



ELECTRIC VACUUM PUMPS

HELLAs Electric Vacuum Pump ensures consistent and effective brake power. Until recently, the majority of vehicle brake boosters used the vacuum generated from the manifold of the internal combustion engine. However, with today's advanced engine technologies (i.e. downsizing) or under certain operating conditions (i.e. cold start/engine warm-up phase), the vacuum provided by the engine is no longer sufficient. Furthermore, advanced engine technologies, such as electric or hybrid vehicles, are not capable of generating any vacuum pressure. HELLAs electric vacuum pump provides alternative or additional vacuum for these advancements in technology.

ADVANTAGES

- → Reduced energy loss with "switch on-demand"
- → Reduction of emissions and CO₂
- → No mechanical interface required
- → Maintenance free
- → Supports a flexible vehicle platform design

HELLA delivers three different types of electric vacuum pumps (UP28, UP30, UP 32). They can be distinguished by their respective performance and by the size of the vehicle braking system.

UP28 VACUUM PUMP

Technical Data	
Operating temperature range	- 40 °C + 100 °C (< 20 min. up to + 120 °C)
Maximum vacuum level	≥ 86 % (below ambient pressure level)
Pressure build-up time at 100 hPa	pabs = 500 mbar in $t \le 6$ sec pabs = 300 mbar in $t \le 12$ sec
Ambient pressure	12 V
Test volume	3.2 l
Pump operating time	≥ 600 hours
Weight	~1 kg

UP30 VACUUM PUMP

Technical Data	
Operating temperature range	– 40 °C to 120 °C
Voltage range	10 V 16 V
Maximum vacuum level	≥ 86 % (below ambient pressure level)
Pressure build-up time at 100 hPa	pabs = 500 mbar in $t \le 4$ sec pabs = 300 mbar in $t \le 8$ sec
Ambient pressure	12 V
Test volume	41
Pump operating time	≥ 1200 hours
Weight	~ 1.7 kg

UP32 VACUUM PUMP

Technical Data	
Operating temperature range	– 40 °C to 120 °C
Voltage range	10 V 16 V
Maximum vacuum level	≥ 86 % (below ambient pressure level)
Pressure build-up time at 100 hPa	pabs = 500 mbar in t \leq 3.4 sec pabs = 300 mbar in t \leq 6.6 sec
Ambient pressure	12 V
Test volume	5 l
Pump operating time	≥ 1200 hours
Weight	~ 1.7 kg



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