

The force of the nature allied to a technology.



LINE

**ZM MAXXI**

Pumps Move by Water Wheel

**ZM BOMBAS**

Energia que respeita o meio Ambiente



The hydraulics pumps ZM MAXXI move by water wheel, **solve** the water provisioning problems with the **best capital cost** of the market. The pumps have a system of high **durability** and low **handling**. Some advantage of the pumps ZM MAXXI:

- ▶ Oil lubrication of the whole system, include the two rolling of the case;
- ▶ Protection in leather of the piston, especially prepared for our ZM pumps, in replacement of the conventional furniture;
- ▶ The replacement of the leathers is easy and don't require any regulation;
- ▶ Simple handling;
- ▶ Water wheel with special ray resulting from a large smoothness and avoiding oscillations;
- ▶ Our pumps can be motorized until 60 RPM.

ZM also offers a technical support, a replacement of the pieces and **two years of**



### WATER WHEEL

**Capacity of propulsion:** until 12 km of distance and height of 300 meters (m.w.c).

**Capacity of suction:** until 60 meters of distance or 7 meters of depth.

**Applications:** Our pumps can be used for the provisioning of:

1. **tank for cattle;**
2. **tank for hen house;**
3. **tank for pigs;**
4. **small irrigations;**
5. **residential provisioning.**



### PALLETS WHEEL

Indicated for situations where it is not possible to make an installation with a normal wheel because the low drop height of water. A drain have to be made, with 0,40 cm of water blade height passing by it, and make the installation of the wheel. The rotation of the wheel never exceed 15 turns per minute.

**Average production** in this case depending on the model: 5.000 to 25.000 liters for 24Hours.



### FLOATING

Indicated only if there is a river to make this installation.

**Minimal speed of water to move the floating conjunction:** 1 m/s

**Minimal width of the river:** 3 meters

**Minimal depth of the river:** 0,80 meters

**Average production** in this case depending on the model: 5.000 to 25.000 liters for 24 hours.

**FOR FUTHER INFORMATION PLEASE CONSULT OUR TECHNICAL DEPART.**

M.W.C - Meters of Water Column

#### ZM 44 Maxi - Lightest of the market

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	5.200	7.840	10.400	13.000	130 m.w.c
<b>Normal</b>	<b>4.300</b>	<b>6.400</b>	<b>8.600</b>	<b>10.800</b>	<b>150 m.w.c</b>
A	3.400	5.100	6.900	8.600	170 m.w.c
B	2.600	3.900	5.200	6.400	190 m.w.c

Maximum height of propulsion : until 190 m.w.c

#### ZM 38 Maxi - Best Height of pumping

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	6.230	9.340	12.460	15.570	200 m.w.c
<b>Normal</b>	<b>5.250</b>	<b>7.800</b>	<b>10.500</b>	<b>13.000</b>	<b>220 m.w.c</b>
A	4.500	6.880	9.000	11.400	240 m.w.c
B	3.900	5.800	7.800	9.800	260 m.w.c
C	3.200	4.900	6.500	8.200	280 m.w.c
D	2.200	3.400	4.500	5.700	300 m.w.c

Maximum height of propulsion: jusque á 300 m.w.c

#### ZM 51 Maxi - Top of the Market/Leader of the Sales

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	10.600	16.000	21.000	26.600	140 m.w.c
<b>Normal</b>	<b>9.000</b>	<b>13.300</b>	<b>18.000</b>	<b>22.200</b>	<b>160 m.w.c</b>
A	8.000	11.700	15.600	20.000	170 m.w.c
B	6.800	10.000	13.700	17.000	180 m.w.c
C	5.700	8.300	11.200	14.000	190 m.w.c
D	3.600	5.800	7.800	10.000	200 m.w.c

Maximum height of propulsion: until 200 m.w.c

#### ZM 63 Maxi - High flow for a low cost

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	17.300	25.900	34.600	43.300	100 m.w.c
<b>Normal</b>	<b>14.500</b>	<b>21.800</b>	<b>29.100</b>	<b>36.400</b>	<b>110 m.w.c</b>
A	12.700	19.100	25.500	31.900	120 m.w.c
B	10.900	16.400	21.800	27.300	130 m.w.c
C	9.000	13.600	18.200	22.700	140 m.w.c
D	6.300	9.500	12.700	15.900	150 m.w.c

Hauteur maximum de propulsion: until 150 m.w.c

#### ZM 76 Maxi - High flow in high heights

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	31.500	47.250	63.000	78.700	130 m.w.c
<b>Normal</b>	<b>27.500</b>	<b>41.300</b>	<b>55.000</b>	<b>68.700</b>	<b>150 m.w.c</b>
A	23.600	35.400	47.200	59.000	160 m.w.c
B	19.600	29.500	39.300	49.100	170 m.w.c
C	15.750	23.600	31.500	39.300	200 m.w.c

Maximum height of propulsion: until 200 m.w.c

#### ZM 95 Maxi - Best flow of the market

Production conforms to the RPM and the stroke of the pump

Stroke	20 RPM	30 RPM	40 RPM	50 RPM	HEIGHT
Extra	48.900	73.400	97.800	-----	90 m.w.c
<b>Normal</b>	<b>42.800</b>	<b>64.200</b>	<b>85.600</b>	<b>107.000</b>	<b>100 m.w.c</b>
A	36.600	55.400	73.900	92.300	110 m.w.c
B	30.500	45.700	61.000	76.200	120 m.w.c
C	24.200	36.700	48.900	61.100	130 m.w.c

Maximum height of propulsion: until 130 m.w.c