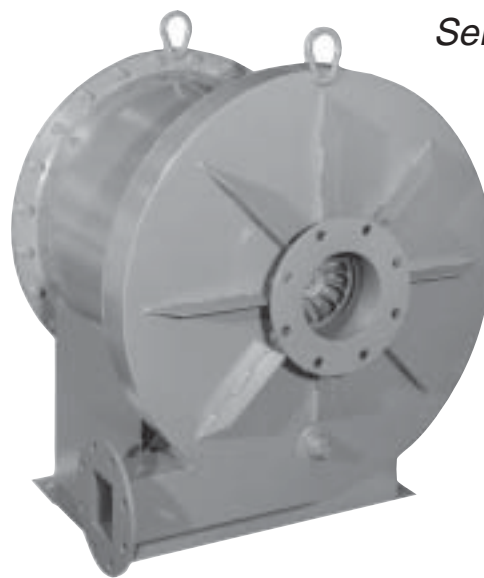




Hermetic Gas Boosters

Series HB

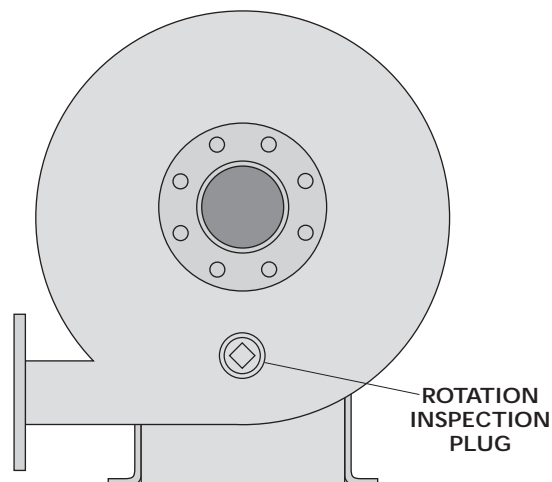
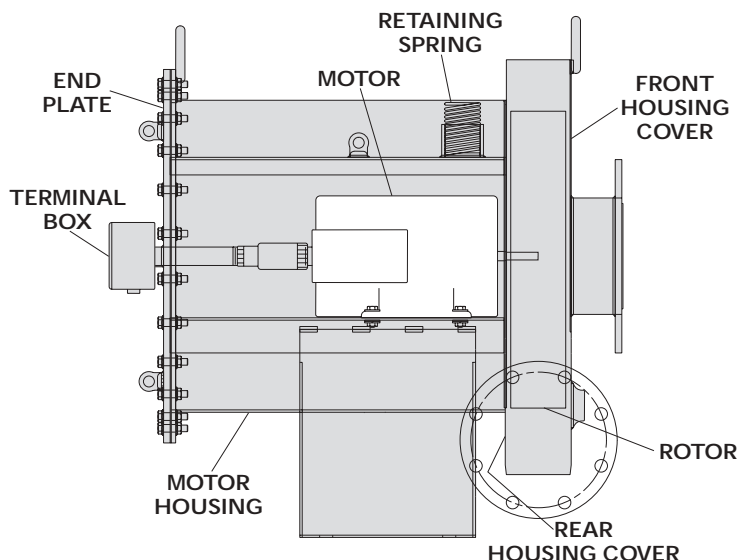


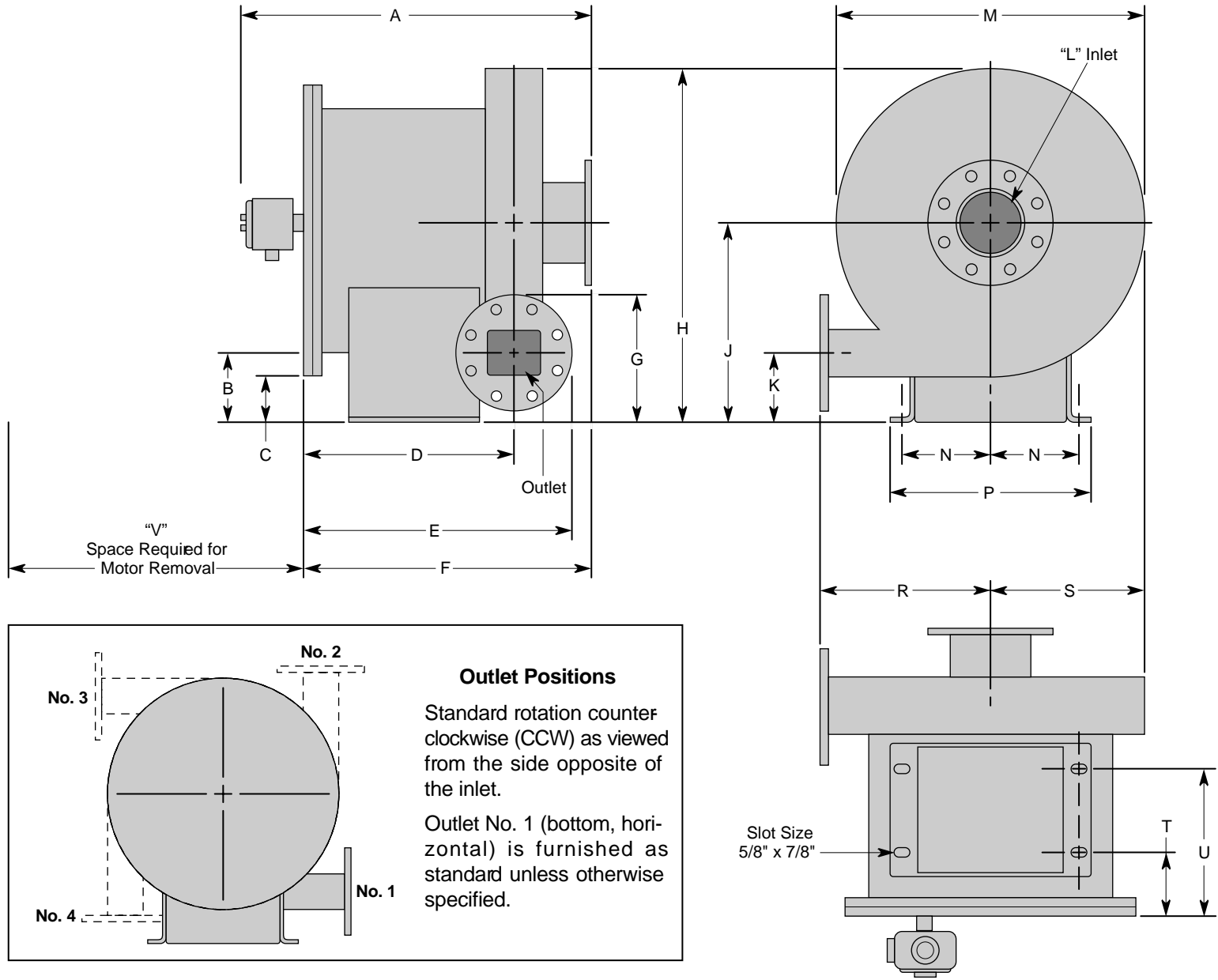
Eclipse Hermetic Gas Boosters are used for pumping any gas or gas/air mixture, which is not corrosive to aluminum or steel, when an increase in pressure is required. They deliver gas at any volume, within the capacity range of the booster, with a relatively constant pressure. The discharge pressure is the total of the booster added pressure plus incoming gas pressure.

The design of Hermetic Boosters permits the motor and rotor to be enclosed in an airtight, steel housing. No shaft seal is required, thus eliminating any possibility of shaft seal leakage, a problem experienced on many gas booster designs. Motor and rotor are easily accessible by unbolting the cover plate and sliding the entire motor and rotor assembly out of the housing.

Sealed electrical connections are made through explosion proof conduit, and an explosion proof junction box is provided. Standard shaft, Class 1, Group D, explosion proof motors are used as standard. These boosters are UL listed when handling natural or manufactured gases.

Hermetic Boosters are available in either standard rotation (CCW as viewed from the side opposite the suction inlet) or counter standard rotation. Four different outlet positions are available on all Hermetic Boosters (see 620 Specifications). Rotor rotation can be checked on initial start-up by simply removing the pipe plug on the front housing cover.





Capacities

Catalog Number	Motor H.P.	Air - 1.0 Sp. Gr.		Nat. Gas - 0.65 Sp. Gr.		Propane/Air - 1.28 Sp. Gr.	
		CFH	Added Pressure, " w.c.	CFH	Added Pressure, " w.c.	CFH	Added Pressure, " w.c.
HB-3412-1/2	1/2	8,600	10.38	9,000	6.40	4,600	13.15
HB-4412-1/2	1/2	8,600	10.38	12,000	6.75	6,700	13.15
HB-4412-1	1	16,000	9.16	16,000	5.95	14,000	13.15
HB-3314-1/2	1/2	3,600	13.84	5,400	9.00	2,700	17.30
HB-4414-1	1	14,000	10.90	14,000	7.00	9,000	17.30
HB-4614-1	1	12,000	13.84	18,000	9.00	9,000	17.30
HB-4614-1-1/2	1-1/2	21,000	13.84	21,000	9.00	15,000	17.30
HB-4615-1	1	15,300	17.30	15,300	11.25	11,000	20.76
HB-6615-1-1/2	1-1/2	22,000	15.40	28,000	10.00	16,000	19.70
HB-6615-2	2	28,000	15.40	35,000	9.70	21,000	19.70
HB-4617-1	1	9,000	20.76	15,000	13.49	6,500	26.00
HB-4617-1-1/2	1-1/2	15,000	20.76	18,000	12.63	11,000	25.95
HB-6617-2	2	19,000	19.90	25,000	12.90	14,000	25.95
HB-6617-3	3	32,000	20.76	35,000	13.49	24,000	25.95
HB-8817-5	5	55,000	20.76	80,000	13.49	40,000	25.95
HB-4619-1-1/2	1-1/2	8,850	27.68	13,000	17.30	6,600	34.60
HB-4619-2	2	12,250	27.68	18,000	17.30	9,000	34.60
HB-6619-3	3	21,500	27.68	27,000	17.30	16,000	34.60
HB-6619-5	5	41,200	27.68	49,000	17.30	30,000	34.60
HB-8819-7-1/2	7-1/2	57,000	27.68	70,000	17.30	42,000	34.60
HB-8819-10	10	70,000	27.68	80,000	17.00	52,000	34.60
HB-4623-3	3	8,000	36.90	11,600	24.20	6,000	47.20
HB-4623-5	5	22,600	41.52	29,500	26.99	16,800	51.90
HB-6623-7-1/2	7-1/2	37,000	41.52	40,000	26.99	27,000	51.90
HB-6623-10	10	42,000	41.52	47,000	25.78	35,000	51.90
HB-8823-15	15	85,000	41.52	87,000	26.99	60,000	51.90
HB-8823-20	20	100,000	38.06	100,000	24.74	85,000	51.90
HB-4628-5	5	6,000	55.36	12,000	34.60	4,500	69.20
HB-4628-7-1/2	7-1/2	17,700	55.36	24,000	34.60	13,000	69.20
HB-4628-10	10	28,000	55.36	28,000	34.60	20,000	69.20
HB-8828-10	10	32,000	55.36	40,000	34.60	24,000	69.20
HB-8828-15	15	53,000	55.36	63,000	34.60	40,000	69.20
HB-8828-20	20	78,000	55.36	90,000	34.60	60,000	69.20

NOTE: Boosters are for use with any gas not corrosive to aluminum or steel. For capacities and pressures of gases with specific gravities other than those listed, consult factory.

Discharge pressure is a combination of inlet pressure plus added pressure.

Example: 6.00" w.c. Inlet gas pressure
 + 8.07" w.c. Added pressure
 14.07" w.c. Discharge

CAUTION: Inlet or test pressure must not exceed 5 PSIG.

MINIMUM FLOW: If the added pressure of the booster is higher than 19" w.c., a water cooled or air-to-air heat exchanger must be mounted as a bypass if the flow will be less than 4000 SCFH. This will prevent overheating at low flow rates.

