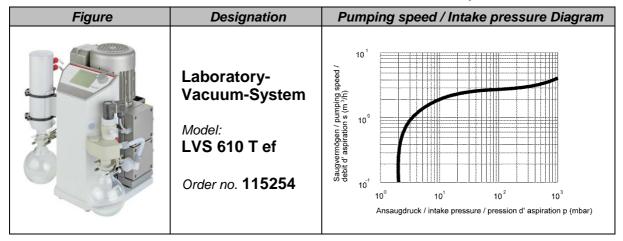
## **Data Sheet (EN)**

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		
Max. operating gas temperature	+ 40	€	
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℃)	-	
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		
Measuring uncertainty	< ± 0.3 % FS	mbar	
Sensor interface:	3 conductor interface	-	
- Scan frequency	10	Hz	
- Resolution ADC	12	Bit	
- Power supply	+ 5 stabilized		
- Sensor signal	0.5 to 4.5 (option also 420 mA per jumper possible)	V	
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		
- Control power, total	24	W	
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	Α	

Power pack: integrated		
Operating voltage 90 260 V AC		
Operating frequency	50 / 60 Hz	
Output voltage	24 V DC	
Output current	1.25 A	
Output power	30 W	

Connections:			
IN/OUT:	RS 232	SUB-D plug 9-pole	
OUT:	Control line (frequency converter)	Binder socket	
OUT	Water valve	4-pole, 24 V DC	
Connection:	Inert gas (integrated)	Hose nozzle DN 4	

## Data Sheet (EN)

## Translation of the german original



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.

	Accessories	Order no.
000	Vacuum Control Box VCB 521 cv For measuring and regulation a vacuum. With integrated sensor and ventilation-, control- and check valve.	600053
May City	Operating Software "WELCH-Control 521" on CD To connect the Controller VCB 521 cv to the PC.	620637
	Vacuum hose Rubber, 18 / 8 x 5 mm	828310-4
	Vacuum hose PTFE, 8 / 6 x 1 mm	828331
10	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 valve Area of application: Laboratory Suction connection: for hose DN 8-10 Connection thread: 1/4 "- outside Material of valve body: Polypropylene (PP) Dimensions (W/D/H): Ø 69 / 161 / 82 mm Mounting 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 nozzle Area of application: Laboratory Suction connection: for hose DN 8-10 Connection thread: 1/4 "- outside Material of valve body: Polypropylene (PP) Dimensions (W/D/H): Ø 69 / 69 / 82 mm Mounting hole: Ø 25 to Ø 35 mm	700562



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