DrenaMix Drainage water mixing units

DrenaMix-L:

DrenaMix-M:

DrenaMix-H:

DrenaMix-HH:

DrenaMix is a mixing unit that mixes drainage and fresh water. It is used for the reuse of the drainage water coming from the cultivations (suitably treated by an ULTRA disinfection unit).

For its functioning **DrenaMix** must be combined with a dosing unit of the series Bravo/Evo. The necessary inputs/outputs have to be considered on the dosing unit.
As an option, DrenaMix can be supplied with its own controller installed on board (without having to be combined with a dosing unit)
In this way DrenaMix becomes a completely autonomous mixing unit
The mixing of the two incoming waters is managed on the basis of a desired EC output (programmed on dosing unit or on-board controller).
As an option, by installing a flow sensor on both inputs, it is possible to perform percentage mixing (the EC value is monitored in case of alarm).

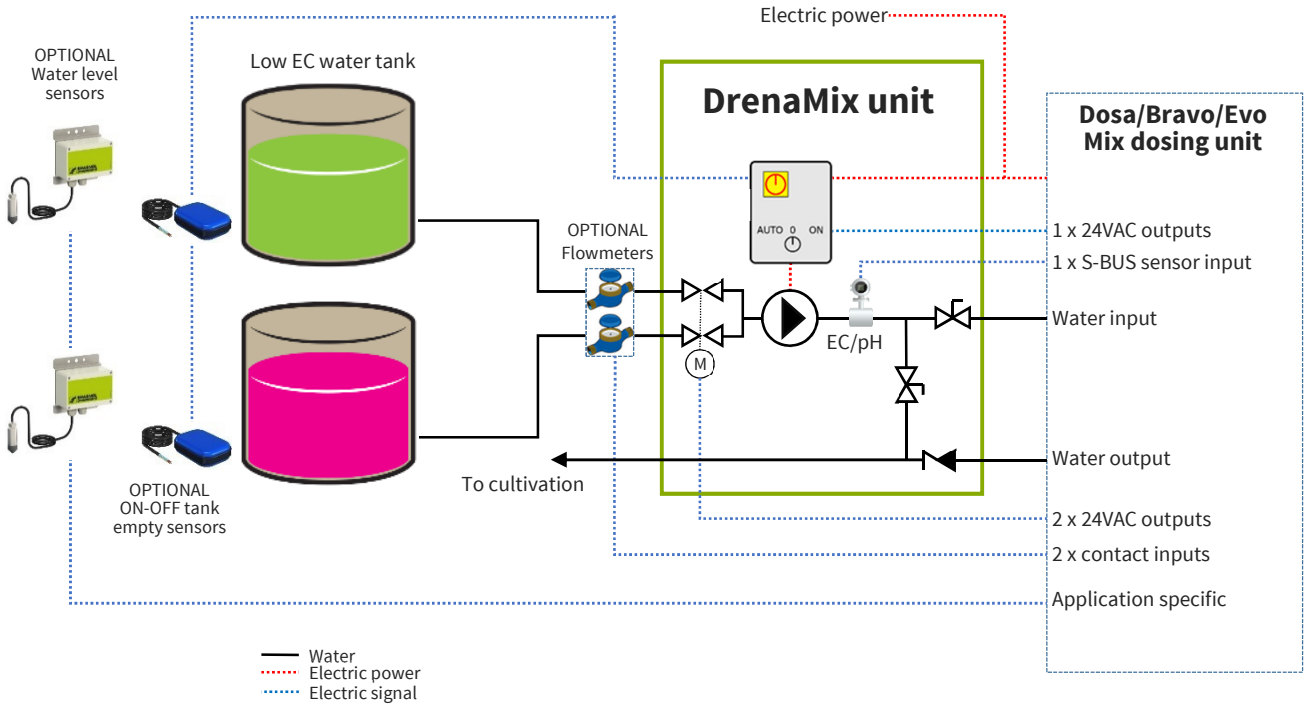
DrenaMix is available in three versions (L, M, H) according to the type of dosing unit to which it is combined:

DrenaMix type	Dosing unit type
DrenaMix-L	BravoMix-L, EvoMix-L
DrenaMix-M	BravoMix-M, EvoMix-M
DrenaMix-H	BravoMix-H, BravoMix-HH, EvoMix-H, EvoMix-HH

DrenaMix is designed to be installed directly next to the dosing unit whose inlet and outlet connections are already fitted on DrenaMix in the right position. **DrenaMix** is already equipped with a **bypass** and a **non-return** valve to irrigate the crops directly in the event of a failure of the dosing unit.

For the proper automatic functioning of the irrigation system, the levels of the tanks that supply DrenaMix have to be measured and checked by the controller. In case of any doubt, refer to your local Spagnol representative.

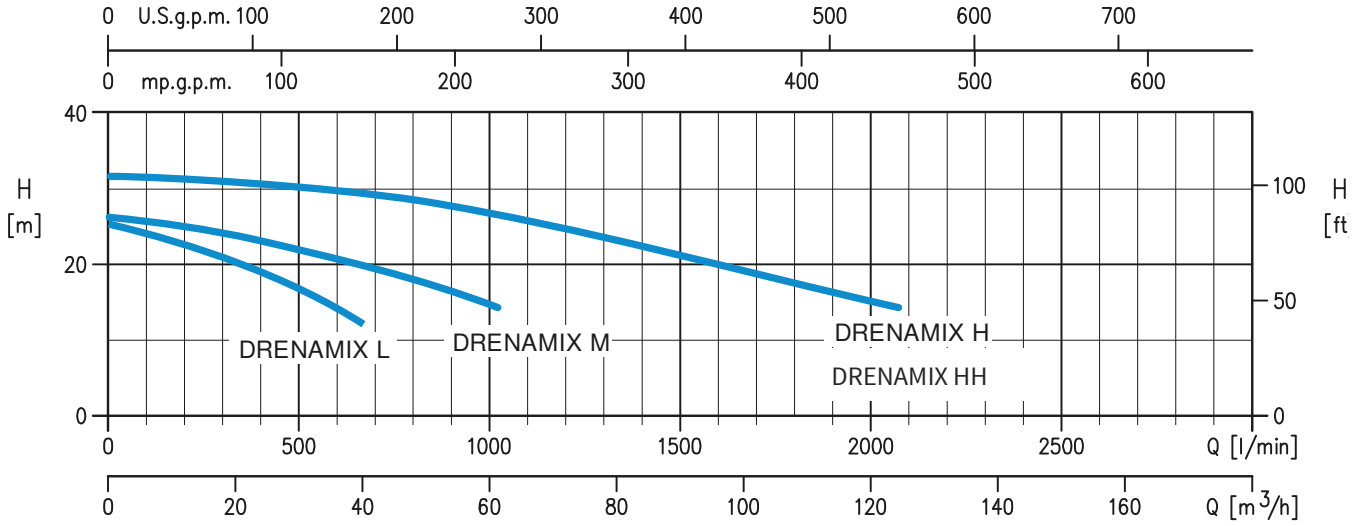
DRENAMIX INSTALLATION FUNCTIONAL SCHEME:



Legend:

1	DrenaMix electric panel	6	DrenaMix valve to dosing unit
2	DrenaMix motorized mixing valve	7	DrenaMix non-return valve
3	DrenaMix pump	8	OPTIONAL: flowmeters for mixing by water ratio
4	DrenaMix EC+pH S-BUS sensor	9	OPTIONAL: tank water level sensors
5	DrenaMix emergency by-pass manual valve	10	OPTIONAL: ON-OFF empty tank level sensor

DRENAMIX with 50Hz EBARA horizontal centrifugal pump – Flowrate:



DRENAMIX base, frequency 50 Hz, electric power 400VAC three phases + neutral

Name	Code		Total power (KW)
DRENAMIXV3-L-P1-5-40T3N-D	**301110001**	DRENAMIX-L with EBARA pump 3M32-160/2.2	2.3
DRENAMIXV3-M-P2-5-40T3N-D	**301110002**	DRENAMIX-M with EBARA pump 3M50-125/3.0	3.1
DRENAMIXV3-H-P3-5-40T3N-D	**301110003**	DRENAMIX-H with EBARA pump 3M65-160/7.5	7.6
DRENAMIXV3-HH-P4-5-40T3N-P	**301110004**	DRENAMIX-HH with EBARA pump 3M65-160/7.5	7.6

DrenaMix base completed of:
- Electric pump panel, with main switch and automatic-manual switch.
- EC and pH sensors (to connect to S-BUS input sensor on dosing unit)
- 1 24VAC input for pump command (from dosing unit)
- 2 24VAC input for motorized mixing valve (1 x calve open, 1 x valve close) (from dosing unit)
- 1 free of potential output for alarm signaling

WARNING

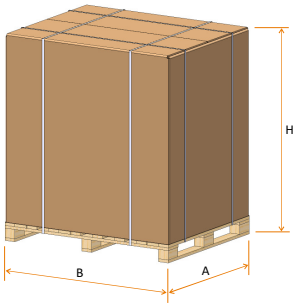
For the irrigation system to work properly, the levels of the DRENAMIX tanks must be measured AND CONTROLLED by the controller.
FOR any doubts, refer to your local Spagnol representative.

DRENAMIX – SPECIFICATIONS:

	L	M	H	HH
Ø water inlet (both High EC inlet and low EC inlet)	75mm female PVC solvent cement	90mm female PVC solvent cement	125mm flange	140mm flange
Ø water outlet		90mm female PVC solvent cement	125mm flange	125mm flange
Min. / Max. water temperature	5 °C (41 °F) / 30 °C (86 °F)			
Impurities in the water	Max.500 µm, Max.100g/m^3			
Ingress protection	IP55 (NEMA-12)			
Electric supply voltages Min/Max limit and pump command type (1)	DRENAMIXV3-*-*-*-[1]-[2] Voltage: [1]=40T3N: 360VAC / 490VAC Pump command: [2]=D:Direct, P=Soft starter			
Operative max. humidity	85 %			
Operative min. / max. air temperature	5 °C (41 °F) / 40 °C (104 °F)			

(1) Exceeding these values results in damaging.

DRENAMIX – STANDARD PACKAGING PALLET + CARTON BOX:



	L	M	H	HH
Length (A):	1800 mm	1800 mm	1800 mm	1800 mm
Width (B):	1500 mm	1500 mm	1500 mm	1500 mm
Height (H):	1830 mm	1830 mm	1830 mm	1830 mm

Stackable:	NO
Minimum temperature:	7°C
Maximum temperature:	40°C
Maximum humidity:	60 %

Do not expose to outside weather, direct sun radiation, salt fog and vibration.
In case of sea transportation or other harsh conditions we recommend the use of a wooden box + barrier bag packaging (see below

DRENAMIX – WOODEN BOX + BARRIER BAG:

	L	M	H	HH
Length (A):	1370 mm	1370 mm	1770mm	1770mm
Width (B):	1670 mm	1670 mm	1670 mm	1670 mm
Height (H):	1830 mm	1830 mm	2030 mm	2030 mm
Code:	IMB0125	IMB0125	IMB0129	IMB0129

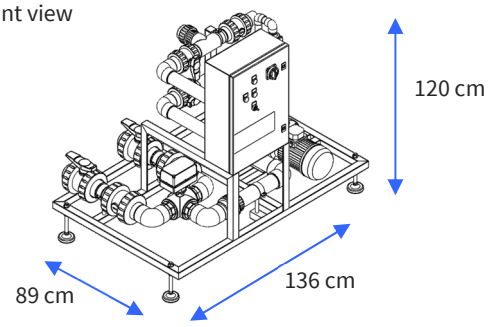
Stackable:	NO
Minimum temperature:	7°C
Maximum temperature:	40°C

Do not expose to outside weather, direct sun radiation and vibration.

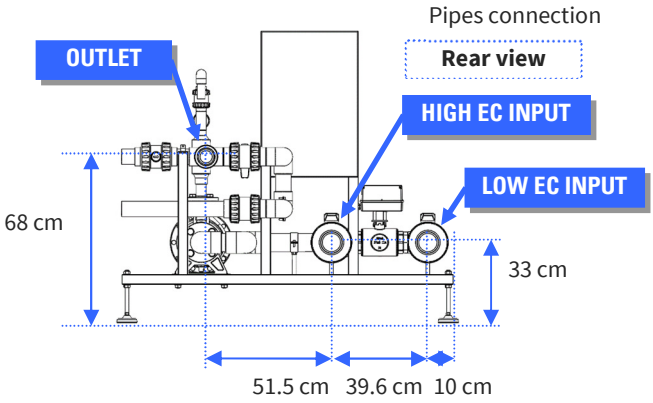
DRENAMIX – DIMENSION AND INPUT/OUTPUT POSITION:

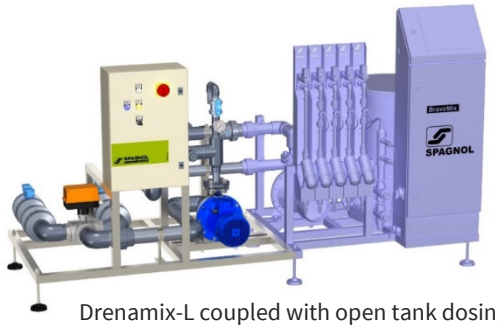
DRENAMIX-L:

Overall dimension, front view

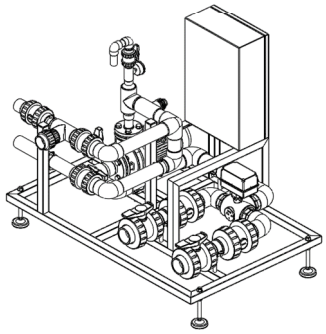


Pipes connection





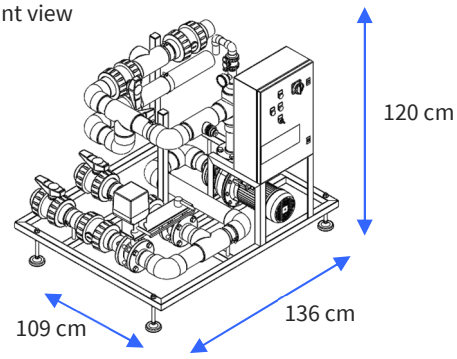
Drenamix-L coupled with open tank dosing unit



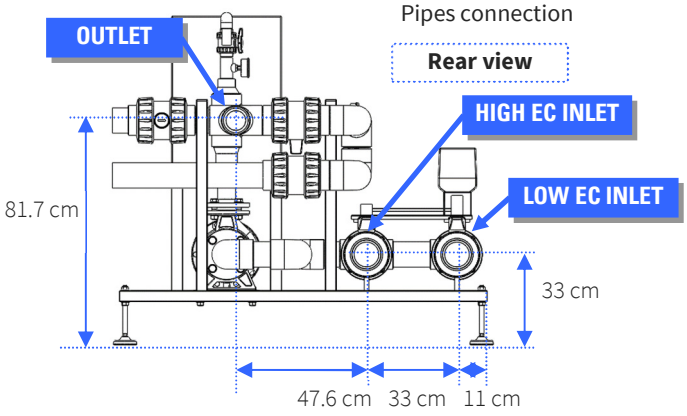
Rear view

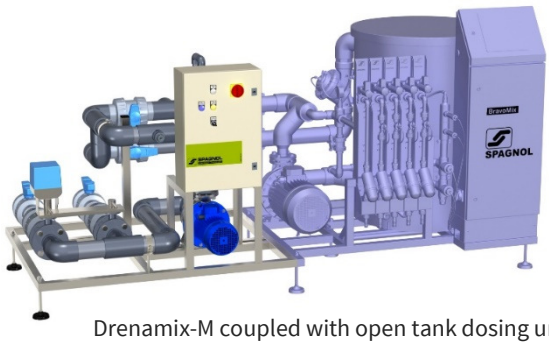
DRENAMIX-M:

Overall dimension, front view

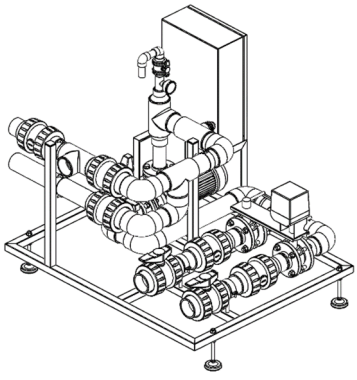


Pipes connection





Drenamix-M coupled with open tank dosing unit

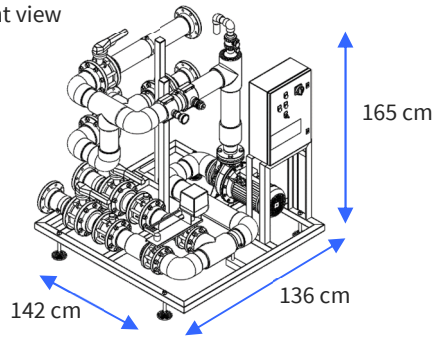


Rear view

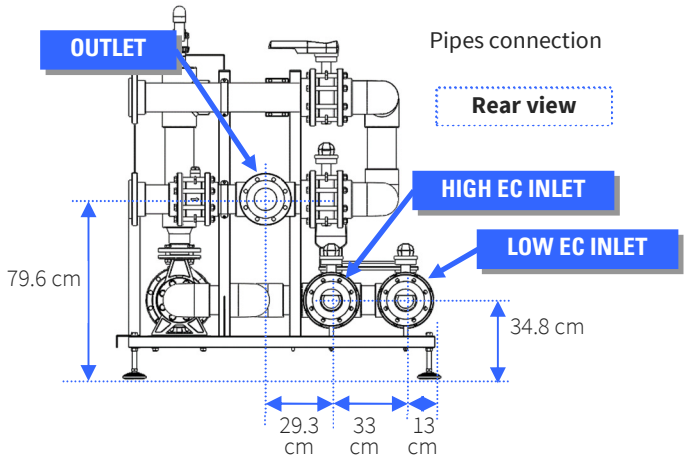
DRENAMIX – DIMENSION AND INPUT/OUTPUT POSITION:

DRENAMIX-H:

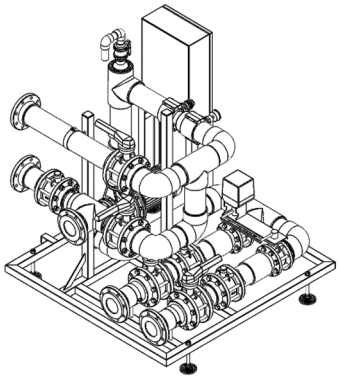
Overall dimension, front view



Pipes connection



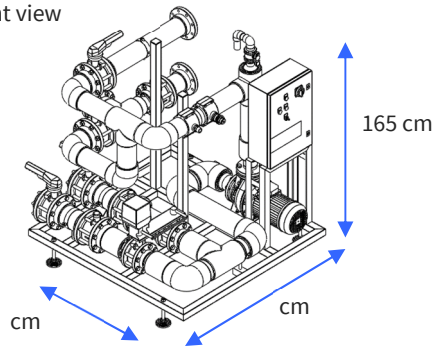
Drenamix-H coupled with open tank dsing unit



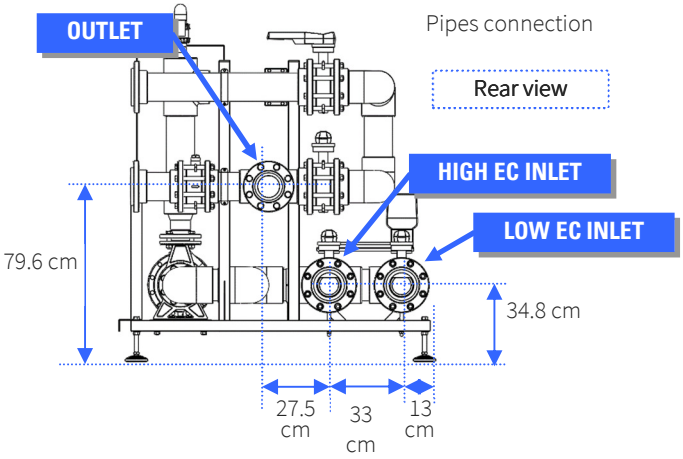
Rear view

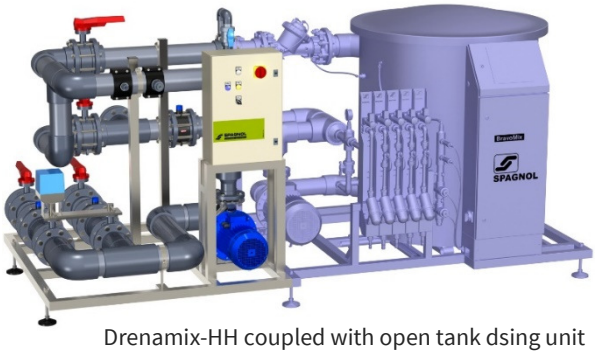
DRENAMIX-HH:

Overall dimension, front view

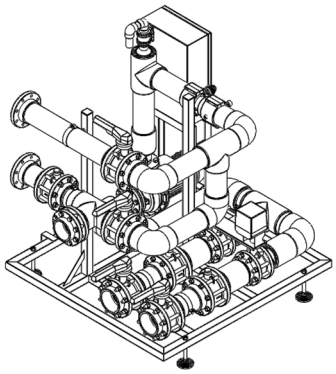


Pipes connection





Drenamix-HH coupled with open tank dsing unit



Rear view