



PHB7,5

Since 1923, Pneumofore has produced air compressors and vacuum pumps, featuring original solutions, the result of constant efforts in research and development.

Secondary to the electric power, compressed air is the most important energy source for production plants. The right choice of air compressors allows considerable power savings and maintenance reduction. Pneumofore offers advice for the optimal sizing and installation of the whole compressed air plant to gain the best reliability.

Different customized purchasing solutions, such as air compressors leasing or rental, are available together with various options such as maintenance contracts allowing warranty extension.

PH series High Pressure Compressors

The PH series high-pressure reciprocating compressors, lubricated, air cooled, with measured capacity from 12 to 46 m³/h and delivery pressure from 15 to 35 bar, have been designed to guarantee high performance over time.

Every PH model has a dual-stage piston air end, with special steel pipes for intercooling the compressed air and improving the overhaul compressor efficiency.

The driving V belt and the belt pulley, i.e. the air end crank shaft flywheel, are completely surrounded by a safety metal cage.

The compressors with installed power from 2,2, to 9 kW and 15-20 bar delivery pressure are available with packaged air tank on request.

For reducing the noise level below the limits prescribed by EC rules, the air end is assembled on the tank via vibration-proof rubber bushings.

The standard configuration of PH compressors includes pressure gauge, non-return valve and safety valve.

To improve the ratio between free air delivery and absorbed power, compressors with 30 and 35 bar delivery pressure are supplied with intercooler and a packaged motor fan.

PH compressors are equipped with condensate separator and electronic controlled drainer, non-return valve of Hoerbiger type, intake and outlet pressure gauge.

Compressors with more than 5,5 kW installed power are equipped with packaged star-delta starter and solenoid valve.

Main Features

- **Piston air end**, lubricated, dual-stage, with special steel pipes for interstage air cooling. Intercooler and aftercooler on models from 30 to 35 bar delivery pressure.
- **V belt coupling** with cast iron flywheel pulley assembled on the crank shaft, protected by safety cage.
- **Packaged air tank**, sheet metal type, on models from 2,2 to 9 kW and delivery pressure from 15 to 20 bar.
- **Deadening rubber bearings** ensuring noise level according to EC rules.
- **Standard equipment** includes intake pre-filter, deadening rubber bearings, inlet and discharge pressure gauge, inlet and discharge solenoid valve, non-return valve, safety valve, intercooler and aftercooler with motor fan, condensate separator and electronic controlled drainer, star-delta starter and solenoid valve package.
- **EC marking**: the european safety regulation ensures the danger-free operation of the units.

PHB series Boosters

The PHB series boosters are lubricated reciprocating compressors with measured capacity from 8 to 150 m³/h, intake air pressurized from 6 to 10 bar and final pressure at 20 or 35 bar. These compressors are compact and silent thanks to the vibration-proof rubber bushings supporting the booster frame, easy to install without foundations or soundproof cabin.

Coupled with medium pressure compressors in a centralized installation or remotely connected to the pneumatic line, the boosters are a flexible and cost-effective solution for feeding high pressure air to manufacturing processes and tools.

The local increase in pressure shortens the high pressure pipe line and reduces the power consumed for compressing air.

Equipped with intake and discharge solenoid valve, deadening rubber bearings, aftercooler with package motor fan, condensate separator and drainer, intake and discharge pressure gauge, star-delta starter package, intake pre-filter and non-return valve, the PHB series boosters operate in full autonomy.



PH units: Lubricated, reciprocating compressors with capacity from 12 to 46 m³/h and pressures from 15 to 35 bar.

PH/PHB Series

High Pressure Compressors and Boosters

Model	Installed Power			Air Delivery				Pressure				Options available	Tank capacity*
	400 V / 50Hz / 3 ph			theoretical		measured		intake		outlet		T	liters
	kW	HP	rpm	m³/h	cfm	m³/h	cfm	bar	psi	bar	psi		
PH2,2 B15	2,2	3	900	18,4	10,8	12	7	Atmospheric	15	217	✓	50	
PH3 B15	3	4	850	18,6	11	12	7	Atmospheric	15	217	✓	120	
PH3 B20	3	4	850	17,4	10,2	11,4	6,7	Atmospheric	20	290	✓	120	
PH3 B30	3	4	750	15,6	9,2	7,8	4,6	Atmospheric	30	435	-	-	
PH4 B15	4	5,5	750	30	17,7	19,2	11,3	Atmospheric	15	217	✓	185	
PH5,5 B15	5,5	7,5	1058	51	30	40,8	24	Atmospheric	15	217	✓	300	
PH5,5 B20	5,5	7,5	720	28,2	16,6	16,2	9,5	Atmospheric	20	290	✓	200	
PH5,5 B30	5,5	7,5	650	25,8	15,2	14,4	8,5	Atmospheric	30	435	-	-	
PH7,5 B15	7,5	10	950	58,2	34,3	46,2	27,2	Atmospheric	15	217	✓	500	
PH7,5 B20	7,5	10	910	45	26,5	34,8	20,5	Atmospheric	20	290	✓	300	
PH7,5 B30	7,5	10	800	39	23	24	14,1	Atmospheric	30	435	-	-	
PH9 B20	9	12,5	850	52,2	30,7	41,4	24,4	Atmospheric	20	290	✓	500	
PH9 B30	9	12,5	710	43,8	25,8	30	17,7	Atmospheric	30	435	-	-	
PH9 B35	9	12,5	750	36,3	21,4	22	13	Atmospheric	35	508	-	-	
PHB5,5 B6/20	5,5	7,5	600	-	52,8	31	6	87	20	290	-	-	
PHB5,5 B6/30	5,5	7,5	600	-	51	30	6	87	30	435	-	-	
PHB5,5 B10/20	5,5	7,5	600	-	88,8	52,3	10	145	20	290	-	-	
PHB7,5 B6/20	7,5	10	1000	-	87,6	51,6	10	145	20	290	-	-	
PHB7,5 B6/35	7,5	10	600	-	48,6	28,6	6	87	35	508	-	-	
PHB7,5 B10/20	7,5	10	1000	-	150	88,3	10	145	20	290	-	-	
PHB7,5 B10/30	7,5	10	600	-	87	51,2	10	145	30	435	-	-	
PHB7,5 B10/35	7,5	10	600	-	81	47,7	10	145	35	508	-	-	
PHB11 B6/30	11	15	1000	-	84,6	49,8	6	87	30	435	-	-	
PHB11 B6/35	11	15	1000	-	82,8	48,7	6	87	35	508	-	-	
PHB11 B10/30	11	15	1000	-	144	84,8	10	145	30	435	-	-	
PHB11 B10/35	11	15	1000	-	138	81,2	10	145	35	508	-	-	

T: packaged with air tank. * each tank is available both in steady and mobile version.



Discharge solenoid valve and pressure gauge



Compressed air intercooler



Electric panel with packaged star-delta starter

Accessories for plant air

Q series air tanks: with capacity from 0,3 to 10 m³ and operating pressure up to 10 bar, with capacity from 0,05 to 1 m³ and operating pressure from 11 to 42 bar.

DS series air dryers: air cooled refrigeration dryers, with capacity from 65 to 8.750 m³/h up to 16 bar delivery pressure, capacity from 36 to 984 m³/h from 17 to 35 bar delivery pressure.

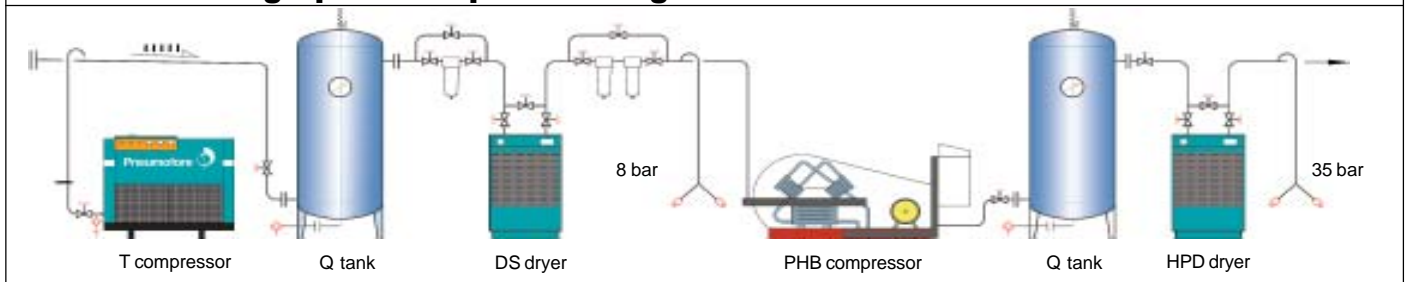
uf series filters: complete range for industrial filtration of particles, water and oil, carbon filters for oil-free air, absolute filters for sterile air, packages for breathing air.

Medium pressure piston compressors

Series	Installed power		Free air delivery (ISO 1217)		Discharge pressure		Dimensions max (mm)			Weight max	Noise level max	Oil carry over	
	min	max	min	max	min	max	length	width	height				
	kW	kW	V	m³/h	m³/h	bar	bar				kg	dB (A)	mg/m³
PC	0,75	1,8	230	7,2	14,4	8	10	1200	460	780	60	-	3
PM	1,1	3	230	9	29	8		1430	540	920	101	-	3
PB	2,2	7,5	400	20	71	10		1970	600	1230	292	-	3
PP	2x3	2x5,5	400	69	100	10		1970	600	1200	1035	-	3
PE	2,2	9	400	24	132	7		1100	880	1000	200	75	3
PED	4	10	-	30	96	7	8	1100	750	960	205	78	3
PS	1,5	7,5	400	17	72	8	10	1970	800	1300	261	70	3

* intake air: 1bar (absolute); 20°C; 50% relative humidity.

Medium and high pressure plant arrangement



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