# *LUBING Wind Power Systems – well-proportioned and ecological*

LUBING

## *Wind Power Pump M 015-4*

| TECHNICAL DATA | | | |
|---|---|---|---|
| Wind m/sec. | 3 | 4 | 5 |
| Lit./day | 3300 | 4400 | 5700 |
| Wind m/sec. | 6 | 7 | 8 |
| Lit./day | 8000 | 10600 | 10600 |

**ORDER DESCRIPTION**

M 015-4, Weight = 35 kg

**RATE OF FLOW**

440 litres of water per hour at 8m/sec. wind

**MAX. ELEVATION**

9 m (7 m suction altitude + 2 m pressure altitude)

**CONNECTION**

Suction- and pressure pipe ¾“

The inside diameter of the well must be 45 mm at minimum.

## *Wind Power Pump M 015-6*

| TECHNICAL DATA | | | |
|---|---|---|---|
| Wind m/sec. | 3 | 4 | 5 |
| Lit./day | 5000 | 7800 | 9000 |
| Wind m/sec. | 6 | 7 | 8 |
| Lit./day | 12400 | 14400 | 14400 |

**ORDER DESCRIPTION**

Installation with 3 m tower =
M 015 - 6 - 3
Weight = 48 kg
Installation with 6 m tower =
M 015 - 6 - 6
Weight = 62 kg

**RATE OF FLOW**

600 litres water per hour at 8 m/sec. wind

**MAX. ELEVATION**

9 m at 3 m tower (7 m suction altitude + 2 m pressure altitude)

12 m at 6 m tower (7 m suction altitude + 2 m pressure altitude)

**CONNECTION**

Suction pipe 1” , pressure pipe ¾”

The inside diameter of the well must be 60 mm at minimum

## *Wind Power Pond Ventilator ML 015-6*

| TECHNICAL DATA | | | | |
|---|---|---|---|---|
| Wind m/sec. | 2 | 3 | 4 | |
| hauling volume | 0,43 | 0,65 | 0,87 | |
| Wind m/sec | 5 | 6 | 7 | 8 |
| hauling volume | 1,08 | 1,30 | 1,52 | 1,74 |

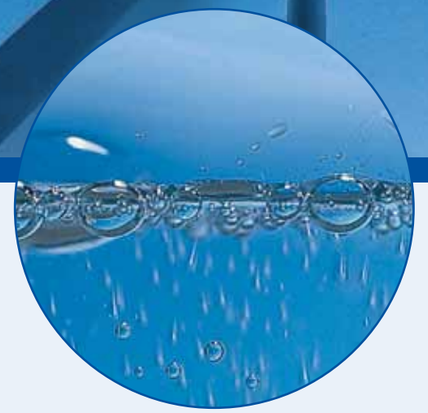
The installation can be delivered in 3 m and 6 m altitude and will be erected with a stay wire.

**ORDER DESCRIPTION**

Installation with 3 m-tower =
ML-015 - 6 - 3
Weight = 59 kg

Installation with 6 m-tower =
ML-015 - 6 - 6
Weight = 74 kg

# *Wind Power Systems*



*Water-Delivery/ Pool-ventilation without energy expenses!*

*Further information in the internet: www.lubing.com*

Technical changes reserved


LUBING

*DRINKING-SYSTEMS*
*CONVEYOR-SYSTEMS*
*CLIMATE-SYSTEMS*
*WIND POWER SYSTEMS*

*LUBING Maschinenfabrik GmbH & Co. KG*

*Lubingstraße 6 · 49406 Barnstorf · Tel.: +49 (0) 54 42 - 98 79-0*
*Fax: +49 (0) 54 42 - 98 79-33 · Internet: www.lubing.com*
*email: info@lubing.com*


10-05 / 2000

# Wind Power Systems –
## the favourable alternative

LUBING Wind Power Systems belong to the most modern small wind power systems in the world market, based on more than 30 years of experience. On account of a well considered construction these pumps are of highest economy.

With a rotor diameter of 1,50 m they reach high delivery capacity at low wind velocity.

### *LUBING Wind Power Systems are used for:*

- **Domestic water-supply**
- **Livestock water-supply**
- **Pool water-supply**
- **Water-circulation in fish ponds**
- **Garden irrigation and drainage**
- **Oxygenation of ponds**

### *The advantages of LUBING Wind Power Systems:*

- **high delivery capacity**
- **independent of electricity**
- **maintenance-free**
- **ecological**
- **easy installation**
- **no further costs**

### *CONSTRUCTION AND MODE OF OPERATION:*

The construction of all wind power systems is well proportioned, simple and maintenance-free, all rotating parts move in self-lubricating bearings.

The rotor blades are made of high-quality, weather-resisting plastic and they are shaped aerodynamically. The drive casing made of cast iron and the tower made of an electroplated steel tube are weather-proof, as well as all other details.

On account of the conical rotor plane the rotor automatically moves into wind direction because of the impact pressure. All installations are driven by fixed rotor blades. The pitch of the rotor blades is adjusted in a way that the permitted highest revolutions per minute (RPM) cannot be exceeded even in a storm of 120 km/h. All types are even able to go on pumping at highest efficiency then.

The systems start delivering already at a wind velocity of 3 m/sec.

### *ERECTION:*

The installation of these systems is very simple and can be carried out by everyone. All systems are suitable for all wells, rivers, pools, etc.. When setting up the systems the rotor should possible overtop all wind obstacles within a radius of about 150 m.

The average wind velocity at the German seaside is about 7 m/sec., in Northern Germany 5 m/sec., in Middle and Southern Germany 4 m/sec.

**WIND FORCE ACCORDING TO BEAUFORT:**

| Beaufort | m/sec. | designation | indication of the wind |
|---|---|---|---|
| 2 | 1,8-3,3 | tender | just perceptible for the face |
| 3 | 3,4-6,2 | faint | leafs are moved gently |
| 4 | 6,3-7,4 | temperate | twigs are moved |
| 5 | 7,5-9,4 | vigorous | disagreeable for the sense |
| 6 | 9,9-12,4 | heavy | branches are moved |
| 12 | über 29 | hurricane | devastating effect |

### *Wind Power Pump M 015-4*

This proved piston suction pump is used for domestic water-supply, water-supply of livestock, water-supply of pools, water-circulation in fish-ponds, garden irrigation and drainage, and oxygenation of ponds.

**The wind power pump has got 4 blades, the diameter of the tube tower is about 60 mm and will be delivered at a standard altitude of 3 m. It will be fixed with clamps at a jig or a rammed in pile.**

The piston suction pump (pump above water-surface) can be installed directly above or beside the well; nevertheless the resistance of the suction pipe including suction altitude may not exceed 7 m water column.

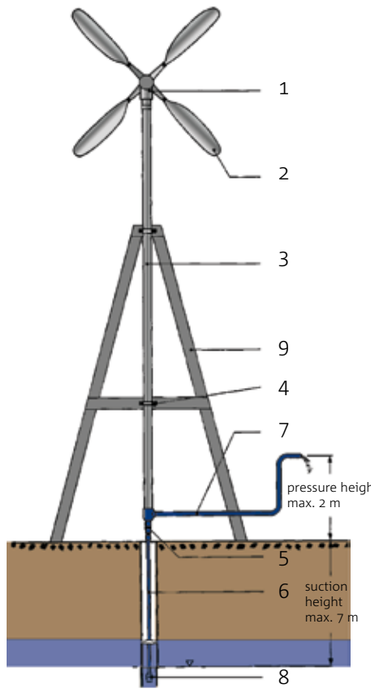
DELIVERY CONTENTS:

PARTS INCLUDED

1 driving head
2 wind blade
3 tube tower
4 clamp
5 piston pump

PARTS NOT INCLUDED

6 suction pipe
7 pressure pipe
8 coarse filter
9 jig




### *Wind Power Pump M 015-6*

This proved piston suction pump is used for domestic water-supply, water-supply of livestock, water-supply of pools, water-circulation in fish-ponds, garden irrigation and drainage, and oxygenation of ponds.

This pump provided with a 6-blade-rotor-hub has got a diameter of 60 mm and can be delivered with a tower altitude of 3 m and 6 m.

It will be erected with a guying. The piston suction (pump above the water surface) can be installed directly above the well, however the resistance of the suction pipe including suction altitude may not exceed 7 m water column.

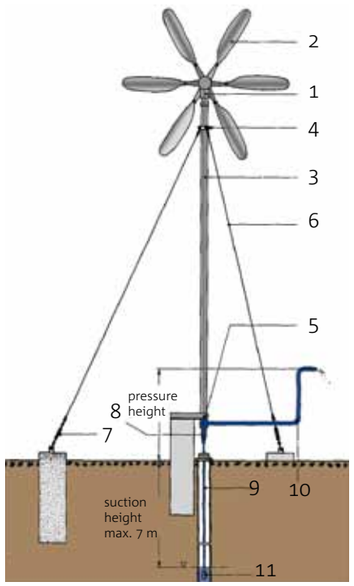
DELIVERY CONTENTS:

PARTS INCLUDED

1 driving head
2 wind blade
3 tube tower
4 guy ring
5 tower foot
6 wire rope
7 turnbuckle
8 piston pump

PARTS NOT INCLUDED

9 suction pipe
10 pressure pipe
11 coarse filter




### *Wind Power Pont Ventilator ML 015-6*

The LUBING Wind Power Pond Ventilator is a specially developed wind power air pump for oxygenating fish ponds. The oxygen problem will be solved in summer and winter time.

DELIVERY CONTENTS:

1 driving head
2 wind blade
3 tube tower
4 stay ring
5 tower foot
6 wire rope
7 stay lock
8 piston air pump
9 supply rubber tube
10 adjusting tube
11 backpressure valve
12 exhauster
13 swimmer
14 holding rope

At a wind velocity below 3 m/sec. the installation already starts to ventilate the pool. By means of suction pump the 6-blade rotor presses air into the 60 mm galvanised tube tower. The big volume of the tower tube is designed as a wind kettle and the air is led out steadily. From the lower part of the tube tower the air will be led through a supply hose, swimmer and adjusting tube to the non-return valve outlet. The adjusting tube can be manually moved by shifting at the swimmer and so the depth of the exhauster can be varied. The back pressure valve is fixed at the exhauster and causes the supply rubber tube to stay free of water and therefore frost-resistant. The swimmer together with the exhauster is kept in position inside the pond by the supply rubber tube and a retaining rope.