

OPERATING INSTRUCTION

Thank you for buying a Wanjet F40!



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Technical data



This unit is intended for disinfecting and indoor plant protection purposes.

Capacity	0-17 l/h (water)
Control unit	microprocessor
Reach 60 m approx.	(Can be increased by help of circulation fans)
Tank capacity	2x12 l
Cleaning system	Automatic
Input AC	380-400V, 2N~
Fan capacity	10800 m ³ /h
Fan, power	2x370 W
Blower, power	2x1000 W
Adjustable height	140-190 cm
Dimensions	130x100x16cm (lxbxh)
Weight.....	75 kg

Safety precautions

- With regard to the quantity of chemicals, safety instructions and personal protective equipment, always follow the directions of the chemical manufacturer.
- During and after atomisation of dangerous substances the space must be closed off and marked so as to prevent unauthorised persons entering the area. The space must be well ventilated when the mist has set.
- Do not wash the unit down with water.
- Personal protective equipment must be used when working on the unit if there are residues of hazardous chemicals.
- The unit must never be operated with flammable chemicals.
- Repair of the electrical equipment may only be carried out by qualified persons or by a Wanjet repair centre.
- Use only a four core cable with the yellow-green wire as earth.
- Never move the machine with chemicals in the tank.
- Always lock the solution tank with a safety catch at the bottom of the tank and ensure that the telescopic arm is locked in its lowest position.

Working instruction

If the machine has never been used read through the initial start-up section before starting operation.

Placing the unit

Position the unit in the space to be treated. See attached sketch (PI 7) for an example. Please take into account the following:

1. Use existing ventilation system if it can be used together with the unit.
2. Set the fan housing on the unit so that it is directed 15 -20 upwards.
3. Always avoid directing mist towards plants. The space in front of the machine must be free.

Mixing and filling the solution

Clean water alone is normally used as a carrier. The water should have a temperature of about 30 C so that the chemicals dissolve easily. The normal mixing ratio is:

Type of preparation	Parts of preparation	Parts of water
Powder suspensions	1	20
Liquid emulsions	1	10-20

With regard to the quantity of chemicals (active substance) always follow the directions of the chemical manufacturer!

The solution should always be mixed to a homogeneous state before filling the tank. An anti-foaming agent should be added if the preparation starts to foam.

Fill up the cleaning tank with clean water.

Be careful to ensure that the tank is positioned correctly and is locked with a safety catch and that the telescopic arm is locked in the lowest position.

Adjustment of solution valve

Set the solution valve to the desired position:

Number of revolutions (water)	Scale line	Flow l/h
0	1	2,8
0	2	4,5
0	3	5,0
0	4	6,5
0	5	7,4
1	0	8,3
2 (fully open)	0	8,5

Please note that with the agitation of the preparation the solution normally has a more sluggish viscosity

Description	Display shows	Fault codes
Prevention starts. (Start time set - prevention time set).	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PREVENTILATION STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	During operation the microprocessor monitors a series of functions on the unit. The table below shows how the fault is indicated, the reason and what happens.
Atomisation starts at the set time and functions until the electronics sense no liquid in the solution tank.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> TREATMENT STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	Three signals are heard when the main switch is turned on.
The program mechanically operates the atomisation thereafter for a further 5 minutes. (atomisation 2)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> TREATMENT 2 STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	Sound signals + display "EMPTY TANK"
After this the pump starts and pumps the water during 60 s from the cleaning tank to the solution tank.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PUMPING STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	"NO WATER" No liquid in solution tank or level scanner out of order. Operation suspended. No water in the cleaning tank, defect in pump or out of order on account of dirt. Operation continued. After fault message is confirmed by OK, "F2" the final time for the operation is shown on the display.
The blower unit starts. The water in the solution tank is atomised together with the solution residue. The program is mechanically operated for a further 5 minutes after the electronics sense no liquid in the solution tank.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> CLEANING STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	">MAX TREATMENT T" Liquid in the tank has not been drained in the maximum time shown in the pre-settings. Operation has been suspended.
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> CLEANING 2 STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	"MAX. CLEANING" Water that is pumped down in the solution tank takes longer to mist than that indicated as maximum cleaning time. Operation has been suspended.
Agitator and fan stop. The fan disperses the mist during the pre-set time.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> POSTVENTILATION STOP </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	"POWER CUT" Supply interruption has been longer than the maximum permitted in pre-settings.
The treatment is ended. The time when the treatment is ended is shown on the display.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> STOPPED hh:mm OK </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 40px; margin: 0 auto;">F2</div> </div>	"HIGH VOLTAGE" Too high input voltage. Machine cannot be started. "LOW VOLTAGE" Operation completed as normal. Check mains socket-outlet and plug.

Cleaning and maintenance

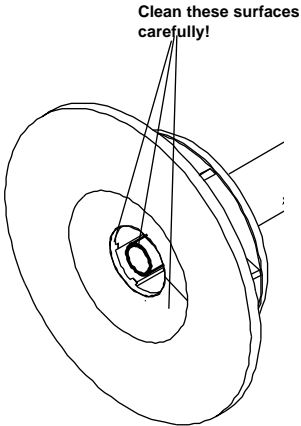
Cleaning after each occasion of use

Clean tank thoroughly by washing it several times. Also dry away any solution residues on the tank cover's inside and outside.

Change or clean the filter on the blower unit's air intake.

The ULV nozzle must be cleaned regularly from chemical deposits taking care not to cause mechanical damage.

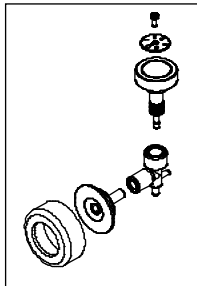
Ensure thorough cleaning of the ULV-nozzle pipe, the air passage opening as well as the outside of the ULV-nozzle. It is to be noted that a chemical deposit of one or a few tenth parts of a mm reduces the unit's vacuum and thereby it's output.



It is not necessary - nor recommended - to release the ULV nozzle for regular cleaning.

Cleaning of the solution valve

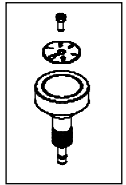
In case of a blockage in the solution valve during operation this can frequently be corrected through opening the valve. If this is insufficient unscrew the solution valve needle. Check the needle and valve seat.



Calibration of solution valve

With wear and tear the nozzle does not start atomising directly after setting of solution valve to zero. The solution valve is calibrated as follows:

1. Detach the screw in the centre of the dial.
2. Open the valve so that a spray of mist is visible.
3. Turn the valve anti-clockwise until the spray completely stops.
4. Turn the dial into position with the aid of a calibration hole and screw tight.



Spare parts

The spare parts for Wanjet F 30 are to be found in the exploded views at the back of the operating instructions. When ordering spare parts please quote quantity and article number together with type and serial number of the unit. The unit is identified on the control box above the appliance socket.

Test of individual functions

The individual function on the unit may be operated manually. Example: **Description** **Display shows**

Main switch turned on. Choose SET by pressing "F1" once.

WANJET F 30
INSTÄLL

F1 x 1

Display shows.

Start
QUIT >
OK

Scroll forward to TEST by pressing "+" three times.

+ x 3

Display shows.

< **TEST** >
QUIT **OK**

Choose OK by pressing "F2".

F2 x 1

Display shows.

AGITATOR >
QUIT **OK**

Choose desired test function by scrolling with "+" and "-".

F2 x 1

Confirm with OK, "F2".

Example: Agitator selected

Display shows.

< **AGITATOR** **OFF** >
OK

Start agitator with "+" and stop with "-". Finish with OK, "F2".

+ x ?

Choose one of the other test functions or choose QUIT, "F1".

- x ?

F2 x 1

Notice that the pump's operating time is maximised to two minutes to avoid over-heating. Thereafter, display shows "OVER TIME".

The level sensor in the tank can also be tested. Display shows "DRY" if there is no liquid in the tank while a pip is heard from the buzzer inside the electronics box.

Output test

In order to check the flow for a particular setting on the solution valve a flow test may be carried out. All other functions are tested at the same time. Start by filling the cleaning and solution tanks respectively with at least 0.6 l of water.

Description

Display shows

Unit's main switch is turned on. Display shows.

WANJET F 30
SET

F1 x 1

Go next to flow test. Press "F1" once, "+" three times, "F2" once and "+" five times.

+ x 3

+ x 5

Display shows

< **OUTPUT** >
QUIT **OK**

Choose flow test by pressing OK, "F2".

F2 x 1

Display indicates

"+" TO START
OK

Press "+" to start test.

+ x 1

The unit then runs through the entire program.

CHECKING SYSTEM
STOP

PREVENTILATION
STOP

TREATMENT
STOP

PUMPING
STOP

CLEANING
STOP

POSTVENTILATION
STOP

OUTPUT: XX.X l/h
OK

When the operation is finished an incorrect flow is reported.

Leave the water that has not been sucked up from the tank.

Pour 1.0 l exactly in the solution tank and a few decilitres in the water tank.

Carry out the flow test once more by pressing "F2" followed by "+".

Initial start-up

Before machine is connected to power supply check that the fan impeller can rotate freely without touching the fan housing.
Install chassis and connect cables from the agitator. See exploded views D 58 and D 60.

Machine's control unit

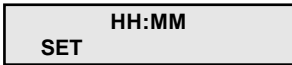
The machine's control unit is equipped with a main switch and keyboard with display.

After connection of the electric cable to the appliance socket the main switch is set in position 1.

The display on the keyboard is turned on and for a few seconds there appears:



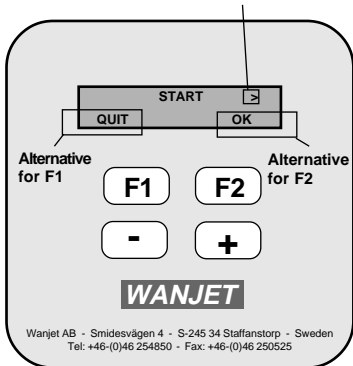
X shows the version number of the program in the machine. A new text automatically appears:



HH:MM stands for the time. The clock on the machine operates even if it is not connected to the mains. On delivery the machine is programmed in English and prior to operation the language may be changed. Choose "set" by pressing "F1" on the keyboard.

This symbol indicates that there is an alternative to the right.

Display on keyboard shows start.
The bottom line indicates the choice for keys "F1" and "F2".
The keys "-" and "+" indicate scrolling to left and right respectively.



Wanjet AB - Smidesvägen 4 - S-245 34 Staffanstorp - Sweden
Tel: +46-(0)46 254850 - Fax: +46-(0)46 250525

Description

Display shows

Main switch is turned on.
Choose SET by pressing "F1" once.



F1 x 1

Display shows.



Choose setup by pressing "+" twice

+ x 2

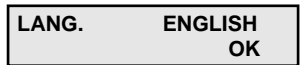
Display shows.



Confirm choice and scroll down 4 stages by pressing "F2" five times.

F2 x 5

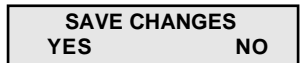
Display shows



Choose language by scrolling with "+"

+ x ?

If English is chosen display shows



Choose yes by pressing "F1".

F1 x 1

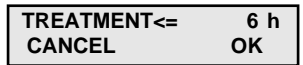
Display shows.



Remaining settings carried out in English.
Choose OK by pressing "F2" once.

F2 x 1

Display shows.



Choose maximum number of hours for treatment (time for atomising solution).

x ?

x ?

F2 x 1

Description (1-24 h) by increasing or decreasing with "+" or "-". Pre-selected value is 6 h. Confirm choice by pressing "F2".

Display shows

CLEAN< CANCEL	1 h OK
------------------	-----------

Display shows

Choose maximum number of hours (1-24 h) for cleaning in same way as previous item.

+ x ?

- x ?

F2 x 1

Display shows

PWR CUT< CANCEL	3 h OK
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Choose maximum number of hours interruption of current is acceptable for operations to continue when power supply returns.

+ x ?

- x ?

F2 x 1

Atomisation gap means blower unit stops at regular intervals during operation for a number of seconds. Any particles that may block the solution pipe can sink back to the tank. Choose yes with "+" and no with "-". Confirm choice by "F2".

FOG PULS CANCEL	YES OK
--------------------	-----------

+ x ?

- x ?

F2 x 1

Display shows

LANG.	ENGLISH OK
-------	---------------

This is already set, confirm only with OK "F2".

F2 x 1

Description Display shows.

Set clock by pressing "-" once and then "F2".

Display shows

< SETUP >
QUIT OK

- x 1

F2 x 1

Display shows

<CLOCK >	hh:mm
QUIT	OK

Change hours, minutes, year, month and day with "+" or "-". Confirm each value with "F2".

+ x ?

- x ?

x

F2 x 1

Display shows

< CLOCK >
QUIT OK

The control unit is now complete and ready for operation. The settings are stored in the memory for at least six months without the machine being connected to the mains. For starting up the unit see section "Working Instruction" on page 1.

Troubleshooting

The table shows some of the most common faults that may arise with the unit.

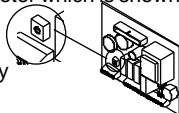
Fault	Reason	Corrective measure
Atomisation output has ceased or is very low.	Blockage in suction system. Blockage in solution valve Defective o-ring on solution valve, air enters in the system.	Clean Clean Replace
Pulsating mist spray	Partial blockage in suction system, dirty ULV nozzle or suction system draws air.	Clean the system
Empty tank reported at start although there is liquid there.	Coating on electrode and/or suction pipe. Weak liquid flow.	Clean Adjust sensitivity for electrode, see below. Replace
	Damaged cables between circuit board and electrode and/or solution pipe Defective circuit board.	Replace
Machine gets stuck in "atomisation" position although solution is finished. "Max atomisation" shown on display.	Strong foam formation in tank causes circuit between electrode and suction pipe, despite the tank being empty. Coating on agitator's underside and/or suction pipe and electrode.	Add a few drops anti-foam agent in preparation mixture.
Poor visibility of symbols on the display.	Setting	Change setting according to instruction in the section on display on display settings.

Sensitivity adjustment on level sensor

Please note that this is only to be carried out after thorough cleaning of the electrodes and only in those cases where the water that is normally used in the machine has low conductivity.

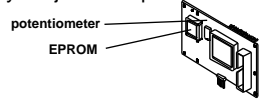
Remove the unit's mains cable. Unscrew the cover on the capsule of the electronics unit. On the driver IC at the bottom of the capsule there is a circuit board. On the board there is a potentiometer which is shown in the illustration. On delivery the potentiometer is turned the maximum clockwise. If sensitivity is to be increased the procedure is used of testing the level scanning with clean water in the solution tank.

Increase the sensitivity carefully by turning the potentiometer anti-clockwise until the display shows "wet".



Display setting

On the back of the control unit cover there is a circuit board with a potentiometer for setting of optimal reading angle of the display. Adjust the optimal reading angle with a screw-driver.



Guarantee

1. The guarantee period is 12 months starting from the date of delivery.
2. The guarantee covers the repair or replacement of parts that, after examination by Wanjet AB, are shown to have material or manufacturing defects.
3. The guarantee does not cover labour and transport costs.
4. The guarantee is valid only when the unit has been operated in accordance with recommendations in this operation manual.
5. Wanjet is not responsible for any form of damage to persons, animals, plants or property or consequential losses of any kind arising from use or misuse of the unit.
6. For claims under the guarantee to be valid it is necessary for the current service code to be enclosed with the unit or defective parts. In order to obtain service code.

Service code

The service code is intended to facilitate identification of the machine and contains information that makes serial and version numbers unnecessary.

Press "F1" once, "+" three times and "F2" once in order to obtain the first line:
4 + 4 + 6 = 14 figures and letters.

then press "F2" once in order to obtain the second line:

4 + 4 = 8 figures and letters.
Then press "F2" to finish.

CE Declaration of conformity

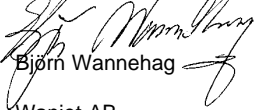
We testify that this product conforms with the following directives:

89/392/EEC, 91/368/EEC, 93/44/EEC and 93/68/EEC.

EN 50 081-1 (1992), EN 50 082-1 (1997)

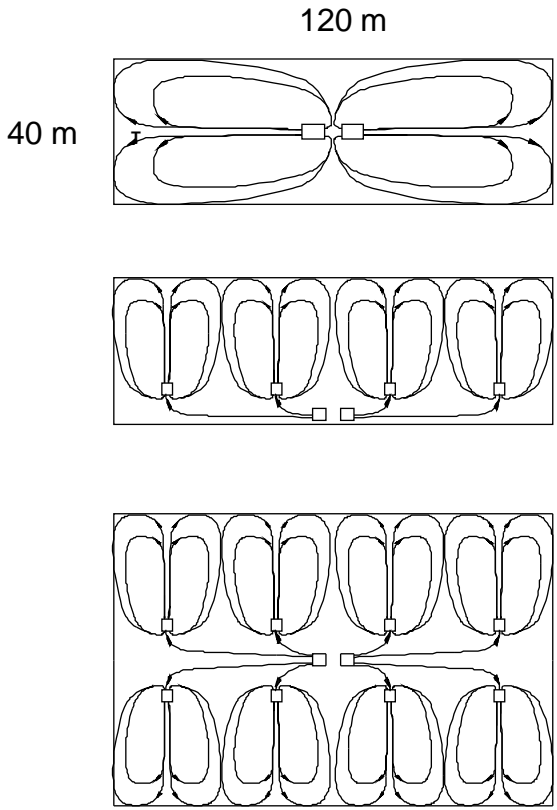
EN 60 335-1:94, A11, A1, A12

72/23/EEC, 93/68/EEC



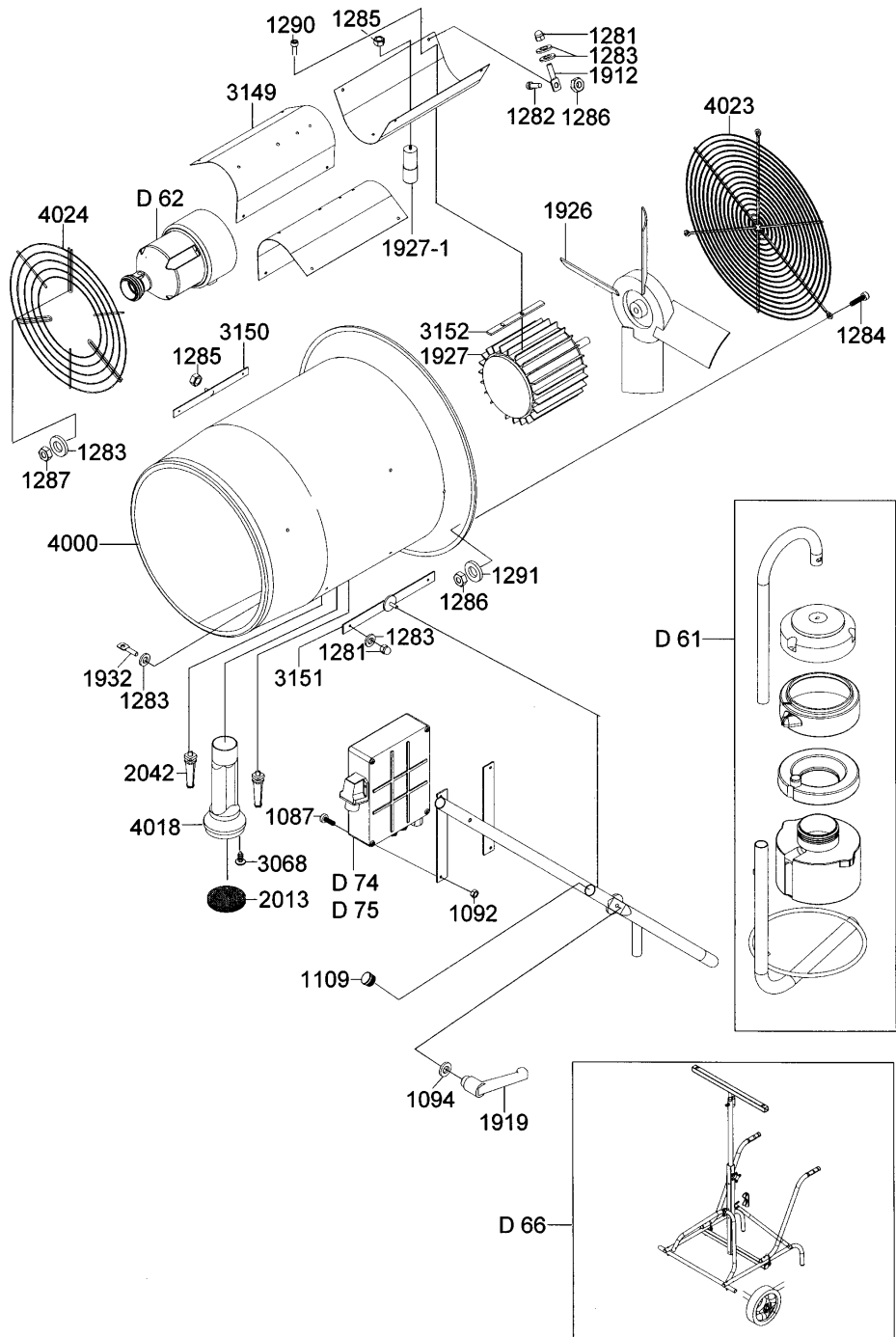
Björn Wannehag

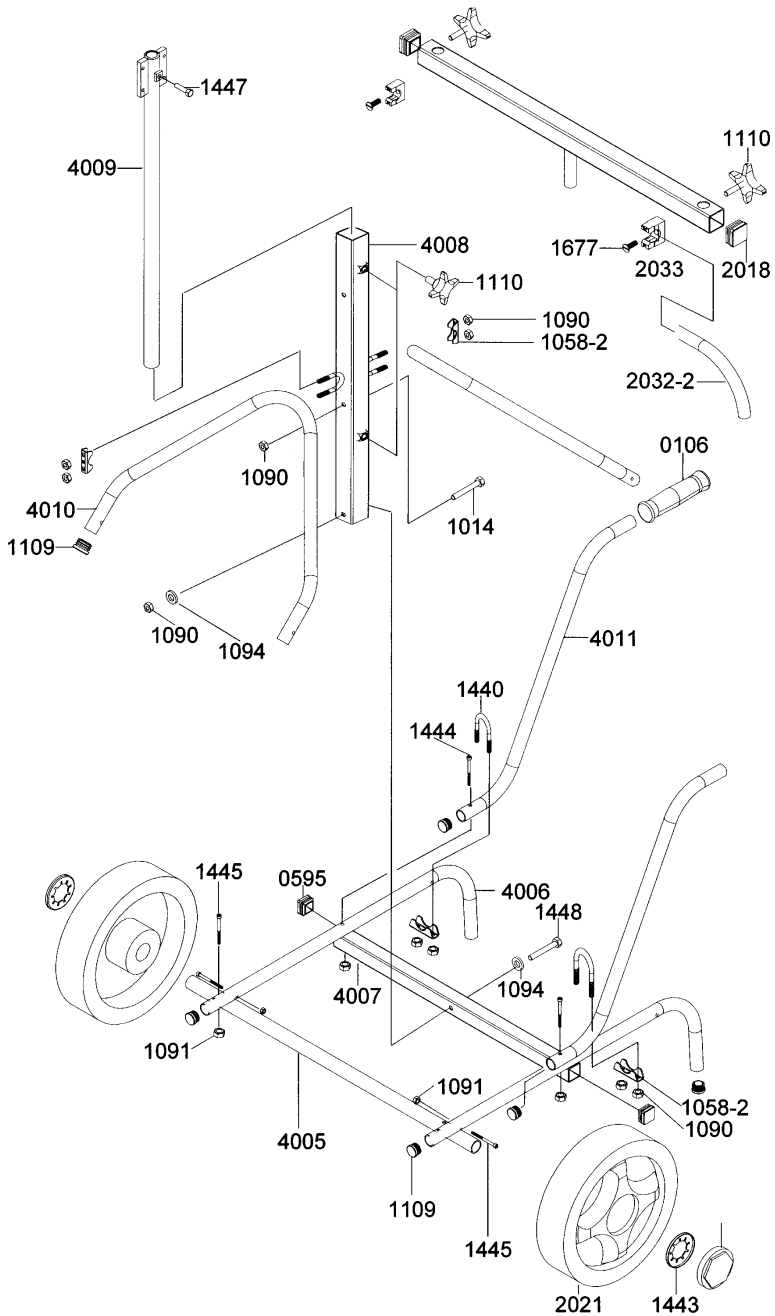
Wanjet AB

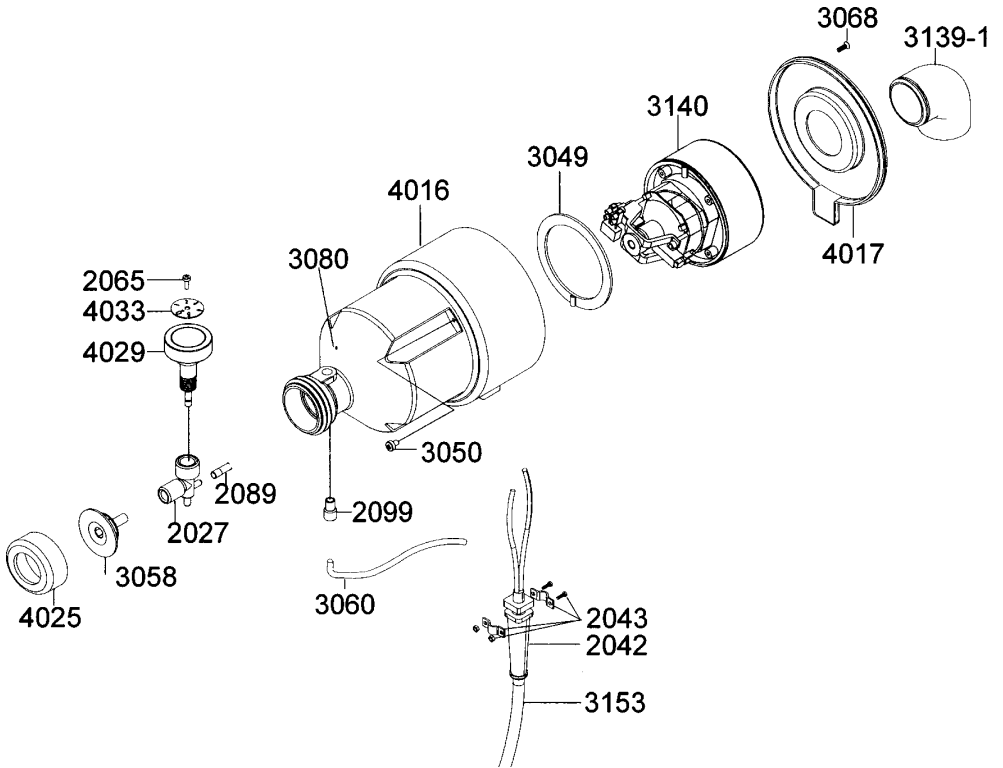


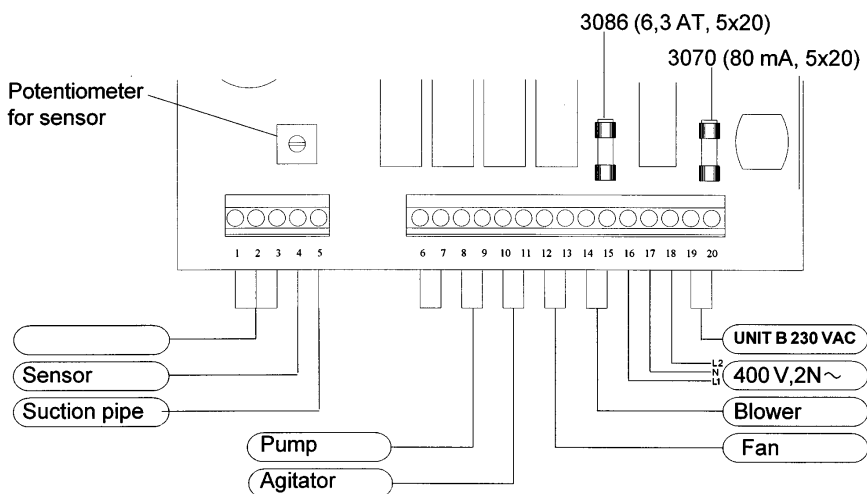
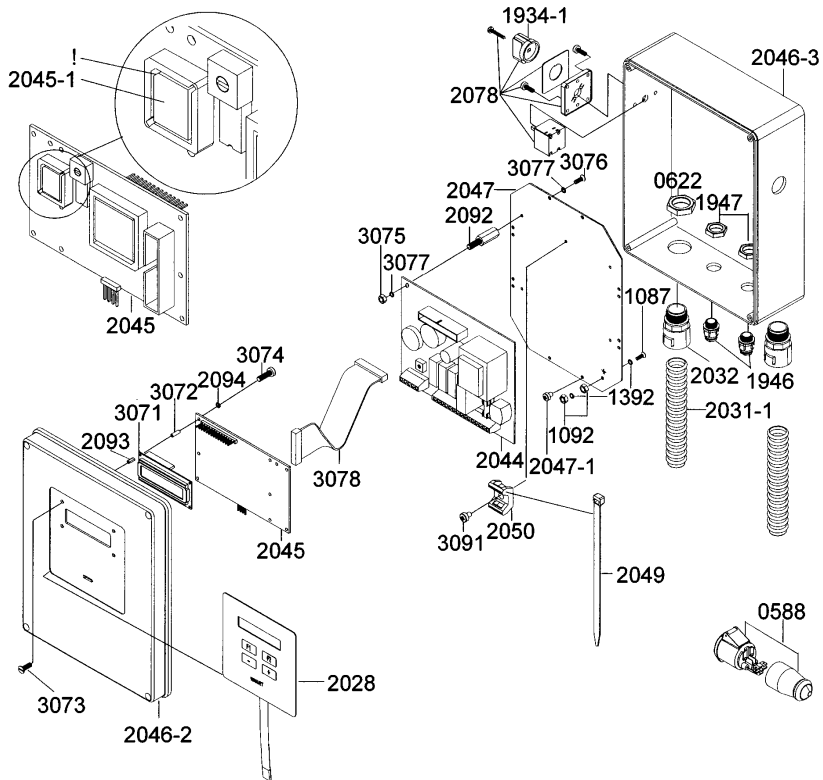
T Wanjet F40

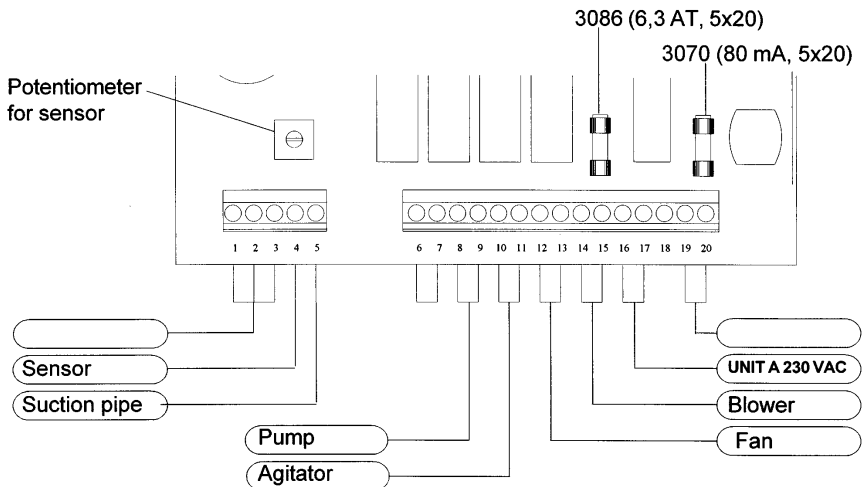
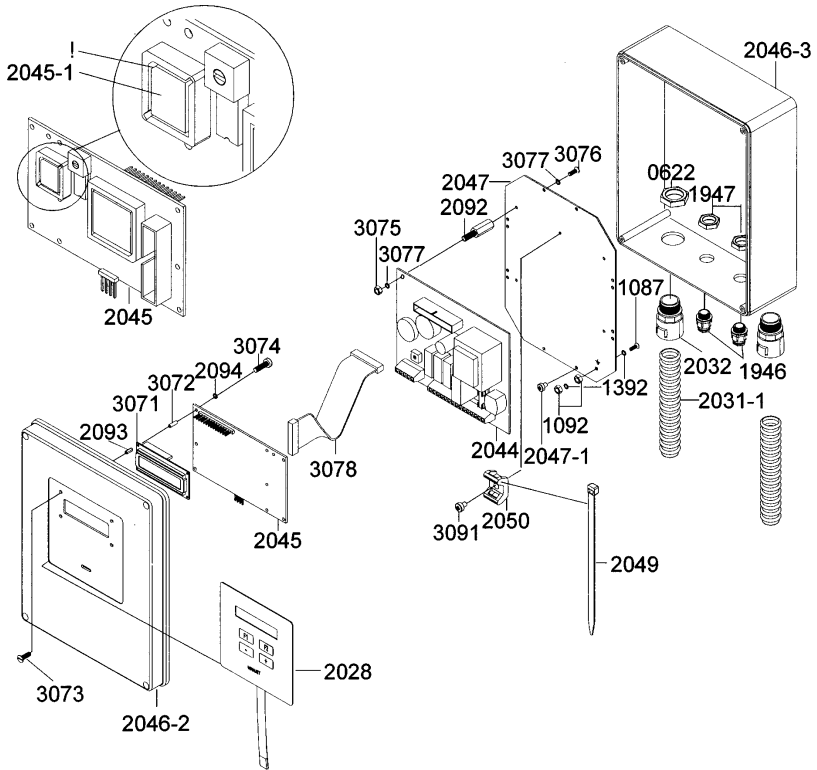
F Circulation fan











Wanjet AB N Ellenborgsgatan 2 S-233 51 Svedala Sweden
Tel: +46-(0)40 404557 Fax: +46-(0)40 404581