



Please read carefully the instruction manual before starting the installation process. The installation should be in accordance to the local standards.

1. APPLICATIONS

The swimming pool pump model STREAMER Mini has a horizontal centrifugal construction. Its main application is to circulate the swimming pool pump water and normally it is installed before the filtration equipment. The pump is designed to move about incoming and the outgoing water from the chlorine disinfected swimming pool. The STREAMER MINI pumps have a removable basket for filtering of small solids.

2. TECHNICAL INFORMATION

2.1 Maximum environment temperature: +50°C.

2.2 Water Temperature: From 0°C to 50°C

2.3 Maximum working pressure permitted: 2 Bar.

2.4 Maximum inlet pressure: When the pump Works with a closed valve the inlet pressure should be lower than the maximum working pressure permitted always.

2.5 Minimum suction head:

TYPE	Maximum Suction with Check Valve	Maximum Autosuction
STREAMER MINI	5 m	4 m

2.6 Self Priming: The STREAMER MINI pumps are self priming up to 4m height.

2.7 Electrical Details:

TYPE	Voltage
STREAMER MINI-33M STREAMER MINI-50M STREAMER MINI-80M STREAMER MINI-100M	1 x 230 V 50 Hz
STREAMER MINI-80T STREAMER MINI-100T STREAMER MINI-150T	3 x 230 / 400 V 50 Hz

See also the characteristics plate.

Water proof type: IP55

Isolation Class: F

2.8 Dimensions: See the drawing on the final of this manual

2.9 Sound level: The sound pressure level of the pump is lower than 70db.

2.10 Weights:

Streamer Mini Series	Weight (kg)
STREAMER MINI-33M	8,750
STREAMER MINI-50M	9,150
STREAMER MINI-80M	11,050
STREAMER MINI-80T	11,350
STREAMER MINI-100M	12,050
STREAMER MINI-100T	11,450
STREAMER MINI-150M	12,150
STREAMER MINI-150T	11,550

3. INSTALLATION

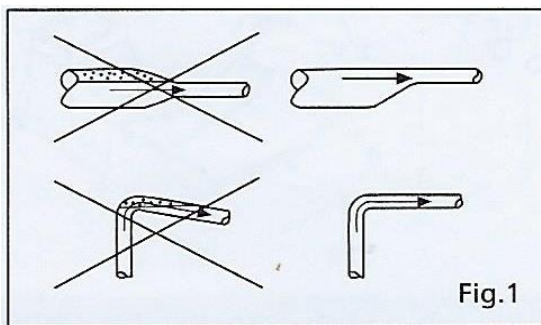
Normally the STREAMER MINI swimming pool pumps are installed between the skimmer/balance tank and the swimming pool filter.

The pump should be placed on a flat, solid foundation with the shaft in horizontal position and the prefilter cover uppermost.

It must be possible to remove the transparent cover so that the prefilter basket can be removed for cleaning.

The suction pipe must have as minimum the same diameter as the pump suction line with continuous slope in order to avoid long priming times. If the suction line exceeds 10 meters, the extra pressure loss should be considered.

The pipes should be installed to avoid any air leaks in its interior. The following drawing shows a correctly fitted piping.



The pipes should be fitted in such a way that any pressure variation caused by temperature changes do not effect the pump. If the piping is very long and/or high support the pump in front and behind. It is reccomendable to put a retention or check valve at the outlet.



The plastic pipes and connections should be screwed carefully.

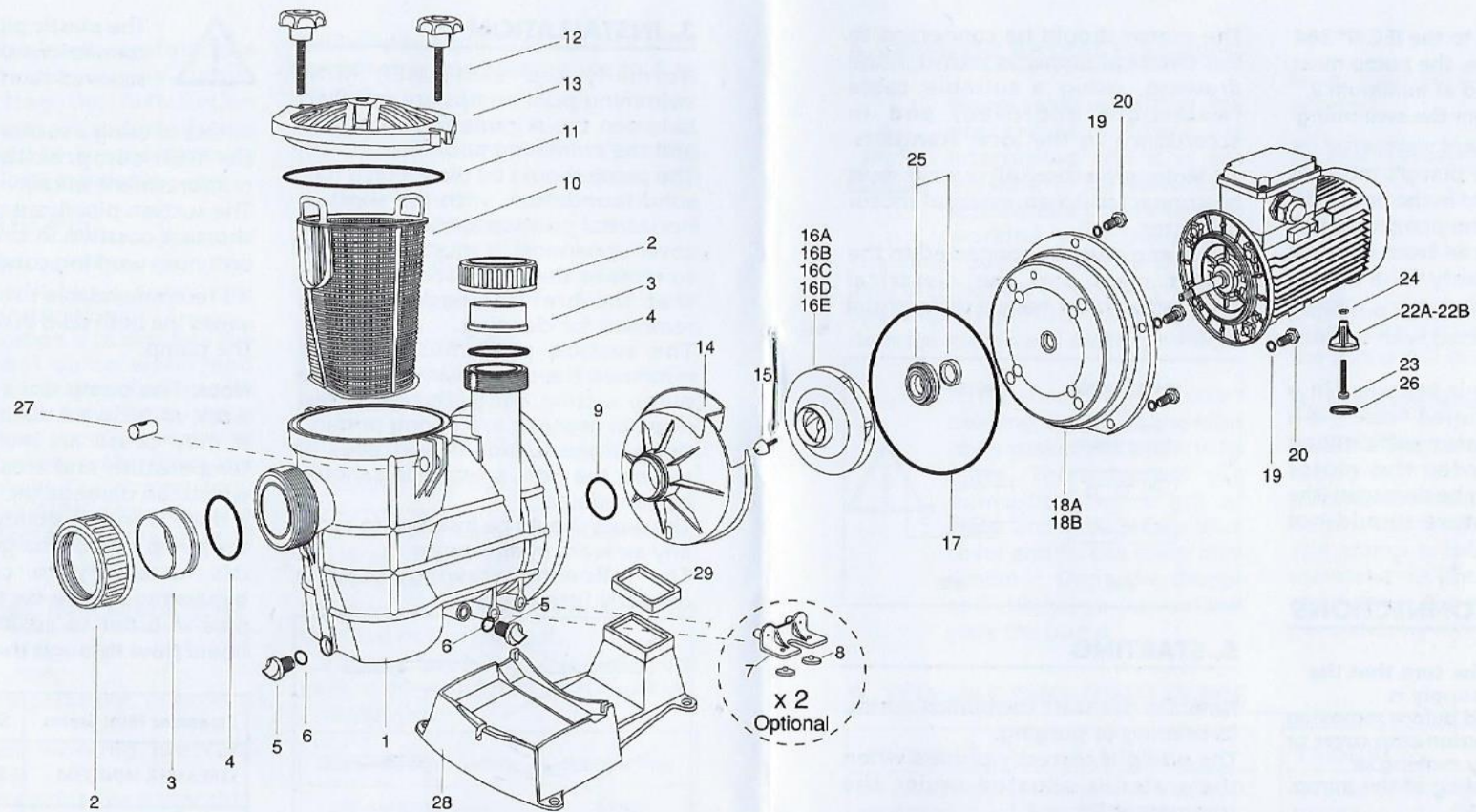
In case of using a suction hose, it must be non-compressible (with a reinforcement spiral).

The suction pipe/hose should be the shortest possible in order to assure optimum working conditions.

It's recommendable to install shutting valves the both sides in order to isolate the pump.

Note: The pump does not allow to work with closed discharge valve as it may cause an increase of the temperature and steam formation which can damage the pump. If there is any possibility of operating the pump with discharge valve closed, it's necessary to connect one bypass/mud valve on the discharge pipe in order to assure a minimum liquid flow through the pump.

Streamer Mini Series	Suction Pipe Size
STREAMER MINI-33M	1 1/2" (Ø50 mm)
STREAMER MINI-50M	1 1/2" (Ø50 mm)
STREAMER MINI-80M/T	2" (Ø63 mm)
STREAMER MINI-100M/T	2" (Ø63 mm)
STREAMER MINI-150M/T	2 1/2" (Ø75 mm)



NO	CODE	DESCRIPTION	NO	CODE	DESCRIPTION	NO	CODE	DESCRIPTION
1	0111STRM01	Streamer pump body	12	0111STR09	Prefilter lid bolt	18B	0111STRM13	Mini Streamer rear pump body (63 body)
2	13111412A	Mini pump connection nut 1 1/2"	13	0111STRM06	Mini Streamer prefilter lid	19	03202	Washer inox M8
3	0111STRM02	Mini pump pipe connection 1 1/2"	14	0111STRM07	Diffuser for mini pump	20	0111STR21	Inox screw M8x20
4	0111STRM03	Gasket for mini pump union	15	0111STR37	Inox counter screw M6x20	22A	0111STR30	Pump leg (80 body), Mini Streamer (71 body)
5	0111STR02	Drain plug	16A	0111STRM08	Mini Streamer impeller 1/3 HP	22B	0111STR30A	Mini Streamer pump leg (63 body)
6	0111STR03	O-ring for drain plug	16B	0111STRM09	Mini Streamer impeller 1/2 HP	23	0111STRM17	Inox screw, for motor leg M5x40 (Mini STR.)
7	0111STR04	Pump leg	16C	0111STRM10	Mini Streamer impeller 3/4 HP	24	0111STR33	Inox nut, for motor leg M5
8	0111STR05	Antivibrator pad for pump leg	16D	0111STRM11	Mini Streamer impeller 1 HP	25	0111STR34	Mechanical seal complete
9	0111STR06	Diffuser gasket	16E	0111STRM14	Mini Streamer impeller 1,5 HP	26	0111STR35	Antivibrator pad for motor leg
10	0111STRM04	Mini Streamer prefilter basket	17	0111STRM12	Mini Streamer pump body o-ring	27	0111STR36	Housing for filter lid bolts
11	0111STRM05	Mini Streamer prefilter lid gasket	18A	0111STRM13A	Mini Streamer rear pump body (71 body)	28	0111STRM04H	High pump leg (Mini Streamer) (New optional base)
						29	0111STRM04H1	High pump leg chock (Mini Streamer) (New optional base chock)



According to IEC N°364 publication, the pump must be installed at minimum 2 meters from the swimming pool edge.

3.1 Ventilation: The pump's motor is cooled by fan, placed in the back side. You should install the pump in a well ventilated place (free from possible freezing), preferably in a room.

a) If the pump is installed outdoors, it must be protected with suitable cover.

b) If the pump is installed in a buried or semiburied "case", it is necessary to assure a sufficient air entrance in order the motor ventilation not to be damaged (the inside temperature should not exceed the 50°C).

4. ELECTRICAL CONNECTIONS



Please make sure that the electrical supply is interrupted before removing the connection case cover or before any moving or disassembling of the pump.

Electrical connections must be done by a Professional and according to the local standarts.

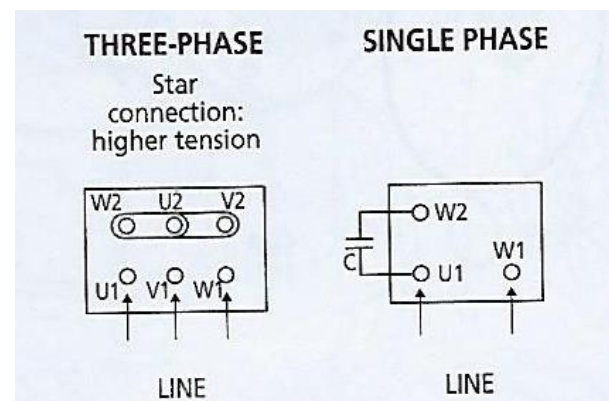
The pump must be connected to an external switch.

The voltage and frequency are marked on the characteristics plate. Please make sure that the motor is suitable to electrical supply in the network.

The motor should be connected to the electrical supply as shown in the drawing, using a suitable cable (watertight approved) and in accordance to the local standarts.

4.1 Motor Protection: All version must be connected to an external motor protector.

The pump must be connected to the outlet mass and electrical installation must have a differential circuit.



5. STARTING

Note: Do not start the pumps during its priming or purging.

The pump is correctly primed when the water is situated under the transparent lid. The arrows on the pump housing indicate the correct rotation.

In order to create a maximum suction capacity during the starting, close the discharge valve, start the pump and open slowly the discharge valve. If the pump does not work correctly 5 minutes later, stop the pump check the water level in both the suction pipe and in the pump prefilter.

6. PREFILTER BASKET CLEANING



Please make sure that the electrical supply is interrupted and it is not possible to be connected accidentally before to start working with the pump.

The filter basket must be checked daily and cleaned if necessary. **Before opening the prefilter cover, please close the suction and discharge valves.**



After the filter basket cleaning, clean also the filter cover gasket and put it in its place. Then check if the pump housing is full of water and if so, put the filter cover and fix the cover nuts similarly. Open the charge and discharge valves and start the pump.

9. TROUBLE SHOOTING

TROUBLE	CAUSE
The pump works, but does not prime.	<ol style="list-style-type: none"> 1. No water in the strainer pot. 2. Pump not purged. 3. Filtration in the piping / suction hose. 4. Incorrect closing of the transparent lid. <ul style="list-style-type: none"> - Check the prefilter basket - Tight well the lid screws 5. Too high suction head <ul style="list-style-type: none"> - Maximum suction head permitted is 3 meters. 6. The suction line sucks air through connections. 7. Mechanical seal leaking.

Note: High pressure cleaning is not allowed.

7. WINTERIZING

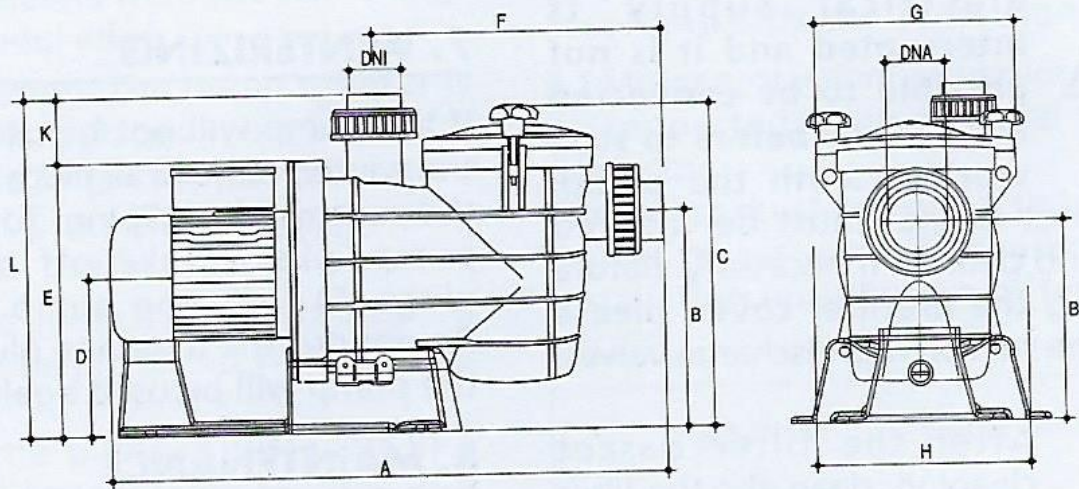
If the Pump will not be used during the winter, remove all plugs and drain the pump and all piping. To drain the pump, please take off the drain plugs (5) from the pump housing. Do not put the drainage plugs up till the pump will be used again.

8. MAINTENANCE

Please make sure that the electrical supply is interrupted and it is not possible to be accidentally connected before the pump to start working. The pump is designed to operate maintenance under normal working conditions. The motor bearings are permanently lubricated.

TROUBLE	CAUSE
The pump does not work satisfactory.	<ol style="list-style-type: none"> 1. Incorrect direction of rotating (only in case of 3-phase pumps) <ul style="list-style-type: none"> - Change the rotating direction 2. The prefilter basket or the skimmer are dirty or blocked. <ul style="list-style-type: none"> - Clean the prefilter basket 3. The water level in the swimming pool is too low. <ul style="list-style-type: none"> - Increase the water level up to the 1/2 of the pool capacity 4. The piping / hose is partially blocked by impurities <ul style="list-style-type: none"> - Clean the piping / suction hose.

STREAMER MINI DIMENSIONS DRAWING



TYPE	DIMENSIONS (mm)											
	DNA	DNI	A	K	B	C	D	E	F	G	H	L
STRM - 0,33M	1 1/2"	1 1/2"	500	70	175	280	125	230	255	205	175	300
STRM - 0,50M	1 1/2"	1 1/2"	500	70	175	280	125	230	255	205	175	300
STRM - 0,80T/M	1 1/2"	1 1/2"	500	70	175	280	125	230	255	205	175	300
STRM - 1,00T/M	1 1/2"	1 1/2"	500	70	175	280	125	230	255	205	175	300
STRM - 1,50T/M	1 1/2"	1 1/2"	500	70	175	280	125	230	255	205	175	300