

# Oil Free Air Compressors

Installed motor power 3.7 - 315 kW/5 - 425 hp



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# OIL FREE SCROLL AIR COMPRESSOR

## Features and advantages

Mute, clean, energy saving and efficient.

100% oil free (class 0).

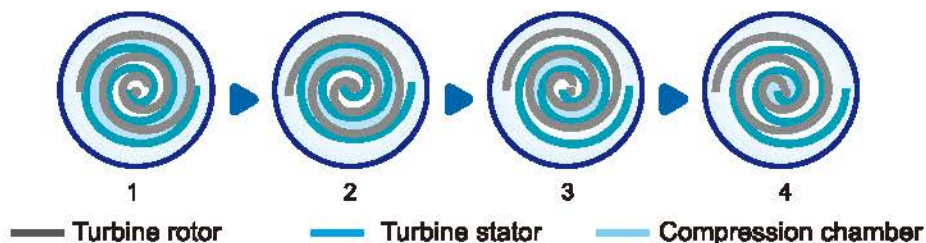
Delivers 11-15% more air compared to similar designs with no additional power.

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		No of air end	Air outlet pipe diameter	Noise Level**	Dimensions(mm)			Weight
			50 Hz		60 Hz							L	W	H	
	bar(a)	psig	m³/min	cfm	m³/min	cfm	kW	hp	Units	Inch	[dB(A)]				kg
DWW-3	7.5	109	0.42	15	0.42	15	3.7	5	1	G1/2"	52	1000	720	680	195
	8.5	123	0.40	14	0.40	14	3.7	5		G1/2"	52	1000	720	680	195
	10.5	152	0.37	13	0.37	13	3.7	5		G1/2"	52	1000	720	680	195
DWW-5	7.5	109	0.60	21	0.60	21	5.5	7.5	2	G1"	54	1000	720	990	285
	8.5	123	0.57	20	0.57	20	5.5	7.5		G1"	54	1000	720	990	285
	10.5	152	0.53	19	0.53	19	5.5	7.5		G1"	54	1000	720	990	285
DWW-7	7.5	109	0.84	30	0.84	30	7.5	10	2	G1"	56	1000	720	990	285
	8.5	123	0.80	28	0.80	28	7.5	10		G1"	56	1000	720	990	285
	10.5	152	0.73	26	0.73	26	7.5	10		G1"	56	1000	720	990	285
DWW-11	7.5	109	1.26	44	1.26	44	11	15	3	G1"	59	1000	720	1340	395
	8.5	123	1.20	42	1.20	42	11	15		G1"	59	1000	720	1340	395
	10.5	152	1.10	39	1.10	39	11	15		G1"	59	1000	720	1340	395

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

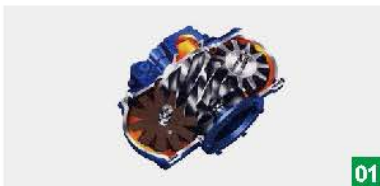
\*\*) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

**Specifications are subject to change without notice.**



# WATER INJECTED OIL FREE SCREW AIR COMPRESSOR(VSD)

## 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		Driving Mode & Cooling Method	Noise level** [dB(A)]	Dimensions (mm)			Weight kg	Air outlet pipe diameter
			50 Hz				60 Hz								L	W	H		
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.									
bar(a)	psig	m³/min	m³/min	cfm	cfm	m³/min	m³/min	cfm	cfm	kW	hp	[dB(A)]	L	W	H	kg			
DVAW-15	7.5	109	1.00	2.00	36	71	1.00	2.00	36	71	15	20	Direct Driven Air Cooling	63	1200	900	1200	650	G1"
	8.5	123	0.97	1.94	35	69	0.97	1.94	35	69	15	20		63	1600	1100	1500	650	G1"
	10.5	152	0.83	1.66	30	59	0.83	1.66	30	59	15	20		63	1200	900	1200	850	G1"
DVAW-18	7.5	109	1.41	2.81	50	99	1.41	2.81	50	99	18.5	25	Direct Driven Air Cooling	66	1600	1100	1500	800	G1"
	8.5	123	1.35	2.70	48	95	1.35	2.70	48	95	18.5	25		66	1600	1100	1500	800	G1"
	10.5	152	1.10	2.19	39	77	1.10	2.19	39	77	18.5	25		66	1600	1100	1500	800	G1"
DVAW-22	7.5	109	1.74	3.48	62	123	1.74	3.48	62	123	22	30	Direct Driven Air Cooling	68	1600	1100	1500	850	G1"
	8.5	123	1.73	3.46	61	122	1.73	3.46	61	122	22	30		66	1600	1100	1500	850	G1"
	10.5	152	1.36	2.73	48	96	1.36	2.73	48	96	22	30		66	1600	1100	1500	850	G1"
DVAW-30	7.5	109	2.64	5.27	93	186	2.64	5.27	93	186	30	40	Direct Driven Air Cooling	69	1600	1100	1500	920	G1-1/2"
	8.5	123	2.58	5.15	91	182	2.58	5.15	91	182	30	40		69	1600	1100	1500	920	G1-1/2"
	10.5	152	1.78	3.55	63	125	1.78	3.55	63	125	30	40		69	1600	1100	1500	920	G1-1/2"
DVAW-37	7.5	109	3.25	6.50	115	229	3.25	6.50	115	229	37	50	Direct Driven Air Cooling	69	1600	1100	1500	950	G1-1/2"
	8.5	123	3.13	6.26	111	221	3.13	6.26	111	221	37	50		69	1600	1100	1500	950	G1-1/2"
	10.5	152	2.61	5.21	92	184	2.61	5.21	92	184	37	50		69	1600	1100	1500	950	G1-1/2"
DVAW-45W	7.5	109	4.10	8.20	145	289	4.10	8.20	145	289	45	60	Direct Driven Air Cooling	66	2200	1400	1800	1500	DN50
	8.5	123	3.90	7.81	138	276	3.90	7.81	138	276	45	60		66	2200	1400	1800	1500	DN50
	10.5	152	3.12	6.23	110	220	3.12	6.23	110	220	45	60		66	2200	1400	1800	1500	DN50
DVAW-55W	7.5	109	4.66	9.32	165	329	4.66	9.32	165	329	55	75	Direct Driven Air Cooling	66	2200	1400	1800	1600	DN50
	8.5	123	4.43	8.86	157	313	4.43	8.86	157	313	55	75		66	2200	1400	1800	1600	DN50
	10.5	152	3.89	7.78	138	275	3.89	7.78	138	275	55	75		66	2200	1400	1800	1600	DN50
DVAW-75W	7.5	109	6.21	12.41	219	438	6.21	12.41	219	438	75	100	Direct Driven Air Cooling	71	2200	1400	1800	1750	DN50
	8.5	123	6.20	12.39	219	438	6.20	12.39	219	438	75	100		71	2200	1400	1800	1750	DN50
	10.5	152	5.23	10.45	185	369	5.23	10.45	185	369	75	100		71	2200	1400	1800	1750	DN50
DVAW-90W	7.5	109	8.24	16.48	291	582	8.24	16.48	291	582	90	120	Direct Driven Air Cooling	73	2400	1700	1800	2300	DN65
	8.5	123	8.18	16.36	289	578	8.18	16.36	289	578	90	120		73	2400	1700	1800	2300	DN65
	10.5	152	6.41	12.82	227	453	6.41	12.82	227	453	90	120		73	2400	1700	1800	2200	DN65
DVAW-110W	7.5	109	10.22	20.45	381	722	10.22	20.45	381	722	110	150	Direct Driven Air Cooling	73	2400	1700	1800	2800	DN65
	8.5	123	9.91	19.82	350	700	9.91	19.82	350	700	110	150		73	2400	1700	1800	2800	DN65
	10.5	152	7.78	15.55	275	549	7.78	15.55	275	549	110	150		73	2400	1700	1800	2800	DN65
DVAW-132W	7.5	109	11.00	21.99	389	776	11.00	21.99	389	776	132	175	Direct Driven Air Cooling	76	2400	1700	1800	3200	DN65
	8.5	123	10.97	21.94	388	775	10.97	21.94	388	775	132	175		76	2400	1700	1800	3200	DN65
	10.5	152	9.89	19.79	350	699	9.89	19.79	350	699	132	175		76	2400	1700	1800	3000	DN65

\* FAD in accordance with ISO 1217 : 2008, 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 9814-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

Specifications are subject to change without notice.



# 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

- Superior 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



06

### Premium Efficiency Drive Motor

- Premium efficiency Totally Enclosed Fan Cooled (TEFC) IP54/IP55 motor (Class F insulation) protects against dust and chemicals etc.
- Long-term stable operation even in harsh environments up to 55°C (131°F)

## Technical parameters for 7-10 bar models

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50 Hz		60 Hz						L	W	H		
	bar(e)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp							
DWW-55	7	102	9.35	330	8.06	285	55	75	Air Cooling W-Water Cooling	74	2000	1200	1650	1900	G1-1/2"
	8	116	9.17	324	8.04	284	55	75		74	2000	1200	1650	1900	G1-1/2"
	10	145	8.11	286	7.05	249	55	75		74	2000	1200	1650	1900	G1-1/2"
DWW-55W	7	102	9.35	330	8.06	285	55	75		74	2000	1200	1650	1800	G1-1/2"
	8	116	9.17	324	8.04	284	55	75		74	2000	1200	1650	1800	G1-1/2"
	10	145	8.11	286	7.05	249	55	75		74	2000	1200	1650	1800	G1-1/2"
DWW-75	7	102	12.71	449	11.56	408	75	100		74	2000	1200	1650	2100	DN50
	8	116	11.78	416	11.53	407	75	100		74	2000	1200	1650	2100	DN50
	10	145	11.57	409	10.11	357	75	100		74	2000	1200	1650	2100	DN50
DWW-75W	7	102	12.71	449	11.56	408	75	100		74	2000	1200	1650	2000	DN50
	8	116	11.78	416	11.53	407	75	100		74	2000	1200	1650	2000	DN50
	10	145	11.57	409	10.11	357	75	100		74	2000	1200	1650	2000	DN50
DWW-90	7	102	14.60	515	13.61	480	90	120		76	2800	1800	1860	2800	DN50
	8	116	14.32	506	13.47	476	90	120		76	2800	1800	1860	2800	DN50
	10	145	13.55	478	12.50	441	90	120		76	2800	1800	1860	2800	DN50
DWW-90W	7	102	14.60	515	13.61	480	90	120	76	2800	1800	1860	2180	DN50	
	8	116	14.32	506	13.47	476	90	120	76	2800	1800	1860	2180	DN50	
	10	145	13.55	478	12.50	441	90	120	76	2800	1800	1860	2180	DN50	
DWW-110	7	102	20.27	716	N/A***	N/A***	110	150	78	2800	1800	1860	3200	DN65	
	8	116	19.03	672	N/A***	N/A***	110	150	78	2800	1800	1860	3200	DN65	
	10	145	16.65	588	15.57	550	110	150	78	2800	1800	1860	3200	DN65	
DWW-110W	7	102	20.27	716	N/A***	N/A***	110	150	78	2800	1800	1860	3050	DN65	
	8	116	19.03	672	N/A***	N/A***	110	150	78	2800	1800	1860	3050	DN65	
	10	145	16.65	588	15.57	550	110	150	78	2800	1800	1860	3050	DN65	
DWW-132	7	102	23.94	845	20.09	709	132	175	78	2800	1800	1860	3340	DN65	
	8	116	22.47	793	19.87	702	132	175	78	2800	1800	1860	3340	DN65	
	10	145	20.19	713	N/A***	N/A***	132	175	78	2800	1800	1860	3340	DN65	
DWW-132W	7	102	23.94	845	20.48	723	132	175	78	2800	1800	1860	3170	DN65	
	8	116	22.47	793	20.26	715	132	175	78	2800	1800	1860	3170	DN65	
	10	145	20.19	713	19.82	700	132	175	78	2800	1800	1860	3170	DN65	
DWW-160	7	102	27.26	962	25.47	899	160	215	78	2800	1800	1860	3700	DN65	
	8	116	25.86	913	25.17	889	160	215	78	2800	1800	1860	3700	DN65	
	10	145	23.87	843	23.18	819	160	215	78	2800	1800	1860	3700	DN65	
DWW-160W	7	102	27.26	962	25.47	899	160	215	78	2800	1800	1860	3300	DN65	
	8	116	25.86	913	25.17	889	160	215	78	2800	1800	1860	3300	DN65	
	10	145	23.87	843	23.18	819	160	215	78	2800	1800	1860	3300	DN65	

\*) 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)

\*\*\*\*) N/A-Not Available

**Specifications are subject to change without notice.**



## Technical parameters for 7-10 bar models

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50 Hz		60 Hz						L	W	H		
	bar(e)	psig	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	hp							
DWW-185	7	102	30.19	1066	28.88	1020	185	250	Air Cooling W-Water Cooling	78	2800	1800	1860	3900	DN65
	8	116	29.53	1043	28.30	999	185	250		78	2800	1800	1860	3900	DN65
	10	145	27.20	960	27.17	960	185	250		78	2800	1800	1860	3900	DN65
DWW-185W	7	102	30.19	1066	28.88	1020	185	250		78	2800	1800	1860	3460	DN65
	8	116	29.53	1043	28.30	999	185	250		78	2800	1800	1860	3460	DN65
	10	145	27.20	960	27.17	960	185	250		78	2800	1800	1860	3460	DN65
DWW-200W	7	102	36.41	1286	31.14	1100	200	270		78	3100	2150	2200	4300	DN100
	8	116	33.86	1196	30.52	1078	200	270		78	3100	2150	2200	4300	DN100
	10	145	30.35	1071	28.82	1018	200	270		78	3100	2150	2200	4300	DN100
DWW-220W	7	102	38.99	1377	37.54	1325	220	300		78	3100	2150	2200	4500	DN100
	8	116	37.93	1339	36.78	1299	220	300		78	3100	2150	2200	4500	DN100
	10	145	33.79	1193	31.08	1097	220	300		78	3100	2150	2200	4500	DN100
DWW-250W	7	102	47.26	1669	41.53	1466	250	350		80	3100	2150	2200	4550	DN100
	8	116	43.31	1529	40.69	1437	250	350		80	3100	2150	2200	4550	DN100
	10	145	38.88	1373	37.43	1322	250	350		80	3100	2150	2200	4550	DN100
DWW-280W	7	102	51.04	1802	N/A***	N/A***	280	375	80	3400	2400	2200	4800	DN100	
	8	116	47.24	1668	N/A***	N/A***	280	375	80	3400	2400	2200	4800	DN100	
	10	145	43.26	1528	41.40	1462	280	375	80	3400	2400	2200	4800	DN100	
DWW-315W	7	102	52.03	1837	N/A***	N/A***	315	425	80	3400	2400	2200	5000	DN100	
	8	116	51.04	1802	N/A***	N/A***	315	425	80	3400	2400	2200	5000	DN100	
	10	145	47.18	1666	N/A***	N/A***	315	425	80	3400	2400	2200	5000	DN100	

\*) 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)

\*\*\*) N/A-Not Available

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**Technical parameters for 2.5-3.5 bar models**

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
	bar(e)	psig	50 Hz		60 Hz		kW	hp			L	W	H		
			m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm									
DWL-55-2	2.5	37	15.33	541	14.40	508	55	75	Air Cooling W-Water Cooling	69	2100	1500	1790	2500	DN100
DWL-55-3	3.5	51	12.78	451	10.85	383	55	75		69	2100	1500	1790	2500	DN100
DWL-75-2	2.5	37	19.92	703	19.85	701	75	100		69	2100	1500	1790	2650	DN100
DWL-75-3	3.5	51	16.30	575	15.86	560	75	100		69	2100	1500	1790	2650	DN100
DWL-90-2	2.5	37	26.07	921	26.28	928	90	120		72	2800	1800	1860	2750	DN100
DWL-90-3	3.5	51	19.54	690	18.30	646	90	120		72	2100	1500	1790	2750	DN100
DWL-110(W)-2	2.5	37	33.16	1171	29.82	1053	110	150		72	3100	2150	2200	3500	DN150
DWL-110(W)-3	3.5	51	25.60	904	23.90	844	110	150		72	2800	1800	1860	3000	DN150
DWL-132(W)-2	2.5	37	40.24	1421	35.99	1271	132	175		72	3100	2150	2200	3600	DN150
DWL-132(W)-3	3.5	51	27.23	961	29.43	1039	132	175		72	2800	1800	1860	3100	DN150
DWL-160(W)-2	2.5	37	49.42	1745	45.20	1596	160	215		76	3100	2150	2200	3900	DN150
DWL-160(W)-3	3.5	51	35.75	1262	35.12	1240	160	215		76	3100	2150	2200	3800	DN150
DWL-185(W)-2	2.5	37	56.02	1978	52.71	1861	185	250		79	3400	2400	2200	4100	DN150
DWL-185(W)-3	3.5	51	42.21	1490	40.28	1422	185	250		79	3400	2400	2200	4000	DN150

\*) 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 9814-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

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