

HORIZONTAL SAFETY PUMPSETS – GENERAL DESCRIPTION

Safety pumpsets have been designed to centralise vacuum in all work environments such as hospitals, laboratories, etc. where vacuum must be guaranteed 24/7.

They are composed of:

- A horizontal welded sheet steel tank with perfect vacuum seal.
- Two rotating vane vacuum pumps to be chosen according to the required suction capacity and vacuum level.
- Three vacuum switches, of which two for adjusting the vacuum level within which each pump must operate, and one for determining the minimum safety value, under which the alarm sets off.
- A vacuum gauge for a direct reading of the vacuum level in the tank.
 - Two manual valves for pump exclusion.
 - A manual valve for vacuum interception.
 - A cock for condensation drainage.
- A switchgear enclosed in a special watertight metal casing with switches for automatic or manual pump operation, an alarm device with sound and light signal, alarm-test buttons and hour-counter for counting the hours of actual operation of every single pump.

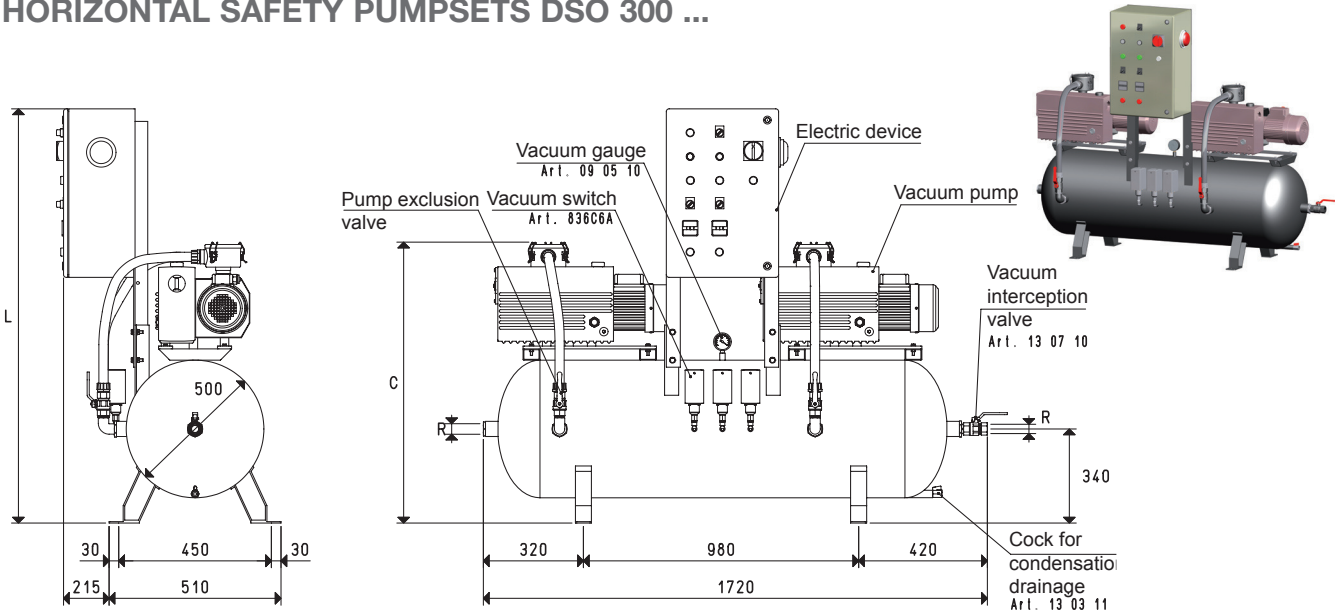
These pumpsets normally provide for the operation of one pump with subsequent automatic insertion of the second one for larger consumptions and when, for whatever reason, the plant vacuum level goes under the preset value.

The automatic timed inverter, located on the switchboard, accurately alternates the pump start-up, so that they are both subject to the same mechanical wear.

The switchboard and remote alarm systems operate when the plant vacuum level is below the set safety value.

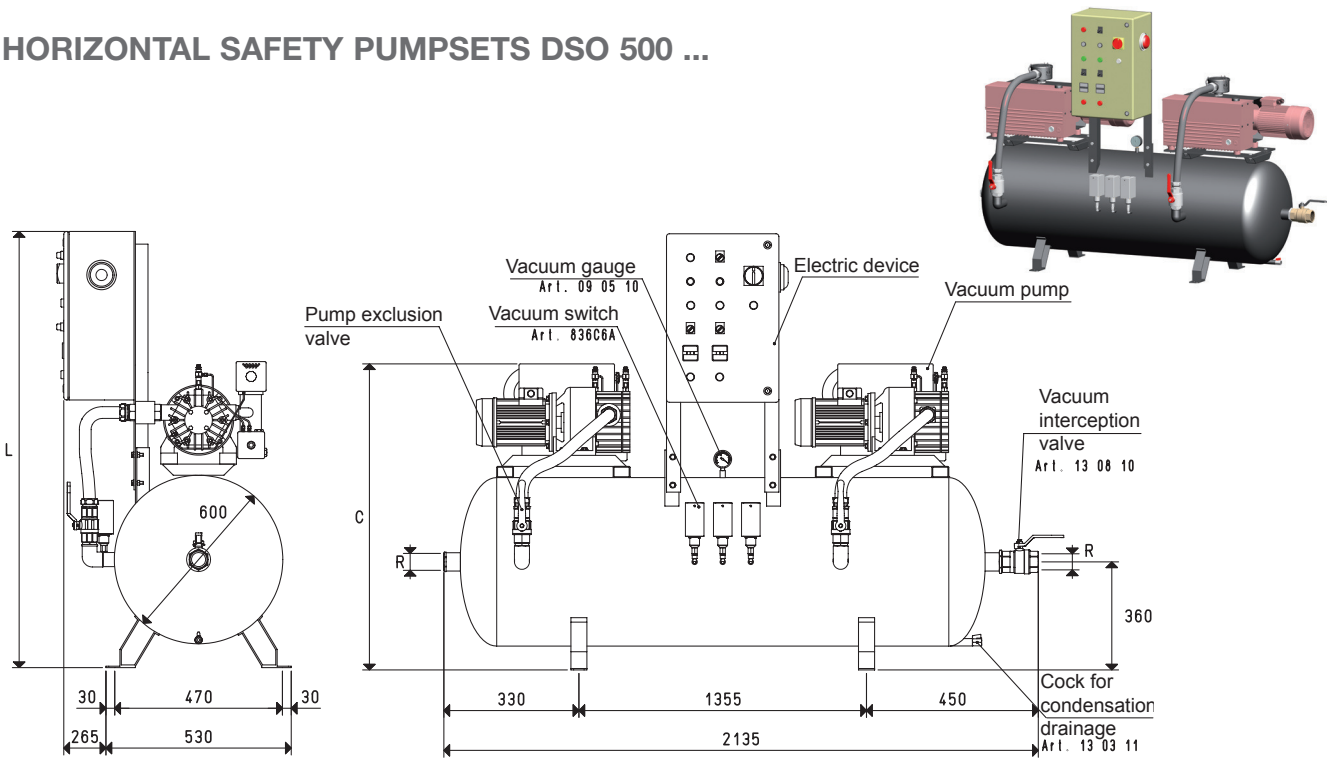


HORIZONTAL SAFETY PUMPSETS DSO 300 ...



Art.	Tank	2 pumps	Motor execution	Switchgear	C	L	R	Weight	Recommended accessories
	Litres	Mod.	Volt	art.			Ø	Kg	art.
DSO 300 MV 40	300	MV 40	3 ~ 230/400-50Hz	DSO 300 90	940	1480	G1"1/2	196.8	FB 50 / FC 50
DSO 300 VTL 50/G1	300	VTL 50/G1	3 ~ 230/400-50Hz	DSO 300 90	990	1480	G1"1/2	214.8	FB 50 / FC 50
DSO 300 MV 60	300	MV 60	3 ~ 230/400-50Hz	DSO 300 90	940	1480	G1"1/2	212.8	FB 50 / FC 50
DSO 300 VTL 75/G1	300	VTL 75/G1	3 ~ 230/400-50Hz	DSO 300 90	1040	1480	G1"1/2	259.8	FB 50 / FC 50
DSO 300 MV 100	300	MV 100	3 ~ 230/400-50Hz	DSO 300 90	970	1480	G1"1/2	266.8	FB 50 / FC 50
DSO 300 VTL 105/G1	300	VTL 105/G1	3 ~ 230/400-50Hz	DSO 300 90	1080	1480	G1"1/2	302.0	FB 50 / FC 50

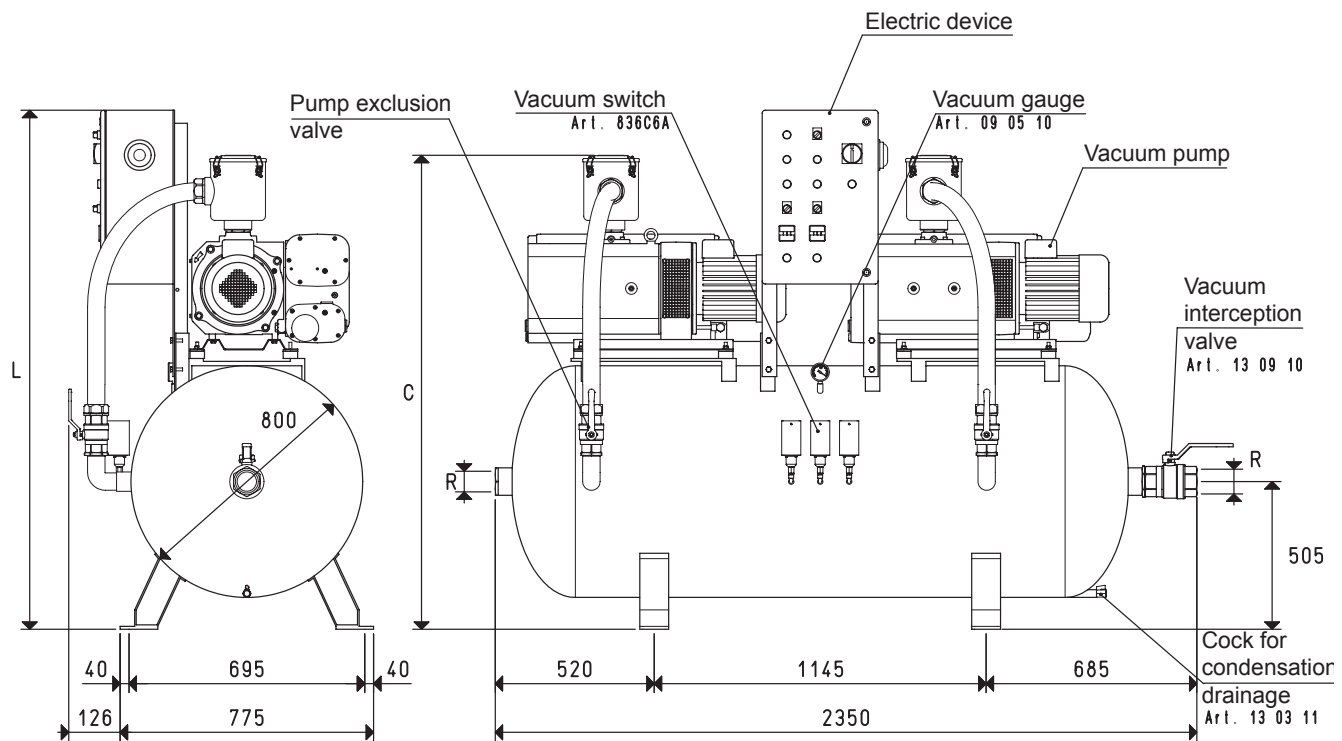
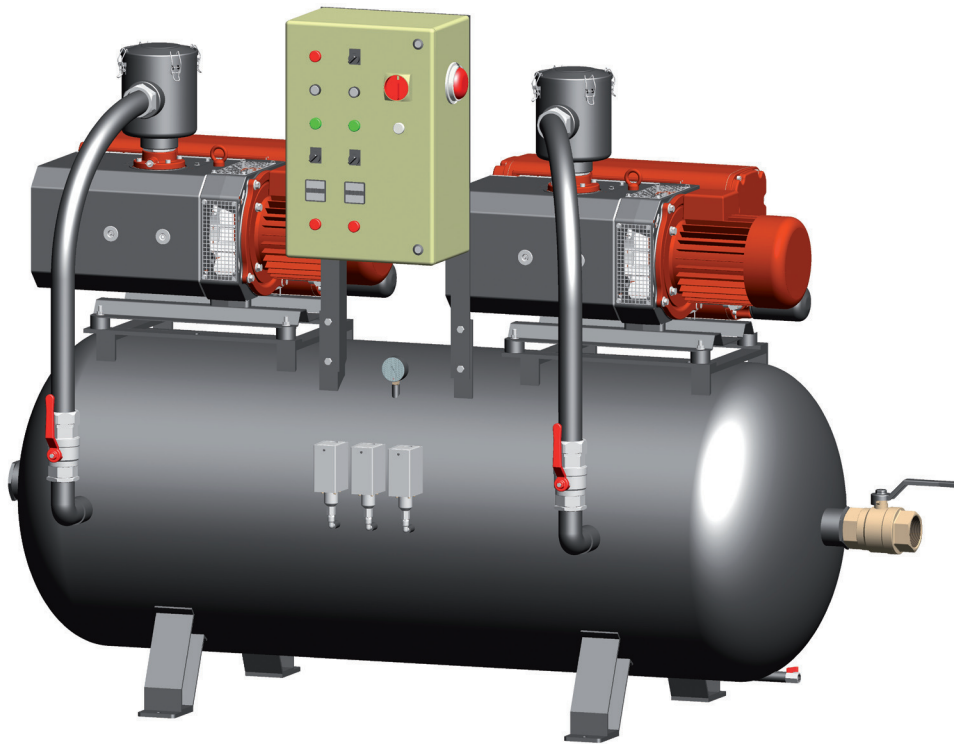
HORIZONTAL SAFETY PUMPSETS DSO 500 ...



Art.	Tank	2 pumps	Motor execution	Switchgear	C	L	R	Weight	Filter accessories
	Litres	Mod.	Volt	art.			Ø	Kg	art.
DSO 500 VTL 50/G1	500	VTL 50/G1	3 ~ 230/400-50Hz	DSO 300 90	1090	1510	G2"	287.8	FB 60 / FC 60
DSO 500 MV 60	500	MV 60	3 ~ 230/400-50Hz	DSO 300 90	1030	1510	G2"	285.8	FB 60 / FC 60
DSO 500 VTL 75/G1	500	VTL 75/G1	3 ~ 230/400-50Hz	DSO 300 90	1140	1510	G2"	332.8	FB 60 / FC 60
DSO 500 MV 100	500	MV 100	3 ~ 230/400-50Hz	DSO 300 90	1060	1510	G2"	339.8	FB 60 / FC 60
DSO 500 VTL 105/G1	500	VTL 105/G1	3 ~ 230/400-50Hz	DSO 300 90	1180	1510	G2"	375.0	FB 60 / FC 60
DSO 500 MV 160R	500	MV 160R	3 ~ 230/400-50Hz	DSO 300 90	1078	1510	G2"	399.0	FB 60 / FC 60

Note: As a standard, all MV... pumps are equipped with an FC... filtre adjusted to the suction connection size.

HORIZONTAL SAFETY PUMPSETS DSO 1000 ...



Art.	Tank	2 pumps	Motor execution	Switchgear	C	L	R	Weight	Filter accessories
	Litres	Mod.	Volt	art.			Ø	Kg	art.
DSO 1000 MV 60	1000	MV 60	3 ~ 230/400-50Hz	DSO 300 90	1280	1730	G3"	342.8	FC 80
DSO 1000 VTL 75/G1	1000	VTL 75/G1	3 ~ 230/400-50Hz	DSO 300 90	1380	1730	G3"	389.2	FC 80
DSO 1000 MV 100	1000	MV 100	3 ~ 230/400-50Hz	DSO 300 90	1310	1730	G3"	396.8	FC 80
DSO 1000 VTL 105/G1	1000	VTL 105/G1	3 ~ 230/400-50Hz	DSO 300 90	1430	1730	G3"	432.0	FC 80
DSO 1000 MV 160R	1000	MV 160R	3 ~ 230/400-50Hz	DSO 300 90	1328	1730	G3"	452.0	FC 80
DSO 1000 MV 200R	1000	MV 200R	3 ~ 230/400-50Hz	DSO 300 91	1421	1730	G3"	570.2	FC 80
DSO 1000 MV 300R	1000	MV 300R	3 ~ 400/690-50Hz	DSO 300 91	1421	1730	G3"	624.2	FC 80

Note: As a standard, all MV... pumps are equipped with an FC... filtre adjusted to the suction connection size.

Conversion ratio: inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$

GAS-NPT thread adapters available at page 1.117

7.79

3D drawings available at www.vuototecnica.net