

Service Information no. 182

Chameleon Pre- Installation and Pre-Operation Check List

In order to secure correct installation and an optimum operation level on all Chameleon equipment, we are pleased to inform, that we have introduced to types of check list for our service/sales personnel.

Both check lists can be downloaded as word files, for translation into local language, from the web site: www.nilfiskfood.com

Pre-Operation check list - Chameleon

All check boxes must be marked before operation start!

**Nilfisk
ALTO**
Food Division

<input checked="" type="checkbox"/>	<i>Should you wish to go over the installation, please see the pre installation check list filled out before installation of the unit (item no.0645067).</i>
<input type="checkbox"/>	Before mounting of the unit, all pipe lines must be thoroughly rinsed in order to remove impurities.
<input type="checkbox"/>	Before connecting the unit to the power supply, always make sure that the installation is in accordance with local legislation - (for further details please see Installation guide).
<input type="checkbox"/>	Unit is in OFF position.
<input type="checkbox"/>	Water supply is open.
<input type="checkbox"/>	Pump is bled in accordance with directions laid down in the Installation guide.
<input type="checkbox"/>	Language version selected (menu FAA).
<input type="checkbox"/>	Date and time is set (menu EP).
<input type="checkbox"/>	Name etc. of Ecolab service technician has been typed in (menu EJ).
<input type="checkbox"/>	Note!!! : In connection with MB units, enter number of pumps (Menu GB).
<input type="checkbox"/>	Dry run level is set to 2 bar (menu EE).
<i>If all check boxes are ticked off, press START button!!</i>	

ECOLAB®

Pre-Installation check list – Chameleon

All check boxes must be marked before installation start!

IMPORTANT

This check list is only to be considered a guide line. The legislation in force at the time of purchase must always be considered in connection with the installation and mounting of this equipment, no matter the contents of this pre-installation check list.

For further information, please see the installation guide of the unit.

Installation must always be in accordance with local legislation.

1. Water supply

1.1 Inlet water supply: Min. 2 bar, at max.

Water consumption. We recommend carrying out a manual measurement.

List of recommended pipe dimensions

	SP1, SP2, SP3, SP4, SP5	SP6, SP7, SP8, SP9, SP10	SP11, SP12	SP13	SP14
Pipe	1 1/4"	1 1/4"	2"	2 1/2"	3"

Note: If the above requirements are not met, operational interruption, cavitations and pump damage might occur.

Note: We do not recommend that the water velocity exceeds 3/sec.

2. Water temperature

2.1 Water temperature is: max 70°.

Note: If the pump, for a considerable period of time, runs with only a small consumption, the water temperature in the top of the pump can exceed 70°C, which might cause a thermo pump error (C03).

3. Water quality

3.1 Water hardness is between 14-18 dH°.

Note: The above water hardness limit is only to be considered a recommendation as the limit depends on the individual installation and local conditions.

4. Filtration of water

4.1 If a main filter is not already installed, install a filter according to the below recommendations.

	SP1, SP2, SP3, SP4, SP5	SP6, SP7, SP8, SP9, SP10	SP11, SP12	SP13	SP14
Filter	1 1/4"	1 1/4"	2"	2 1/2"	3"
Union	1 1/4"	1 1/4"	1 1/4"-2"		

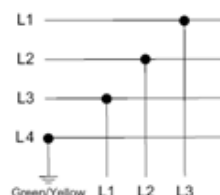
Note: If the water quality is lower than specified above, there is a risk of pump wear, blockage of pump, sensor and block and damaged o-rings in valves and sealings.

5. Power supply

5.1 Earth leakage circuit breaker (ELBC).

When using an earth leakage circuit breaker (ELBC) also known as a residual current device (RCD) or a residual current circuit breaker (RCCB) in a system that incorporates a variable speed drive connected to 3 phase 400V. The trip level of the ELBC has to be ≥300mA. (30mA used in house hold will malfunction due to earth leakage).

Main stations
3/PE 320 V-0%...528 V + 0%
48 Hz-0%...62 Hz + 0%



Note: Phase sequence unimportant. Earth leakage current >30mA. Pulse current or universal current sensitive earth leakage circuit breaker.

	SP1, SP2	SP3, SP4	SP5, SP6, SP7, SP8
Voltage	3/PE 400 (100 V) 50-60 Hz, 50-60 Hz	3/PE 400 (100 V) 50-60 Hz, 50-60 Hz	3/PE 400 (100 V) 50-60 Hz, 50-60 Hz
Frequency	50/60 Hz 50-60 Hz, 50-60 Hz	50/60 Hz 50-60 Hz, 50-60 Hz	50/60 Hz 50-60 Hz, 50-60 Hz
Water supply	0 GPa	0.2 GPa	0.2 GPa
Water pressure	10.0 bar	10.0 bar	10.0 bar
Air supply	10.0 bar	10.0 bar	10.0 bar
U, L, L2, PE	0.2 mm ²	0.2 mm ²	0.2 mm ²

5.3 Service switch mounted.

5.4 In connection with power supply to an automatic satellite (230V or 24V) an earth connection is always required.

6. Air supply

6.1 Air supply for the system is to meet the following specs.: Pressure: 5-10 bar/72-145 PSI Consumption: 200NI/min.

7. Piping

7.1 All pipes are firmly secured to the wall. (satellites and main stations must not carry the load of the pipes).



Should you need any further information do not hesitate to contact Nilfisk-ALTO Food Division sales department, direct tel. No.: +45 7218 2000.

Best regards

Nilfisk-ALTO Food Division

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