

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.

PET  **ALL**

High Pressure Air Compressor

Specially Designed For PET Blow Moulding Machines



PET STAR
PET  **ALL**



About us

An excellent choice for PET Blow Molding machines requiring high air volume at high pressure

The Pet All, Pet Star system uses totally frame supported modular add-on units that can be progressively mounted as requirements increase.

A computerized control system manages the interface.



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High Pressure Air Compressor Specially Designed For PET Blow Moulding Machine – PET STAR

1 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 ³ /min	cfm	Mpa	psi				
WWH-0.6/35	0.6	21	3.5	500	7.5	790	1240 × 720 × 790	335
WWH-1.0/35	1.0	35	3.5	500	11	620	1600 × 830 × 1090	522
WWH-1.2/35	1.2	42	3.5	500	15	760	1600 × 830 × 1090	540
2-WWH-2.0/35	2.0	70	3.5	500	2 × 11	620	2000 × 1600 × 1270	1104
2-WWH-2.4/35	2.4	84	3.5	500	2 × 15	760	2000 × 1600 × 1270	1140
WWH-0.6/40	0.6	21	4.0	580	7.5	790	1240 × 720 × 790	335
WWH-1.0/40	1.0	35	4.0	580	11	620	1600 × 830 × 1090	522
WWH-1.2/40	1.2	42	4.0	580	15	760	1600 × 830 × 1090	540
2-WWH-2.0/40	2.0	70	4.0	580	2 × 11	620	2000 × 1600 × 1270	1104
2-WWH-2.4/40	2.4	84	4.0	580	2 × 15	760	2000 × 1600 × 1270	1140

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

- 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



PROGRAMMABLE LOGIC CONTROLLER

PLC

- Star Delta Start
- Automatic Drain (timing/machine stop)
- Automatically adjust 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.
- Manual or automatic control, independent of each other

Complete Air System Production Line



Specification for three stage high pressure air compressor

Model	Capacity		Working pressure		Motor KW	Speed r.p.m	Dimension m m	Weight kg
	m ³ /min	cfm	Mpa	psi				
VH-0.65/35	0.65	22.8	3.5	500	7.5	800	1250 × 760 × 800	475
WH-1.1/35	1.1	38.5	3.5	500	11	900	1420 × 830 × 840	475
WH-1.0/40	1.0	35	4.0	580	11	790	1420 × 830 × 840	475
WH-1.7/40	1.7	60	4.0	580	22	735	1140 × 710 × 1500	550
WH-1.9/40	1.9	66.5	4.0	580	25	860	1140 × 735 × 1650	550
2-WH-2.2/35	2.2	77	3.5	500	2 × 11	800	1880 × 1430 × 1000	1500
4-WH-4.0/40	4.0	140	4.0	580	4 × 11	790	2020 × 1570 × 2000	2400
6-WH-6.0/40	6.0	210	4.0	580	6 × 11	790	3495 × 1565 × 2000	3600

3 Booster compressor specially designed for PET blow moulding machines

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.

PET-All PETStar 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 PET-All PETStar Booster Compressor to increase the pressure of the existing compressed air where it is needed.

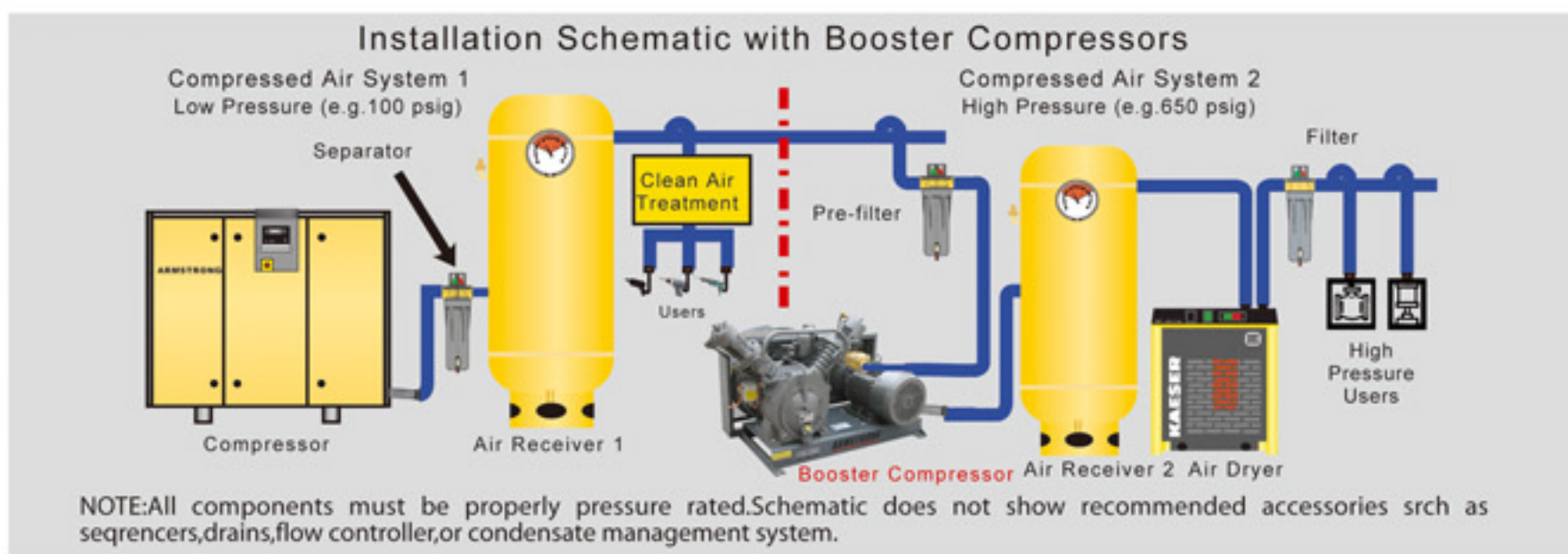
Booster Operation

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.

PET-All PETStar 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



BOOSTER COMPRESSOR

MODEL	NO. OF CYLINDERS	SUCTION CAPACITY (cfm/m ³ /min)	FREE AIR DELIVERY (cfm/m ³ /min)	MOTOR POWER (HP/kW)	COMPRESSOR SPEED (rpm)	OVERALL DIMENSION (mm)	WEIGHT (kg)
Single Stage, Max. Pressure 600Psig/4.0Mpa							
Suction Pressure (Psig/Mpa) 130-145/0.9-1.0							
BC260-10	2	90 / 2.55	70 / 2.0	20/15	950	1310 X 745 X 790	430
BC330-10	2	115 / 3.25	88 / 2.5	20/15	800	1310 X 745 X 790	450
BC430-10	3	150 / 4.2	115 / 3.2	25 / 18.5	1050	1140 X 800 X 1540	480
BC560-10	3	195 / 5.5	148 / 4.2	30 / 22	900	1140 X 800 X 1540	500
BC650-10	3	226 / 6.4	176 / 5.0	35 / 25	1050	1140 X 800 X 1540	530

The high pressure screw compressor system

To meet the requirement 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 blow 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.



4 Screw compressor

- Fully automatic load and unload. Compressor will start automatically and shut down under the following conditions:
 - When the target pressure in the air tank has been reached
 - When the voltage drops below a threshold
 - In an over-pressure condition
 - When the temperature reaches a protection setpoint
- High-quality European technology and components (GHH-Rand and SKF).
- M-H air filter with long-life capability.(4,000 hours+), it is easy for Maintenance and replacement.
- M-H oil filter, filtration density 10 micron (99.9% efficiency) and long-life capability (4,000 hours+).
- M-H air-oil separator, particle count below 3 ppm.
- Control system: All parts are from Schneider in France.



The Specification For Screw compressor (Belt)

Model	Motor		Working Pressure		Capacity		Noise dB(A)	Weight Kg	Dimension (L×W×H)(mm)
	KW	HP	MPa	Psi	m ³ /min	cfm			
JG11-7.5	11	15	0.8	115	1.7	60	72	395	1200×650×1250
JG11-10	11	15	1	143	1.4	49	72	395	1200×650×1250
JG15-7.5	15	20	0.8	115	2.5	88	74	415	1200×650×1250
JG15-10	15	20	1	143	2	70	74	415	1200×650×1250
JG22-7.5	22	30	0.8	115	3.6	127	74	860	1500×750×1500
JG22-10	22	30	1	143	3	106	74	860	1500×750×1500
JG30-7.5	30	40	0.8	115	5.2	184	75	920	1500×750×1500
JG30-10	30	40	1	143	4.5	159	75	920	1500×750×1500
JG37-7.5	37	50	0.8	115	6.5	230	75	1000	1700×950×1700
JG37-10	37	50	1	143	5.6	198	75	1000	1700×950×1700
JG45-7.5	45	60	0.8	115	8	283	76	1050	1700×950×1700
JG45-10	45	60	1	143	7	247	76	1050	1700×950×1700
JG55-7.5	55	75	0.8	115	10.2	360	76	1350	1850×1150×1950
JG55-10	55	75	1	143	8.4	297	76	1350	1850×1150×1950

The Specification For Screw compressor (Coupling)

Model	Motor		Working Pressure		Capacity		Noise dB(A)	Weight Kg	Dimension (L×W×H)(mm)
	KW	HP	MPa	Psi	m ³ /min	cfm			
JG75-7.5	75	100	0.8	115	13.5	6477	77	1700	2050×1150×1950
JG75-10	75	100	1	143	11.5	406	77	1700	2050×1150×1950
JG90-7.5	90	120	0.8	115	16.5	586	77	2250	2700×1600×1990
JG90-10	90	120	1	143	13.8	488	77	2250	2700×1600×1990
JG110-7.5	110	150	0.8	115	20.8	735	78	2450	2700×1600×1990
JG110-10	110	150	1	143	17.5	618	78	2450	2700×1600×1990
LG132-7.5	132	180	0.8	115	24	848	78	3050	2840×1880×1990
LG132-10	132	180	1	143	20.8	728	78	3050	2840×1880×1990
LG160-7.5	160	220	0.8	115	28	989	78	3150	2840×1880×1990
LG160-10	160	220	1	143	24	848	78	3150	2840×1880×1990

5 Two stage high pressure air compressor specially designed for PET blow moulding machines



WH-1.3/35

- 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.



4-WH-5.0/35

Specification for two stage high pressure air compressor

Model	Capacity m ³ /min cfm	Working pressure Mpa psi	Motor KW	Speed r.p.m	Dimension m m	Weight kg
VH-0.65/35	0.65 22.8	3.5 500	9	800	1800 × 630 × 1140	420
WH-1.1/35	1.1 38.5	3.5 500	11	605	2005 × 795 × 1260	550
WH-1.3/35	1.3 45.5	3.5 500	18.5	680	1140 × 735 × 1450	520
2-WH-2.2/35	2.2 77	3.5 500	2 × 15	605	1880 × 1180 × 1440	1080
2-WH-2.6/35	2.6 91	3.5 500	2 × 18.5	700	1880 × 1180 × 1440	1150
4-WH-5.0/35	5.0 175	3.5 500	4 × 18.5	680	2520 × 1920 × 1540	2400

PET ALL PET Star compressors and downstream accessory equipment are not designed, intended or approved for breathing air applications. PET ALL PET Star does not approve specialized equipment for breathing air applications and assumes no responsibility or liability for compressors use for breathing air service.

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