

HL42 series booster

Air / Inert Gas Pressure Booster

1.5 HP 115V AC / 230V AC Electric motor

24/7 operation

40 - 100 psi gas inlet pressure

2,500 psi max gas discharge pressure

10.000 hours of seal life

Air-cooled / Oil free

Touchscreen control panel



Booster Specifications: HL42 series

Gas Connections & dimensions			
	HL42-1500	HL42-2500	
Gas supply connection	1/4	1/4 NPT	
Gas discharge connection	1/4	1/4 NPT	
Gas vent connection ¹	1/8	1/8 NPT	
Stage 1 Bore diameter and stroke length	4" (102 mm)	4" (102 mm) & 4.2" (107 mm)	
Stage 2 Bore diameter and stroke length	2" (51 mm) 8	2" (51 mm) & 4.2" (107 mm)	
Operating speed ²	7.8 cycles per minute (CPM)	6.4 cycles per minute (CPM)	
Gas displacement per cycle	0.038 cubic	0.038 cubic feet (1.08 liters)	
Overall dimensions (W x D x H)	36" x 25" x 44" (91	36" x 25" x 44" (91cm x 63cm x 112cm)	
Overall weight ³	420	420 (190)	
	Hydraulic Specifications		
Recommended fluid	Mobil DTE	Mobil DTE 24 (or equal)	
Oil volume	8.5	8.5 Gallons	
	Electrical Specifications		
Rated voltage	115V ±10%, Single phase, 60 Hz	230V ±10%, Single phase, 60 Hz	
Power consumption	1.5 HP	1.5 HP	
Max current	13.0 Amps	6.5 Amps	
Supply cable	3 wire x 14 AWG	3 wire x 14 AWG	
Plug ⁴	NEMA 5-15	User supplied ⁴	
Pressui	re, Temperature & Noise Specifications		
Gas supply pressure range	40 psig to 100 psi	40 psig to 100 psig (2.8 bar to 6.9 bar)	
Gas discharge pressure range	500 psig to 1500 psig (35.5 barg to 103 barg)	500 psig to 2500 psig (69 barg to 172 barg)	
Ambient temperature range - °F (°C)	38 to 12	38 to 122 (3 to 50)	
Noise Emmission ⁵	75	75 dB(A)	
Duty cycle	100% (Can	100% (Can operate 24/7)	

Note 1: Breather installed at the factory

Note 2: A cycle consists of a 1st stage and 2nd stage stroke

Note 3: The weight listed is the maximum weight of the system after hydraulic oil has been added

Note 4: Due the wide variety of 230V plug styles, the end user will need to supply their own power cable to the unit

Note 5: Measurement distance: 1 meter, Uncertainty: ±3 dB(A)



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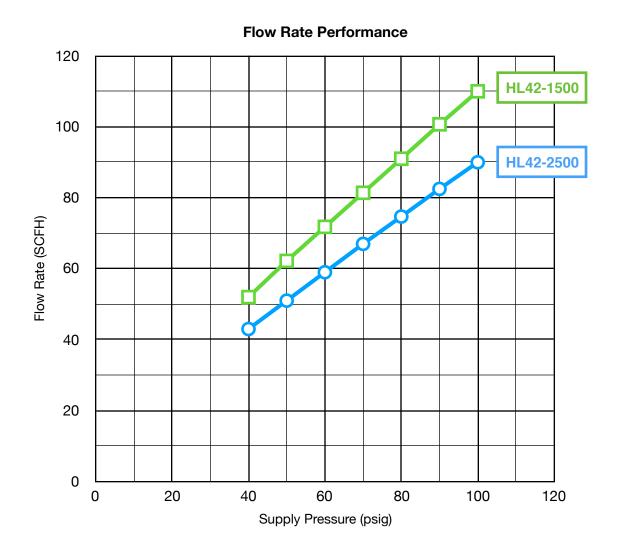


Performance Data: HL42

The HL42 gas pressure boosters provide flow rates between 50 SCFH and 110 SCFH for the "1500" series unit and between 45 SCFH and 90 SCFH for the "2500" series unit depending on the gas supply pressure. Installing a regulator upstream of the booster allows the operator to set the desired flow rate.

Example: A nitrogen generator is capable of delivering 99% nitrogen at 60 SCFH and 80 psig. However with an 80 psig supply the HL42-2500 booster will produce approximately 75 SCFH. 75 SCFH is more than the nitrogen generator is capable of providing so a loss in purity may occur as the nitrogen generator attempts to provide more flow. This can be remedied by regulating the 80 psig nitrogen to about 60 psig. A 60 psig supply will produce a discharge flow rate of 60 SCFH matching the nitrogen generator's output.

The graph below shows the flow rate of the booster verses the supply pressure.

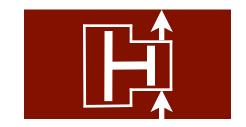




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Touchscreen Control Panel: HL42

The HL42 gas pressure booster uses a touchscreen control panel. The touchscreen allows the operator to turn ON and OFF the system, view & change various operating parameters and review error codes. An example of the Home Screen is shown below along with a list of the viewable/modifiable parameters.

Viewable Parameters		
Output Pressure	The current discharge pressure of the system	
High Pressure Setting	The pressure at which the system will automatically turn OFF (Modifiable by the operator)	
Low Pressure Setting ¹	The pressure at which the system will automatically turn ON (Modifiable by the operator)	
Hours on Seals	The accumulated hours on the seals (Can be reset after rebuild)	
Total Hours Run	The total hours the unit has operated over its life time	
Estimated Cylinder Fill Time ²	Predicts the amount of time remaining to pressurize the discharge line	
Last Run Time	The most recent time it took the booster system to pressurize the discharge line	

Note 1: Low pressure setting is only available in the Continuous Fill operation mode

Note 2: Estimated cylinder fill time is only available in the Single Fill operation mode

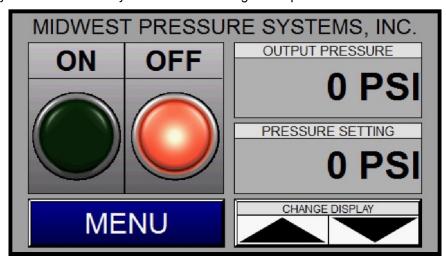
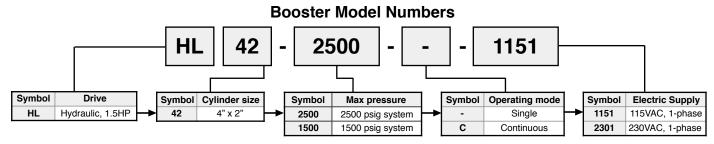


Image 1: Example of the HOME Screen

Part Number: HL42





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