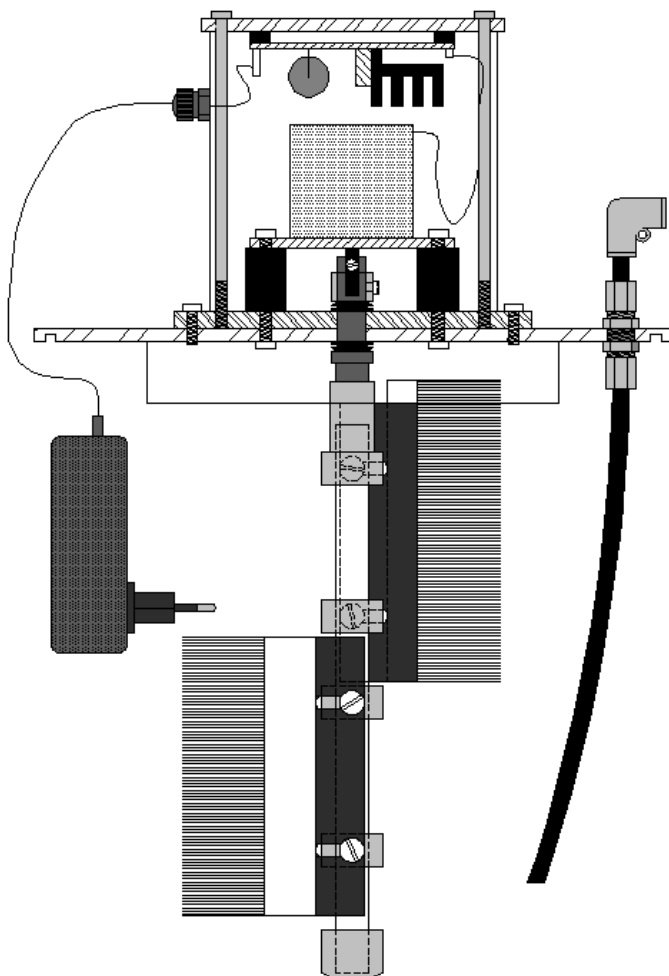




Cleaning System CS



Operating instructions
and Spare parts lists

Deltec Cleaning System *CS 160 / CS 200 / CS 250*

Fatty substances, produced by the skimming process, tend to cover the inner surface of the inner skimmer cup tube. These fatty substances will progressively reduce the performance of any protein skimmer. Only regular cleaning will maintain maximum skimmer performance.

When using a Deltec cleaning system, cleaning is fully automatic.

Function

The cleaning system has two functions

- 1) It cleans the inner surface of the inner skimmer cup tube
 - 2) It flushes and empties the skimmer cup at desired intervals
- 1) An electronically controlled step motor operates a pair of brushes, which remove the fatty substances from the inner skimmer cup tube. Unlike other systems using water flushing, the unwanted substances are not being washed down into the system, but removed into the skimmer cup.
- To start the unit the transformer connected to the cleaning head is plugged into a timer (the timer is not supplied). The timer should be set to at least one operation per 24 Hours. The duration of each cleaning cycle should only be one or two minutes.
- 2) The skimmer cup is automatically flushed. A siphon system will empty the cup also automatically. To do this, the skimmer cup must be connected to a pump feeding tap water to the skimmer cup from a reservoir, or to a solenoid valve fitted to a mains water supply. Either pump or solenoid valve must be controlled by a timer (the timer is not supplied). With the water supply switched on, the skimmer cup will be filled up to a set level, when the siphon (B) will automatically empty the skimmer cup through a special outlet (A). The piping into the drain should be as short as possible.

Important

The water supply into the skimmer cup should be at least 2 l/min to ensure proper functioning of the siphon system.

Installation

- Fit cleaning head onto skimmer cup.
- Check brushes for proper contact with skimmer cup tube. Adjust, if required, with screws (21).
- Plug transformer into a timer and set the timer as desired.
- Fit outlet (A) to skimmer cup. Hose tail should point downwards. Connect outlet (A) to a drain. Open shut off valve (A).
- Connect flexible pipe (supplied with cleaning head) from cleaning head to a water supply.
- Open water supply (minimum 2 l/min) and test siphon function.

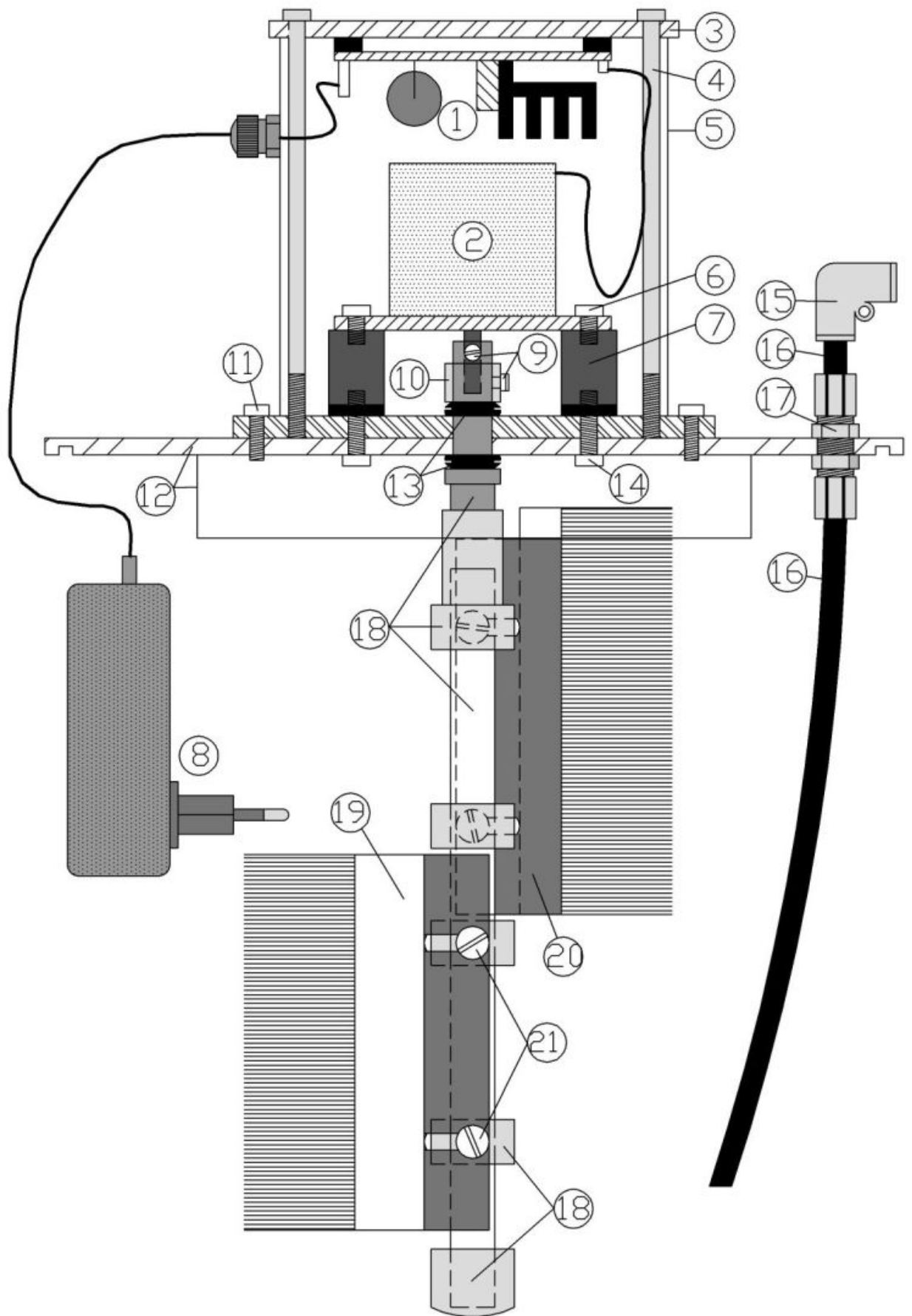
Safety

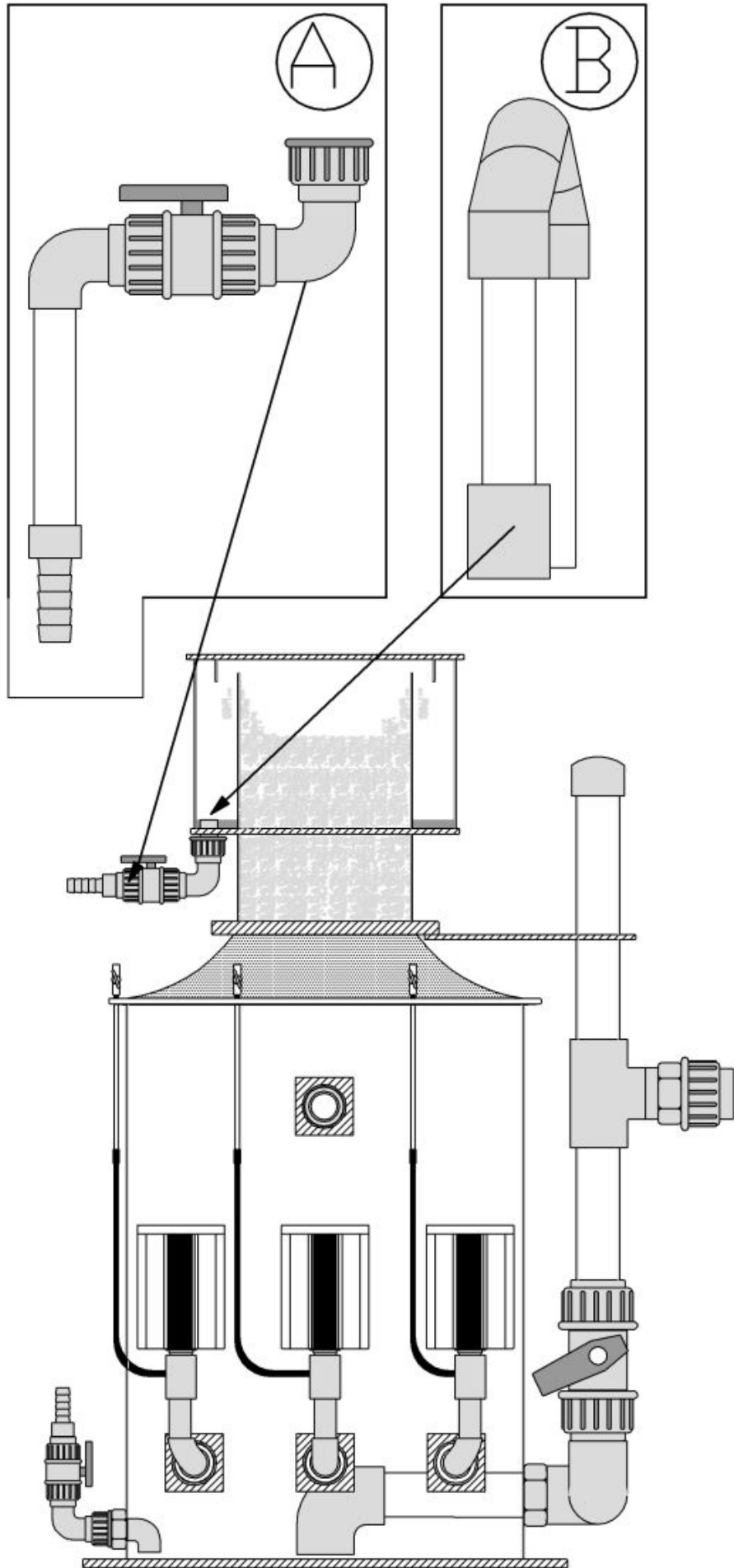
- The mains socket(s) for the transformer and possibly a solenoid valve **must** be located in a dry area. They must be positioned in such a way that contact with moisture or water is not possible.
- Shut off valve (A) must always remain in the **open** position when using the cleaning system. Closing of the shut off valve could lead to damage and loss.
- Test the cleaning system on a regular basis for proper function, especially the siphon system; check all connections for leaks.

Technical data

Voltage: 230V / 12V

Power consumption: 12 Watt





Spare parts list

	Art. Nr. CS 160	Art. Nr. CS 200	Art. Nr. CS 250	Bezeichnung	Description
	88100000	88101000	88102000	CS 160, CS 200, CS 250	CS 160, CS 200, CS 250
A	88100100	88100100	88100100	Ablauf	Outlet
B	88100200	88101200	88101200	Siphon	Siphon
1	11602400	11602400	11602400	Platine	Printed circuit
2	11602200	11602200	11602200	Motor	Step motor
3	88100300	88100300	88100300	Deckel Motor	Lid motor
4	12377000	12377000	12377000	Schraube M6x150 Metall	Screw M6x150
5	88100400	88100400	88100400	Rohr Motor	Tube motor
6	12371000	12371000	12371000	Schraube M6x10 Metall	Screw M6x10
7	11903000	11903000	11903000	Gummipuffer	Rubber buffer
8	11602500	11602500	11602500	Netzteil	Transformer
9	12350000	12350000	12350000	Schraube M4x8 Kunststoff	Screw M4x8
10	88100500	88100500	88100500	Haltering	Holder
11	12353000	12353000	12353000	Schraube M6x16 Kunststoff	Screw M6x16
12	88100600	88101600	88102600	Deckel Schaumtopf	Lid
13	10400490	10400490	10400490	V-Ring	V-Ring
14	12354000	12354000	12354000	Schraube M6x20 Kunststoff	Screw M6x20
15	10101230	10101230	10101230	Winkel 90	Elbow 90
16	61770000	61770000	61770000	Pneumatik-Schlauch	Pneumatic-hose
17	10101200	10101200	10101200	Verschraubung	Coupling
18	88100800	88101800	88102800	Welle mit Halter	Shaft with holder
19	88100900	88100900	xxxxxxx	Bürste klein	Brushes small
20	88100910	88100910	88102910	Bürste groß	Brushes big
21	12352000	12352000	12352000	Schraube M6x12 Kunststoff	Screw M6x12

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