

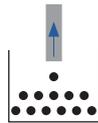
# WRP2500

## Hose-end performance

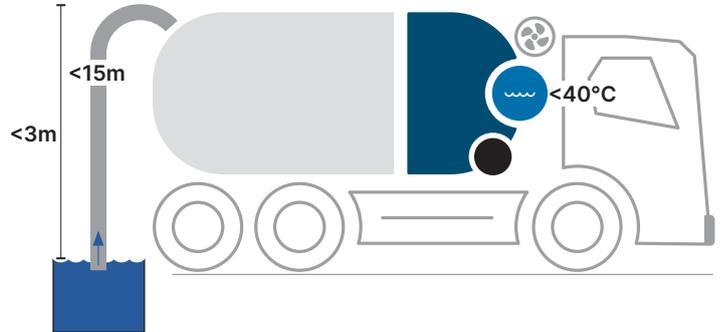
Hose-end flow data is based on the following test parameters:

- 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 <sup>3</sup>				
		Air flow   m/sec					m <sup>3</sup> /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
WRP2500	1600 RPM	22 -37%	32 -9%	49 39%	81 131%	120 244%	383 131% 65kW	261 58% 65kW	166 65kW	86 -78% 65kW	53 -86% 65kW	1,72 4,61 KG/CO2	2,52 6,76 KG/CO2	3,98 10,66 KG/CO2	7,70 20,64 KG/CO2	12,40 33,23 KG/CO2
	1500 RPM	22 -37%	30 -15%	46 31%	79 126%	117 235%	383 134% 57kW	260 59% 57kW	164 57kW	80 -79% 57kW	50 -87% 57kW	1,50 4,03 KG/CO2	2,21 5,93 KG/CO2	3,51 9,41 KG/CO2	7,18 19,25 KG/CO2	11,42 30,60 KG/CO2
	1400 RPM	20 -43%	28 -20%	43 23%	73 110%	114 226%	380 136% 50kW	259 61% 50kW	161 50kW	77 -80% 50kW	50 -87% 50kW	1,31 3,51 KG/CO2	1,92 5,15 KG/CO2	3,09 8,28 KG/CO2	6,43 17,24 KG/CO2	9,88 26,48 KG/CO2
	1300 RPM	19 -46%	26 -26%	40 15%	69 96%	110 214%	374 136% 43kW	256 62% 43kW	158 43kW	72 -81% 43kW	47 -87% 43kW	1,14 3,06 KG/CO2	1,66 4,45 KG/CO2	2,69 7,21 KG/CO2	5,92 15,86 KG/CO2	9,11 24,40 KG/CO2
	1200 RPM	17 -52%	24 -32%	37 6%	64 82%	107 205%	371 140% 36kW	252 63% 36kW	155 36kW	69 -81% 36kW	47 -87% 36kW	1,00 2,68 KG/CO2	1,48 3,96 KG/CO2	2,40 6,44 KG/CO2	5,37 14,38 KG/CO2	7,95 21,30 KG/CO2
	1100 RPM	15 -56%	22 -37%	34 -3%	59 68%	102 193%	355 131% 30kW	244 59% 30kW	154 30kW	67 -81% 30kW	47 -87% 30kW	0,88 2,36 KG/CO2	1,28 3,43 KG/CO2	2,03 5,45 KG/CO2	4,70 12,60 KG/CO2	6,69 17,93 KG/CO2
	1000 RPM	14 -60%	20 -43%	31 -11%	53 53%	96 175%	347 131% 25kW	238 59% 25kW	150 25kW	63 -82% 25kW	43 -88% 25kW	0,77 2,05 KG/CO2	1,11 2,99 KG/CO2	1,77 4,74 KG/CO2	4,22 11,31 KG/CO2	6,15 16,49 KG/CO2
	900 RPM	12 -64%	18 -49%	28 -20%	48 38%	91 161%	332 128% 21kW	241 65% 21kW	146 21kW	60 -82% 21kW	43 -87% 21kW	0,67 1,79 KG/CO2	0,92 2,47 KG/CO2	1,52 4,08 KG/CO2	3,68 9,87 KG/CO2	5,14 13,77 KG/CO2
	800 RPM	11 -68%	16 -54%	25 -29%	43 24%	83 136%	312 117% 17kW	227 58% 17kW	144 17kW	56 -82% 17kW	40 -87% 17kW	0,58 1,56 KG/CO2	0,80 2,15 KG/CO2	1,26 3,38 KG/CO2	3,26 8,72 KG/CO2	4,59 12,29 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 100m<sup>3</sup>

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.

# WRP2500

## Pump-end performance

**Features:**

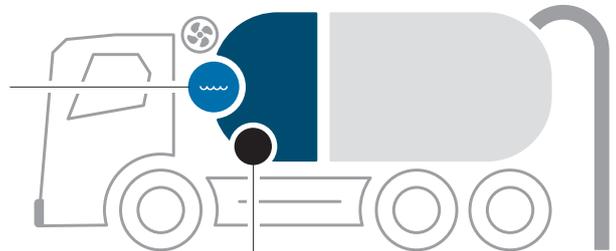
- Hard anodized aluminum
- Dry run resistant mechanical shaft seals
- Life-time lubricated bearings
- Available in ATEX Zone 1
- Low noise



**Water evaporation from saturation inside the pump**

Metric	50% vacuum	70% vacuum	80% vacuum	US	50% vacuum	70% vacuum	80% vacuum
20°C	6	4	2	68°F	1,6	1,1	0,5
30°C	18	11	5	86°F	4,8	2,9	1,3
40°C	37	22	11	104°F	9,8	5,8	2,9
50°C	68	41	20	122°F	18,0	10,8	5,3
55°C	89	53	27	131°F	23,5	14	7,1

L/h Gal/h



**Vacuum**

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1600 RPM	2020	66	394	1600 RPM	1190	90	291
1500 RPM	1894	58	369	1500 RPM	1116	79	272
1400 RPM	1776	50	341	1400 RPM	1046	68	252
1300 RPM	1665	43	316	1300 RPM	981	58	233
1200 RPM	1562	37	294	1200 RPM	920	50	217
1100 RPM	1464	31	269	1100 RPM	862	42	199
1000 RPM	1373	26	248	1000 RPM	809	35	183
900 RPM	1287	21	223	900 RPM	758	29	164
800 RPM	1207	17	203	800 RPM	711	23	150

**Pressure**

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1600 RPM	1879	94	561	1600 RPM	1107	128	414
1500 RPM	1776	83	528	1500 RPM	1046	113	390
1400 RPM	1658	73	498	1400 RPM	977	99	367
1300 RPM	1546	63	463	1300 RPM	910	86	341
1200 RPM	1442	53	422	1200 RPM	849	72	311
1100 RPM	1342	45	391	1100 RPM	791	61	288
1000 RPM	1248	37	353	1000 RPM	735	50	261
900 RPM	1159	30	318	900 RPM	682	41	235
800 RPM	1073	24	287	800 RPM	632	33	211