

Date:  
August 11, 2009

## Technical Newsletter

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Subject:

**New version for Minex**

**Dear Distributor,**

### **Design modification**

A new aluminium stator housing will be introduced, replacing the stainless steel stator housing. The height for the main cover will be reduced. The new design is not fully interchangeable with the old design, therefore a new revision number is created.

### **Pumps concerned**

Minex

### **Time for change**

From production cycle 5 year 2009 (date 2009-06-25) pumps are produced according the new version.

### **Identification**

Pumps with aluminium stator housing have a new version number, visible in the product number.

Minex – 8101.**171**-xxxx

Pumps with new versions will have serial number higher than 095xxxx has the new design and pumps with serial number lower than 094xxxx has the old design.

*Serial number explanation:*

*09 = Year of manufacturing (2009)*

*5 = Production cycle (8 cycles in one year)*

*0120 = 120th pump produced in that cycle.*

When communicating a pump identity it is necessary to state **both product- and serial number**.

### **Reason for change**

- Reduce pump height and weight
- Create a more robust pump design and achieve a more uniform design for the whole pump range.
- To be able to reusing the stator housing when changing stator.

### **Improvements – Minex**

*Item no. referring to Minex spare parts list (8101.171 rev 01)*

- Cover (item no. 26), reduced height.
- Cover (item no. 36), a fifth hole is added for more continuous o-ring pressure. A fifth screw (item no. 31) and washers (item no. 32) added.
- New o-ring (item no. 37) sealing between cover and stator housing for extra protection against dirt o-ring (item no. 38) added.
- Aluminium stator housing (item no. 39), a more robust design.

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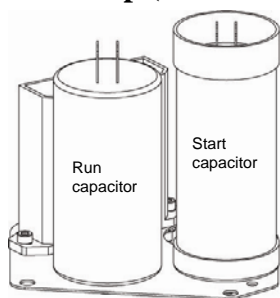
### New version for Minex

- Intermediate piece (item no. 55), improved geometric tolerances to achieve more exact alignment of bearing holder. Machined grooves added to simplify dismantling pump.
- Insert for dampers changed, larger contact surface to the rubber in order to improve the adhesive capacity.
- Discharge connection (item no. 9), material is changed from plastic to aluminium. If ordering on an old part number (plastic) it will be replaced with by an aluminium discharge connection.
- Washer (item no. 74) added for nut fastening the strainer.

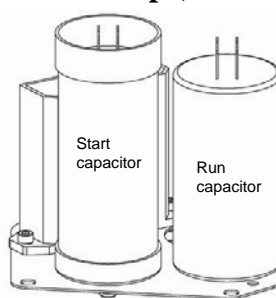
### Other changes

- A new smaller single phase stator is introduced for 230V 50 Hz (1,2 kW) and 60 Hz (1,3 kW).
- Start- and run capacitor has changed position with each other to avoid getting in contact with the new main cover with reduced height.

**Old setup (version 170)**



**New setup (version 171)**



- The extra thermal detector (item no. 35) has been changed to a new part no. because of new fastening method. It is also moved from the old upper bearing holder to cover (item no. 36)
- 1-phase start relay has been changed.

Start relay	New part number	Replaced part number
110-115 V	50 906 01	50 906 03
220-240 V	50 906 00	50 906 02

Flat pin connector number 13 and 14 are removed since it is not used when pump automatically restarts after tripping for overheating.

If there are an application requiring manual reset, change start relay to replaced part no. (available as spare part) see table above.

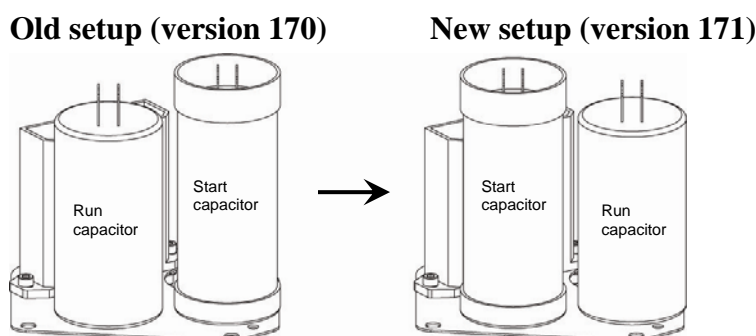
- Washer (item no. 63) added.
- Screws (item no. 64). Dimension changed, M8x60 (410 006) was M10x40 (410 005).

### Spare parts

Spare parts for Minex - version 8101.170-xxxx will be available for 10 years.

## Interchangeability

Start- and run capacitor has changed position with each other to avoid getting in contact with the new main cover with reduced height. Part number is the same 50891xx, always check position of start- and run capacitor is according to the new setup when mounting a capacitor unit in a Minex 8101.171-xxxx pump or changing main cover.



For changing to aluminium stator housing, following part need to be change:

Table 1. Valid for conversion from **version 170** to single phase pump with long stator (100 mm) 50 Hz (1,7 kW) and 60 Hz (1,6 kW) **version 171**.

*Item no. referring to Minex spare parts list (8101.171 revision 01)*

Denomination	Item no.	Part no.
Washer	32	410 013
Screw	34	410 008
Thermal detector	35	410 390
Stator housing	39	51 147 02
Washer	63	50 021 38
Screw	64	410 006
O-ring kit	500	51 166 00

Table 2. Valid for conversion from **version 170** to three phase pump with short stator house (60 mm stator) **version 171**. **Parts needed from both Table 1 and Table 2.**

*Item no. referring to Minex spare parts list (8101.171 revision 01)*

Denomination	Item no.	Part no.
Stator housing	39	51 152 00
Rotor unit	46	50 914 03
Outer casing	41	51 154 00

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Yours sincerely,  
*Ola Hällgren*  
Technical Manager

# Parts List

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