

# High Pressure Air Compressors

*Specially Designed For PET  
Blow Moulding Machine*



ISO9001-2000



**PET ALL**

## Two stage high pressure air compressor specially designed for PET blow moulding machine



- The compressors in this series are widely used in PET bottle blowing.
- The compressor delivers outstanding quality under all weather conditions.
- An automatic unload system ensures that the system starts safely without residual pressure. This feature protects both frame and motor and so extends the working life of all components.
- This equipment does not require a foundation saving plant installation costs.



**WH-1.2/30-SB**

### Specification for two stage high pressure air compressor

Model	Capacity m <sup>3</sup> /min	Working pressure Mpa	Motor KW	Speed r.p.m	Dimension m m	Weight kg
VH-0.7/30-SB	0.7	3.0	7.5	680	1240 × 630 × 790	310
WH-1.0/30-SB	1.0	3.0	11	600	1470 × 780 × 885	430
WH-1.2/30-SB	1.2	3.0	15	760	1470 × 780 × 885	450
WH-1.5/30-SB	1.5	3.0	18.5	790	1530 × 765 × 1105	520
VH-0.65/35	0.65	3.5	9	800	1600 × 630 × 1140	420
VH-0.7/30	0.7	3.0	7.5	680	1600 × 630 × 1140	410
WH-1.0/30	1.0	3.0	11	600	2005 × 795 × 1260	530
WH-1.1/35	1.1	3.5	11	605	2005 × 795 × 1260	550
WH-1.2/30	1.2	3.0	15	760	2005 × 795 × 1260	550
WH-1.3/35	1.3	3.5	18.5	680	1140 × 735 × 1450	520
WH-1.5/30	1.5	3.0	18.5	790	1140 × 735 × 1450	520
WH-2.0/30	2.0	3.0	22	670	1150 × 860 × 1600	610
WH-2.35/30	2.35	3.0	25	760	1150 × 860 × 1600	620
WH-2.0/35	2.0	3.5	22	670	1150 × 860 × 1600	645
WH-2.2/35	2.2	3.5	25	735	1150 × 860 × 1600	600
2-WH-2.0/30	2.0	3.0	2 × 11	600	2050 × 1570 × 980	1050
2-WH-2.2/35	2.2	3.5	2 × 15	605	1880 × 1180 × 1440	1080
2-WH-2.4/30	2.4	3.0	2 × 15	760	2050 × 1570 × 980	1080
2-WH-2.6/35	2.6	3.5	2 × 18.5	700	1880 × 1180 × 1440	1150
2-WH-3.0/30	3.0	3.0	2 × 18.5	790	1880 × 1180 × 1440	1150
3-WH-3.6/30	3.6	3.0	3 × 15	700	2350 × 1570 × 1880	1580
4-WH-5.0/35	5.0	3.5	4 × 18.5	680	2520 × 1920 × 1540	2400
4-WH-6.0/30	6.0	3.0	4 × 18.5	790	2520 × 1920 × 1540	2400

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## Two stage non lube high pressure air compressor specially designed for PET blow moulding machines

- Lubricating oil splash system in crank case is prevented from reaching the blow air components
- Blow air components feature thermally stable, anti-friction parts guaranteeing long service life
- With special design the air pressure will stop the lubrication oil getting into air compressing body, so the output high pressure air is clean without any oil.
- An automatic unload system ensures that the system starts safely without residual pressure.
- This feature protects both frame and motor and so extends the working life of all components.
- Heavy-duty design for 24/7 operation



**2-WWH-2.4/40**



**WWH-1.2/40**

### Specification for two stage non lube high pressure air compressor

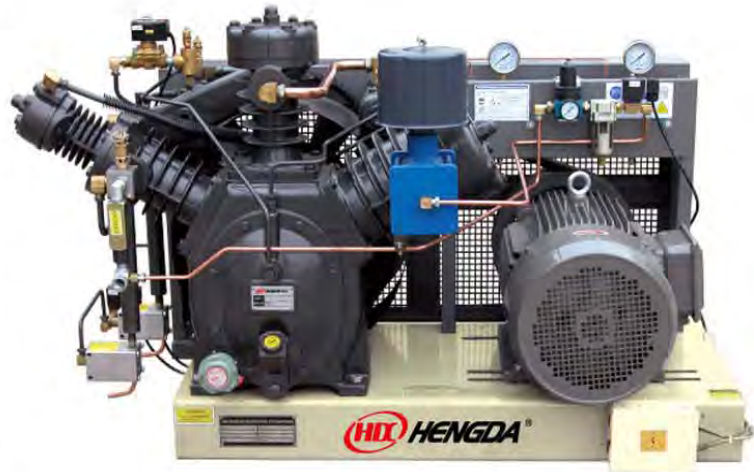
Model	Capacity		Working pressure		Motor KW	Speed r.p.m	Dimension m m	Weight kg
	m <sup>3</sup> /min	cfm	Mpa	psi				
WWH-0.6/30	0.6	21	3.0	430	7.5	790	1240 × 720 × 790	335
WWH-1.0/30	1.0	35	3.0	430	11	620	1600 × 830 × 1090	522
WWH-1.2/30	1.2	42	3.0	430	15	760	1600 × 830 × 1090	540
2-WWH-2.0/30	2.0	70	3.0	430	2 × 11	620	2000 × 1600 × 1270	1104
2-WWH-2.4/30	2.4	84	3.0	430	2 × 15	760	2000 × 1600 × 1270	1140
WWH-0.6/40	0.6	21	4.0	600	7.5	790	1240 × 720 × 790	335
WWH-1.0/40	1.0	35	4.0	600	11	620	1600 × 830 × 1090	522
WWH-1.2/40	1.2	42	4.0	600	15	760	1600 × 830 × 1090	540
2-WWH-2.0/40	2.0	70	4.0	600	2 × 11	620	2000 × 1600 × 1270	1104
2-WWH-2.4/40	2.4	84	4.0	600	2 × 15	760	2000 × 1600 × 1270	1140

**High Pressure Air Compressors Specially Designed For PET Blow Moulding Machine**

## Three stage high pressure air compressor specially designed for PET blow moulding machines

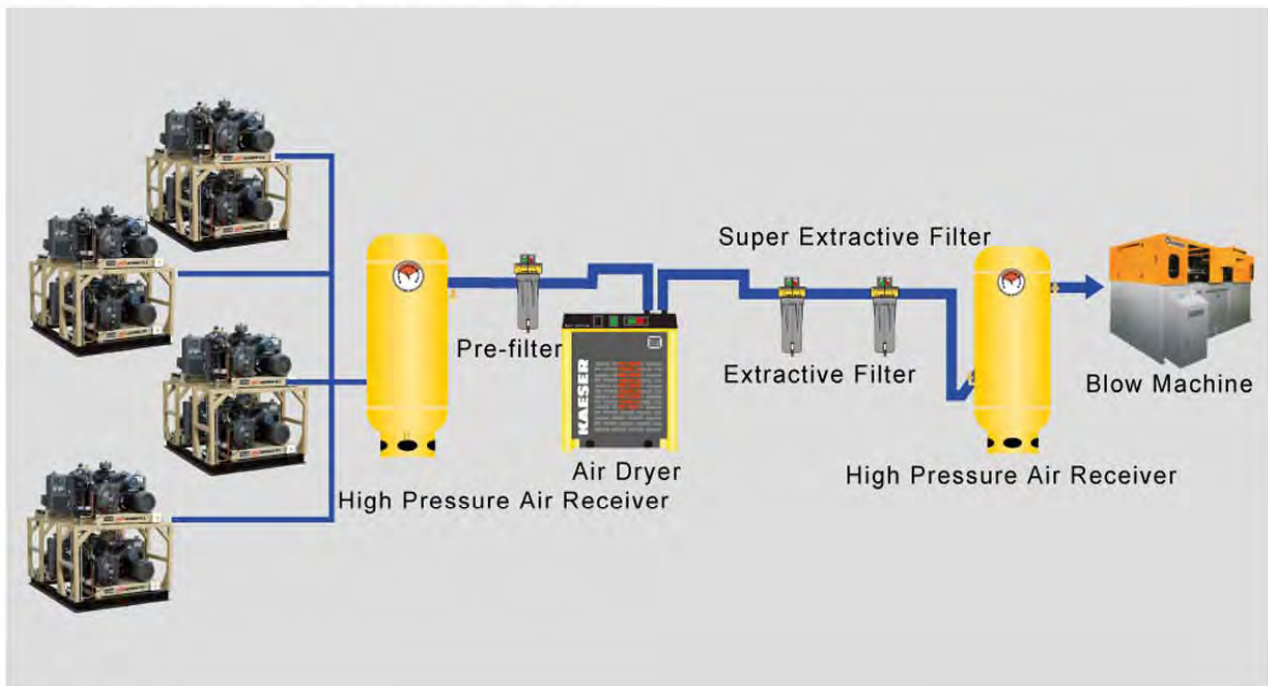
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- The compressor can remove waste and dirt automatically by after cooling system. High-quality air output due to economical dirt removal system in 3 stages.
- The compressor is equipped with a special, highly effective air cooling chiller of advanced design.
- Market leader "Herbiger" main air valve with large capacity. Its high efficiency characteristic ensures the stable running of the compressor.



WH-1.0/40-SB

### Whole Air System Production Line





PROGRAMMABLE LOGIC CONTROLLOR

## PLC

- Star Delta Start
- Automatic Drain (timing/machine stop)
- Automatically adjusts quantity of working units according to the actual air demand
- Target pressure, pressure difference, interval of units start-up time, unit work cycle, alarm pressure unit working sequence etc. Parameters can be reset according to the actual situation
- Liquid crystal display
- Displays current pressure, unit work status and unit error status
- Units start/stop in sequence. unit work on cycling base
- Manual or automatic control, independent of each other

### Specification for three stage high pressure air compressor

Model	Capacity m <sup>3</sup> /min	Working pressure Mpa	Motor KW	Speed r.p.m	Dimension m m	Weight kg
WH-0.6/60	0.6	6.0	11	555	1420 × 830 × 840	320
VH-0.65/35	0.65	3.5	7.5	800	1250 × 760 × 800	475
WH-0.9/70	0.9	7.0	15	735	1420 × 830 × 840	467
WH-0.93/105	0.93	10.5	15	900	1100 × 815 × 1405	470
WH-0.94/98	0.94	9.8	15	900	1100 × 810 × 1405	470
WH-1.0/55	1.0	5.5	15	790	1420 × 830 × 840	470
WH-1.0/80	1.0	8.0	15	800	1420 × 830 × 840	467
WH-1.1/35	1.1	3.5	11	900	1420 × 830 × 840	475
WH-1.0/40	1.0	4.0	11	790	1420 × 830 × 840	475
WH-1.7/40	1.7	4.0	22	735	1140 × 710 × 1500	550
WH-1.9/40	1.9	4.0	25	860	1140 × 735 × 1650	550
2-WH-1.8/70	1.8	7.0	2 × 15	735	1880 × 1430 × 1000	1480
2-WH-2.0/55	2.0	5.5	2 × 15	790	1880 × 1430 × 1000	1480
2-WH-2.0/80	2.0	8.0	2 × 15	800	1950 × 180 × 1440	1480
2-WH-2.2/35	2.2	3.5	2 × 11	800	1880 × 1430 × 1000	1500
4-WH-4.0/40	4.0	4.0	4 × 11	790	2020 × 1570 × 2000	2400
6-WH-6.0/40	6.0	4.0	6 × 11	790	3495 × 1565 × 2000	3600
49SH-2.6/40	2.6	4.0	25	625	2020 × 135 × 1100	900
49SH-3.0/40	3.0	4.0	30	695	2020 × 135 × 1100	920
2-49SH-6.0/40	6.0	4.0	2 × 30	695	2160 × 1270 × 2400	2100

**High Pressure Air Compressors Specially Designed For PET Blow Moulding Machine**

# Booster compressor specially designed for PET blow moulding machines

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## Booster Applications

Compressed air systems in industrial and commercial facilities are generally designed for pressures of 90 to 100 psig. However, some special applications such as moulding, printing, and leak testing require higher pressures.

HENGDA Booster Compressors increase air system pressure to a working pressure of 580 psig and to a maximum of 650 psig. These reliable units are compact, quiet, and offer an economical alternative to designing the main compressed air system for high pressure. Now you simply install a HENGDA Booster Compressor to increase the pressure of the existing compressed air where it is needed.

## Booster Operation

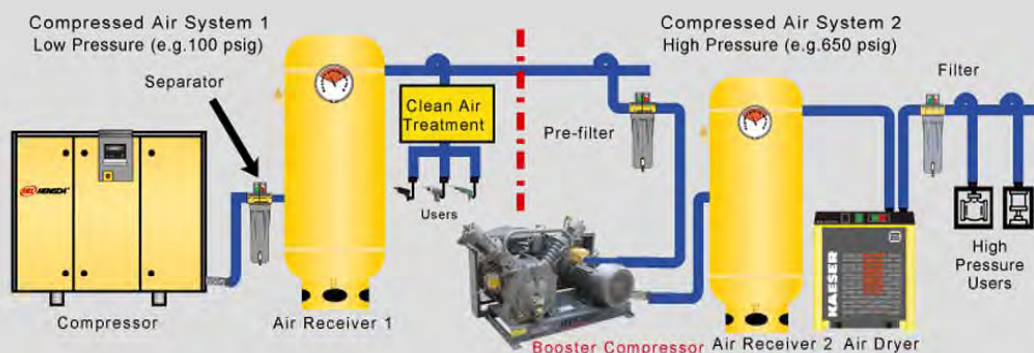
Compressed air from the main air system is piped to the booster. Using precompressed air is more economical than starting with ambient air. With high volumetric efficiency, the booster compresses to the desired pressure. This single-stage system is ideal and economical for many applications when only a moderate amount of high pressure plant air is required.

HENGDA has the technology and the ability to design a compressed air system suited specifically to your application.



High-quality components engineered with 32 years of experience

## Installation Schematic with Booster Compressors



NOTE: All components must be properly pressure rated. Schematic does not show recommended accessories such as sequencers, drains, flow controller, or condensate management system.

AIR COMPRESSOR MODEL	BARE COMPRESSOR MODEL	OUTLET PRESSURE Mpa	LOW PRESSURE AIR INFLOW m <sup>3</sup> /min	F.A.D m <sup>3</sup> /min	POWER KW	SPEED r/min	SIZE mm	WEIGHT (kg)
BC330	BC2021	3.0	2.6	2.1	9	800	935 X 820 X 1325	400
	BC2021	3.5	3.6	3.1	11	800	935 X 820 X 1325	430
	BC2021	4.0	4.5	4.0	15	800	935 X 820 X 1325	450
BC430	BC1631	3.0	3.4	2.8	11	1050	1160 X 810 X 1600	440
	BC1631	3.5	4.6	4.0	15	1050	1160 X 810 X 1600	460
	BC1631	4.0	5.9	5.2	15	1050	1160 X 810 X 1600	460
BC560	BC2031	3.0	4.4	3.6	15	900	1160 X 810 X 1600	470
	BC2031	3.5	6.0	5.2	18.5	900	1160 X 810 X 1600	500
	BC2031	4.0	7.6	6.7	22	900	1160 X 810 X 1600	510
BC650	BC2031	3.0	5.1	4.2	18.5	1050	1160 X 810 X 1600	500
	BC2031	3.5	7.0	6.0	22	1050	1160 X 810 X 1600	510
	BC2031	4.0	8.9	7.8	22	1050	1160 X 810 X 1600	510
BC870	BC2631	3.0	6.9	5.6	22	820	1250 X 810 X 1540	520
	BC2631	3.5	9.4	8.1	25	820	1250 X 810 X 1540	530
BC1000	BC2631	3.0	7.9	6.5	25	950	1250 X 810 X 1540	530
	BC2631	3.5	10.9	9.4	30	950	1250 X 810 X 1540	540

### The high pressure screw compressor system

To meet the requirements of PET bottle blowing industry, the high pressure screw compressor system will compress air again from the screw compressor.

- Low-noise, stable air supply.
- System integrates compression, storage, and filtering of blown air with particle count less than 0.001 ppm.
- Steel frame housing contains all components and does not require a foundation.
- The system is cooled with air not water. Saving cooling and maintenance costs.



**BC650-10**



**Booster Compressor**

**Booster Compressor Specially Designed For PET Blow Moulding Machine**

## Two stage low pressure air compressor specially designed for PET blow moulding machines

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- Automatic unload system to ensure the machine starts safety under unload circs, this way can extend the using life of air compressor and protect the mainframe and motor
- The movement parts use the lubricating oil splash lubrication system, guarantees normal work of the spare parts under the low temperature, and lengthens the service life
- The compressed air part we use king of the world air valve "Herbiger" to have the completely automatic circumduction valve piston, large capacity, the multi-movements, the high efficiency characteristic, guarantees the compressor the service life and the working efficiency
- It adopts over hung type to convenient the maintenance of customer (shorten the maintenance period largely)
- The rationality of overall construction as well as the high strength and the high quality spare part have guaranteed the machine stably reliable durable, can truly provide you all-weather 24 hours service.



3030A W-3.0/10  
Air Compressor With Horizontal  
Air Receiver



V-0.2/17.5  
Air Compressor With Vertical  
Air Receiver

## Specification for two stage low pressure air compressor

Model	Capacity m <sup>3</sup> /min	Working pressure Mpa	Motor KW	Speed r.p.m	Dimension m m	Weight kg
V-0.2/17.5	0.2	1.75	2.2	800		220
V-0.27/7.6	0.27	0.76	2.2	130	1360 × 525 × 980	223
V-0.3/10	0.3	1.0	3.0	1250		240
V-0.4/17.5	0.4	1.75	4.0	830		242
V-0.5/10	0.5	1.0	4.0	1040	1360 × 525 × 1030	245
V-0.56/12	0.56	1.2	5.5	1250		260
V-0.7/12	0.7	1.2	5.5	750		295
V-0.5/17.5	0.5	1.75	5.5	600	1500 × 6500 × 1070	295
V-1.0/10	1.0	1.0	7.5	1020		315
V-0.6/10	0.6	1.0	5.5	710	1590 × 680 × 1250	360
V-0.8/10	0.8	1.0	7.5	910		380
V-1.5/7	1.5	0.7	11	1050		530
V-1.3/10	1.3	1.0	11	1050	1750 × 700 × 1310	530
V-1.2/18	1.2	1.8	11	900		120
W-1.2/10	1.2	1.0	11	700		600
W-1.6/10	1.6	1.0	15	950	1770 × 780 × 1400	620
W-2.0/7	2.0	0.7	15	1000		620
W-2.0/10	2.0	1.0	15	1050		620
W-1.8/12.5	1.8	1.25	15	950	1890 × 850 × 1480	700
W-1.5/17.5	1.5	1.75	15	850		700
W-2.5/10	2.5	1.0	22	940		760
W-3.0/7	3.0	0.7	22	1050		765
W-3.0/10	3.0	1.0	22	1100	1850 × 820 × 1560	775
W-2.2/14	2.2	1.4	22	940		760
W-2.6/14	2.6	1.4	25	1020		770
2-W-4.0/10	4.0	1.0	2 × 15	1050	2050 × 1530 × 1500	1060
2-W-6.0/10	6.0	1.0	2 × 22	1100	2150 × 1400 × 1550	1440



Air Compressor Without  
Air Receiver

**Low Pressure Air Compressor for DIY or Professional Use**

# **FEATURES & ADVANTAGES:**

## **BUILT-IN AFTERCOOLERS**

Reduces discharged air temperature thereby removing up to 65% moisture content. This also helps in reducing the sizing capacity of the dryer if necessary.

## **HEAVY DUTY 100% CAST IRON CYLINDERS**

Each cylinder is separately cast and individually flanged and bolted to the frame. Cylinders are precision honed for compatibility with the piston rings and employ deep radial fins to help remove the heat of compression.

## **BALANCED OVERHUNG CRANKSHAFT**

Stiff overhung crankshaft with long life bearing, precision balanced for smooth running with replaceable crankpin bushing to protect crankshaft from damage.

## **RUGGED ONE PIECE CONNECTING ROD**

Solid-end precision type, no bolts or nuts to come loose.

## **EFFICIENT FINNED INTERCOOLER TUBES**

Dissipates more heat to help the compressor run cooler & consume less power.

## **HEAT-TREATED STAINLESS STEEL VALVES ASSEMBLY**

Provides a larger flow area for less heat and carbon built-up with simple service removal.

## **LOADLESS START CENTRIFUGAL UNLOADER**

Prevents motor starting under load, eliminates possibility of burnt out motor.

## **FACTORY-FILLED SYNTHETIC LUBRICANTS**

Reduces carbon buildup, extends lubricant change period, improves performance & increases compressor's running life.

## **\*\*\*FOR NL UNITS**

Unique NL Cylinder Design having a pressurized distance piece that keeps crankcase oil out of cylinder space. Self lubricating piston rings with good sealing and low friction.

## **\*\*\*FOR HIGH PRESSURE UNITS**

Modified Large Efficient Aftercooler with automatic drains to provide cooler discharge temperatures.

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