

# Oil Free Air Compressors

Installed motor power 3.7 - 250 kW/5 - 350 hp



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# OIL FREE SCROLL AIR COMPRESSOR

## Features and advantages

Mute, clean, energy saving and efficient.

100% oil free (class 0).

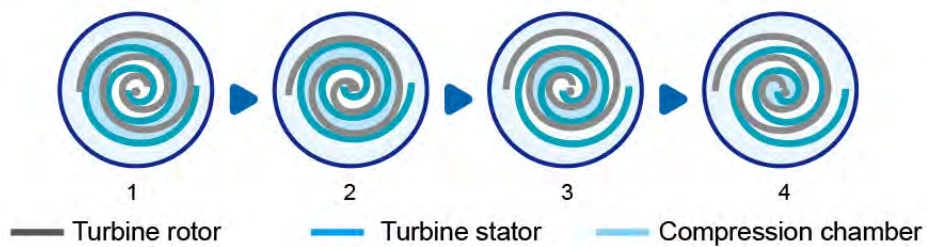
Delivers 11-15% more air compared to similar designs with no additional power.

Better in durability and longevity.



## Working principle

The turbine rotor turns in sequence of Picture 1→2→3→4, air is sucked into the space between turbine stator and turbine rotor, the volume of crescent-shaped (in point symmetry) compression chamber gradually decreases, compressed air is discharged through air outlet of central portion.



## Technical parameters

Type	Maximum working pressure		Capacity FAD*		Installed motor power		Noise level**	Dimensions	Weight	Outlet diameter	No. of Airend
	Unit	bar(e)	psig	m <sup>3</sup> /min	cfm	kW					
DWW-3		7.5	109	0.4	14.1	3.7	5	680*1000*950	230	G1/2"	1
		8.5	123	0.38	13.4	3.7	5				
		10.5	152	0.36	12.7	3.7	5				
DWW-7		7.5	109	0.8	28.2	7.5	10	680*1000*950	300	G1/2"	2
		8.5	123	0.76	26.8	7.5	10				
		10.5	152	0.72	25.4	7.5	10				
DWW-11		7.5	109	1.2	42.4	11	15	720*1100*1640	430	G1"	3
		8.5	123	1.14	40.3	11	15				
		10.5	152	1.08	38.1	11	15				
DWW-15		7.5	109	1.6	56.5	15	20	720*1100*1640	550	G1"	4
		8.5	123	1.52	53.7	15	20				
		10.5	152	1.4	49.4	15	20				
DWW-18		7.5	109	2	70.6	18.5	25	720*1100*2015	680	G1"	5
		8.5	123	1.9	67.1	18.5	25				
		10.5	152	1.8	63.6	18.5	25				
DWW-22		7.5	109	2.53	89.3	22	30	1450*1100*1640	900	G1"	6
		8.5	123	2.4	84.7	22	30				
		10.5	152	2.27	80.2	22	30				
DWW-30		7.5	109	3.2	113	30	40	1450*1100*1640	1100	G1 1/4"	8
		8.5	123	3.04	107.3	30	40				
		10.5	152	2.88	101.7	30	40				
DWW-37		7.5	109	4	141.2	37	50	1450*1100*2015	1300	G1 1/4"	10
		8.5	123	3.8	134.2	37	50				
		10.5	152	3.6	127.1	37	50				

\*) FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

# WATER INJECTED OIL FREE SCREW AIR COMPRESSOR

## Features and advantages



01

### State-of-the-art Screw Element

- Original DENAIR air end
- Single screw with star wheel design



02

### Electrical Components

Schneider electrical elements with original package from France, safe and reliable.



03

### Compressed Air Vessel

High quality stainless steel material, reduction of pressure drops and energy costs.



04

### Touch Screen Controller

Smart touch screen controller with multi-language LCD available.



05

### Water Filter

High quality stainless steel material, separate the compressed air and water efficiently.



06

### Stainless Steel Oil Pipe and Air Pipe

- High temperature resistant (400°C=752°F) and low temperature resistant(- 270°C= - 518°F), high pressure resistant
- Ultra-long life (80 years), completely leak free and maintenance free

## Technical parameters

Model	Maximum working pressure		Capacity FAD*		Installed motor power		Noise level**	Dimensions(mm) L*W*H	Weight kg	Air outlet pipe diameter
	bar(e)	psig	m³/min	cfm	kW	hp				
DAW-7	7	102	1.2	42.4	7.5	10	58	1200*775*1000	630	G1"
	8	116	1.15	40.6	7.5	10				
	10	145	1.02	36	7.5	10				
	12.5	181	0.97	34.3	7.5	10				
DAW-11	7	102	1.62	57.2	11	15	58	1200*775*1000	650	G3/4"
	8	116	1.55	54.7	11	15				
	10	145	1.32	46.6	11	15				
	12.5	181	1.25	44.1	11	15				
DAW-15	7	102	2.52	89	15	20	63	1400*1000*1200	650	G1"
	8	116	2.4	84.7	15	20				
	10	145	2.12	74.9	15	20				
	12.5	181	1.61	56.8	15	20				
DAW-18	7	102	3.25	114.8	18.5	25	65	1400*1000*1200	970	G1"
	8	116	3.1	109.5	18.5	25				
	10	145	2.62	92.5	18.5	25				
	12.5	181	2.13	75.2	18.5	25				
DAW-22	7	102	3.67	129.6	22	30	65	1400*1000*1200	1000	G1"
	8	116	3.5	123.6	22	30				
	10	145	3.13	110.5	22	30				
	12.5	181	2.61	92.2	22	30				
DAW-30	7	102	5.25	185.4	30	40	66	1850*1150*1300	1250	G1-1/2"
	8	116	5	176.6	30	40				
	10	145	4.2	148.3	30	40				
	12.5	181	3.81	134.5	30	40				
DAW-37	7	102	6.4	226	37	50	67	1850*1150*1300	1297	G1-1/2"
	8	116	6.1	215.4	37	50				
	10	145	5.22	184.3	37	50				
	12.5	181	4.81	169.8	37	50				
DAW-45	7	102	7.66	270.5	45	60	68	1850*1150*1300	1569	G2"
	8	116	7.3	257.8	45	60				
	10	145	6.13	216.5	45	60				
	12.5	181	5.65	199.5	45	60				
DAW-55	7	102	10.08	355.9	55	75	70	1900*1500*1700	1685	G2"
	8	116	9.6	339	55	75				
	10	145	8.6	303.7	55	75				
	12.5	181	7.42	262	55	75				
DAW-75	7	102	13.12	463.3	75	100	73	1900*1500*1700	1790	DN50
	8	116	12.5	441.4	75	100				
	10	145	11.42	403.2	75	100				
	12.5	181	9.83	347.1	75	100				
DAW-90(W)	7	102	17.11	604.2	90	120	73	1900*1500*1700	2250	DN50
	8	116	16.3	575.6	90	120				
	10	145	14.52	512.7	90	120				
	12.5	181	12.3	434.3	90	120				
DAW-110(W)	7	102	20.37	719.3	110	150	78	2150*1600*1800	2300	DN65
	8	116	19.4	685	110	150				
	10	145	16.9	596.7	110	150				
	12.5	181	15.1	533.2	110	150				
DAW-132(W)	7	102	23.32	823.4	132	175	78	2150*1600*1800	2500	DN65
	8	116	22.21	784.2	132	175				
	10	145	20.38	719.6	132	175				
	12.5	181	18.29	645.8	132	175				
DAW-160(W)	7	102	30.29	1069.5	160	215	78	2150*1600*1800	3000	DN65
	8	116	28.85	1018.7	160	215				
	10	145	24.52	865.8	160	215				
	12.5	181	22.17	782.8	160	215				
DAW-200(W)	7	102	38.12	1346	200	270	78	3100*1700*2090	3690	DN80
	8	116	36.39	1284.9	200	270				
	10	145	29.81	1052.6	200	270				
	12.5	181	27.43	968.6	200	270				
DAW-250(W)	7	102	43.79	1546.2	250	350	79	3100*1700*2090	3900	DN100
	8	116	42.6	1504.2	250	350				
	10	145	38.75	1368.3	250	350				
	12.5	181	34.43	1215.7	250	350				

\*)FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

# DRY TYPE OIL FREE SCREW AIR COMPRESSOR

## Features and advantages



01

### State-of-the-art Screw Element

- Original Germany GHH air end
- Double stage compression
- Superior Sweden SKF element bearings



02

### Advanced Touch Screen Controller and Monitoring System

- Overall system performance status with pro-active service indications, alarms for malfunctions and safety shutdowns
- All monitoring and control functions via one interface, multi-language LCD available.
- Wide communication possibilities



03

### Electrical Components

Schneider electrical elements with original package from France, safe and reliable.



04

### Stainless Steel Oil Pipe and Air Pipe

- High temperature resistant (400°C=752°F) and low temperature resistant(- 270°C= - 518°F), high pressure resistant
- Ultra-long life (80 years), completely leak free and maintenance free



05

### Superior Air Filter

- Germany MANN brand air filter with two-stage dust removal and filtering system with efficiency of up to 99.9% even in heavy-duty environments
- Extends the service life of the compressor parts and components, ensures high air quality

## Technical parameters

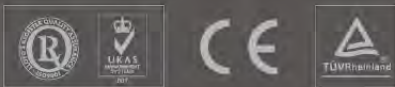
Model	Maximum working pressure		Capacity FAD*		Installed motor power		Noise level**	Dimensions(mm)	Weight	Air outlet pipe diameter
	bar(e)	psig	m <sup>3</sup> /min	cfm	kW	hp	dB(A)	L*W*H	kg	
DWW-45	7	102	7.87	277.9	45	60	67	A:2000×1200×1650 W:2300×1500×1720	2600	1-1/2"
	8	116	6.7	236.6	45	60	69			
	10	145	6.17	217.9	45	60	71			
DWW-55	7	102	9.8	346	55	75	68	A:2000×1200×1650 W:2300×1500×1720	2800	1-1/2"
	8	116	9	317.8	55	75	69			
	10	145	7.8	275.4	55	75	71			
DWW-75	7	102	13.1	462.6	75	100	69	A:2200×1400×2000 W:2300×1500×1720	2800	DN50
	8	116	12.2	430.8	75	100	71			
	10	145	11.3	399	75	100	72			
DWW-90	7	102	16.1	568.5	90	120	66	A:2800×1700×2150 W:2300×1500×1720	3400	DN65
	8	116	13.1	462.6	90	120	67			
	10	145	12.9	455.5	90	120	69			
DWW-110	7	102	19.5	688.5	110	150	67	A:2800×1700×2150 W:2700×1800×1800	3400	DN65
	8	116	18.3	646.2	110	150	68			
	10	145	17.5	617.9	110	150	70			
DWW-132(W)	7	102	23.9	843.9	132	175	69	A:2800×1700×2150 W:2700×1800×1800	3450	DN65
	8	116	22.8	805.1	132	175	70			
	10	145	21.5	759.2	132	175	71			
DWW-160(W)	7	102	26.5	935.7	160	215	69	A:2800×1700×2150 W:2700×1800×1800	3550	DN65
	8	116	25.5	900.4	160	215	71			
	10	145	24.7	872.2	160	215	71			
DWW-180(W)	7	102	32.8	1158.2	185	250	69	A:2800×1700×2150 W:2700×1800×1800	3950	DN65
	8	116	28.9	1020.5	185	250	71			
	10	145	26.3	928.7	185	250	71			
DWW-200(W)	7	102	37.14	1311.4	200	270	69	W:3100×2100×2060	4500	DN100
	8	116	36.95	1304.7	200	270	70			
	10	145	31.13	1099.2	200	270	72			
DWW-220(W)	7	102	41.13	1452.3	220	300	70	W:3100×2100×2060	5000	DN100
	8	116	41.09	1450.9	220	300	71			
	10	145	34.47	1217.1	220	300	72			
DWW-250(W)	7	102	46.99	1659.2	250	350	70	W:3100×2100×2060	5200	DN100
	8	116	44	1553.6	250	350	72			
	10	145	41	1447.7	250	350	72			

\*)FAD in accordance with ISO 1217 : 2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 °C

\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)



P-DNR201706-01 Specifications are subject to change without prior notice.  
Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.



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