

# Air Injection Vacuum Blower SIAV 840

Hibon Ingersoll Rand presents state-of-the-art technology in three-lobe, positive displacement blowers. The SIAV air-injected, high-vacuum blowers offer a wide range of design features and incorporate energy efficiency improvements, complying with the strictest operational requirements of a variety of applications. These high-vacuum blowers are ideally suited for the rigorous demand of the vacuum truck market. Hibon is a worldwide leader in three-lobe positive displacement blower technology with thousands of units installed around the globe.

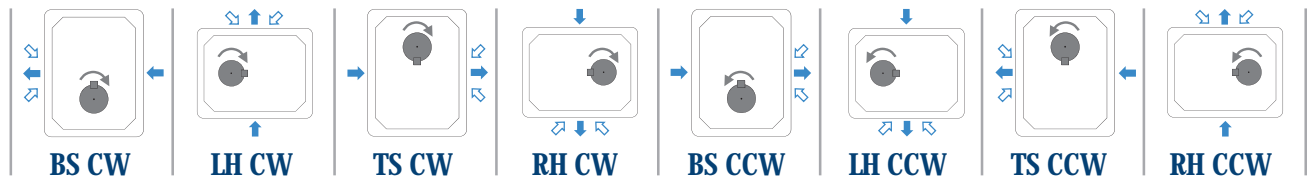
### Characteristics

- Three-lobe impeller construction
- Unique air injection system
- Increased efficiency
- Clearances adjusted automatically during assembly
- Larger oil capacity
- High volume oil thrower
- High performance sealing arrangement using 4 piston rings

### Benefits

- Quieter operation than two-lobe impeller construction
- Allows high vacuum including “dead end” operation without overheating
- No oil or water cooling system (100% oil free air)
- Requires less horsepower for the same performance
- Easier maintenance
- Runs cooler
- Better lubrication of bearings
- Less frequent oil changes

### Configurations



Configuration	With Mounting Feet
BS CW	F1768200056
LH CW	Consult factory
TS CW	F1768200511
RH CW	Consult factory
BS CCW	F1768200055
LH CCW	Consult factory
TS CCW	Consult factory
RH CCW	F1771200500

- ↻ Shaft rotation
- ➡ Air flow
- ↕ Air injection
- RH = Right hand shaft
- LH = Left hand shaft
- BS = Bottom shaft
- TS = Top shaft
- CW = Clockwise rotation
- CCW = Counter clockwise rotation

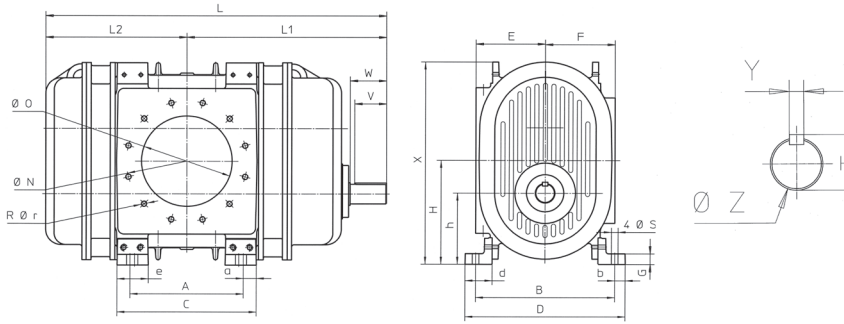
### Performance chart

VOLUME DISPLACEMENT * ( 4000 CFM )																		
Speed (RPM)	6" HG		9" HG		12" HG		15" HG		18" HG		21" HG		24" HG		27" HG		28" HG	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
2600	3577	56	3510	80	3439	104	3377	120	3269	144	3083	168	2632	192	1596	218	BO	225
2340	3219	50	3159	72	3095	93	3039	108	2942	129	2775	151	2369	172	1436	196		
2165	2940	46	2873	66	2802	86	2739	100	2630	120	2443	140	1989	162	947	186		
1850	2464	40	2391	57	2314	74	2246	85	2129	102	1926	119	1435	136	BO	153		
1410	1814	30	1738	43	1658	56	1588	65	1466	78	1257	91	748	103				
800	951	17	884	25	814	32	751	37	643	44	457	52	6	59				

\* Volume displacement at maximum speed. BO = Blanked off

# SIAV 840

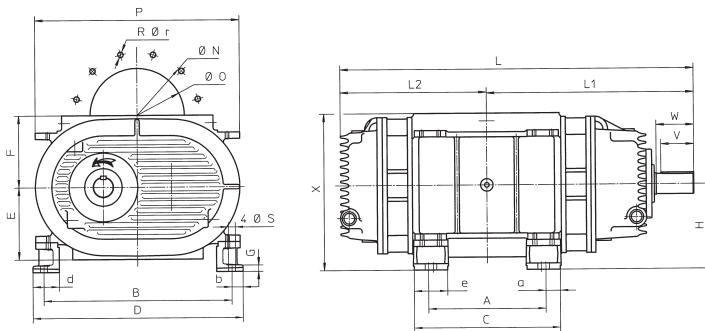
# Dimensions



SIAV 840	
	in.
A	14.76
a	1.81
B	23.62
b	1.38
C	18.39
D	26.38
d	3.31
E	9.06
e	4.21
F	9.06
G	1.38
H	13.52
h	9.25
L	44.37
L1	26.00
L2	18.37
N	15.75
O	11.81
Rør	12 (M20)
S	0.87
T	2.72
V	4.13
W	4.72
X	26.38
Y	0.71
Zm6	2.56
Weight	1592 lbs

SIAH 840	
	in.
A	14.76
a	1.81
B	23.62
b	1.38
C	18.39
D	26.38
d	3.31
E	9.06
e	4.21
F	9.06
G	0.79
H	13.52
h	10.63
L	44.37
L1	26.00
L2	18.37
N	15.75
O	11.81
P	25.67
Rør	12 (M20)
S	0.87
T	2.72
V	4.13
W	4.72
X	19.69
Y	0.71
Zm6	2.56
Weight	1592 lbs

# SIAH 840



## Spare parts and accessories

Kit 1 - Standard Maintenance Kit	Kit 2 - Set of Ring Holders	Kit 3 - Set of Gears	Manifold & discharge/injection manifold gaskets	Hibon lube
<p>Contains all parts required for 40 000 h. maintenance</p>				

For more information about spares and accessories, contact your nearest Service Center or Ingersoll Rand - HIBON company.

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