

## Guideline for replacement of parts

The table below shows the standard replacement cycle for parts. Please note that it varies depending on the conditions of use and water quality. To ensure safe operation, be sure to perform the periodic inspection once a year.

### 1. Compact pressure tank control system (constant pressure water supply, constant discharge pressure control) TERAL model: NX-LAT-e

Table 1

Classification	Part name	Criteria for replacement	Standard replacement cycle
Whole unit	Entire unit	Replace the entire unit. (renewal)	10 years
	Overhaul	Disassembly, inspection and maintenance	4-7 years
Pump	Bearing	Replace it if it overheats or makes unusual noise.	3 years
	Mechanical seal	Replace it if visibly leaking.	1 year
	Gland packing	Replace it if water leaks remarkably even after tightening.	1 year
Control panel	Electromagnetic switch	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Relay, timer	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Printed circuit board	Replace it if the operation of each operation is uncertain.	3 years
Apparatus	Check valve	Replace it if it malfunctions.	3-5 years
	Pressure reducing valve	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	3 years
	Pressure tank (diaphragm type)	Replace it if the pump stop time becomes extremely short.	3 years
	Pressure gauge, compound gauge	Replace it if pressure is released and the pointer does not indicate "0".	3 years
	Pressure switch	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	3 years
	Pressure sensor	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	5 years
	Flow switch	Replace it if operation is uncertain.	3 years
Foot valve	Replace it if it malfunctions.	2 years	

### 2. Large pressure tank control system (auto tank) TERAL model: KAT-e

Table 2

Classification	Part name	Criteria for replacement	Standard replacement cycle
Whole unit	Entire unit	Replace the entire unit. (renewal)	15 years
	Overhaul	Disassembly, inspection and maintenance	4-7 years
Pump	Bearing	Replace it if it overheats or makes unusual noise.	3 years
	Mechanical seal	Replace it if visibly leaking.	1 year
	Gland packing	Replace it if water leaks remarkably even after tightening.	1 year
Control panel	Electromagnetic switch	Replace it if it malfunctions or the contact is badly damaged.	5 years
	Relay, timer	Replace it if it malfunctions or the contact is badly damaged.	5 years
	Printed circuit board	Replace it if the operation of each operation is uncertain.	5 years
Apparatus	Check valve	Replace it if it malfunctions.	3-5 years
	Pressure gauge, compound gauge	Replace it if pressure is released and the pointer does not indicate "0".	3 years
	Pressure switch	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	3 years
	Solenoid valve	Replace it if operation is uncertain.	5 years
	Exhaust valve	Replace it if operation is uncertain.	5 years
	Intake valve	Replace it if operation is uncertain.	5 years
	Safety valve	Replace it if leakage occurs.	5 years
Foot valve	Replace it if operation is uncertain.	2 years	

**3. Compact speed control system (estimated terminal pressure constant control 7.5kW or less)**  
**TERAL model: NX-VFC-e**

Table 3

Classification	Part name	Criteria for replacement	Standard replacement cycle
Whole unit	Entire unit	Replace the entire unit. (renewal)	10 years
	Overhaul	Disassembly, inspection and maintenance	4-7 years
Pump	Bearing	Replace it if it overheats or makes unusual noise.	3 years
	Mechanical seal	Replace it if visibly leaking.	1 year
	Gland packing	Replace it if water leaks remarkably even after tightening.	1 year
Control panel	Inverter	Replace it if operation is uncertain.	7-8 years
	Electromagnetic switch	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Cooling fan	Replace it if it makes unusual noise or does not turn.	3 years
	Relay, timer	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Printed circuit board	Replace it if the operation of each operation is uncertain.	5 years
Apparatus	Check valve	Replace it if it malfunctions.	3-5 years
	Pressure tank (diaphragm type)	Replace it if the pump stop time becomes extremely short.	3 years
	Pressure gauge, compound gauge	Replace it if pressure is released and the pointer does not indicate "0".	3 years
	Pressure switch	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	3 years
	Pressure sensor	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	5 years
	Flow switch	Replace it if operation is uncertain.	3 years
	Foot valve	Replace it if leakage occurs.	2 years

**4. Large speed control system (estimated terminal pressure constant control 11kW or more)**  
**TERAL model: SVMV-e**

Table 4

Classification	Part name	Criteria for replacement	Standard replacement cycle
Whole unit	Entire unit	Replace the entire unit. (renewal)	15 years
	Overhaul	Disassembly, inspection and maintenance	4-7 Year
Pump	Bearing	Replace it if it overheats or makes unusual noise.	3 years
	Mechanical seal	Replace it if visibly leaking.	1 year
	Gland packing	Replace it if water leaks remarkably even after tightening.	1 year
Control panel	Inverter	Replace it if operation is uncertain.	7-8 years
	Electromagnetic switch	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Cooling fan	Replace it if it makes unusual noise or does not turn.	3 years
	Relay, timer	Replace it if it malfunctions or the contact is badly damaged.	3 years
	Printed circuit board	Replace it if the operation of each operation is uncertain.	5 years
Apparatus	Check valve	Replace it if it malfunctions.	3-5 years
	Pressure tank (diaphragm type)	Replace it if the pump stop time becomes extremely short.	3 years
	Pressure gauge, compound gauge	Replace it if pressure is released and the pointer does not indicate "0".	3 years
	Pressure switch	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	3 years
	Pressure sensor	If an error occurs in the set pressure value, readjust it. If uncertain, replace it.	5 years
	Flow switch	Replace it if operation is uncertain.	3 years
	Foot valve	Replace it if leakage occurs.	2 years