

Vacuum pump

LEMA, LEMB

PLC

Capacity 3-450 m ³ /h	Pressure range 33-1013 mbar	Material Cast iron & Stainless steel
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Description

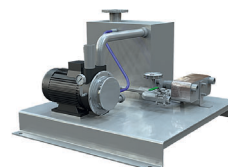
A compact vacuum unit that consists of various components.

Range of application

Evacuation and pumping of dry gases and saturated steam.

Typical industries are chemistry, pharmaceutical, food, plastic and rubber industry.

Vacuum is used for distillation, drying, degassing, filling and boiling.



AT 6300

Design

PLC compact vacuum unit

The compact vacuum unit consists of a liquid ring vacuum pump, liquid separator and various instruments such as heat exchangers, valves, ejector etc.

The pump works according to the liquid ring principle. Liquid ring pumps are in some regards related with displacement pumps since the pump wheel is eccentrically located in the round pump body. When the wheel is rotating a fluid ring is created along the pump body's inner wall. In the cells (the space between the pump body's wings) inside the fluid ring rising part volumes (intake) and then decreasing volumes (outlet) will be created under one rotation.

The PLC vacuum system is available in three different variants:

Operation mode H: Circulation operation

Operation mode T: Combined operation, thermostatic control

Operation mode C: Combined liquid operation

Product key (example LEMA 26 AZ AA1 4B 7 1A)

Pos	Description	Code	Explanation
1-3	Pump model	PLC	Vacuum unit
4	Construction	B	
5-7	Pump size	25-425	
8	Type	H C T	
9	Connection	Z	

Material combinations

Pos	0	4B
Pump	Pump	Pump
Vacuum casing	0.6025 Cast iron 1.4301 LEM26-251/	1.4408 Acid-proof steel
Guide disc	0.6025 LEM 325-425 1.4301 LEM26-251/ -	1.4404 LEM26-251/1.4408 LEM 325-425
Cover	LEM 325-425 1.4308 LEM26/ 2.1096.01 LEM51/	1.4404 LEM26-251/ - LEM 325-425
Impeller	1.4308 LEM91-251/ 0.7043 LEM325-425	1.4408 LEM91-161 / 1.4517 LEM 26-51, LEM251-425
Unit	Unit	Unit
Separator	1.4301 Stainless steel	1.4301 Stainless steel
Base plate	1.4301 Stainless steel	1.4301 Stainless steel
See leaflet for material in all components		

Connections

Connection	Designation
UB	Service fluid G 1/4
Ue	Drainage G 1/4
Uc	Cavitation protection G 1/4
Um	Pressure sensor G 1/4

Service fluid in m³/h
