DENAIR®

Oil Free

Air Compressors

Installed motor power 3.7 - 355 kW/5 - 475 hp

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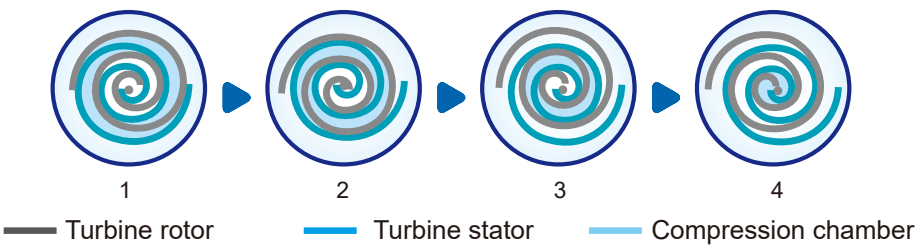
OIL FREE SCROLL AIR COMPRESSOR

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	Outlet diameter	Noise Level**	Dimensions(mm)			Weight
			50 Hz		60 Hz										
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp	Units	inch	dB(A)	L	W	H	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)

WATER INJECTED OIL FREE SCREW AIR COMPRESSOR

Features and advantages

State-of-the-art Screw Element

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

Electrical Components

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

Compressed Air Vessel

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

Touch Screen Controller

Smart touch screen controller with multi-language LCD available.

Water Filter

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

Stainless Steel Oil Pipe and Air Pipe

- High temperature resistant (400℃=752℉) and low temperature resistant(- 270℃= - 518℉), 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)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz									
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp	dB(A)	L	W	H	kg	
DAW-15	7.5	109	2.00	71	1.48	52	15	20	63	1200	900	1200	650	G1”
	8.5	123	1.94	69	1.46	52	15	20	63	1600	1100	1500	650	G1”
	10.5	152	1.66	59	1.42	50	15	20	63	1200	900	1200	650	G1”
DAW-18	7.5	109	2.81	99	2.40	85	18.5	25	66	1600	1100	1500	800	G1”
	8.5	123	2.70	95	2.33	82	18.5	25	66	1600	1100	1500	800	G1”
	10.5	152	2.19	77	1.99	70	18.5	25	66	1600	1100	1500	800	G1”
DAW-22	7.5	109	3.48	123	3.37	119	22	30	66	1600	1100	1500	850	G1”
	8.5	123	3.46	122	3.24	114	22	30	66	1600	1100	1500	850	G1”
	10.5	152	2.73	96	2.63	93	22	30	66	1600	1100	1500	850	G1”
DAW-30	7.5	109	5.27	186	4.18	148	30	40	69	1600	1100	1500	920	G1-1/2”
	8.5	123	5.15	182	4.15	147	30	40	69	1600	1100	1500	920	G1-1/2”
	10.5	152	3.55	125	3.28	116	30	40	69	1600	1100	1500	920	G1-1/2”
DAW-37	7.5	109	6.50	229	6.33	223	37	50	69	1600	1100	1500	950	G1-1/2”
	8.5	123	6.26	221	6.18	218	37	50	69	1600	1100	1500	950	G1-1/2”
	10.5	152	5.21	184	4.26	151	37	50	69	1600	1100	1500	950	G1-1/2”
DAW-45	7.5	109	8.20	289	7.80	275	45	60	69	2200	1400	1800	1700	DN50
	8.5	123	7.81	276	7.51	265	45	60	69	2200	1400	1800	1700	DN50
	10.5	152	6.23	220	6.25	221	45	60	69	2200	1400	1800	1700	DN50
DAW-45W	7.5	109	8.20	289	7.80	275	45	60	66	2200	1400	1800	1500	DN50
	8.5	123	7.81	276	7.51	265	45	60	66	2200	1400	1800	1500	DN50
	10.5	152	6.23	220	6.25	221	45	60	66	2200	1400	1800	1500	DN50
DAW-55	7.5	109	9.32	329	9.84	347	55	75	69	2200	1400	1800	1800	DN50
	8.5	123	8.86	313	9.37	331	55	75	69	2200	1400	1800	1800	DN50
	10.5	152	7.78	275	7.48	264	55	75	69	2200	1400	1800	1800	DN50
DAW-55W	7.5	109	9.32	329	9.84	347	55	75	66	2200	1400	1800	1600	DN50
	8.5	123	8.86	313	9.37	331	55	75	66	2200	1400	1800	1600	DN50
	10.5	152	7.78	275	7.48	264	55	75	66	2200	1400	1800	1600	DN50
DAW-75	7.5	109	12.41	438	11.19	395	75	100	73	2350	1400	1800	2100	DN50
	8.5	123	12.39	438	10.63	375	75	100	73	2350	1400	1800	2100	DN50
	10.5	152	10.45	369	9.33	330	75	100	73	2350	1400	1800	1900	DN50
DAW-75W	7.5	109	12.41	438	11.19	395	75	100	71	2200	1400	1800	1750	DN50
	8.5	123	12.39	438	10.63	375	75	100	71	2200	1400	1800	1750	DN50
	10.5	152	10.45	369	9.33	330	75	100	71	2200	1400	1800	1750	DN50
DAW-90W	7.5	109	16.48	582	15.39	543	90	120	73	2400	1700	1800	2300	DN65
	8.5	123	16.36	578	15.24	538	90	120	73	2400	1700	1800	2300	DN65
	10.5	152	12.82	453	12.52	442	90	120	73	2400	1700	1800	2200	DN65
DAW-110W	7.5	109	20.45	722	19.78	698	110	150	73	2400	1700	1800	2800	DN65
	8.5	123	19.82	700	19.63	693	110	150	73	2400	1700	1800	2800	DN65
	10.5	152	15.55	549	15.35	542	110	150	73	2400	1700	1800	2600	DN65
DAW-132W	7.5	109	21.99	776	24.53	866	132	175	76	2400	1700	1800	3200	DN65
	8.5	123	21.94	775	23.78	840	132	175	76	2400	1700	1800	3200	DN65
	10.5	152	19.79	699	18.66	659	132	175	76	2400	1700	1800	3000	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)

DRY TYPE OIL FREE SCREW AIR COMPRESSOR

Features and advantages

State-of-the-art Screw Element

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

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

Electrical Components

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

Stainless Steel Oil Pipe and Air Pipe

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

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

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℃(131℉)

Technical parameters

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz									
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp	dB(A)	L	W	H	kg	
DWW-55	7	102	9.12	322	7.91	279	55	75	68	2100	1500	1790	2700	G1-1/2
	8	116	9.07	320	7.89	279	55	75	68	2100	1500	1790	2700	G1-1/2
	10	145	7.91	279	6.91	244	55	75	68	2100	1500	1790	2700	G1-1/2
DWW-75	7	102	11.54	407	11.34	400	75	100	68	2300	1600	1790	2900	DN50
	8	116	11.52	407	11.31	399	75	100	68	2300	1600	1790	2900	DN50
	10	145	10.76	380	9.92	350	75	100	68	2300	1600	1790	2900	DN50
DWW-90	7	102	13.34	471	13.35	471	90	120	68	2300	1600	1790	2950	DN50
	8	116	13.32	470	13.34	471	90	120	68	2300	1600	1790	2950	DN50
	10	145	12.36	436	12.26	433	90	120	68	2300	1600	1790	2950	DN50
DWW-110	7	102	19.88	702	TBD***	TBD***	110	150	71	2800	1800	1860	3200	DN65
	8	116	18.66	659	TBD***	TBD***	110	150	71	2800	1800	1860	3200	DN65
	10	145	16.34	577	15.27	539	110	150	71	2800	1800	1860	3200	DN65
DWW-132	7	102	23.48	829	20.09	709	132	175	71	2800	1800	1860	3300	DN65
	8	116	22.04	778	20.06	708	132	175	71	2800	1800	1860	3300	DN65
	10	145	19.81	699	TBD***	TBD***	132	175	71	2800	1800	1860	3300	DN65
DWW-132W****	7	102	23.48	829	20.09	709	132	175	71	2800	1800	1860	3300	DN65
	8	116	22.04	778	20.06	708	132	175	71	2800	1800	1860	3300	DN65
	10	145	19.81	699	20.01	707	132	175	71	2800	1800	1860	3300	DN65
DWW-160	7	102	26.74	944	24.99	882	160	215	75	2800	1800	1860	3400	DN65
	8	116	25.37	896	24.93	880	160	215	75	2800	1800	1860	3400	DN65
	10	145	23.41	827	22.74	803	160	215	75	2800	1800	1860	3400	DN65
DWW-160W****	7	102	26.74	944	24.99	882	160	215	75	2800	1800	1860	3400	DN65
	8	116	25.37	896	24.93	880	160	215	75	2800	1800	1860	3400	DN65
	10	145	23.41	827	22.74	803	160	215	75	2800	1800	1860	3400	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)
***) TBD-To Be Discussed
****) W-Water cooling

Technical parameters

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz									
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp	dB(A)	L	W	H	kg	
DWW-185	7	102	29.61	1046	28.33	1000	185	250	75	2800	1800	1860	3600	DN65
	8	116	29.53	1043	28.30	999	185	250	75	2800	1800	1860	3600	DN65
	10	145	26.68	942	26.66	941	185	250	75	2800	1800	1860	3600	DN65
DWW-185W****	7	102	29.61	1046	28.33	1000	185	250	75	2800	1800	1860	3600	DN65
	8	116	29.53	1043	28.30	999	185	250	75	2800	1800	1860	3600	DN65
	10	145	26.68	942	26.66	941	185	250	75	2800	1800	1860	3600	DN65
DWW-200W****	7	102	33.35	1178	30.55	1079	200	270	78	3100	2150	2200	4400	DN100
	8	116	33.32	1177	30.52	1078	200	270	78	3100	2150	2200	4400	DN100
	10	145	29.83	1053	28.27	998	200	270	78	3100	2150	2200	4400	DN100
DWW-220W****	7	102	35.82	1265	36.82	1300	220	300	78	3100	2150	2200	4600	DN100
	8	116	35.77	1263	36.78	1299	220	300	78	3100	2150	2200	4600	DN100
	10	145	33.25	1174	30.49	1077	220	300	78	3100	2150	2200	4600	DN100
DWW-250W****	7	102	42.67	1507	40.74	1438	250	350	83	3100	2150	2200	4700	DN100
	8	116	42.64	1506	40.69	1437	250	350	83	3100	2150	2200	4700	DN100
	10	145	38.26	1351	36.72	1297	250	350	83	3100	2150	2200	4700	DN100
DWW-280W****	7	102	46.54	1643	TBD***	TBD***	280	375	83	3400	2400	2200	4900	DN100
	8	116	45.45	1605	TBD***	TBD***	280	375	83	3400	2400	2200	4900	DN100
	10	145	42.57	1503	40.61	1434	280	375	83	3400	2400	2200	4900	DN100
DWW-315W****	7	102	51.20	1808	TBD***	TBD***	315	425	83	3400	2400	2200	5100	DN100
	8	116	51.17	1807	TBD***	TBD***	315	425	83	3400	2400	2200	5100	DN100
	10	145	46.43	1640	TBD***	TBD***	315	425	83	3400	2400	2200	5100	DN100
DWW-355W****	7	102	51.20	1808	TBD***	TBD***	355	475	83	3400	2400	2200	5300	DN100
	8	116	51.17	1807	TBD***	TBD***	355	475	83	3400	2400	2200	5300	DN100
	10	145	51.12	1805	TBD***	TBD***	355	475	83	3400	2400	2200	5300	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)
***) TBD-To Be Discussed
****) W-Water cooling

Technical parameters

Model	Maximum working pressure		Capacity FAD*				Installed motor power		Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50 Hz		60 Hz									
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp	[dB(A)]	L	W	H	kg	
DWL-55-3	2.5	37	15.04	531	14.12	499	55	75	69	2100	1500	1790	2500	DN100
	3.5	51	10.98	388	10.64	376	55	75	69	2100	1500	1790	2500	DN100
DWL-75-3	2.5	37	19.54	690	19.47	687	75	100	69	2100	1500	1790	2650	DN100
	3.5	51	15.99	564	15.55	549	75	100	69	2100	1500	1790	2650	DN100
DWL-90-3	2.5	37	25.57	903	25.78	910	90	120	72	2800	1800	1860	2750	DN100
	3.5	51	19.17	677	17.95	634	90	120	72	2100	1500	1790	2750	DN100
DWL-110-3	2.5	37	32.53	1149	29.25	1033	110	150	72	3100	2150	2200	3500	DN150
	3.5	51	25.11	887	23.44	828	110	150	72	2800	1800	1860	3000	DN150
DWL-132-3	2.5	37	39.47	1394	35.31	1247	132	175	72	3100	2150	2200	3600	DN150
	3.5	51	26.71	943	28.87	1019	132	175	72	2800	1800	1860	3100	DN150
DWL-132W-3	2.5	37	39.47	1394	35.31	1247	132	175	72	3100	2150	2200	3600	DN150
	3.5	51	26.71	943	28.87	1019	132	175	72	2800	1800	1860	3100	DN150
DWL-160-3	2.5	37	48.48	1712	44.34	1566	160	215	76	3100	2150	2200	3900	DN150
	3.5	51	35.31	1247	34.45	1217	160	215	76	3100	2150	2200	3900	DN150
DWL-160W-3	2.5	37	48.48	1712	44.34	1566	160	215	76	3100	2150	2200	3800	DN150
	3.5	51	35.31	1247	34.45	1217	160	215	76	3100	2150	2200	3800	DN150
DWL-185-3	2.5	37	54.95	1940	51.71	1826	185	250	79	3400	2400	2200	4100	DN150
	3.5	51	41.69	1472	39.51	1395	185	250	79	3400	2400	2200	4000	DN150
DWL-185W-3	2.5	37	54.95	1940	51.71	1826	185	250	79	3400	2400	2200	4100	DN150
	3.5	51	41.69	1472	39.51	1395	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 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ± 3 dB(A)

P-DNR201802-01 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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