EasyNet 150Hz



Congratulations with your new **EasyNet 150** Hz
Manual anaesthetization

EasyNet was designed in 1989 and tested with extremely fine results, i.e. **very satisfactory reliability**.

EasyNet operates fish from 20 grams up to 1000 grams.

EasyNet is constructed as a basic machine, where it is possible to add on a dewater system so it is possible to operated the machine fully automatically.

Order the EasyNet without the dewater system and later, if needed, upgrade with the dewater system.

Before starting up for the first time, we recommend you read the EasyNet 150 manual in order to have the optimal use of the machine.

On receipt of the machine, please, inspect for transportation damage.

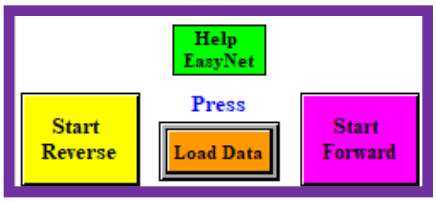
4 EasyNet 150 Hz with EasyBuff 2000 SP





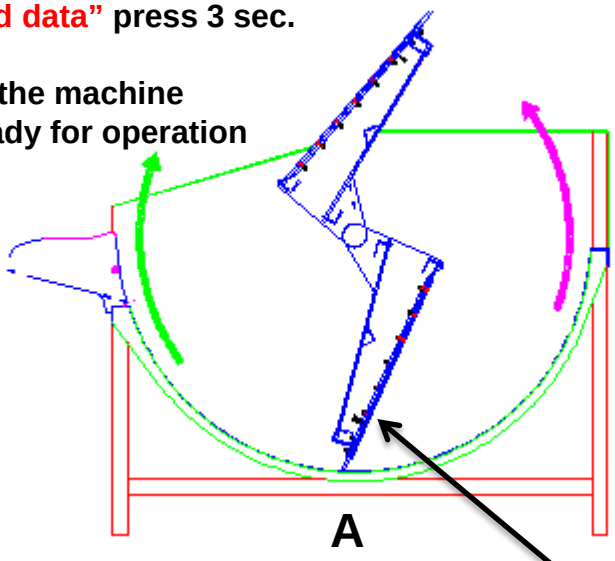
4 Powering up the machine

When powering the EasyNet 150 Hz up this page pups up



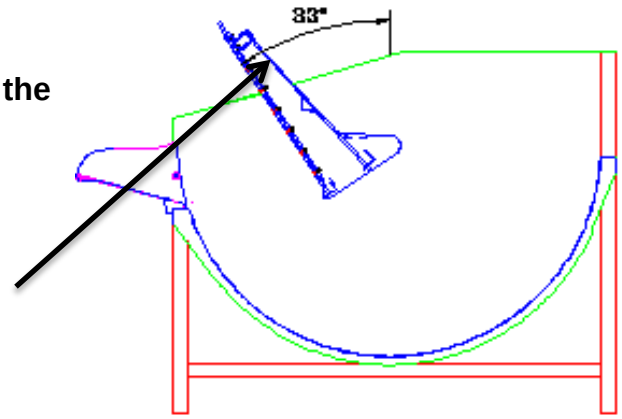
Press Start ”clockwise” and turn the paddle round until you See the paddle in Anesthetic position
Then press
”Load data” press 3 sec.

Now the machine is ready for operation



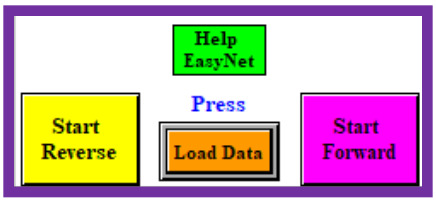
Anesthetic position

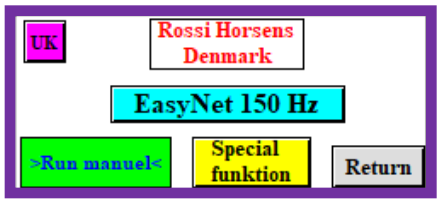
The paddle has to pass the position Zero

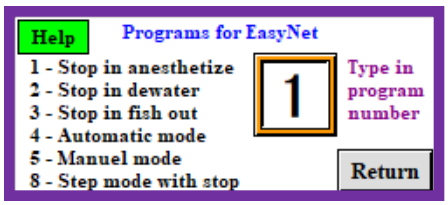


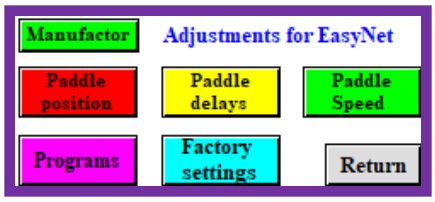
Zero position

1 Display Structure EasyNet 150 Hz

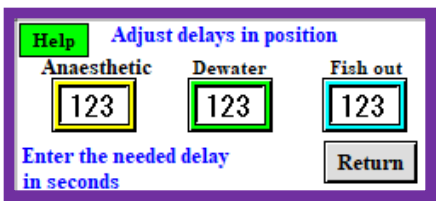


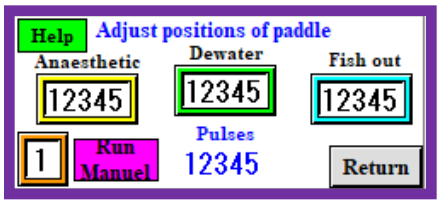


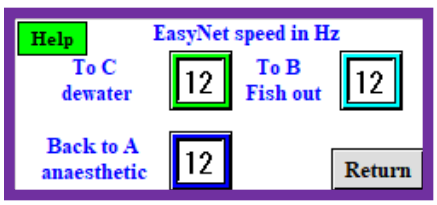


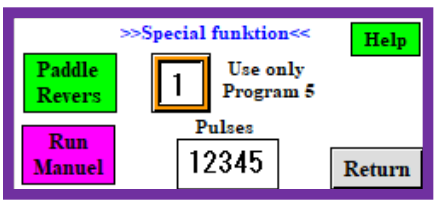


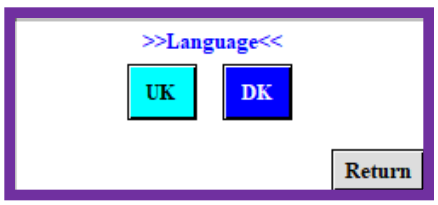


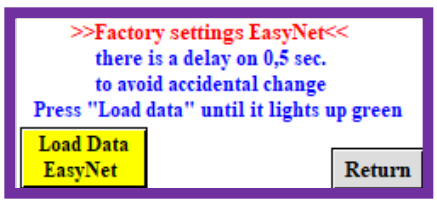




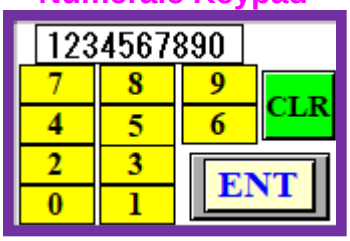








Numerale Keypad



2 Emergency stop



Reset emergency button

Press for reset

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3 Main page

Timer, Count down - tells you the remaining time
In anesthetic , dewater and fish out position



Program
This shows you the chosen programs Programs (see page 6)

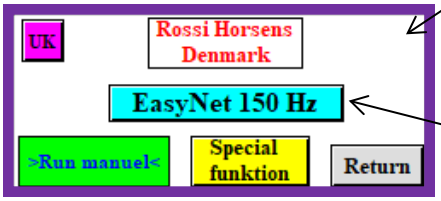
By reset emergency the paddle start to turn (need to find the zero point) and after it has stopped in anesthetic position, press run and its is ready

Press Stop and the paddle turns to anesthetic position and stop her

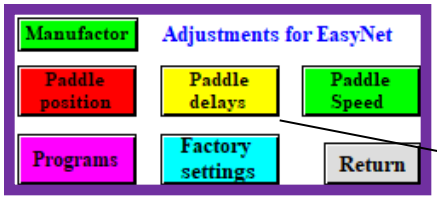
4 Adjust settings



Press ”Option”
You see next page

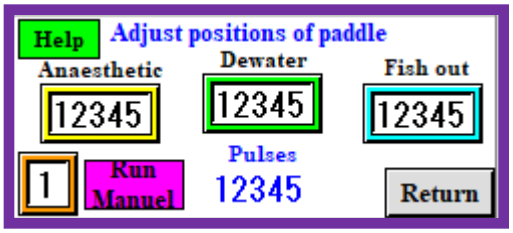


Press ”EasyNet 150 hz”
You see next page



For adjustments
se page 7

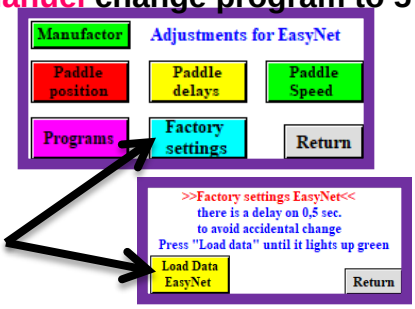
5 Adjust settings



Adjustment of the paddle position

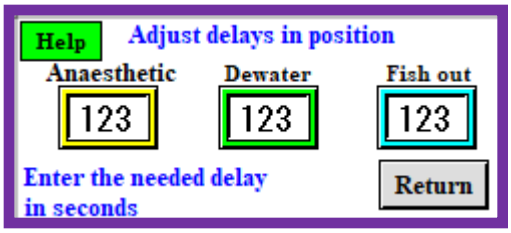
Type in the new stop position
the angle change 1 degree
by app. 40-50 pulses
(can variet more depending of the chosen speed)

To use Run Manuel change program to 5



Factory settings

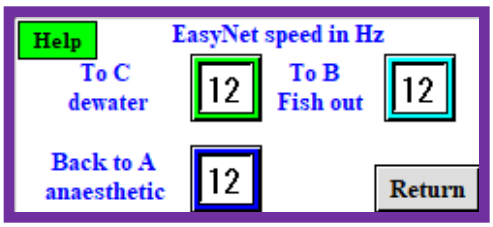
Factory settings	**Anastetic**	**5000 pulses**
	Dewater	**7500 --**
	Fish out	**9800 --**



Adjustments of the paddle delays

Type in the new delays in Sec.

Factory settings	**Anastetic**	**45 Sec.**
	Dewater	**5 Sec**
	Fish out	**5 Sec**



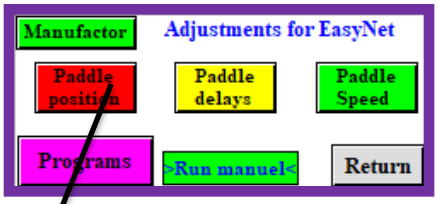
Adjustments of the paddle speed

Type in the new speed in Hz.

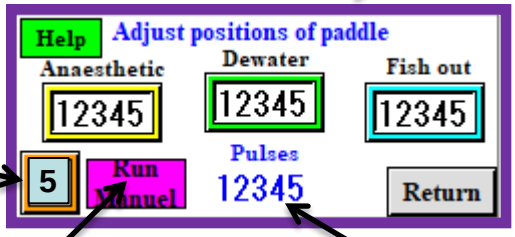
Factory settings	**Anastetic to dewater**	**40Hz**
	Dewater to fish out	**20Hz**
	Fish out and back to anastetic	**30Hz**

In case of too many fish on the paddle,
the speed maybe need to be increased

7 Manuel program



The funktions only works
in program mode 5

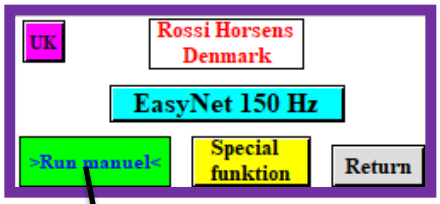


By pressing >Run manual<
the paddle run until you stop pressing

Read out pulses

The option is used to find the position of the paddle
Stop the paddle in the desired position, and read the pulse figure
and type this into the memory

- **Anesthetic position**
- **Dewater position**
- **Fish out position**



Run manual

This program can be used if you want to operate the machine in
"manual only"

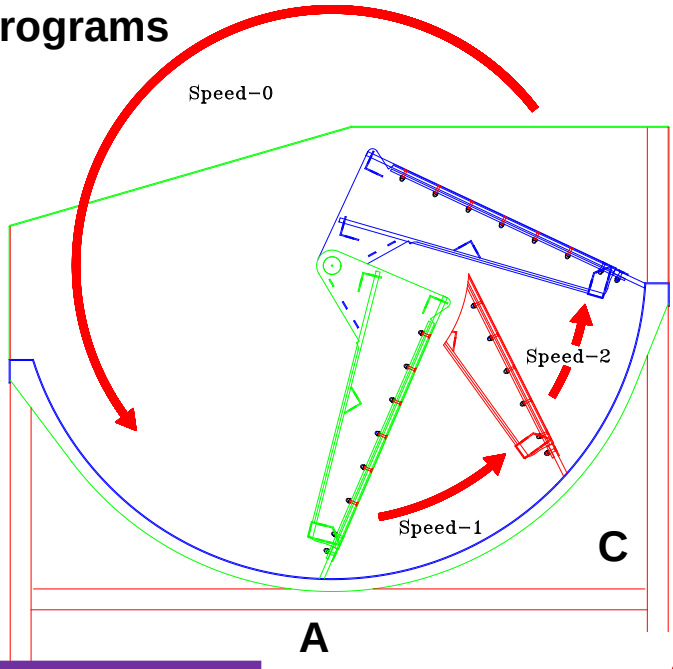
Press "Start" and the paddle turns,
when stopping the timer starts counting seconds tells you how many second you stop.
By restart the timer starts from zero again

Can also be used as back up program if 1 of thies scenario shut occur

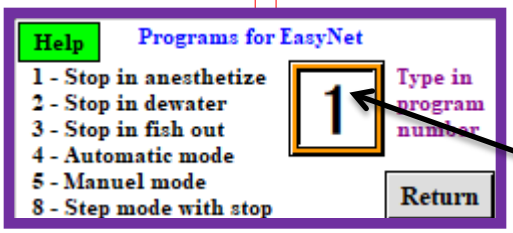
the Pulse system fails
the Zero function fails



6 Programs



PS: Take note
The paddle is turning
Some pulses
more than
preset



Important
The machine has to bee in emergency ,
When changing the program,
to be sure that they operate properly.

Select program > Type in the program number on the Numerical Keypad

1 Select stop Anaesthetic	The paddle stops inAnaesthetic position **A** has to be restarted. by the the devise remote start
2 Select stop Dewater	The paddle stops in dewater position **C** has to be restarted by the the devise remote start
3 Select stop fish out	The paddle stops in fish out position **b** has to be restarted by the the devise remote start
4 Select Automatic run	The paddle is runing and stops in the positions **A – C – B and wait the Programed Delay**
5 Select Manuel run	The paddle starts and stop by pressing the remote start ***no programmed stop, delay´s***
8 Step mode with stop	The paddle starts and stop by pressing the remote start ***With programmed stops, with out delay´s***

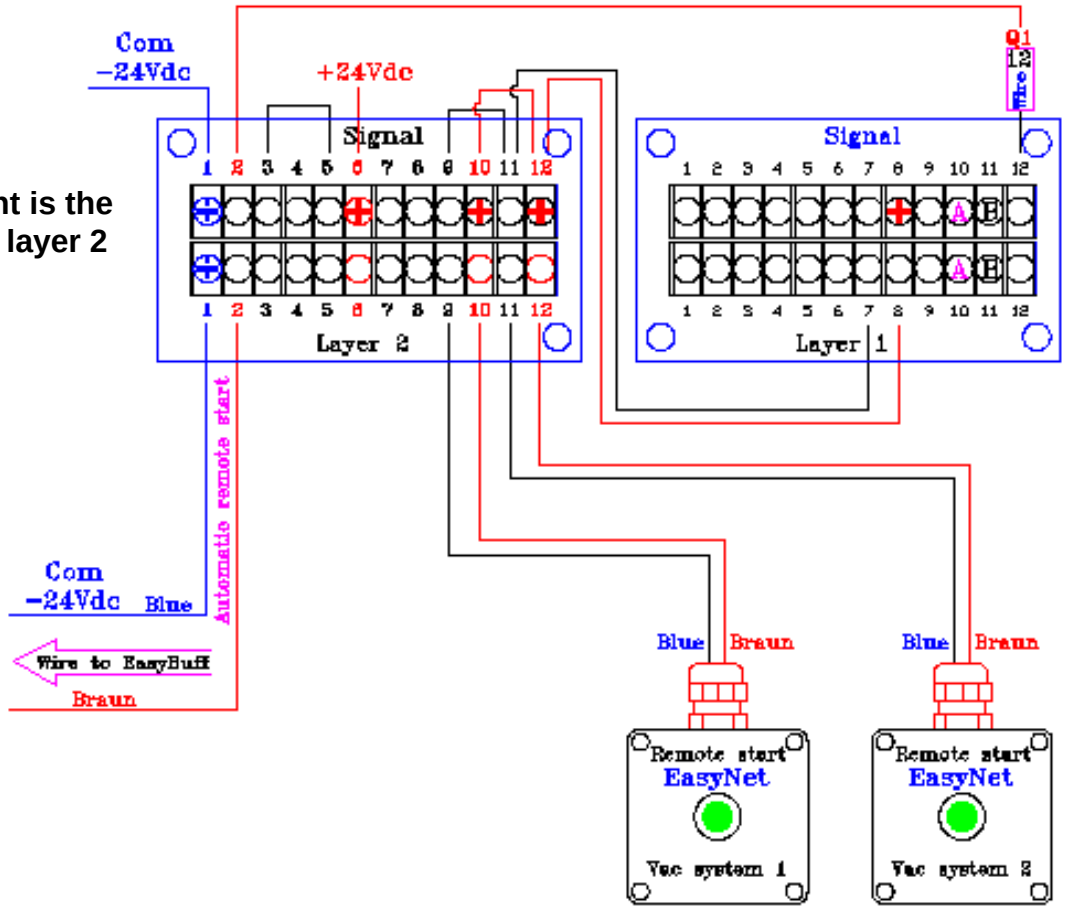
4 Remote start of EasyBuff

EasyNet programs 1/2/3 & 4

If you have purchased an EasyNet together with an EasyBuff, you can connect these machines together, so that EasyBuff is controlled by EasyNet

To make remote control of EasyBuff to work, there has to be installed 2 wire, where Blue wire is common minus 24 Vdc & Braun wire can be installed as shown

Print is the top layer 2



Remote control boxes is only used in ”semi automatic” program 1/2 & 3

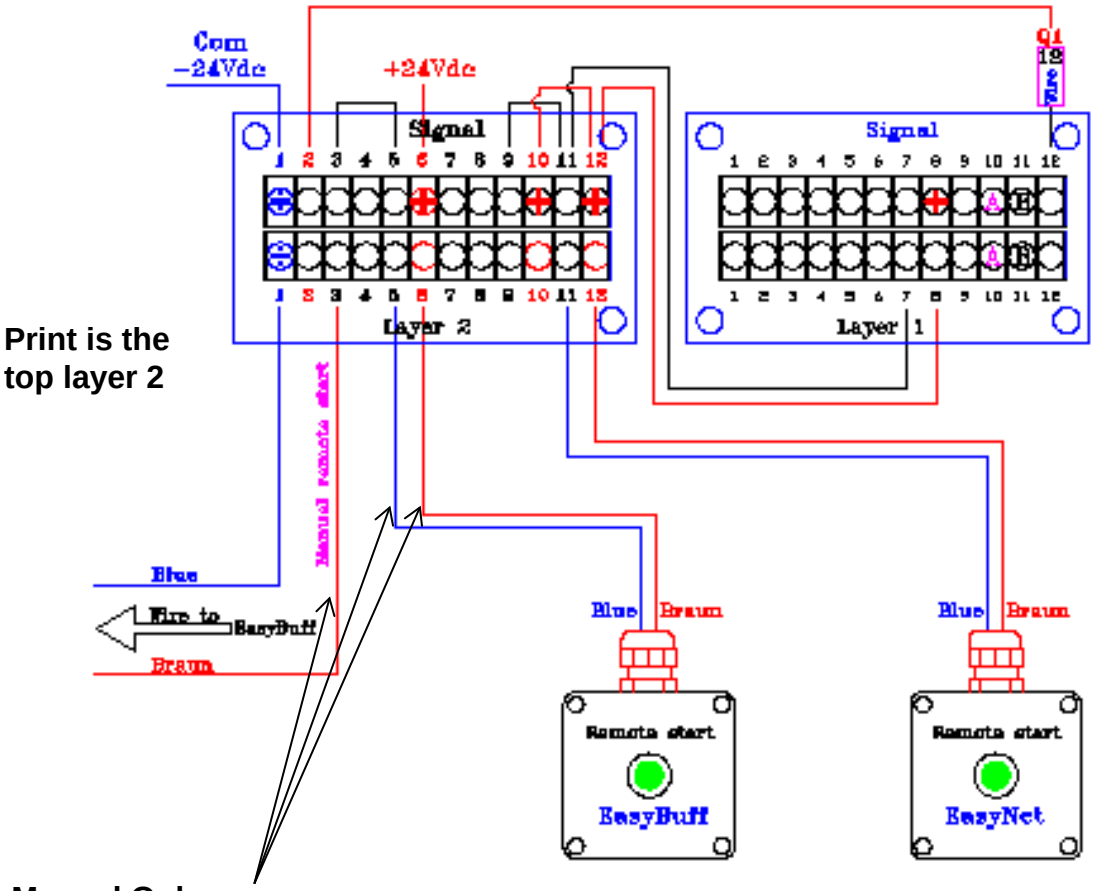
With this wiring is EasyNet & EasyBuff
operated with 1 remote control box for simultaneous start of both machines

2 remote control boxes can be mounted if operating with two vaccination systems & only 1 EasyNet in programs 1/2/3

In program 4 “fully automatic” mode the remote control boxes are not in function

4 Manuel start of EasyNet & EasyBuff

EasyNet programs 5 & 8



Print is the top layer 2

Manuel Only

You have to move 3 wires as shown on drawing

With this wiring is EasyNet & EasyBuff

operated with separate remote control boxes for individual start

One Box for EasyNet & 1 Box for EasyBuff

7 Programming the speed drive

Press BACK RESET now you see ”M”

Press ∨ until you see (**”P”** ore **”S”)** and press OK

Press ∨ until the parameter number appears

Back to run mode

Press BACK RESET now you see (**”P”** ore **”S”)** press ∨ you see ”M”

Press OK

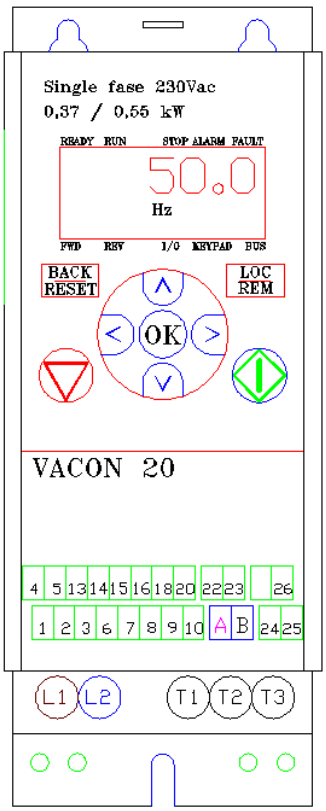
NB. The speed drive can be adjusted
during run in the all chosen programs

Example: Parameter “4.2”

Press BACK RESET **then** ∨ **until you see 4.0**

Press > **until 4.2 then** OK

Type in the new value (0.1) and press OK



EasyNet 150		
Code	**Value**	**Parameter**
P 1.1	**230**	Motor nominal voltage
P 1.2	**50,00**	Motor nominal frequency
P 1.3	**1345**	Motor nominal Speed
P 1.4	**1,84**	Motor nominal current
P 1.5	**0,74**	Motor cos φ
P 1.7	**2,76**	Current limit max 1,5 x (P1.4)
P 1.15	**1**	Torque boost
P 2.1	**1**	Remote control fieldbus
P 2.2	**0**	Start function
P 2.3	**1**	Stop function
P 2.4	**0**	I/O Start / Stop
P 2.5	**0**	Local / Remote
P 2.9	***1***	*Loc/Rem button locked*
P 3.1	**0.00**	Min frequency
P 3.2	**100.00**	Max frequency
P 3.3	**3**	Fieldbus
P 4.2	**0,1**	**Acceleration time**
P 4.3	**0,1**	**Deceleration time**
When 17.2 is set on **"0"** all parameters in speed drive can be adjusted		
P 17.2	0	All parameter

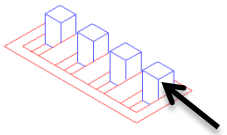
Der skal også indtastes i system parameter

System parameter

•Go to ”S” and press for number ”P 2.2” and type in thies figurers

EasyNet 150		
Code	**Settings**	**Parameter**
P 2.2	**1**	**Modbus**
P 2.3	1	**Slave nr. 1**
P 2.4	**6**	**Baud 19200**
P 2.6	**0**	**None**

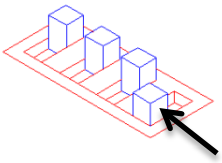
Dip switch on Vacon 20 > 1 & 4 on



On

Rækken med 4 dip efter justering alle on

This is as standart ”Off”
Press to on



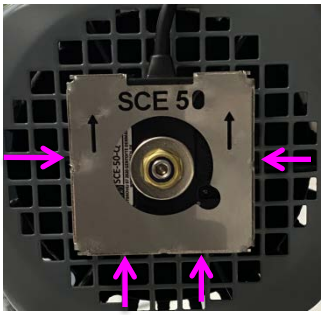
Off

Motor plate



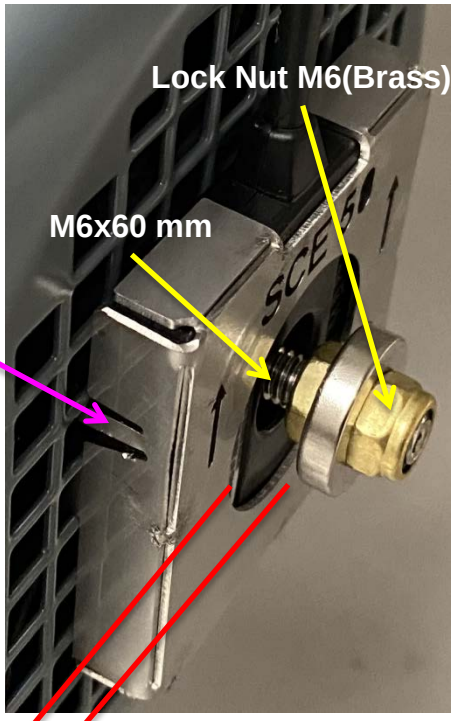
10 Pulse system





Lock and open
The sensor cover
With a screwdriver





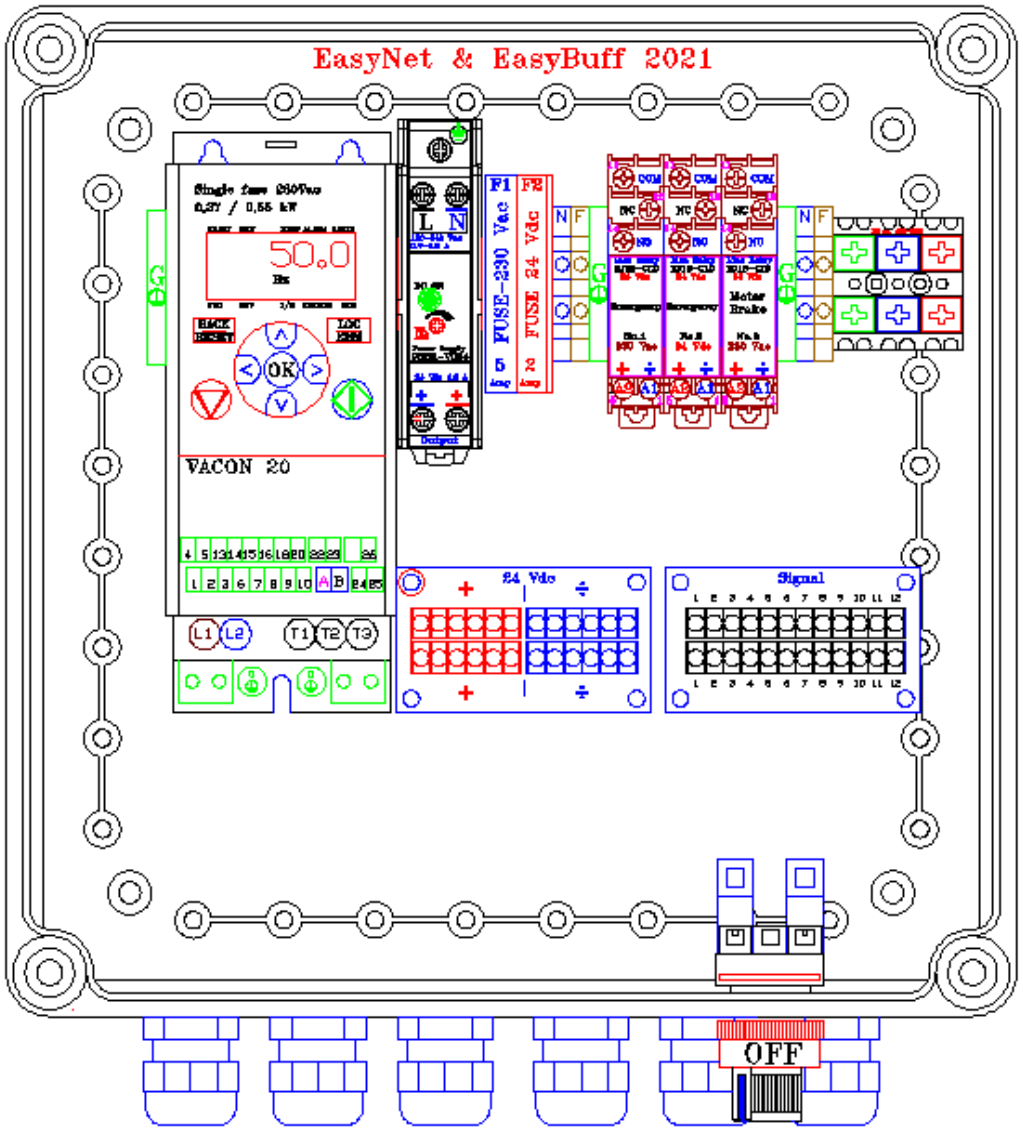
By sensing the magnetic field strength the encoder will indicate if the current position is sufficient for reliable operation; if the LED flashes green when the magnet is rotating the alignment is ok,
if red further adjustment is needed.

8-15 mm

The magnet has to be adjusted so the distant to the encoder is be twin 8 to 15 mm

NB Don't use ion nuts, or screws
Stainless Steel ore Brass only

17 Control box Setup with components

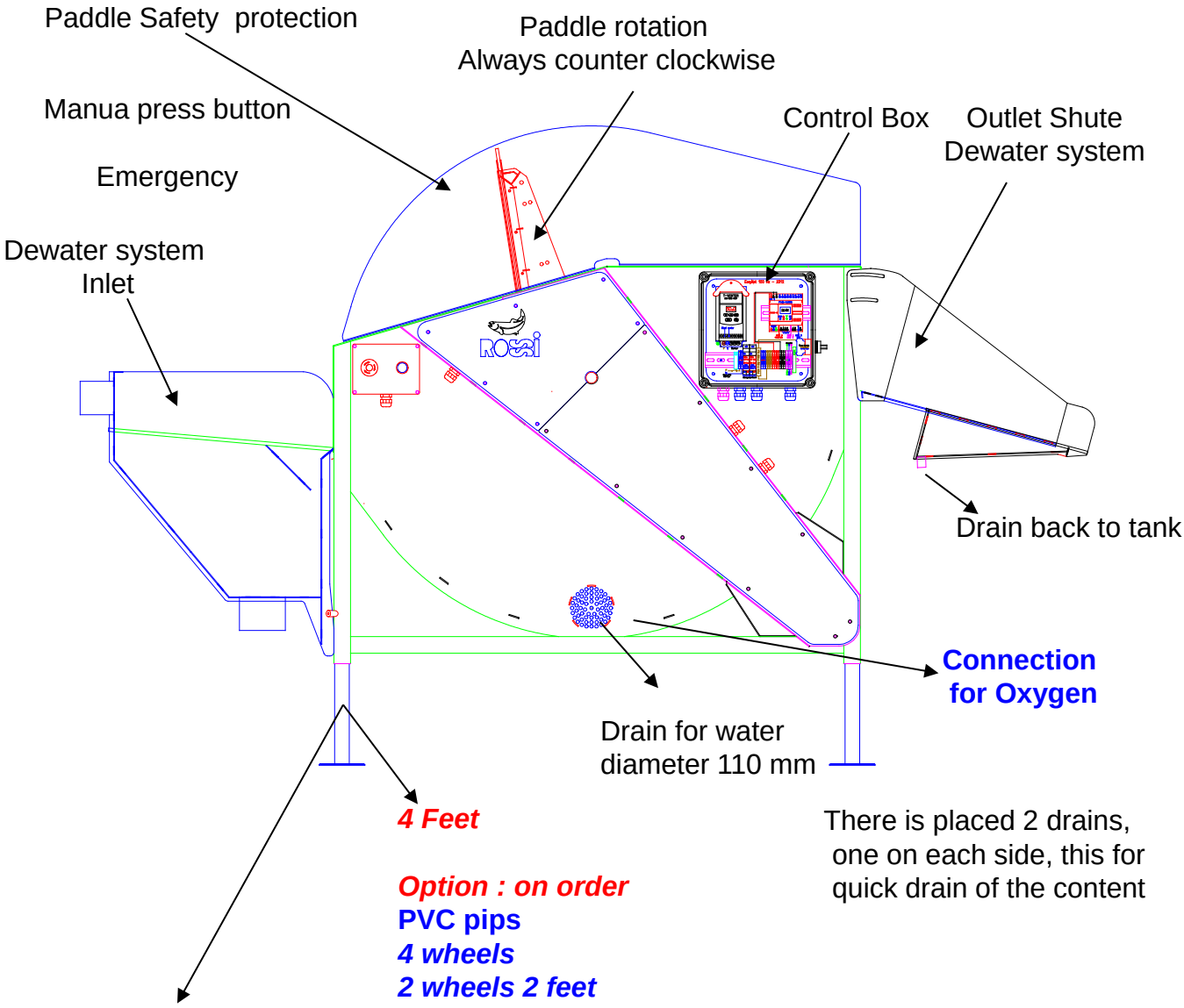


1	Speed drive	230 Vac	Vacon 20 0,37KW
2	Power supply	24 Vdc	Idec
3	Relays 24 Vdc	12 Amp	Idec
4	Fuse 230 Vac	5 Amp	Dia. 5mm x 20
5	Fuse 24 Vdc	2 amp	Dia. 5mm x 20

12 Overall drawing

Connect to single phase 230 Vac

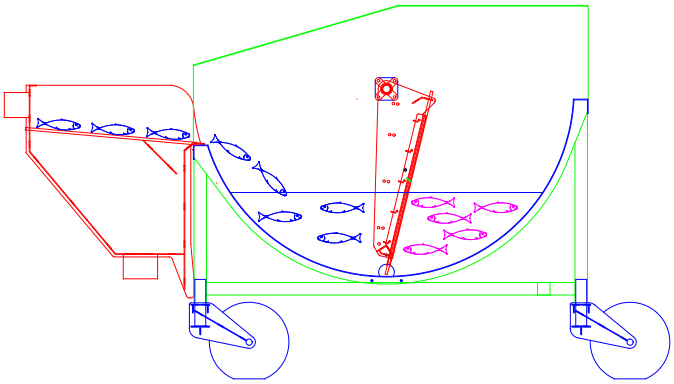
Very important
The machine has to be connected to *Earth (Ground)*



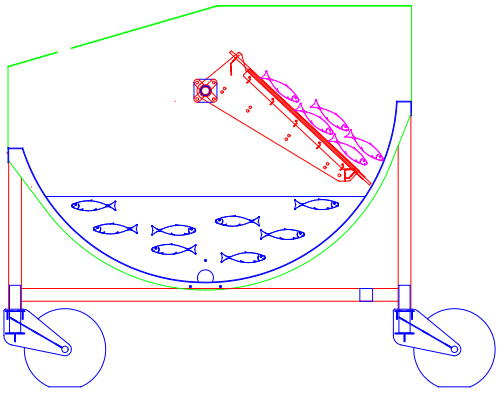
Option feet Length on order “max 1000 mm”

Standard 800 mm

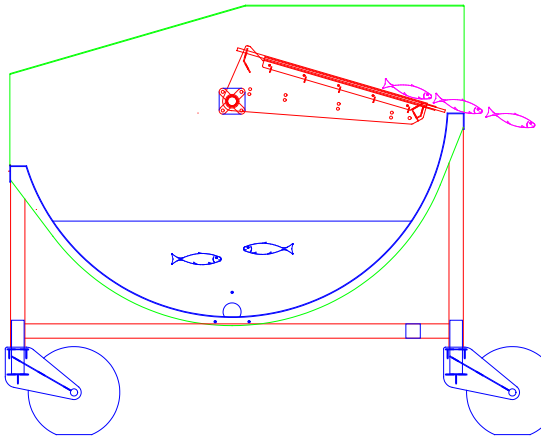
Fish entering EasyNet



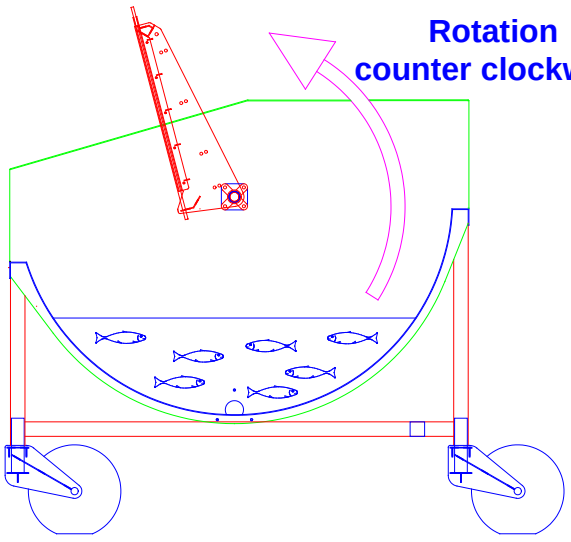
Dewater position



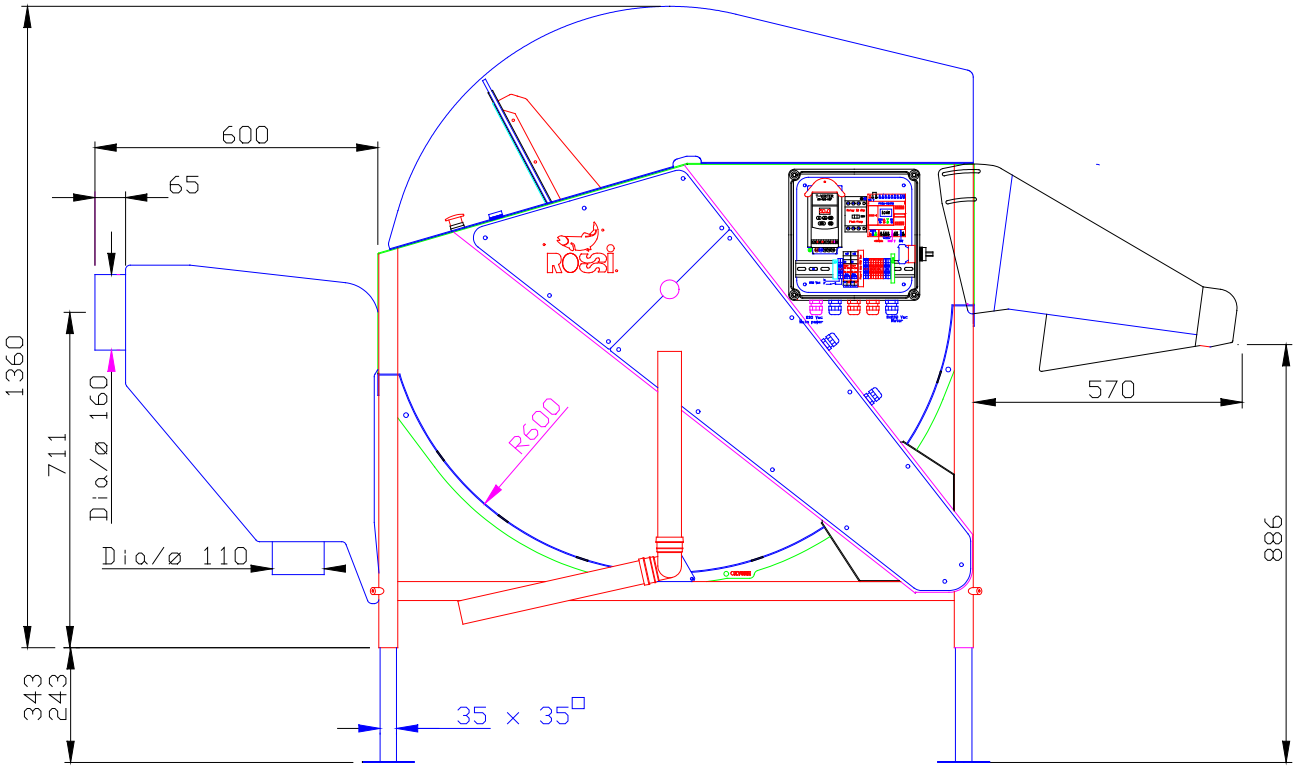
Exit to EasyVac

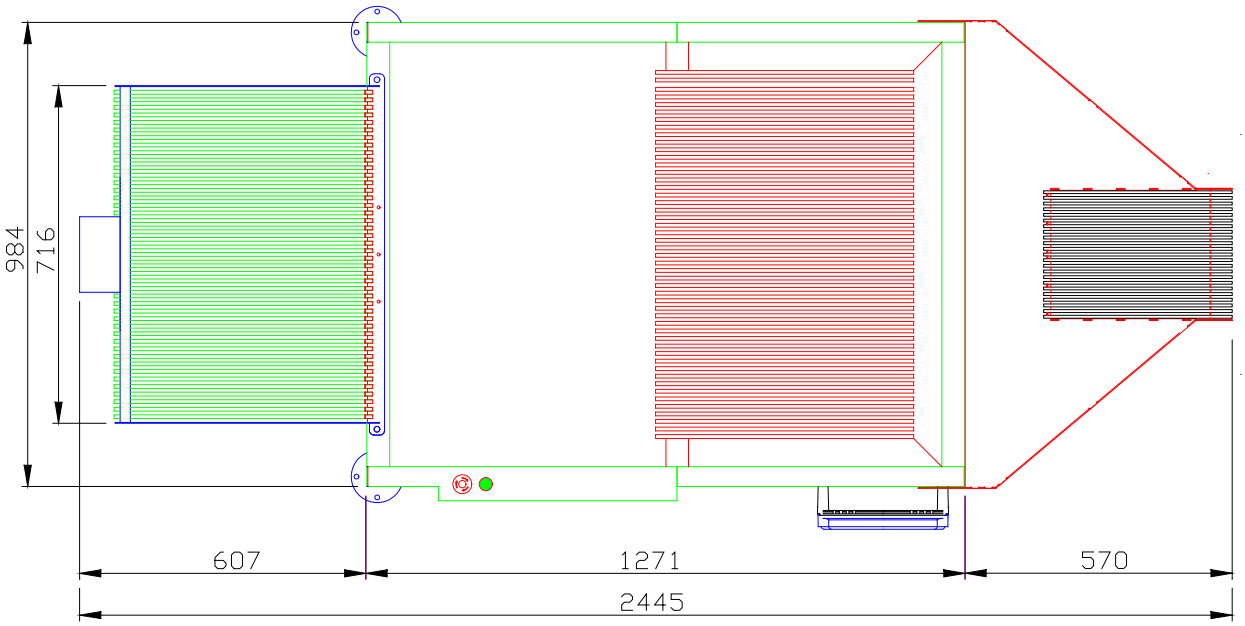


New cycle

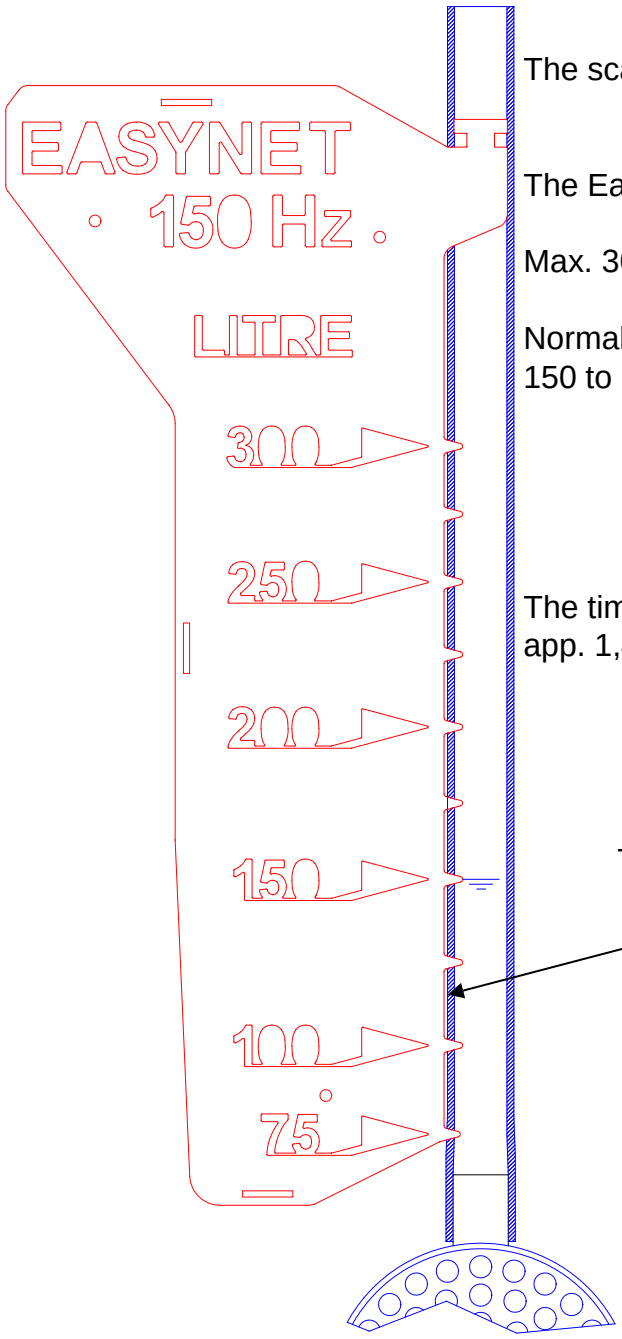


13a Dimensional sketch EasyNet 150 Hz





14 Water content



The scale is divided up into 50 litre mark

The EasyNet 150 Hz contain max volume of water

Max. 300 litres

Normal amount of water
150 to 200 litres

The time used fore dewatering 300 L
app. 1,45 min **“one outlet only”**

Transparent PVC hose 19 x 24 mm

Oxygen

All EasyNet models are equipped with oxygen diffuser

Connect the oxygen to the blue air hose

Adjust the flow of oxygen according to your needs

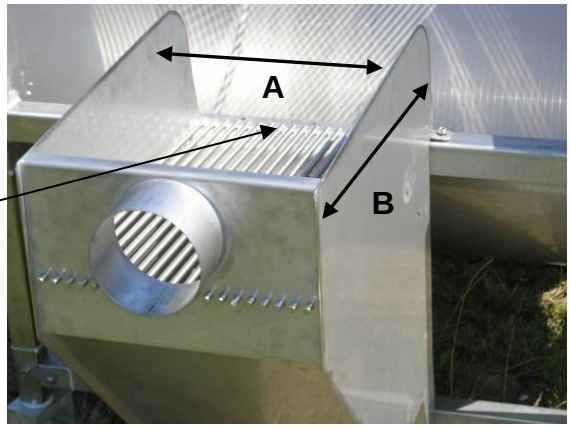
Inlet dewater system (Option)

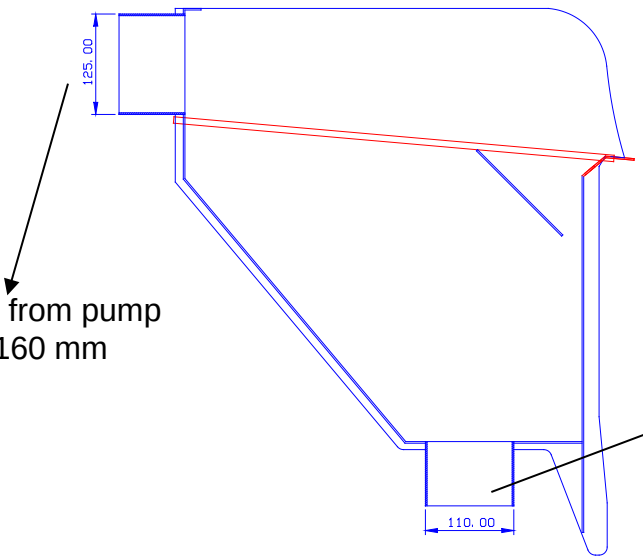
The dewater inlets are made in stainless steel rods with a diameter of 8 mm with a distance between the rods of 8 mm

The inlet connection for PVC pipe
Have a diameter of 160 mm

The dimensions of the dewater are

Dewater area → **B** 71,6 cm x **A** 54 cm





Pipe from pump
Dia.160 mm

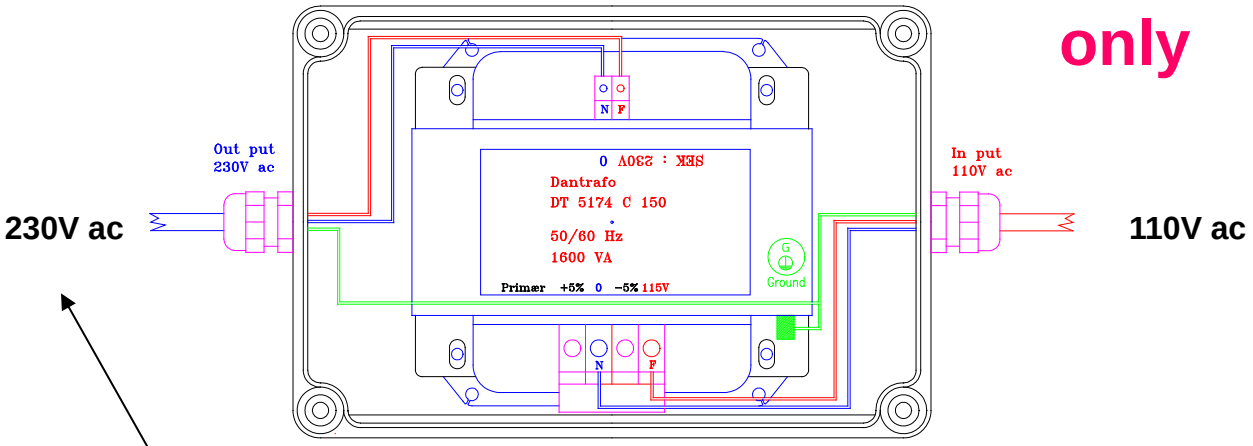
PVC pipe for water drain
Dia. 110 mm

16 Option 110 Vac

It is possible to get the **EasyNet 150 Hz**, equipped as 110V ac machine to do so, we build in one transformer witch is placed on the machine frame close to the motor.

fore the safety we use a transformer with galvanic separation,
The electrical connection to control box is 230 Vac

Warning
110 Vac
only



If you fore some reasons need to use 230vac directly, you can remove the cable going to the machine from the box,
and connect this wire directly to 230V ac

When you remove this wire pleas take notes,

The machine ””MUST”” be disconnected from the power source

26 Technical information

Water capacity max	**280 Litres**	**Other amount on request**
Fish capacity max	**70 Kilos / minute**	
Fish size	**20-1000 Grams**	(Brood stock fish up to 8 Kg)
Personnel:	**0 – 1 person**	
Outlet:	**1 Direct on vaccination table** **2 Draining water return to tank**	
Anaesthetization time:	**Adjustable.**	
Paddle speed	**Adjustable.**	
Oxygen	**Built in 1 diffuser**	
Weight	**160 kg**	
Dewater system	**35 Kg**	**(Option Dewater for pump)**
Connection:	**230 Vac**	**Wire length 5 meter**
Remote control box	**Start of paddle**	**Wire length 5 meter**
Power consumption	**570 Watt**	
Materials	**Stainless steel 304** **Plastic, aluminums**	***(Option Stainless Steel 316)***

Very important
The machine has to be connected to Earth
due to the Speed drive, if no earth, the speed drive will make the frame electrical with about 2-30 volt
The 2-30 volt is not dangerous, but the fish will feel it

PS: If earth is not available take a wire 6 mm² and mount it to the machine then put the other end in the water

Declaration of conformaty

ROSSI Horsens

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DK- 8700 Horsens

Phone : +45 28 400 368
Mail.: rossi@profibermail.dk

hereby declares that

Type: **EasyNet 150 Hz**

Year / week : **2020 /49**

Product No : **10.125 A**

was manufactured in accordance with the regulations of the Council's directive of the 14th June 1989 on mutual approximation of the member states' legislation on machinery, directive No. 89/392. Latest amendment through directive No. 91/368 with special reference to appendix 1 concerning essential safety and health demands in connection with construction and manufacturing of machines.

Manufacturer
CTO Torben Oberthon Rød

Date: 30/11-2020

Signature

Declaration of conformaty

ROSSI Horsens

Lind Horsens
Sandøvej 7
DK- 8700 Horsens

Phone : +45 28 400 368
Mail.: rossi@profibermail.dk

hereby declares that

Type: **EasyNet 150 Hz**

Year / week : **2020 /49**

Product No : **10.125 C**

was manufactured in accordance with the regulations of the Council's directive of the 14th June 1989 on mutual approximation of the member states' legislation on machinery, directive No. 89/392. Latest amendment through directive No. 91/368 with special reference to appendix 1 concerning essential safety and health demands in connection with construction and manufacturing of machines.

Manufacturer
CTO Torben Oberthon Rød

Date: 30/11-2020

Signature