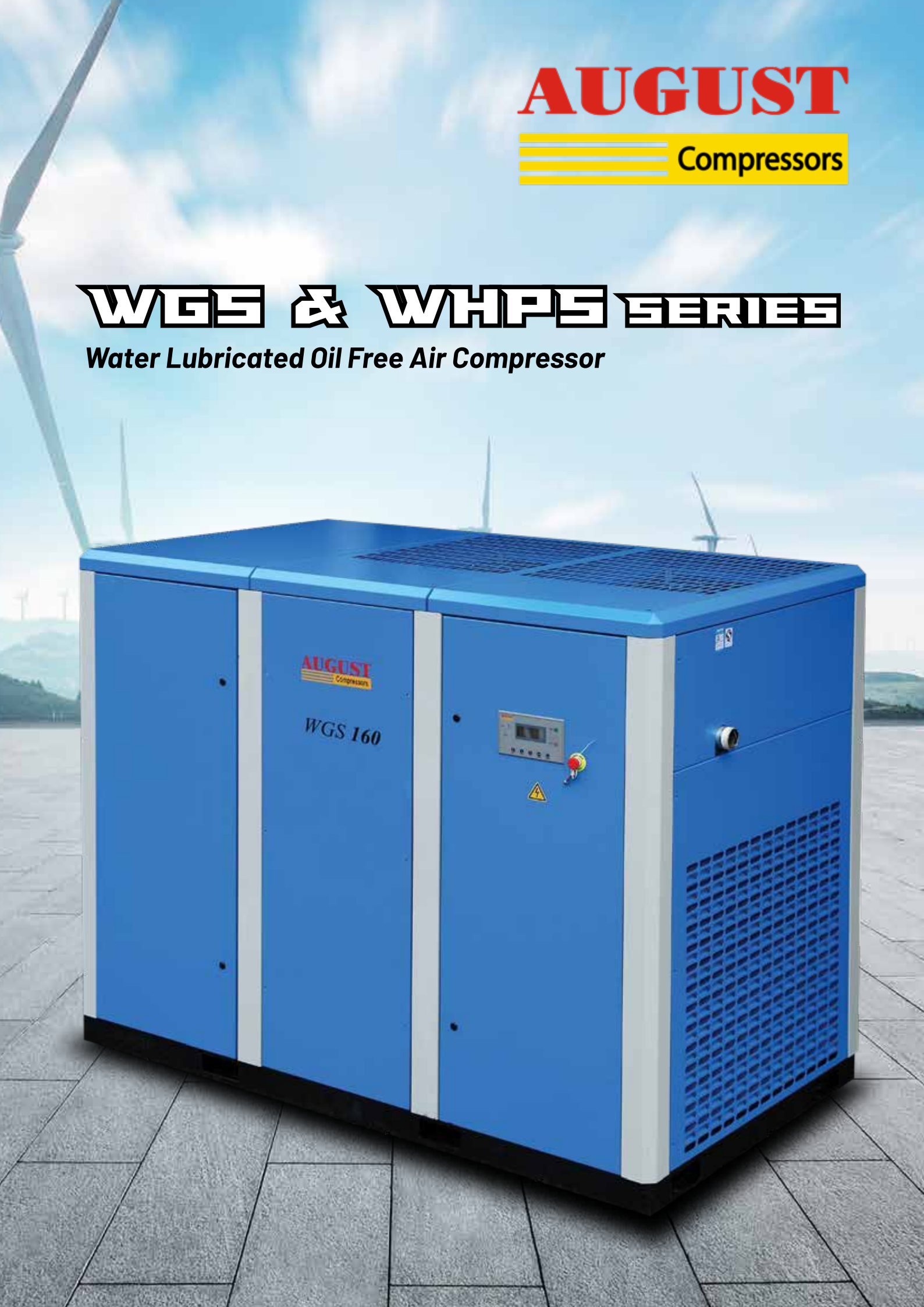
AUGUST

Compressors

WGS & WHPS SERIES

Water Lubricated Oil Free Air Compressor



WATER LUBRICATED OIL FREE WGS & WHPS SERIES

Technical Advantage

- The compression process is sealed, lubricated and cooled by pure water. The whole system is oil-free, and the compressed air is clean and safe. It passes the air purity industry standard ISO 8573-1 CLASS 0 zero-grade oil-free certification.
- The main screw, star wheel and housing are all made of stainless steel, corrosion resistant, and true stainless steel mainframe.
- The maintenance cost of the whole machine is low. It is only necessary to replace the air filter element and the water filter element during maintenance. At the same time, the filter element is easy to replace and can be replaced and maintained by itself.
- The whole machine adopts integrated design with less failure points and high stability. Intelligent micro-computer control system, easy to operate, with maintenance reminder, fault diagnosis and other functions, while achieving regular automatic water change and automatic system cleaning.

Technical Advantage

- **Compared with the dry oil-free screw air compressor, the advantages are obvious:**

A Large rotor, low speed (within 3000r/min), no gear box, direct drive, lower speed than dry oil-free screw (10,000~20,000r/min), longer life.

B Higher exhaust pressure, water-lubricated single-screw single-stage compressed exhaust pressure up to 17 bar, two-stage compressed exhaust pressure up to 40 bar, dry oil-free screw can not achieve such high exhaust pressure;

C High efficiency. The water-lubricated single-screw exhaust gas temperature does not exceed 60ºC, the compression process is closer to isothermal compression, and the thermal compression efficiency is higher than that of the dry oil-free screw (150~220ºC); compared with the dry oil- free screw secondary compression average energy saving 15% the above; Compared with its first-order compression, the average energy saving is more than 25%.

D Lower water content. The compressed air discharged from the water-lubricated single screw is aturated, the dew point of the saturated compressed air is lower, and the moisture content of the compressed air is 25% lower than that of the dry oil-free screw.

Water-lubricated Oil-free High Pressure Series

Model	Motor Power. (KW/HP)	Discharge Pressure (Mpa)	Free Air Delivery (m^3/min)	Weight (Kg)	Noise dB(A)±3	Overall Dimension (L×W×H mm)	Air Supply Out	Cooling Water Inlet & Outlet	Quantity of Cooling Water (Inlet Water 32°C) (T/H)	Quantity of Lubricating Water (L)
WHPS65W	65/90	4	6	1800	70	1800× 1360× 1710	1"	11/2"	18	120
WHPS110W	110/150	4	10	2260	72	3000× 1560× 1680	1½"	2"	28	120
WHPS132W	132/180	4	12	2500	73	3000× 1800× 2100	1½"	2"	35	120
WHPS165W	165/225	4	15	2980	75	3000× 1800× 2100	2"	21/2"	40	120
WHPS220W	220/300	4	20	3200	77	3000× 2100× 2200	2"	3"	50	120
WHPS275W	275/375	4	25	4600	78	3600× 2100× 2200	2½"	3"	56	120
WHPS460W	460/625	4	42	5800	80	4200× 3600× 2200	3"	4"	95	120

Note: 1. WHPS is high voltage permanent magnet frequency conversion.
2. The full range of high-voltage permanent magnet variable frequency water-lubricated oil-free screw compressors are water-cooled.
3. The above model is our standard model, the parameters are subject to change without notice

Water-lubricated Oil-free Normal Pressure Series

Model	Motor Power. (KW/HP)	Discharge Pressure (Mpa)	Free Air Delivery (m^3/min)	Weight (Kg)	Noise dB(A)±3	Overall Dimension (L×W×H mm)	Air Supply Out	Cooling Water Inlet & Outlet	Quantity of Cooling Water (Inlet Water 32°C) (T/H)	Quantity of Lubricating Water (L)
WG(P)S5.5/W	5.5/7.5	0.8	0.3-0.78	400	57	800× 800× 1200	3/4"	3/4"	1.5	10
		1.0	0.18-0.6							
WG(P)S7.5/W	7.5/10	0.8	0.35-1.17	510	57	800× 800× 1200	3/4"	3/4"	2	10
		1.0	0.3-1.05							
		1.25	0.24-0.81							
WG(P)S11/W	11/15	0.8	0.54-1.72	620	60	1200× 855× 1335	3/4"	1"	2.5	26
		1.0	0.45-1.42							
		1.25	0.35-1.1							
WG(P)S15/W	15/20	0.8	0.75- 2.43	670	60	1200× 855× 1335	1"	1"	3.5	26
		1.0	0.65-2.17							
		1.25	0.6-1.8							
WG(P)S18.5/W	18.5/25	0.8	0.9- 3.13	730	63	1400× 1010× 1340	1"	1"	4	30
		1.0	0.9- 2.82							
		1.25	0.6- 2.05							
WG(P)S22/W	22/30	0.8	1.1- 3.7	780	63	1400× 1010× 1340	1"	1"	5	30
		1.0	0.97- 3.21							
		1.25	0.85- 2.78							
WG(P)S30/W	30/40	0.8	1.55- 5.2	1150	66	1650× 1180× 1505(A) 1500× 1080× 1300(W)	1 1/2"	1 1/2"	7	40
		1.0	1.255- 4.43							
		1.25	1.1- 3.65							
WG(P)S37/W	37/50	0.8	1.91- 6.5	1200	66	1650× 1180× 1505(A) 1500× 1080× 1300(W)	1 1/2"	1 1/2"	9	40
		1.0	1.60- 5.33							
		1.25	1.42- 4.77							
WG(P)S45W	45/60	0.8	2.50-8.3	1490	68	1800× 1360× 1670	2"	1 1/2"	10	90
		1.0	1.91-6.3							
		1.25	1.70-5.56							
WG(P)S55W	55/75	0.8	3.0-10.3	1570	69	1800× 1360× 1670	2"	1 1/2"	12	100
		1.0	2.60-8.55							
		1.25	2.30-7.67							
WPS75W	75/100	0.8	3.95- 13.0	1750	72	1800× 1360× 1670	2"	1 1/2"	18	100
		1.0	3.40- 11.5							
		1.25	3.0- 9.7							
WPS90W	90/120	0.8	5.0- 16.6	2450	73	2200× 1550× 1800	2 1/2"	1 1/2"	20	120
		1.0	4.3- 14.66							
		1.25	3.72- 12.6							
WPS110W	110/150	0.8	6.0- 20.2	2580	77	2200× 1550× 1800	2 1/2"	2"	24	120
		1.0	5.0- 16.66							
		1.25	4.65- 15.56							
WPS132W	132/180	0.8	6.75- 22.52	2700	77	2200× 1550× 1800	2 1/2"	2"	30	120
		1.0	6.0- 19.97							
		1.25	5.07- 16.9							
WPS160W	160/220	0.8	8.5- 28.11	3900	79	3000× 1800× 2100	3"	3"	35	160
		1.0	7.6-25.42							
		1.25	6.7-22.52							
WPS185W	185/250	0.8	10-33.97	4050	79	3000× 1800× 2100	3"	3"	38	160
		1.0	8.72-29.0							
		1.25	7.75-25.21							
WPS200W	200/270	0.8	11.2-36.75	4200	80	3100× 1850× 2100	4"	4"	42	200
		1.0	9.67-32.78							
		1.25	9.2-29.24							
WPS220W	220/300	0.8	12.2-39.67	4400	80	3100× 1850× 2100	4"	4"	47	200
		1.0	11.2-36.75							
		1.25	9.0-29.63							
WPS250W	250/350	0.8	13.5-45	4800	80	3100× 1850× 2100	4"	4"	53	200
		1.0	12.3-39.67							
		1.25	10.2-33.97							

Note:
1. WGS is air-cooled fixed frequency,WPS s air-cooled variable frequency.
2. Data in parentheses is WPS model data.
3. Models above 45kW (including 45kW) are water-cooled models, no air cooled models; models above 75kW (including 75kW) are variable-frequency models, and there is no fixedfrequency model.
4. The above model is our standard model, the parameters are subject to change without notice

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