Pressure rangeMaterial33-1013 mbarCast iron & Stainless steel

Description

3-450 m³/h

Capacity

A compact vacuum unit that consists of various components.

Range of application

Vacuum pump

LEMA, LEMB

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.

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	В	
5-7	Pump size	25-425	
8	Туре	НСТ	
9	Connection	Z	



AT 6300

Material combinations

Pos	0	4B			
Pump	Pump	Pump			
Vacuum casing	0.6025 Cast iron	1.4408 Acid-proof steel			
	1.4301 LEM26-251/				
Guide disc	0.6025 LEM 325-425	1.4404 LEM26-251/1.4408 LEM 325-425			
	1.4301 LEM26-251/ -				
Cover	LEM 325-425	1.4404 LEM26-251/ - LEM 325-425			
	1.4308 LEM26/				
	2.1096.01 LEM51/				
	1.4308 LEM91-251/	1.4408 LEM91-161 / 1.4517 LEM 26-51,			
Impeller	0.7043 LEM325-425	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

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