	36	313	1100 RPM	979	48	231
1000 RPM	1447	31	296	1000 RPM	852	42	218
900 RPM	1266	27	287	900 RPM	745	36	211
800 RPM	1056	21	251	800 RPM	622	28	185

Pressure

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1500 RPM	1390	85	541	1500 RPM	818	114	399
1400 RPM	1271	75	512	1400 RPM	748	101	377
1300 RPM	1097	68	500	1300 RPM	646	91	368
1200 RPM	993	60	478	1200 RPM	584	80	352