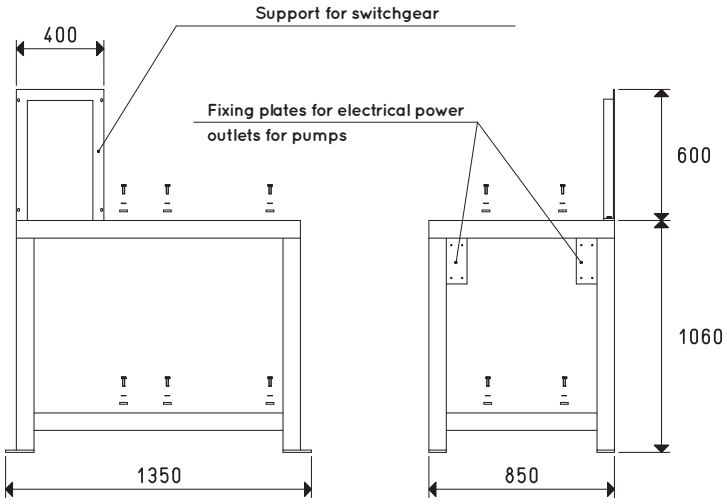
SUPPORT FRAMES FOR TWO VACUUM PUMPS AND SWITCHGEAR

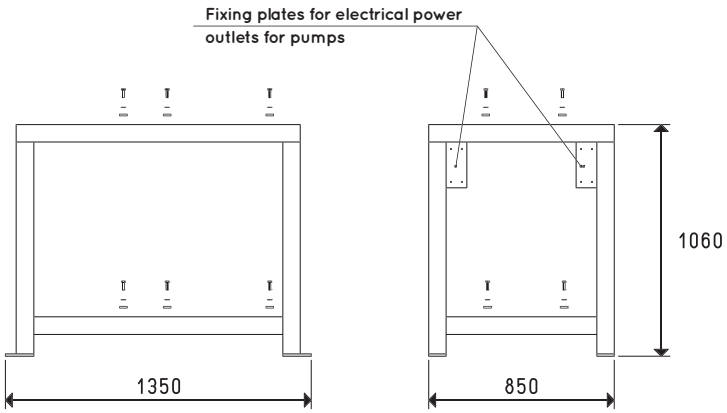
This frame is made with profiled steel and varnished with special weather-resistant paints.
It is suited for assembling two vacuum pumps and their switchgear.

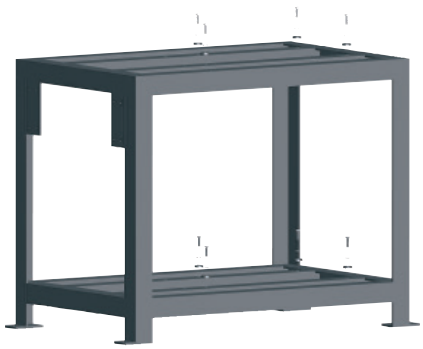


Item	Weight Kg	Fitted for 2 Pumps Mod.	Fitted for switchgear item
00 DSV 16	120	RVP 160 - RVP 200 - RVP 250 - RVP 300	DSO 300 97V

SUPPORT FRAMES FOR TWO VACUUM PUMPS

This frame is made with profiled steel and varnished with special weather-resistant paints.
It is suited for assembling two vacuum pumps.





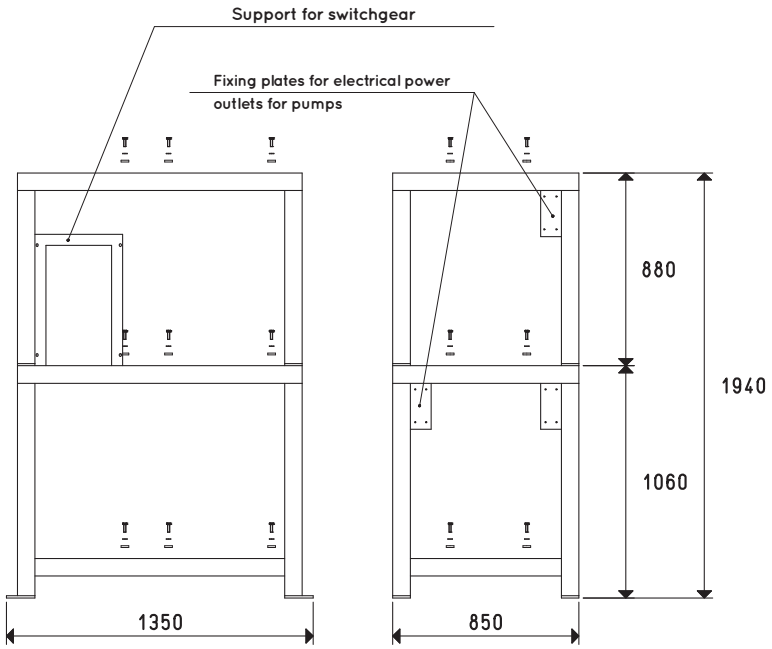
Item	Weight Kg	Fitted for 2 Pumps Mod.
00 DSV 18	117	RVP 160 - RVP 200 - RVP 250 - RVP 300

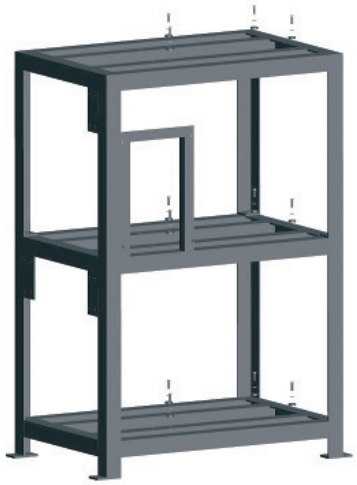
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

3D drawings are available on **vuototecnica.net**

SUPPORT FRAMES FOR THREE VACUUM PUMPS AND SWITCHGEAR

This frame is made with profiled steel and varnished with special weather-resistant paints.
It is suited for assembling three vacuum pumps and their switchgear.

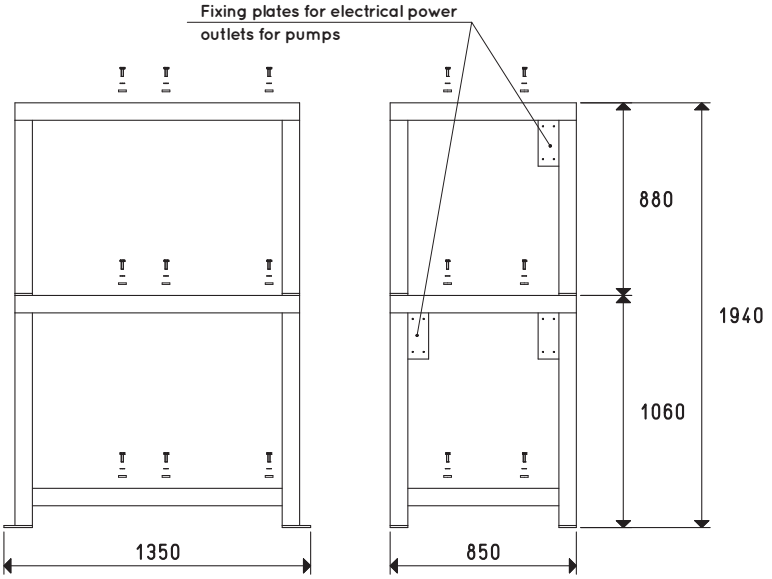


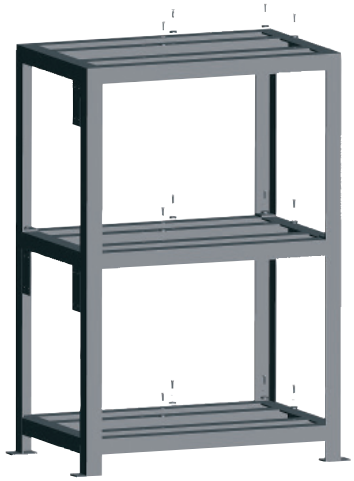


Item	Weight Kg	Fitted for 3 Pumps Mod.	Fitted for switchgear item
00 DSV 20	200	RVP 160 - RVP 200 - RVP 250 - RVP 300	DSO 300 98V

SUPPORT FRAMES FOR THREE VACUUM PUMPS

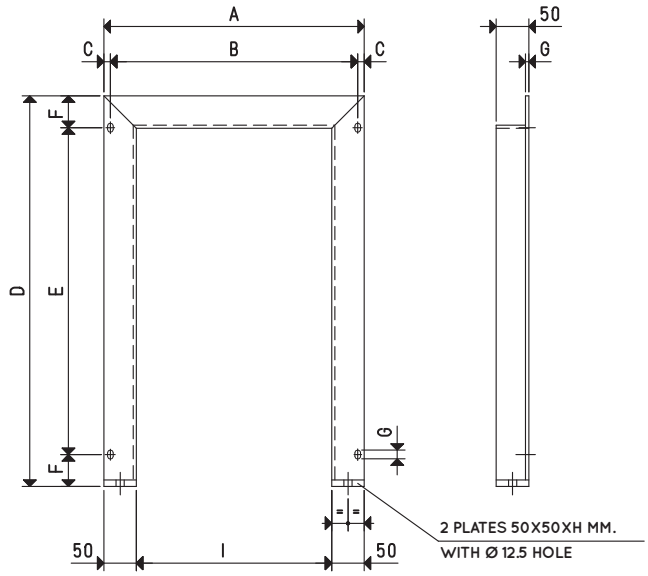
This frame is made with profiled steel and varnished with special weather-resistant paints.
It is suited for assembling three vacuum pumps.



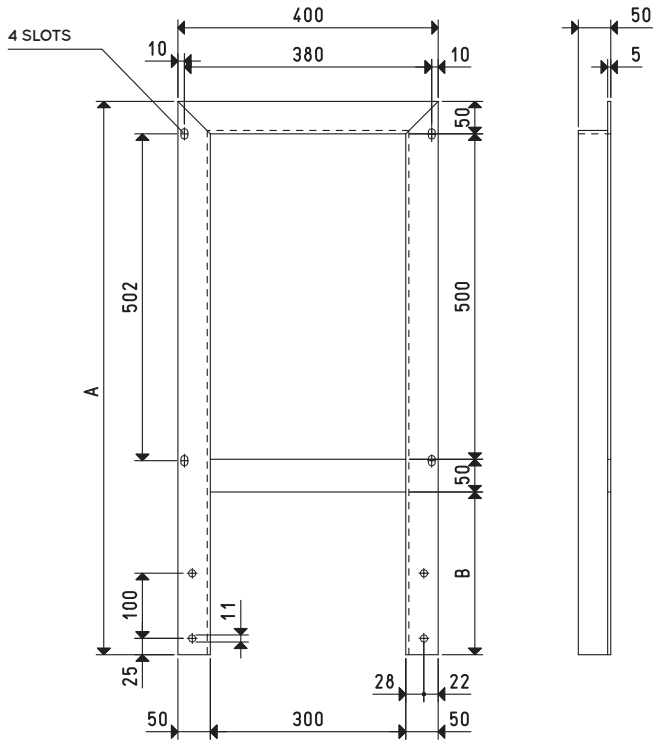


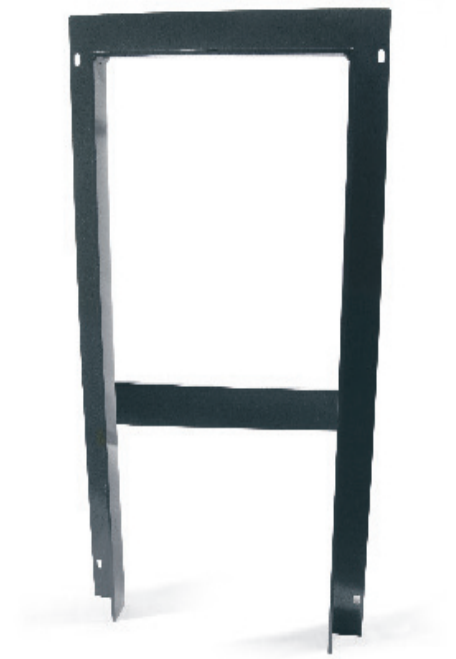
Item	Weight Kg	Fitted for 3 Pumps Mod.
00 DSV 22	197	RVP 160 - RVP 200 - RVP 250 - RVP 300

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$



Item	Weight Kg	A	B	C	D	E	F	G	H	I	Fitted for switchgear item
00 DV 16	1.5	300	256	22	300	256	22	3	10	200	DO 100 98V - DO 100 97V
00 DSV 08	5.5	400	380	10	700	502	49	5	10	300	DSO 300 97V
00 DSV 33	7.0	500	480	10	700	602	49	5	10	400	DSO 300 98V - DSV 2000 99V



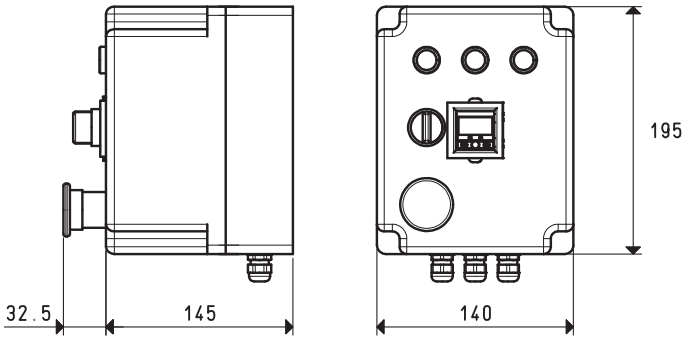


Item	Weight Kg	A	B	Fitted for switchgear item
00 DSO 07	7.5	850	250	DSO 300 97V
00 DSO 08	9.0	920	430	DSO 300 97V

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

MINI PUMP SET SWITCHGEAR

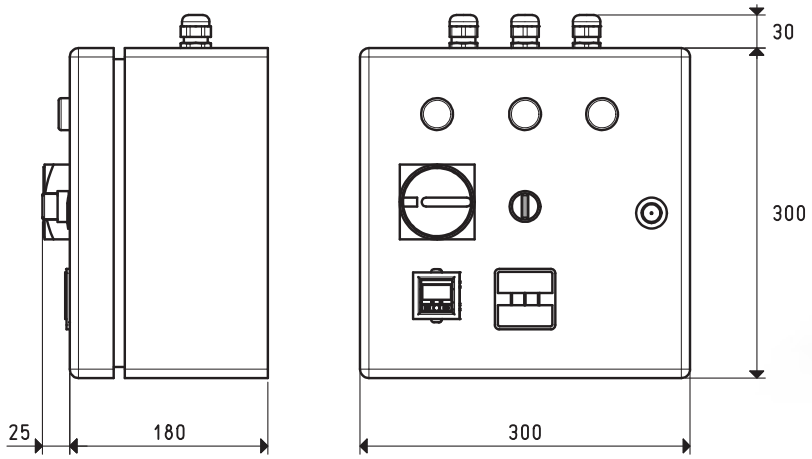
The mini pump set switchgear is enclosed in a special plastic casing. It can automatically manage a vacuum pump with a maximum power of 5.5 KW with AC and can also maintain the level of vacuum in the tank, set with the digital vacuum switch installed on the control panel.
It is equipped with a remote control switch with thermal protection, a fuse, digital vacuum switch, a transformer for low voltage auxiliary command, a selector for automatic or manual pump operation, an emergency button and signalling lamps.

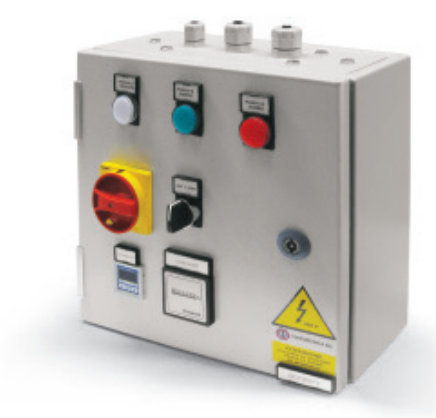


Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DO 06 98V	1	1 ~ 230-50Hz	5.5	2
DO 06 97V	1	3 ~ 230/400-50Hz	5.5	2

SWITCHGEAR FOR PUMP SETS WITH ONE PUMP

The pump set switchgear is enclosed in a special watertight metal casing and can manage a vacuum pump with a power up to 7.5 KW as well as maintain the level of vacuum in the tank, set with the digital vacuum switch.
It is equipped with a remote control switch with thermal protection, fuses, a transformer for low voltage auxiliary command power supply, a line switch, a changeover switch for the automatic or manual pump operation, an easily-programmable digital vacuum switch suitable for setting and controlling all vacuum functions, an hour-counter for measuring the actual pump operation time and signalling lamps.



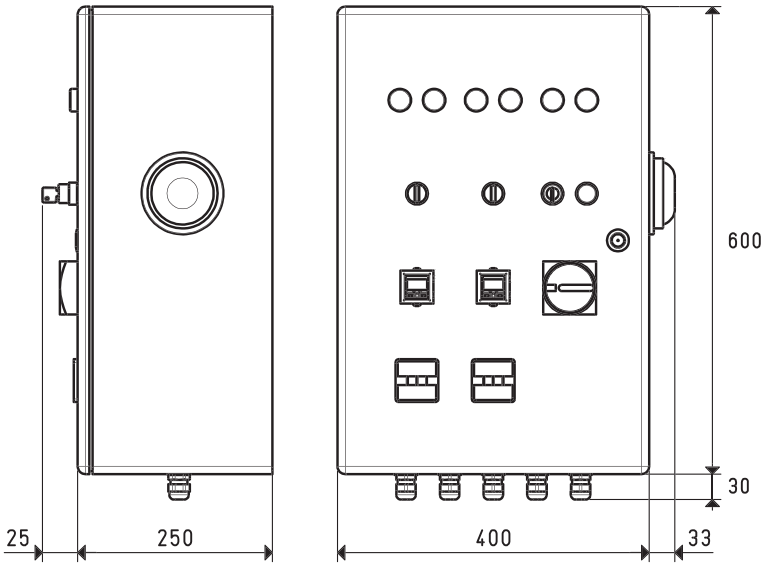


Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DO 100 98V	1	1 ~ 230-50Hz	7.5	8
DO 100 97V	1	3 ~ 230/400-50Hz	7.5	8

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

SWITCHGEAR
FOR SAFETY PUMP SET WITH 2 PUMPS

The pump set switchgear, is enclosed in a special watertight metal casing andautomatically manages two vacuum pumps, each with a power up to 7.5 KW and maintains the level of vacuum in the tank, set with the two easily-programmable digital vacuum switches, suitable for setting and controlling all vacuum functions.
It is equipped with two remote control switches with thermal protection, fuses, a transformer for low voltage auxiliary command power supply, a line switch, a changeover switches for the automatic or manual pump operation, two digital vacuum switches, two hour-counters for measuring the actual pump operation time, an alarm siren with acoustic and lit signalling, a key selector for any necessary exclusion of the siren, test buttons and signalling lamps.
The switchgear is normally provides for the operation of one pump with subsequent automatic insertion of the second one for larger consumptions and when, for whatever reason, the plant level of vacuum goes under the preset value.
The automatic timed inverter precisely alternates priority pump start-up of the services so that they are subjected to equal mechanical wear. The switchboard and remote alarm systems operate when the plant level of vacuum is below the set safety value.

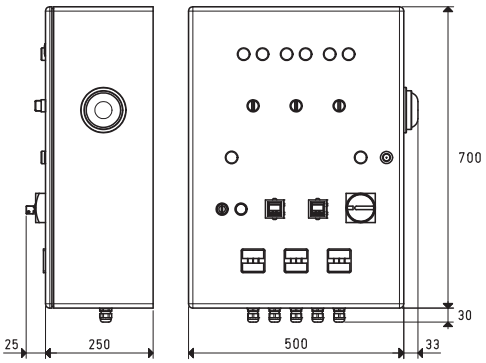


Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DSO 300 97V	2	3 ~ 230/400-50Hz	7.5 cad.	27

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

SWITCHGEAR FOR SAFETY PUMP SETS WITH THREE PUMPS

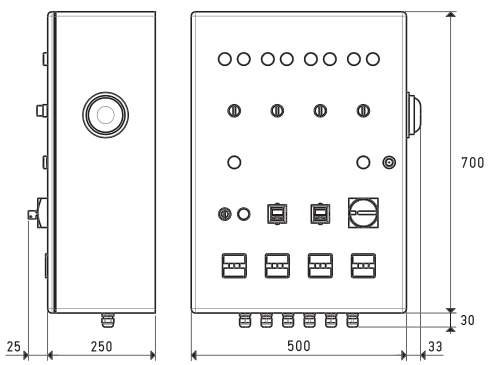
The pump set switchgear, is enclosed in a special watertight metal casing andautomatically manages three vacuum pumps, each with a power up to 7.5 KW and maintains the level of vacuum in the tank, set with the two easily-programmable digital vacuum switches, suitable for setting and controlling all vacuum functions.
It is equipped with three remote control switches with thermal protection, fuses, a transformer for low voltage auxiliary command power supply, a line switch, a changeover switches for the automatic or manual pump operation, three digital vacuum switches, two hour-counters for measuring the actual pump operation time, an alarm siren with acoustic and lit signalling, a key selector for any necessary exclusion of the siren, test buttons and signalling lamps. The switchgear is normally provides for the operation of one pump with subsequent automatic insertion of the other two for larger consumptions and when, for whatever reason, the plant level of vacuum goes under the preset value.
The automatic timed inverter precisely alternates priority pump start-up of the services so that they are subjected to equal mechanical wear.
The switchboard and remote alarm systems operate when the plant level of vacuum is below the set safety value.



Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DSO 300 98V	3	3 ~ 230/400-50Hz	7.5 cad.	29

SWITCHGEAR FOR SAFETY PUMP SET WITH FOUR PUMPS

The safety pump set switchgear is enclosed in a special watertight metal casing and it automatically manages four vacuum pumps, each with a power up to 7.5 KW, and maintains the level of vacuum in the tank, set with the two easily-programmable digital vacuum switches, suitable for setting and controlling all vacuum functions. It is equipped with four remote control switches with thermal protection, fuses, a transformer for low voltage auxiliary command power supply, a line switch, a changeover switches for the automatic or manual pump operation, two digital vacuum switches, four hour-counters for measuring the actual pump operation time, an alarm siren with acoustic and lit signalling, a key selector for any necessary exclusion of the siren, test buttons and signalling lamps.
These switchgears normally provide for the operation of two pumps and the subsequent automatic insertion of the other two for larger consumptions and when, for whatever reason, the plant level of vacuum goes below the preset value.
The automatic timed inverter precisely alternates priority pump start-up of the services so that they are subjected to equal mechanical wear.
The switchboard and remote alarm systems operate when the plant level of vacuum is below the set safety value.



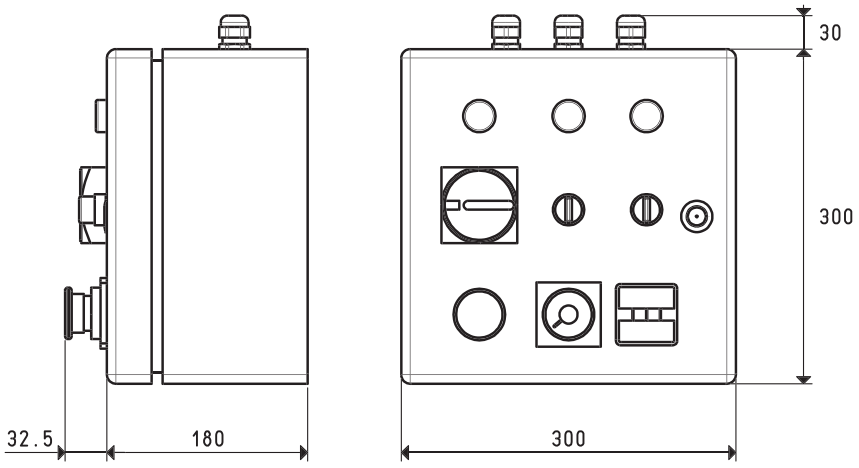
Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DSV 2000 99V	4	3 ~ 230/400-50Hz	7.5 cad.	29.5

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

SWITCHGEAR FOR SINGLE PUMP

The need to use the same vacuum pump in various spots in the work environment,
such as, for example, a shipyard, has led us to creating this mobile switchgear that allows for polarity reversal in presence of current, as well as for time setting pump operation and the automatic start-up restoration in case of accidental black-out.
The switchgear is enclosed in a special watertight metal casing and it is composed of fuses, remote control switches with thermal protection and a transformer for low voltage auxiliary command power supply. The following are instead installed on the casing lid:
- A line switch with indicator light
- A changeover switch for pump start-up with indicator light
- A changeover switch for polarity reversal
- An emergency button
- A timer for setting the duration of pump operation
- An hour-counter for counting the actual pump operation time
- A malfunction warning light.

This switchgear is supplied in special metal watertight casing and can manage pumps with power up to 7.5 Kw.



Item	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DO 100 94	1	3 ~ 230/400-50Hz	7.5	8.0

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

SWITCHGEAR EQUIPPED WITH TOUCH SCREEN OPERATOR PANEL AND PLC FOR PUMP SETS AND SAFETY PUMP SETS WITH TWO OR MORE PUMP

The new electrical equipment consists of a touch screen, which is a special electronic device that is the result of combining a screen and a digitizer that allow the user to interact with a graphical interface using their fingers or specific objects.
The touch screen operator panels installed on our Pump sets are human machine interface systems, or rather devices that allow people to control our equipment very easily.
The electrical panel contains command and control equipment, collects the digital signals coming from the vacuum switch to power the vacuum pumps when necessary and is designed for a single-phase 230 Vac 50 Hz and three-phase 400 Vac 50 Hz power supply with an IP 54 protection rating. Inside is a PLC that manages all the control logics for manual and automatic operation.

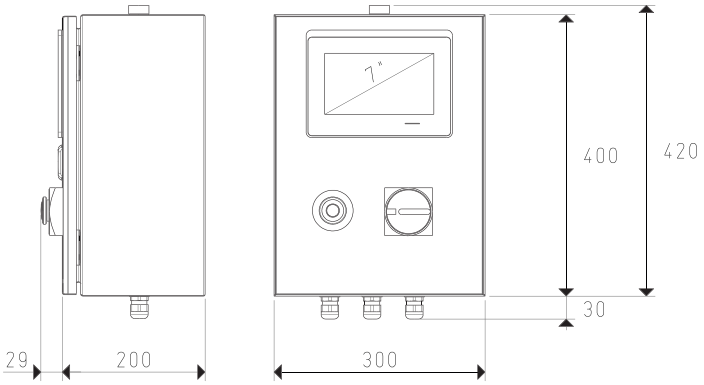
The many advantages:
- New Design;
- Alarm signalling with acoustic-visual siren;
- Easy, intuitive programming;
- System maintenance messages;
- Vacuum level adjustable from panel;
- Pump alarm-maintenance reports;
- Energy-saving display switch-off;
- Translatable into 5 languages.

The pump set is designed to operate vacuum pumps in manual or automatic mode thanks to our precise, reliable digital vacuum switches, which can be easily programmed via the operator panel. Bright displays with a wide viewing angle provide an excellent overview of the status of the machine as a whole and of all systems thanks to the 7"- 10" touch screen operator panels with graphic interface.
We have included a real-time vacuum trend page with a graph. Alarm messages indicate the type of alarm that has occurred on the panel for immediate and simplified troubleshooting.
System maintenance messages are displayed during the correct maintenance period.
(Possibility of displaying our products via a Qr code search).

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

SWITCHGEAR EQUIPPED WITH TOUCH SCREEN OPERATOR PANEL AND PLC FOR PUMP SETS

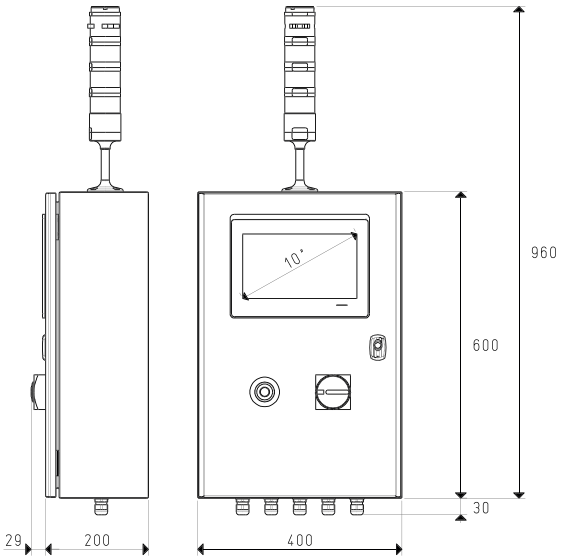
Pump set switchgear with a 7" touch screen operator panel is able to automatically manage a vacuum pump with a maximum power of 7.5 KW in AC and can also maintain the level of vacuum in the tank.All settings are managed by the Operator Panel and PLC. All settings are managed from the Operator Panel and PLC.



Art.	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DO 100 98V PLC	1	1 ~ 230-50Hz	7.5	8
DO 100 97V PLC	1	3 ~ 230/400-50Hz	7.5	8

SWITCHGEAR EQUIPPED WITH TOUCH SCREEN OPERATOR PANEL AND PLC FOR SAFETY PUMP SETS WITH 2 PUMPS

Safety pump set switchgear with a 10" touch screen operator panel is able to automatically manage two vacuum pumps with a maximum power of 7.5 KW AC and maintains the level of vacuum in the tank.
All settings are managed from the Operator Panel and PLC.



Art.	Quantity of pumps No.	Motor performance Volt	Max pump power Kw	Weight Kg
DSO 300 97V PLC	2	3 ~ 230/400-50Hz	7.5 cad.	26

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

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