



Special for 50Hz direct driven type.

- **High Efficiency:** The male rotor has 5 teeth, the female rotor has 6. This tooth combination can improve energy efficiency, and decrease excessive fluid backflow, due to the similar circumference speed ratio of the two rotors.
- **Tightness:** When the internal leakage losses from backflow of the compressed air through the gap between the rotors and the housing is kept as low as possible.
- **Low vibration, long service life:** We use high-precision-manufactured rotors, which guarantee HB Airend long bearing service life and low vibrations.

Specification

Rated power	Model	Speed	Air flow	Shaft power	Specific Power Consumption	S.F
KW		rpm	m ³ /min	kw	kw/m ³ /min	
7.5	AB-077 *	3420	1.0	7.3	7.4	0.97
11	AB-077 *	5200	1.5	11.0	7.2	1.00
15	AB-130 *	3420	2.0	14.6	7.2	0.97
18.5	AB-210	2950	2.9	19.4	6.7	1.05
22	AB-240	2950	3.5	22.7	6.4	1.03
30	AB-350RS	2950	4.7	33.1	7.1	1.10
37	AB-420	2950	6.2	38.2	6.1	1.03
45	AB-480R	2950	7.1	47.5	6.7	1.05
55	AB-600R	2950	9.1	57.6	6.3	1.05
75	AB-780R	2950	11.9	73.3	6.1	0.98
	AB-830	2950	12.9	80.6	6.2	1.07
90	AB-1030R	2950	14.5	97.0	6.4	1.08
110	AB-1200R	2950	19.4	115.5	5.9	1.05
132	AB-1320	2950	21.4	139.5	6.5	1.06
160	AB-1560	2950	23.9	151.6	6.3	0.95
	AB-1560R	2950	24.0	151.6	6.3	0.95
185	AB-1900R	2950	29.8	186.6	6.2	1.01
250	AB-2600	2950	40.7	260.6	6.4	1.04
250	AA-5600	1450	42.1	267.0	6.3	1.07
315	AB-3300	2950	50.0	323.4	6.4	1.03

* Belt driven type

1. Based on pressure 0.8 Mpa

2. Applicable pressure ≤ 1.3 Mpa

3. Air flow rate related to suction condition according to ISO 1217

4. Hanbell reserves the right to modify all the design and specifications. Actual specification may differ from that shown in catalogue due to time lag.



Special for 60Hz direct driven type.

- **High Efficiency:** The male rotor has 5 teeth, the female rotor has 6. This tooth combination can improve energy efficiency, and decrease excessive fluid backflow, due to the similar circumference speed ratio of the two rotors.
- **Tightness:** When the internal leakage losses from backflow of the compressed air through the gap between the rotors and the housing is kept as low as possible.
- **Low vibration, long service life:** We use high-precision-manufactured rotors, which guarantee HB Airend long bearing service life and low vibrations.

Specification

Rated power	Model	Speed	Air flow	Shaft power	Specific Power Consumption	S.F
KW		rpm	m ³ /min	kw	kw/m ³ /min	
7.5	AB-077 *	3420	1.0	7.3	7.4	0.97
11	AB-077 *	5200	1.5	11.0	7.2	1.00
15	AB-130 *	3420	2.0	14.6	7.2	0.97
18.5	AB-130 *	4200	2.7	18.4	6.7	0.99
22	AB-210	3550	3.5	23.7	6.7	1.08
30	AB-240	3900	4.7	30.0	6.3	1.00
37	AB-350RS	3550	5.8	37.5	6.5	1.01
45	AB-420	3550	7.5	46.5	6.2	1.03
55	AB-480R	3550	8.7	54.8	6.3	1.00
75	AB-600R	3550	11.1	69.3	6.2	0.92
90	AB-780R	3550	14.3	89.7	6.2	1.00
90	AB-830	3550	15.5	99.9	6.4	1.11
110	AB-1030R	3550	18.1	118.5	6.5	1.08
132	AB-1200R	3550	24.2	141.2	5.8	1.07
160	AB-1320	3550	26.4	174.1	6.5	1.09
185	AB-1560	3550	29.0	187.7	6.4	1.01
185	AB-1560R	3550	29.0	187.7	6.4	1.01
250	AB-2600, I=0.83	3550	40.7	260.2	6.3	1.04
315	AB-2600	3550	48.4	329.0	6.7	1.04
315	AA-5600	1750	50.6	320.1	6.3	1.02
400	AB-3300	3550	59.2	414.3	7.0	1.04

* Belt driven type

1. Based on pressure 0.8MPa

2. Applicable pressure ≤ 1.3 Mpa

3. Air flow rate related to suction condition according to ISO 1217

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- **Higher** efficiency more than imagine.
- **Special** for 50Hz direct driven type.
- **Heavy-duty** bearing design.Over 50000 hours life time.
- **The** ultimate industrial appearance design.
- **Low** tip speed,higher volumetric efficiency.

Specification

Rated power	Model	Speed	Air flow	Shaft power	Specific Power Consumption	S.F
KW		rpm	m ³ /min	kw	kw/m ³ /min	
11	AB ⁺ -077 *	3500	1.0	7.5	7.5	1.00
15	AB ⁺ -130 *	3540	2.2	15.5	7.0	1.03
22	AB ⁺ -240	2950	3.5	22.0	6.3	1.00
37	AB ⁺ -420	2950	6.3	38.0	6.0	1.03
45	AB ⁺ -480R	2950	7.2	45.8	6.4	1.02
55	AB ⁺ -600R	2950	9.4	55.6	5.9	1.01
75	AB ⁺ -780R	2950	12.2	73.1	6.0	0.97

* Belt driven type

1. Based on pressure 0.8 Mpa

2. Applicable prssure ≤ 1.3 Mpa

3. Air flow rate related to suction condition according to ISO 1217

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- **Specially** designed for glass,weaving and brewery industry using 3~5bar compressed air, reduce the exhaust pressure resistance and increase efficiency.
- **Equipped** with 15kw ~ 250kw low pressure customer's selection. Lower RPM,big air end and big discharge air volume,ensuring high performance of compressor.

Specification

Item	Model	Pressure	Air flow	Shaft power	Specific Power Consumption
		Mpa	m ³ /min	kw	kw/m ³ /min
AB-240L		0.3	3.7	13.5	3.7
		0.4	3.7	15.4	4.2
		0.5	3.6	17.3	4.8
AB-350RL		0.3	5.5	20.5	3.7
		0.4	5.4	23.9	4.5
		0.5	5.4	28.1	5.2
AB-420L		0.3	6.3	24.1	3.8
		0.4	6.3	27.5	4.4
		0.5	6.3	30.4	4.9
AB-480RL		0.3	7.2	27.2	3.8
		0.4	7.1	31.1	4.4
		0.5	7.1	34.4	4.9
AB-600RL		0.3	9.3	37.7	4.1
		0.4	9.1	39.7	4.4
		0.5	9.3	46.9	5.1
AB-780RL		0.3	12.1	44.7	3.7
		0.4	11.9	50.6	4.3
		0.5	12.1	58.0	4.8
AB-1030RL		0.3	15.1	52.4	3.5
		0.4	14.8	61.8	4.2
		0.5	14.6	71.8	4.9

Item	Model	Pressure	Air flow	Shaft power	Specific Power Consumption
		Mpa	m ³ /min	kw	kw/m ³ /min
AB-1200RL		0.3	19.3	69.6	3.6
		0.4	19.3	81.9	4.2
		0.5	19.2	92.2	4.8
AB-1320L		0.3	22.3	89.1	4.0
		0.4	22.0	97.3	4.4
		0.5	21.9	111.4	5.1
AB-1560L		0.3	24.6	91.0	3.7
		0.4	24.5	106.1	4.3
		0.5	24.4	120.4	4.9
AB-1900RL		0.3	30.8	112.8	3.7
		0.4	30.7	130.7	4.3
		0.5	30.6	146.9	4.8
AB-2600L		0.3	40.8	167.3	4.1
		0.4	40.5	187.9	4.6
		0.5	40.2	208.4	5.2
AB-3300L		0.3	51.2	202.0	4.0
		0.4	50.9	226.0	4.4
		0.5	50.6	248.6	4.9

1. Based on 2950 RPM

2. Applicable Prssure 0.3~0.5 Mpa

3. Air flow rate related to suction condition according to ISO 1217

4. Hanbell reserves the right to modify all the design and specifications. Actual specification may differe from that shown in catalogue due to time lag.

Technical Data

SIZE	AD-077	AD-210
Pitch circle diameter of the male rotor	50	74.5
Lobe combination	5/6	5/6
L/D	1.6	1.6
Air capacity (ISO 1217 ANNEX) (m ³ /min)	0.85-2.2	1.98-4.2
Max. Working Pressure (bar)	13	13
Min. Working Pressure (bar)	5	4
Max. input power (KW)(in.8bar)	15	30
Recommended. input power (KW)	11	18.5
Max. male rotor speed (rpm)	7200	4200
Weight (kg)	93	155

**FEATURE****• Efficiency**

The complete machine includes oil gas barrel, filter and the minimum pressure maintaining valve.

HB complete machine has small vibration, low noise and long service life due to our precise tooth design.

HB screw compressor possesses good tightness under the guarantee of high-accuracy manufacture and long-time testing.

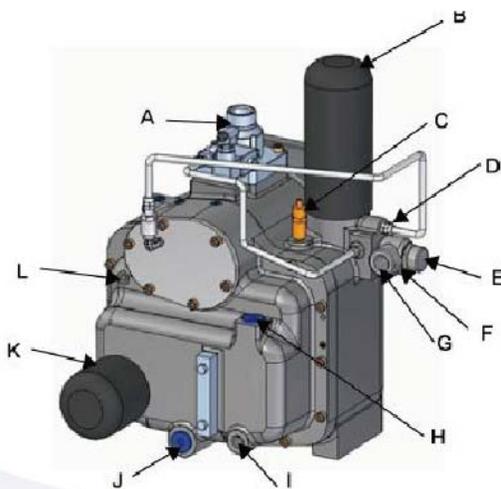
• Maintenance:

HB Screw compressors have been designed with the aim of enabling maintenance work with minimum effort. All the components are easy for the user to access and maintain. And we provide maintenance brochure and maintenance tools to guarantee the accurate operation of the compressor.

Specification

Model	Pressure	Speed	Shaft power	Air flow	Specific Power Consumption
	Mpa	Rpm	kW	m ³ /min	kw/m ³ /min
AD-077	0.8	3405	7.5	1.0	7.5
	0.8	5138	11	1.6	6.9
AD-210	0.8	2304	15	2.4	6.3
	0.8	2968	18.5	3.0	6.2
	0.8	3531	22	3.5	6.3

Accessories Table



A	Intake control valve	H	Oil plug
B	Oil air separator	I	Oil to cooler
C	Safety valve	J	Oil drain
D	Oil scavenge	K	Oil filter cartridge
E	Pressure maintaining valve	L	Temperature probe connection
F	Minimum pressure valve	M	Oil from cooler
G	Air discharge	N	Oil-sump



- **High Efficiency:IE4 class**
- **Slight Start Current,but High in Start Torque**
- **Better Performance**
- **Smaller,lighter**

Specification

Power kW	Motor Parameters			Air-End Parameter	S.F
	Model Air End	IP	Speed RPM	Air flow m ³ /min	
7.5	AM-077	23	3600	1.1	1.15
11	AM-077	23	5200	1.5	1.15
15	AM-130	23	3500	2.3	1.2
22	AM-240	23	3000	3.5	1.2
30	AM-240	23	3950	4.7	1.2
37	AM-420	23	3000	6.3	1.2
45	AM-420	23	3600	7.6	1.2
55	AM-480R	23	3600	8.8	1.2
55	AM-600R	23	3000	9.4	1.2
75	AM-600R	23	3600	11.2	1.2
75	AM-780R	23	3000	12.0	1.2
90	AM-1030R	23	3000	16.1	1.2
110	AM-1200R	23	3000	18.7	1.2
132	AM-1320	23	3000	21.9	1.2

1. Based on pressure 0.8 Mpa

2. Applicable Prssure≤1.3 Mpa

3. Air flow rate related to suction condition according to ISO 1217

4. Hanbell reserves the right to modify all the design and specifications. Actual specification may differe from that shown in catalogue due to time lag.



- **Lower** leakage and lower power consumption than one-stage compressor
- **Advantage** of bearing load, improvement of stability in discharge side clearance.
- **Enhance** cooling strengthen, approaching isothermal compression and reducing power consumption.
- **More** reasonable pressure ratio, higher application pressure
- **Power** saving, highest level energy efficiency, providing positive returns to customers.
- **Lower** occupancy motor S.F. design to provide motor security and longer life-time.
- **Unique** structure design, Using different air end for different efficiency, Enhancing highest efficiency in each stage compressing.

50HZ Normal Pressure

Rated power (kw)	Model	Air flow (m ³ /min)	Shaft power (kW)
55	AB-780A11	10.1	59.6
75	AB-780A22	13.0	76.1
90	AB-1030RA11	16.8	97.1
	AB-1200RA11	19.1	108.0
110	AB-1560A11	20.2	115.2
132	AB-1900RA11	25.6	145.6
160	AB-2600A44	30.0	171.0
200	AB-2600A33	37.6	210.9
220	AB-3300A11	40.0	220.0
250	AB-5600A11	50.0	270.0
315	AB-5600A22	60.9	330.1

1. Based on pressure 0.8 Mpa and 1490 RPM.

Air flow rate related to suction condition according to ISO 1217

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Medium Pressure

Pressure MPa	Model	Air flow (m ³ /min)	Rated power (kw)	Motor speed RPM
2	AA-1560A22	20.0	185	1800
2.5	AA-780A11	12.8	132	1490
2.5	AA-1560A11	23.0	160	1800
3	AA-2600A11	35.0	355	1800
4	AA-780B11	12.5	160	1490

1. Air flow rate related to suction condition according to ISO 1217

2. Hanbell reserves the right to modify all the design and specifications. Actual specification may differ from that shown in catalogue due to time lag.



- **Higher** concentricity, lower noise, less vibration, quality guarantee of both air end and motor
- **Reducing** customer machine assembly procedure and difficulty and labor cost, increasing producing efficiency.
- **End-motor** integrated can reduce delivery time difference derived from different parts and suppliers.
- **Can be** applied 2nd/4th class motor and 50/60Hz various models, Satisfying customer's different demand.
- **Adapted** with High efficiency motor.

Specification

Power	Motor Parameters				Air-End Parameter
	Model	Pole	Speed	Efficiency	Air flow
kW	Air End		Rpm		m ³ /min
7.5	AC-077M	2	2950	88.10%	1.0
11	AC-110M			89.40%	1.5
15	AC-130M			90.30%	2.2
22	AC-240M			92.70%	3.5
37	AC-420M			94.20%	6.0
55	AB-600RM			95.00%	9.0
75	AB-830M	4	1480	95.20%	12.7
55	AB-1200RM			95.00%	9.5
75	AB-1560M			95.40%	12.2

1.Special design for 50 Hz

2.Applicable Prssure 0.8 Mpa

3.Air flow rate related to suction condition according to ISO 1217

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- **Reducing** customer machine assembly procedure and difficulty and labor cost, increasing producing efficiency.
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- **Can be** applied 2nd/4th class motor and 50/60Hz various models, Satisfying customer's different demand.
- **Adapted** with High efficiency motor.

Specification

Power	Motor Parameters				Air-End Parameter
	Model	Pole	Speed	Efficiency	Air flow
kW	Air End		Rpm		m ³ /min
7.5	AB-077M	2	3550	90.10%	1.0
11	AB-110M			89.40%	1.5
15	AB-130M			92.50%	2.3
22	AB-210M			92.70%	3.5
37	AB-350RSM			94.20%	5.7
55	AB-480RM			95.00%	8.5
75	AB-650RM	4	1775	95.20%	12.2
37	AB-650RM			94.30%	5.8
55	AB-1030RM			95.00%	8.3
75	AB-1320M			95.40%	12.0

1. Special design for 60 Hz

2. Applicable Prssure 0.8 Mpa

3. Air flow rate related to suction condition according to ISO 1217

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