

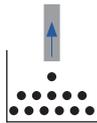
# WRP3100

## Hose-end performance

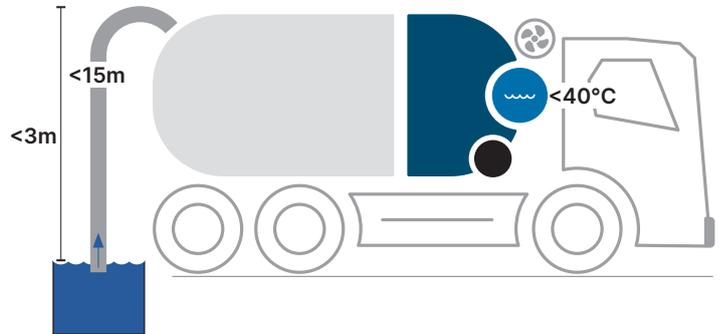
Hose-end flow data is based on the following test parameters:

- 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		KG/CO2 emissions		
WRP3100	1600 RPM	28 -20%	40 14%	60 73%	97 176%	128 267%	394 43% 152kW	276 65kW	178 -55% 65kW	79 -80% 65kW	26 -93% 65kW	2,11 5,64 KG/CO2	3,00 8,05 KG/CO2	4,66 12,48 KG/CO2	10,48 28,09 KG/CO2	31,80 85,23 KG/CO2
	1500 RPM	26 -25%	37 7%	57 63%	93 166%	126 259%	392 45% 142kW	270 142kW	173 -56% 142kW	79 -80% 142kW	26 -93% 142kW	1,86 4,99 KG/CO2	2,70 7,25 KG/CO2	4,22 11,32 KG/CO2	9,22 24,70 KG/CO2	27,97 74,96 KG/CO2
	1400 RPM	25 -30%	35 0%	54 53%	88 152%	123 251%	390 47% 133kW	265 133kW	163 -58% 133kW	79 -80% 133kW	26 -93% 133kW	1,64 4,40 KG/CO2	2,42 6,48 KG/CO2	3,93 10,53 KG/CO2	8,08 21,66 KG/CO2	24,52 65,72 KG/CO2
	1300 RPM	23 -35%	33 -7%	50 43%	83 137%	118 238%	383 47% 123kW	261 123kW	151 -61% 123kW	79 -79% 123kW	26 -93% 123kW	1,45 3,88 KG/CO2	2,13 5,70 KG/CO2	3,67 9,85 KG/CO2	7,01 18,80 KG/CO2	21,28 57,04 KG/CO2
	1200 RPM	21 -40%	30 -14%	46 32%	78 122%	116 231%	374 45% 114kW	258 114kW	146 -61% 114kW	79 -79% 114kW	26 -93% 114kW	1,28 3,43 KG/CO2	1,86 4,97 KG/CO2	3,29 8,81 KG/CO2	6,05 16,22 KG/CO2	18,37 49,23 KG/CO2
	1100 RPM	19 -45%	28 -21%	43 22%	72 105%	112 219%	370 47% 104kW	253 104kW	161 -57% 104kW	79 -79% 104kW	26 -93% 104kW	1,11 2,98 KG/CO2	1,63 4,37 KG/CO2	2,56 6,85 KG/CO2	5,20 13,94 KG/CO2	15,79 42,30 KG/CO2
	1000 RPM	18 -50%	25 -28%	39 11%	66 89%	106 203%	366 49% 95kW	247 95kW	158 -57% 95kW	71 -81% 95kW	26 -93% 95kW	0,94 2,51 KG/CO2	1,39 3,73 KG/CO2	2,17 5,81 KG/CO2	4,83 12,94 KG/CO2	13,15 35,24 KG/CO2
	900 RPM	16 -55%	22 -37%	35 0%	60 72%	102 191%	346 43% 85kW	243 85kW	156 -55% 85kW	68 -81% 85kW	26 -92% 85kW	0,78 2,09 KG/CO2	1,11 2,98 KG/CO2	1,73 4,65 KG/CO2	4,00 10,72 KG/CO2	10,34 27,72 KG/CO2
	800 RPM	14 -60%	20 -43%	31 -11%	54 55%	96 175%	333 42% 76kW	236 76kW	149 -55% 76kW	67 -80% 76kW	26 -92% 76kW	0,63 1,69 KG/CO2	0,89 2,39 KG/CO2	1,41 3,77 KG/CO2	3,15 8,45 KG/CO2	8,05 21,56 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.

# WRP3100

## Pump-end performance

**Features:**

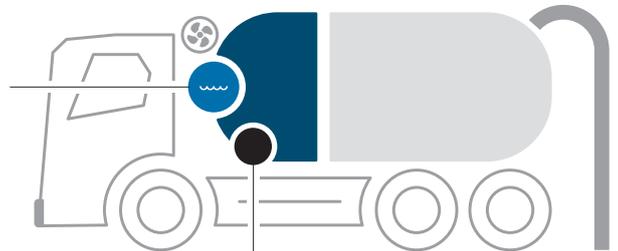
- Hard anodized aluminum
- Dry run resistant mechanical shaft seals
- Life-time lubricated bearings
- Available in ATEX Zone 1
- Low noise



**Water evaporation from saturation inside the pump**

Metric	50% vacuum	70% vacuum	80% vacuum	US	50% vacuum	70% vacuum	80% vacuum
20°C	7	4	2	68°F	1,8	1,1	0,5
30°C	21	12	6	86°F	5,5	3,2	1,6
40°C	45	26	13	104°F	11,9	6,9	3,4
50°C	82	48	24	122°F	21,7	12,7	6,3
55°C	107	62	31	131°F	28,3	16,4	8,2

L/h Gal/h



**Vacuum**

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1600 RPM	2558	83	495	1600 RPM	1507	113	365
1500 RPM	2398	73	465	1500 RPM	1412	99	343
1400 RPM	2238	64	437	1400 RPM	1318	87	322
1300 RPM	2078	55	404	1300 RPM	1224	75	298
1200 RPM	1918	47	374	1200 RPM	1130	64	276
1100 RPM	1759	40	347	1100 RPM	1036	54	256
1000 RPM	1598	33	315	1000 RPM	941	45	232
900 RPM	1439	27	287	900 RPM	848	37	211
800 RPM	1279	21	251	800 RPM	753	29	185

**Pressure**

Metric	m3/h	kW	Nm	US	CFM	HP	Lbs *ft
1600 RPM	2379	112	669	1600 RPM	1401	152	493
1500 RPM	2248	98	624	1500 RPM	1324	133	460
1400 RPM	2089	86	587	1400 RPM	1231	117	433
1300 RPM	1929	74	544	1300 RPM	1136	101	401
1200 RPM	1771	63	501	1200 RPM	1043	86	370
1100 RPM	1613	53	460	1100 RPM	950	72	339
1000 RPM	1452	44	420	1000 RPM	855	60	310
900 RPM	1295	36	382	900 RPM	763	49	282
800 RPM	1137	28	334	800 RPM	670	38	247