

# LABOVAC

Laboratories, research institutes and universities have to handle various and changing gases and need a versatile machine to do so.

The LABOVAC units with their single stage liquid ring vacuum pump(s) Antigua are the ready-to-use packages adapted for many applications.



**Reliable liquid ring Antigua pump with simple design and high quality materials.  
High efficiency when handling saturated vapor-gas mixtures.**



**Optional partial recycling device to reduce by half the volume of fresh cool water required.  
Lower running costs due to less waste water than in a once-through operation mode.**

# Liquid ring vacuum plants

## Laboratories systems

For connection to municipal water network.  
Water supply valve assembly including a shut-off valve, a strainer to foreign parts, a mechanical pressure switch, a solenoid valve and a water flow limiter.



Basic LG7 electrical box with mechanical pressure switch to control Labovac 1 plant.



Electrical control box with MILLENIUM PLC.  
1 analog vacuum sensor allowing high precision for the regulated vacuum hysteresis.



Optional filtration, with HEPA class ISO 35 bacterial cartridge.



# LABOVAC 1

## Liquid ring technology



- Automatic and compact vacuum plants for laboratories
- Liquid ring vacuum pump ANTIGUA type
- Partial water recycling system (option)
- Capable of handling draw-in dust
- Water flow regulation
- Easy setting
- Electromechanical control board (2 thresholds vacuum switch)
- HEPA simple bacterial filtration with or without by-pass (option)



### Characteristics

LABOVAC 1 - 50 Hz ANTIGUA liquid ring pump	Nominal capacity m <sup>3</sup> .h <sup>-1</sup>	Power kW	Receiver capacity l	Noise level dB(A)	Water consumption *		Weight kg
					Opened range	With separator	
LABOVAC 1 - S27	24	1,1	500	64	4	2	140
LABOVAC 1 - S52	45	2,2	500	70	4	2	145
LABOVAC 1 - S127	82	3	500	70	8	4	175
LABOVAC 1 - S162	145	5,5	500	73	16	8	265
LABOVAC 1 - S252	195	5,5	500	72	16	8	280

\* consumption for a low pressure less than 200 mbar abs.

### Available set-up

#### LABOVAC 1

With separator for partial water recycling



Without separator



Bacterial filtration



Network alarm



■ Standard equipment depending on model

◆ Optional equipment

### Power supply

- 3-phase, 400V+N+E / 50Hz (standard)

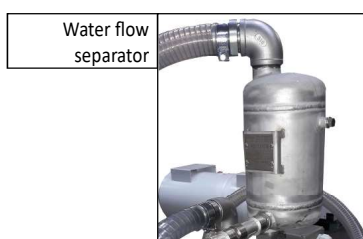
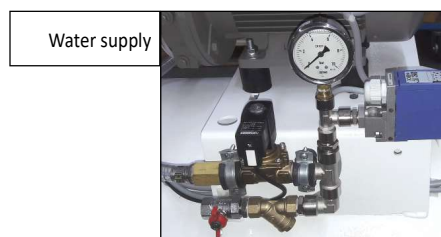
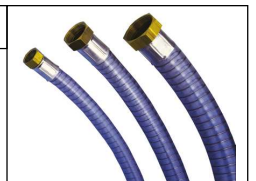
2 Network connection alarm



3 Vertical vacuum receiver



4 Suction hoses



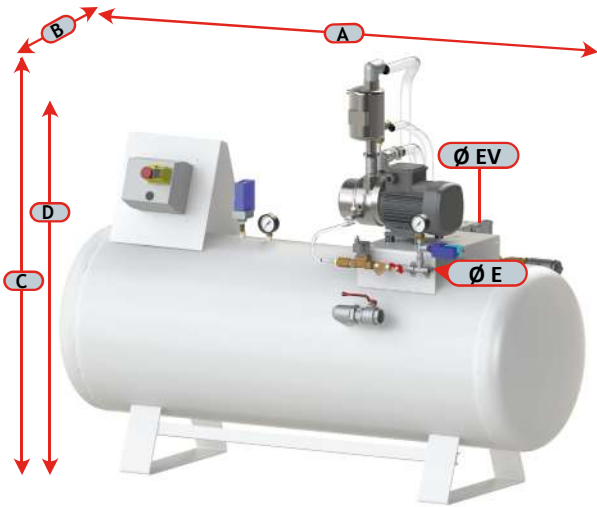
Specifications are subject to be changed without notice.

# Liquid ring vacuum plants

## Laboratories systems



### Dimensions (mm)



LABOVAC 1	A	B with filtration	B without filtration	C with separator	D without separator
LABOVAC 1 - S27	1780	900	850	1330	1080
LABOVAC 1 - S52	1780	900	850	1340	1090
LABOVAC 1 - S127	1780	1060	850	1625	1275
LABOVAC 1 - S162	1780	1150	950	1760	1355
LABOVAC 1 - S252	1780	1150	950	1800	1450

LABOVAC 1	Suction	Exhaust	Ø E *	Ø EV *
LABOVAC 1 - S27	1"1/4	1"	1/2"	1"1/4
LABOVAC 1 - S52	1"1/4	1"	1/2"	1"1/4
LABOVAC 1 - S127	1"1/4	1"1/4	1/2"	1"1/4
LABOVAC 1 - S162	1"1/4	1"1/2	1/2"	1"1/4
LABOVAC 1 - S252	1"1/4	1"1/2	1/2"	1"1/4

\* E : water inlet port / EV : water discharge port

### Plant references

LABOVAC 1		S27 R5	S52 R5	S127 R5	S162 R5	S252 R5
LABOVAC 1	with separator	925080	925081	925082	925083	925084
LABOVAC 1	without separator	925085	925086	925087	925088	925089

### Accessories and option references

LABOVAC 1	S27 R5	S52 R5	S127 R5	S162 R5	S252 R5
<b>1</b> Simple bacterial filtration with by-pass mounted on receiver	FD30B 811833	FD65B 812306	FD130B 812308		FD320B 811836
Simple bacterial filtration, wall fixation	FD30B 811848	FD65B 811849	FD130B 811850		FD320B 811851
<b>2</b> Independant network alarm	708510				
Transformer 400V/230V	If no neutral available 611099				
<b>3</b> Additional vertical receiver equipped	1 x 500 liters 710486		1 x 1000 liters 710488		1 x 2000 liters 722341
Hose for additional receiver	710992		710993		710994

# LABOVAC 2

## Liquid ring technology



- Automatic and compact vacuum plants for laboratories
- Liquid ring vacuum pumps ANTIGUA type
- Partial water recycling system (option)
- Capable of handling draw-in dust
- Water flow regulation
- Easy setting
- MILLENIUM PLC control board or electronic cards CYCLIC 2020
- HEPA simple bacterial filtration with by-pass mounted on plant or delivered separately (option)



### Characteristics

LABOVAC 2 - 50 Hz ANTIGUA liquid ring pump	Nominal capacity m <sup>3</sup> .h <sup>-1</sup>	Power kW	Receiver capacity l	Noise level dB(A)	Water consumption *		Weight kg
					Opened range	With separator	
LABOVAC 2 - S27	2 x 24	2 x 1,1	500	64	2 x 4	2 x 2	220
LABOVAC 2 - S52	2 x 45	2 x 2,2	500	70	2 x 4	2 x 2	230
LABOVAC 2 - S127	2 x 82	2 x 3	500	70	2 x 8	2 x 4	290
LABOVAC 2 - S162	2 x 145	2 x 5,5	750	73	2 x 16	2 x 8	440
LABOVAC 2 - S252	2 x 195	2 x 5,5	750	72	2 x 16	2 x 8	470

\* consumption for a low pressure less than 200 mbar abs.

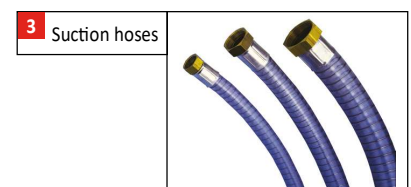
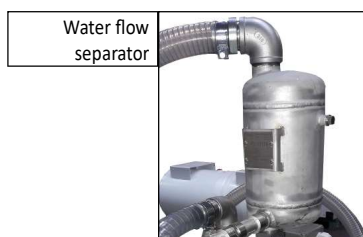
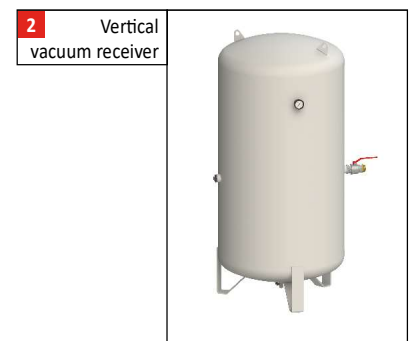
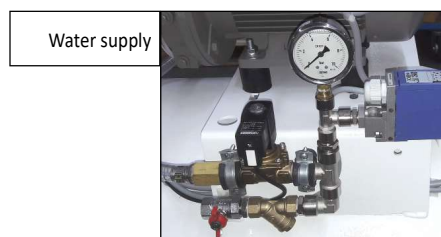
### Available set-up

	LABOVAC 2
With separator for partial water recycling	■
Without separator	■
Bacterial filtration	◆
Network alarm	◆

- Standard equipment depending on model
- ◆ Optional equipment

### Power supply

- 3-phase, 400V+N+E / 50Hz (standard)



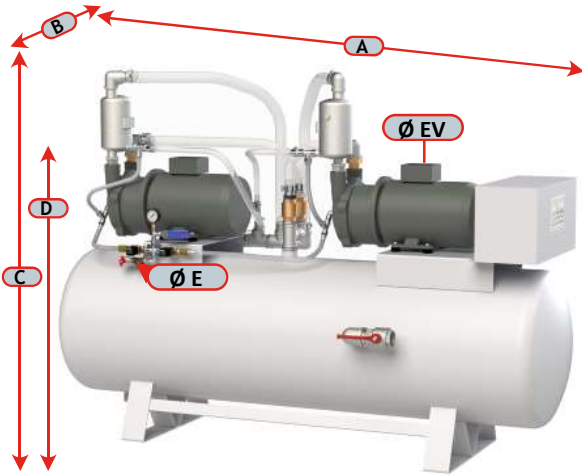
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# Liquid ring vacuum plants

## Laboratories systems



### Dimensions (mm)



LABOVAC 2	A	B with filtration	B without filtration	C with separator	D without separator
LABOVAC 2 - S27	1780	900	850	1330	1080
LABOVAC 2 - S52	1780	900	850	1340	1090
LABOVAC 2 - S127	1780	1060	850	1625	1275
LABOVAC 2 - S162	2300	1150	1070	1760	1355
LABOVAC 2 - S252	2300	1150	1070	1860	1450

LABOVAC 2	Suction	Exhaust	Ø E *	Ø EV *
LABOVAC 2 - S27	1"1/4	1"1/4	1/2"	1"1/4
LABOVAC 2 - S52	1"1/4	1"1/4	1/2"	1"1/4
LABOVAC 2 - S127	1"1/4	1"1/4	1/2"	1"1/4
LABOVAC 2 - S162	2"	2"	1/2"	1"1/4
LABOVAC 2 - S252	2"	2"	1/2"	1"1/4

\* E : water inlet port / EV : water discharge port

### Plant references

LABOVAC 2	S27 R5	S52 R5	S127 R5	S162 R75	S252 R75
LABOVAC 2 C2020 with separator	925090	925091	925092	925093	925094
LABOVAC 2 C2020 without separator	925095	925096	925097	925098	925099
LABOVAC 2 MIL with separator	925100	925101	925102	925103	925104
LABOVAC 2 MIL without separator	925105	925106	925107	925108	925109

### Accessories and option references

LABOVAC 2	S27 R5	S52 R5	S127 R5	S162 R75	S252 R75
<b>1</b> Simple bacterial filtration with by-pass mounted on receiver	FD65B 812306	FD130B 812308	FD320B 811836		-
Simple bacterial filtration, wall fixation	FD65B 811849	FD130B 811850	FD320B 811851		FD600B 811852
Network alarm with sensor	CYCLIC 2020		611027		
	MILLENNIUM		616690		
Transformer 400V/230V	If no neutral available		611099		
<b>2</b> Additional vertical receiver equipped	1 x 500 liters 710486		1 x 1000 liters 710488		1 x 2000 liters 722341
Hose for additional receiver	710992		710993		710994