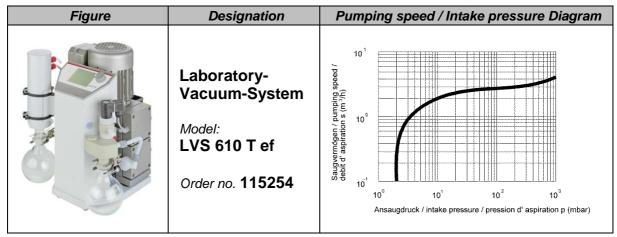
## Data Sheet (EN) Translation of the german original



by Gardner Denver



Technical Data				
Parameter	Data	Unit		
Pumping speed at rated speed 1500 min <sup>-1</sup>	4.9	m³/h		
Ultimate pressure at rated speed 1500 min <sup>-1</sup>	<2			
Ultimate pressure with gas ballast at rated speed 1500 min <sup>-1</sup>	9	mbar		
Max. Inlet - / Outlet pressure	1	bar		
Reference surface sound pressure level DIN EN ISO 2151	< 44	dB (A)		
Intake- / Exhaust connection	Hose nozzle DN 8 for hose inside Ø 8 mm	-		
Ambient temperature	+ 10 to + 40	r		
Max. operating gas temperature	+ 60	t		
Voltage, Frequency	230, 50/60	V, Hz		
Motor power	370	W		
Input Frequency changer (Apparent power)	800 / 6	W/A		
Operating mode	S1	-		
Type of protection DIN EN 60529	IP 54	-		
Class of insulation DIN EN 600034-1	F (160°C)	-		
Type Examination Certificate no.	WELCH_ATEX_03-01			
Designation EX	Ex II3G IIC T3 X (internal Atm. only)	-		
Dimensions (W/D/H)	360 / 310 / 445	mm		
Weight	26.8	kg		
Controller / Sensor :		_		
Sensor type	ceramic sensor	-		
Measuring range	1 - 1100	mbar		
Measuring uncertainty	< ± 0.3 % FS			
Sensor interface:	3 conductor interface	-		
- Scan frequency	10	Hz		
- Resolution ADC	12	Bit		
- Power supply	+ 5 stabilized	V		
- Sensor signal	0.5 to 4.5 (option also 420 mA per jumper possible)	•		
Pressure indicator	digital and graphic	-		
Switching accuracy / control accuracy	±1	digit		
Switching outputs:	digital	-		
- Voltage level	0; 24	V		
- Control power, single	2 x 6	W		
- Control power, total	24			
Switching outputs used: Ventilation valve, Water valve	2	-		
Frequency converter output :	analog	-		
- Voltage level	0 to 10	V		
- Resolution DAC	8	Bit		
Communication interface	RS 232	-		
Power consumption - controller in normal operation	Max. 15 (depends upon the control power)	W		
Fuse (internal controller)	5	A		

Power pack : integrated		Connections :		
Operating voltage	90 260 V AC	IN/OUT:	RS 232	SUB-D plug 9-pole
Operating frequency	50 / 60 Hz	OUT:	Control line (frequency converter)	Binder socket
Output voltage	24 V DC	OUT	Water valve	4-pole, 24 V DC
Output current	1.25 A	Connection:	Inert gas (integrated)	Hose nozzle DN 4
Output power	30 W		men gas (integrated)	Hose hozzle Din 4



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	Design	Areas of application
	The Laboratory-Vacuum-System consists of a dry-running, chemically resistant diaphragm pump with frequency converter, the suction-side condensate and the pressure side insulated intensive cooler with round-bottomed flask and safety valve.	The Laboratory-Vacuum-System is especially suitable for applications for distillation and evaporation of solvents. It finds its use in physical and chemical laboratories or industry, specifically for pumping and compressing neutral and aggressive gases and vapors.

	Order no.		
	Vacuum Control Box VCB 521 cv For measuring and regulation a vacuum. With integrated sensor and ventilation-, control- and check valve.	600053	
righter 2010- Constant Reserved	<b>Operating Software "WELCH-Control 521" on CD</b> To connect the Controller VCB 521 cv to the PC.		
	Vacuum hose Rubber, 18 / 8 x 5 mm		
	Vacuum hose PTFE, 8 / 6 x 1 mm	828331	
P	Water valve WV 2 2 way water flow valve for the demand-responsive cooling water supply. Mounting possible in any direction. Input: G 3/4 inch sleeve nut Output: Hose nozzle for hose inside diameters 8 mm	700300-02	
	netvac+Set BC1 – 63(for mounting on sheet metal wall)with integrated FFKM - check valve, dosing valve, hose nozzle and ball valveArea of application:LaboratorySuction connection:for hose DN 8-10Connection thread:1/4 "- outsideMaterial of valve body:Polypropylene (PP)Dimensions (W/D/H):Ø 69 / 161 / 82 mmMounting hole:Ø 25 to Ø 35 mm	700563-01	
	netvac+Set BC2 – 62(for mounting on wood furniture)with integrated FFKM - check valve, dosing valve and hose nozzleArea of application:LaboratorySuction connection: for hose DN 8-10Connection thread:1/4 "- outsideMaterial of valve body:Polypropylene (PP)Dimensions (W/D/H):Ø 69 / 69 / 82 mmMounting hole:Ø 25 to Ø 35 mm	700562	



2/2

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