

hibon®

*Positive Displacement Blowers
& Vacuum Pumps
Twin Lobe Design*



IR Ingersoll Rand®

More Than Air, Peace of Mind

Ingersoll Rand is well into its second century of building our legacy as a **trusted** global leader by delivering the **innovative** solutions and **expertise** our customers require. We continue to advance compressed air technology and service to maximize reliability, efficiency and productivity for our customers.

We not only provide world-class products and support, but the peace of mind that comes from our commitment to stand behind our customers in all aspects of what we do. That peace of mind allows our customers to focus on their primary objective: moving their businesses forward.

With experience dating back more than a century, HIBON with ISO-9001 certification, offers a world-class range of air blowers, compressors and vacuum pumps. On October 2, 2006, HIBON became part of Ingersoll Rand augmenting its leadership as a global provider of innovative and comprehensive compressed air solutions and services to diverse markets, as well as widening global distribution network. With a wide range of products, thousands of global installation references, HIBON products are ideally suited for various applications and form part of Ingersoll Rand Low Pressure Air Solutions.

S2H Series Blowers : Twin Lobe Design

Range

Range of positive displacement blowers featuring two lobes for use in compression and vacuum for air or neutral gases. Pressure upto 1 bar (14.5 psig) – Vacuum upto 540 mbar (16 “Hg)

S2H Series flow range by model

S2H 22 to S2H 52 (BSP), S2H 22N to S2H 53N (NPT) From 15 m³/h (9 cfm) to 1590 m³/h (935 cfm)

Experience and know how

With almost a century of experience in the manufacture and the sale of rotary positive displacement blowers, Ingersoll Rand has a large range of two-lobe blowers specially designed to the meet the demanding requirements of standard air or neutral gas applications: efficiency, competitiveness, and robustness. This know-how ensures that the entire range of standard blowers benefits from the largest technological developments, allowing the user to obtain an optimum solutions best suited to his needs.

Benefits

- High mechanical and volumetric efficiency
 - Reliability in operation
 - Air cooled, oil free operation
 - Fast and easy maintenance
- Dynamically balanced impellers
 - Detachable feet allow for vertical or horizontal flow
 - Clockwise or counter-clockwise rotation
 - Direct drive or V-belt drive available throughout the operating range

Application

Thousands of international installations of Ingersoll Rand blowers are proof of their reliability and strength, providing universal solutions in wide-ranging applications such as:



Waster Water Treatment



Distillation



Coal



Pneumatic Conveying
– Petrochemical



Pneumatic Conveying
– Mining



Cement



Power



Chemical



Pharma

Performance S2H22 to S2H53

Model	Maximum Inlet Flow		Maximum Differential Pressure		Maximum Vaccum	
	m³/h	cfm	mbar	psig	mbar	“Hg
S2H22	120	70	830	12	500	15
S2H23	255	150	485	7	470	14
S2H31	235	140	1000	15	540	16
S2H32	330	200	825	12	500	15
S2H33	615	360	480	7	480	14
S2H41	330	200	1000	15	540	16
S2H42	600	350	700	10	540	16
S2H43	930	545	480	7	470	14
S2H51	500	280	1000	15	540	16
S2H52	910	530	900	13	540	16
S2H53	1590	935	500	7	470	14



Features

Casing : Close grained cast iron. Ribbed for strength.

Head-plates : Close grained cast iron. Machined for accurate bearing location and impeller alignment.

Rotors : Cast iron with pressed-in steel shafts.

Gears : Ground and hardened alloy steel spur gears.

Bearings : Anti-friction bearings, retained at gear end to allow accurate setting of gear end clearance between head-plate and impellers.

Lubrication : Oil splash lubricated at gear end. Grease lubricated at drive end.

Seals : Single lip seals for air blowers and exhausters. For gas boosting, special seals are used.

Motor start : Direct on-line preferred. Star Delta starting possible providing that the machine is unloaded on start-up.

Materials

Part	EUROPEAN	ASTM
Blower Body	EN GJL 200	A 48 gr 30 B
End covers	EN GJL 200	A 48 gr 30 B
Rotors	EN GJL 200	A 48 gr 30 B
Shafts	EN 10083-1-91/50CR V4	
Gears	CARBON STEEL 817 M 40	CARBON STEEL 817 M 40



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results.



Ingersoll Rand (India) Ltd.

21-30, GIDC Estate, Naroda, Ahmedabad - 382 330, India.

Phone : (079) 4070 6200

E-mail : aircsolutionsindia@irco.com

www.ingersollrandproducts.com

www.ingersollrand.co.in

Customer Support Center 1-800-102-7926

customersupportindia@irco.com

Regional Offices' Phone Numbers

WEST Mumbai : (022) 61540500, Nagpur : (0712) 6641464/65, Indore : (0731) 2435622,
Surat : (0261) 2350064/3917335, Pune : (020) 41005400
EAST Kolkata : (033) 44186200, Jamshedpur : (0657) 2233128
SOUTH Bengaluru : (080) 22166001, Chennai : (044) 40147000, Coimbatore : (0422) 4022888,
Hyderabad : (040) 23425800/01
NORTH Chandigarh : (0172) 4677374, Gurgaon : (0124) 6729000

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www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مغموس کرج)

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