

Hospital vacuum stations
MEDEVICE HTM

HTM 2022 / 02-01



Key features

- Horizontal or vertical configurations available
 - Possibility of integrated solution mounted on tank assembly
 - DUPLEX TRIPLEX OR QUADRUPLEX configurations
 - A vertical reservoir complete with a condense exhaust system and two bactericidal filters
(HTM2022/02-01, UNI EN7396-1:2007 5.7.1).
 - Designed to meet the normal requirements of the user by operating a single pump.
 - Running hours are shown on the display
 - Compliant with **HTM 2022/02-01, 93/42/EEC** Directive
 - From 12 to 340 Nm³/h for each pump



- BACTERICIDAL FILTER**
Designed to hold micro-organisms up to 0.01 microns. It must be assembled with the container set vertically and the sterilised container on the lower side. This set must be connected to the vacuum unit suction connector.



- PUMPS**
Cast-iron pumping unit, coupled to the motor by means of a flexible coupling and centrifugal fan for cooling. Aluminium oil tank with a compartment for separation and recovery of air/oil for eliminating oil mists on the delivery side. Check valve on the suction side. If required, gas ballast valve and supporting base.

Hospital vacuum stations HTM 2022 / 02-01



4 CONTROL PANEL FULLY COMPLYING TO HTM 2022 / 02-01 HEALTH TECHNICAL MEMORANDUM

- It offers a high technology and a large flexibility in the management of all the necessary information for a good operation of the groups.
- Back-lighted Display LCD 16*2 digits
 - 8 keys keyboard
 - Control from 1 to 4 pumps
 - Automatic control and optimization of the consumption of the single pumps, with adjustable automatic exchange.
 - Alarms display (insufficient vacuum – oil lacking – blocked pump – etc.)
 - Adjustable connected pumps number
 - On/Off programmable intervention thresholds for each pump
 - Adjustable threshold of minimum vacuum degree for alarm generation
 - Management and visualization of hour counters of each pump
 - Visualization of the programmed maintenance operations for each pump – Automatic and manual operation.

The operating and indicating system is able to manage the following activities:

- overall plant control and indication;
- management of each pump with a separated control board and individual starter unit
- plant status monitoring and indication;
- give alarm signals for each pump and for the overall system

General Description

MEDEVICE HTM Vacuum Systems are manufactured under **HTM 2022 / 02-01 Health Technical Memorandum** and are provided in different shapes according to different requirements. Therefore they can be vertical or horizontal. They consist of three vacuum pumps, a reservoir complete with a condense exhaust system and two bactericidal filters.

Specific Benefits Include:

- Fully complies to HTM 2022 / 02-01, BS EN 7396
- Main Control panel with Digital display complying to HTM 2022 / 02-01 requirements
- Pump's control panel with and highly visible indication
- All interconnecting pipework is included
- Outlet pipework for connecting to the pipeline
- Anti-vibration mounts on all pumps
- Thermal relay to each pump unit as standard
- Alarm and BMS outputs for remote status indication
- All settings are factory set and verified with certificates of inspection
- Each plant has a full warranty of 12 months

Working principles

After the first manual start up, the unit runs automatically, maintaining the required vacuum level in the reservoir. The unit is designed to meet the normal requirements of the user by operating a single pump. The units are set according to an experimental simultaneity coefficient accounted for in the calculation of the system capacity.

When needed, the second pump starts running and doubles the capacity in order to readjust the system to the required vacuum conditions. If even the second pump cannot meet the required vacuum, then the third pump starts working.

On each starting, the control board makes it possible to exchange pumps in order to get equal wearing for the three pumps. Running hours are shown on the display in the centre of the main control board.

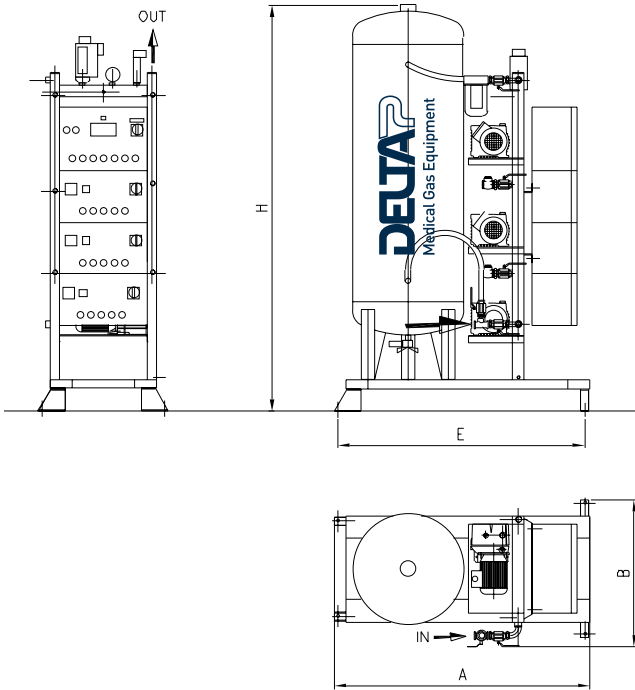
The by-pass system allows to carry out reservoir replacement and/or maintenance without stopping the unit.

VERTICAL HOSPITAL VACUUM STATION TECHNICAL SPECIFICATION



3 X 12 - 3 X 28

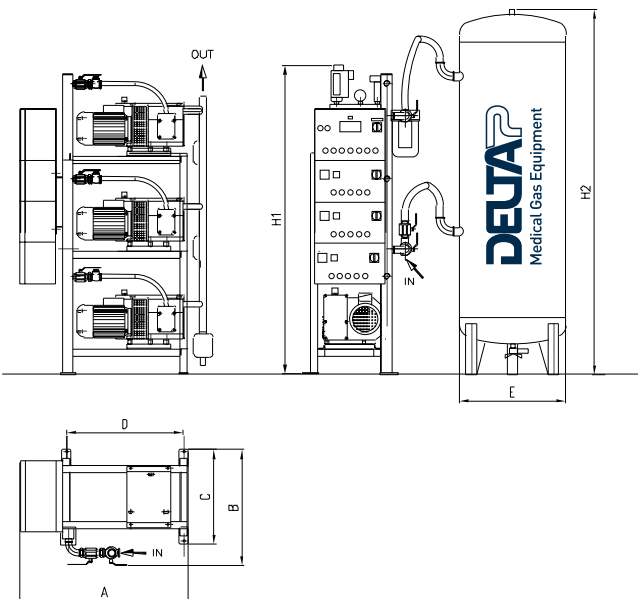
VERTICAL HOSPITAL VACUUM STATION



MODEL	3x12	3x28
CAPACITY	12 m3/h	28 m3/h
TOTAL CAPACITY	36 m3/h	84 m3/h
VACUUM	10 mbar	
TANK (Lt)	270 Lt	
POWER SUPPLY	400 V / 3ph / 50-60 Hz	
KW		
MAIN BOARD	0,74 KW	1,5 KW
EMERGENCY BOARD	0,37 kW	0,75 KW
SUCTION CONNECTION	G 3/4"	
DELIVERY CONNECTION	G 3/4"	
WEIGHT	180 kg	240 Kg
DIMENSIONS (Approx)		
A (mm)	1153	1248
B (mm)	661	701
E (mm)	1113	1213
H (mm)	1830	1830

3 X 40 - 3 X 60 - 3x100

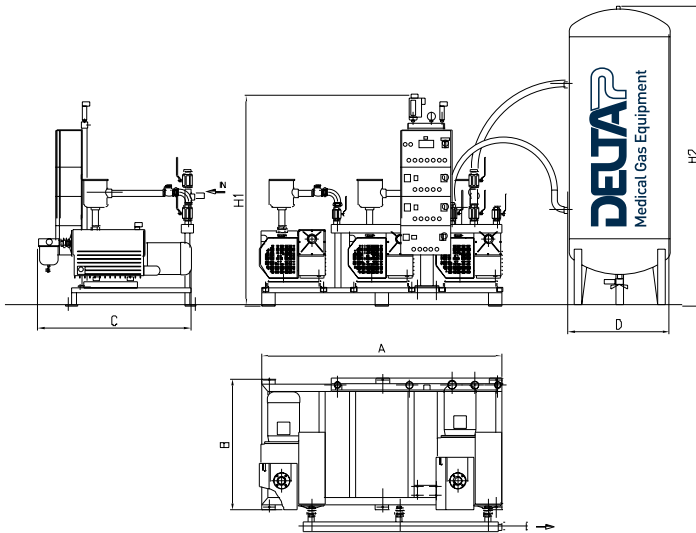
VERTICAL HOSPITAL VACUUM STATION



MODEL	3x40	3x60	3x100
CAPACITY	40 m3/h	60 m3/h	100 m3/h
TOTAL CAPACITY	120 m3/h	180 m3/h	300 m3/h
VACUUM	10 mbar		
TANK (Lt)	270/500	500/1000	1000
POWER SUPPLY	400 V / 3ph / 50-60 Hz		
KW			
MAIN BOARD	2,2 KW	3,0 KW	4,4 KW
EMERGENCY BOARD	1,1 kW	1,5 KW	2,2 KW
SUCTION CONNECTION	G 1"	G 1"	G 1" 1/2
DELIVERY CONNECTION	G 1"	G 1"	G 1" 1/4
WEIGHT (Kg)	360/420	380/440	510
DIMENSIONS (Approx)			
A (mm)	948	948	1171
B (mm)	654	654	888
C (mm)	553	553	696
D (mm)	660	660	666
E (mm)	500 (270 Lt) 600 (500 Lt)	500 (270 Lt) 800 (1000 Lt)	800
H1 (mm)	1735	1735	1885
H2 (mm)	1830 (270 Lt) 2120 (500 Lt)	2120 (500 Lt) 2410 (1000 Lt)	2410

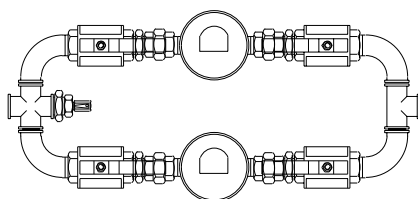
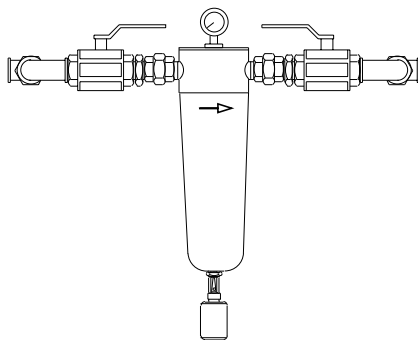
HORIZONTAL HOSPITAL VACUUM STATION TECHNICAL SPECIFICATION  ENG

3 X 220 - 3 X 340
HORIZONTAL HOSPITAL VACUUM STATION



MODEL	3x220	3x340
CAPACITY	220 m3/h	340 m3/h
TOTAL CAPACITY	660 m3/h	1020 m3/h
VACUUM	10 mbar	
TANK (Lt)	1000 Lt	
POWER SUPPLY	400 V / 3ph / 50-60 Hz	
KW		
MAIN BOARD	8,0 KW	15,0
EMERGENCY BOARD	4,0 KW	7,5 KW
SUCTION CONNECTION	G 1" 1/2	
DELIVERY CONNECTION	G 1" 1/2	
WEIGHT	750 kg	950 Kg
DIMENSIONS (Approx)		
A (mm)	1910	
B (mm)	1039	
C (mm)	1213	
D (mm)	800	
H1 (mm)	1670	
H2 (mm)	2410	

BACTERIAL FILTER



SIZE CONNECTION	UTILIZATION
G 1/2"	12 X 3
G 3/4"	28 X 3
G 1"	40 X 3 - 60 X 3
G 1" 1/2	100 X 3 / 220 X 3 / 340 X 3