

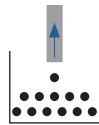
Truck Master 2

Hose-end performance

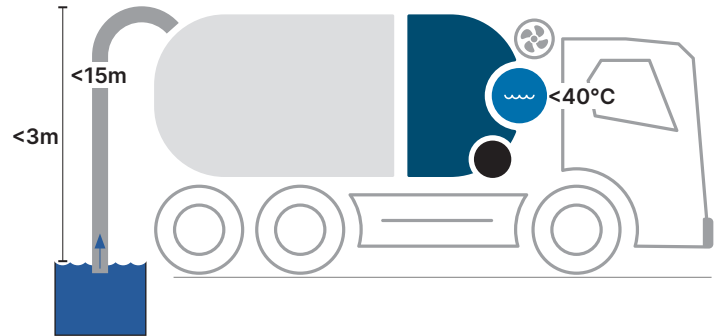
Hose-end flow data is based on the following test parameters:

- 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				
							Performance loss					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
TRUCK MASTER 2	1800 RPM	6 -83%	9 -74%	13 -64%	22 -37%	46 32%	213 720% 16,1kW	176 578% 16,1kW	126 385% 16,1kW	69 167% 16,1kW	26 16,1kW	0,75 2,02 KG/CO2	0,91 2,45 KG/CO2	1,28 3,42 KG/CO2	2,32 6,23 KG/CO2	6,19 16,6 KG/CO2
	1700 RPM	6 -83%	8 -77%	12 -67%	21 -41%	44 25%	198 662% 14kW	176 578% 14kW	121 367% 14kW	68 163% 14kW	26 14kW	0,71 1,89 KG/CO2	0,79 2,13 KG/CO2	1,15 3,09 KG/CO2	2,05 5,49 KG/CO2	5,38 14,4 KG/CO2
	1600 RPM	5 -86%	8 -77%	11 -68%	19 -44%	42 19%	196 655% 12,5kW	166 540% 12,5kW	121 367% 12,5kW	68 163% 12,5kW	26 12,5kW	0,64 1,71 KG/CO2	0,75 2,01 KG/CO2	1,03 2,76 KG/CO2	1,83 4,90 KG/CO2	4,81 12,8 KG/CO2
	1500 RPM	5 -86%	7 -80%	10 -71%	17 -51%	38 Perfect	183 606% 10,9kW	154 495% 10,9kW	113 336% 10,9kW	68 160% 10,9kW	26 10,9kW	0,59 1,59 KG/CO2	0,70 1,89 KG/CO2	0,96 2,58 KG/CO2	1,61 4,33 KG/CO2	4,19 11,2 KG/CO2
	1400 RPM	5 -86%	7 -80%	9 -73%	16 -54%	36 Perfect	166 540% 9,6kW	148 471% 9,6kW	110 326% 9,6kW	66 153% 9,6kW	26 9,6kW	0,58 1,55 KG/CO2	0,65 1,73 KG/CO2	0,87 2,32 KG/CO2	1,46 3,92 KG/CO2	3,69 9,90 KG/CO2
	1300 RPM	4 -89%	6 -83%	8 -78%	14 -61%	31 -13%	143 450% 8,5kW	134 416% 8,5kW	105 305% 8,5kW	63 142% 8,5kW	26 8,5kW	0,59 1,59 KG/CO2	0,63 1,70 KG/CO2	0,81 2,16 KG/CO2	1,35 3,62 KG/CO2	3,27 8,76 KG/CO2
	1200 RPM	3 -91%	5 -86%	7 -80%	12 -66%	27 -23%	134 416% 7,5kW	123 374% 7,5kW	99 284% 7,5kW	63 142% 7,5kW	26 7,5kW	0,56 1,50 KG/CO2	0,61 1,63 KG/CO2	0,75 2,01 KG/CO2	1,19 3,19 KG/CO2	2,88 7,73 KG/CO2
	1100 RPM	3 -91%	4 -89%	6 -83%	10 -70%	23 -35%	113 336% 6,7kW	105 305% 6,7kW	90 246% 6,7kW	60 132% 6,7kW	26 6,7kW	0,59 1,58 KG/CO2	0,64 1,71 KG/CO2	0,74 2,00 KG/CO2	1,11 2,98 KG/CO2	2,58 6,91 KG/CO2
	1000 RPM	2 -94%	3 -91%	5 -86%	8 -77%	18 -49%	95 267% 5,9kW	90 246% 5,9kW	79 205% 5,9kW	56 115% 5,9kW	26 5,9kW	0,62 1,66 KG/CO2	0,66 1,76 KG/CO2	0,74 2,00 KG/CO2	1,06 2,83 KG/CO2	2,27 6,08 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

DOC1140

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 2

Pump-end performance

Features:

- Hard anodized aluminum
- Dry run resistant mechanical shaft seals
- Life-time lubricated bearings
- Available in ATEX Zone 1
- Low noise

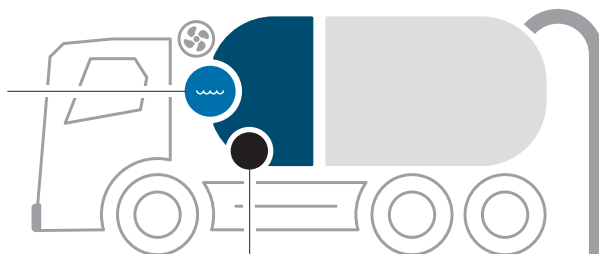


Water evaporation from saturation inside the pump

Metric	50% vacuum	70% vacuum	80% vacuum	US	50% vacuum	70% vacuum	80% vacuum
20°C	0,4	0,3	0,2	68°F	0,1	0,1	0,0
30°C	0,8	0,5	0,3	86°F	0,2	0,1	0,1
40°C	1,4	0,8	0,5	104°F	0,4	0,2	0,1
50°C	2,3	1,4	0,9	122°F	0,6	0,4	0,2
55°C	2,9	1,7	1,2	131°F	0,8	0,5	0,3

L/h

Gal/h



Vacuum

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1800 RPM	500	16,1	85	1800 RPM	294	22	63
1700 RPM	470	14	79	1700 RPM	277	19	58
1600 RPM	430	12,5	75	1600 RPM	253	17	55
1500 RPM	390	10,9	69	1500 RPM	230	15	51
1400 RPM	360	9,6	65	1400 RPM	212	13	48
1300 RPM	320	8,5	62	1300 RPM	188	11	46
1200 RPM	300	7,5	60	1200 RPM	177	10	44
1100 RPM	233	6,7	58	1100 RPM	137	9	43
1000 RPM	186	5,9	56	1000 RPM	109	8	42

Pressure

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1800 RPM	365	22	117	1800 RPM	215	30	86
1700 RPM	318	20	112	1700 RPM	187	27	83
1600 RPM	274	19	113	1600 RPM	161	25	84
1500 RPM	262	17	108	1500 RPM	154	23	80
1400 RPM	226	15	102	1400 RPM	133	20	75
1300 RPM	146	13	96	1300 RPM	86	17	70