

LOW PRESSURE ROTARY SCREW COMPRESSOR(VSD)



P-DNR201908_02 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.

Technical parameters

Model	Maximum Working Pressure		Capacity FAD*								Installed Motor Power		Driving Model & Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50Hz				60Hz								L	W	H		
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.									
DVAL-55-3	3	43.5	8.39	16.78	296	592	7.46	14.92	264	527	55	75	Direct Driven Air Cooling/W-water Cooling	70	2950	1800	2300	1800	DN50
DVAL-75-3			11.55	23.10	408	816	12.22	24.44	432	863	75	100		70	2950	1800	2300	1900	DN80
DVAL-90-3			12.78	25.57	452	903	13.85	27.71	489	978	90	120		74	2950	1800	2300	2500	DN80
DVAL-110-3			16.00	31.99	565	1130	14.12	28.25	499	997	110	150		74	3700	2300	2450	3700	DN80
DVAL-132-3			17.89	35.77	632	1263	15.36	30.71	542	1084	132	175		74	3700	2300	2450	4000	DN80
DVAL-160-3			19.51	39.02	689	1378	17.55	35.09	620	1239	160	215		77	3700	2300	2450	4500	DN80
DVAL-185(W)-3			21.76	43.51	768	1536	22.58	45.15	797	1594	185	250		77	3700	2300	2450	5200	DN100
DVAL-250(W)-3			31.50	63.00	1113	2225	34.65	69.30	1224	2447	250	350		82	4300	2400	2350	6600	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)
Specifications are subject to change without notice.



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Oil-injected Rotary Screw Air Compressors

Installed motor power 5.5 - 400 kW/7.5 - 550 hp
 Free air delivery from 0.36 to 75.64 m³/min, Pressure 3 - 40 bar



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OIL-INJECTED ROTARY SCREW AIR COMPRESSOR(FIXED SPEED)

Features and advantages



Smart Controller
 • Increased reliability: durable keyboard, user-friendly, multilingual user interface.
 • Improved ease of use: intuitive navigation system with main operation conditions include warning indications, maintenance scheduling etc.



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.



Intelligent Control and Protection
 • Schneider electrical elements with original package from Germany, safe and reliable.
 • Reasonable, simple and clear wiring, easy for maintenance.
 • Good protection function ensures the stable running of the compressor unit.



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)



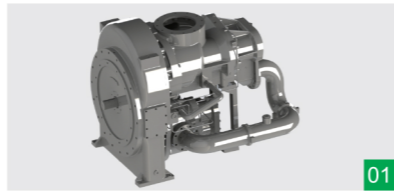
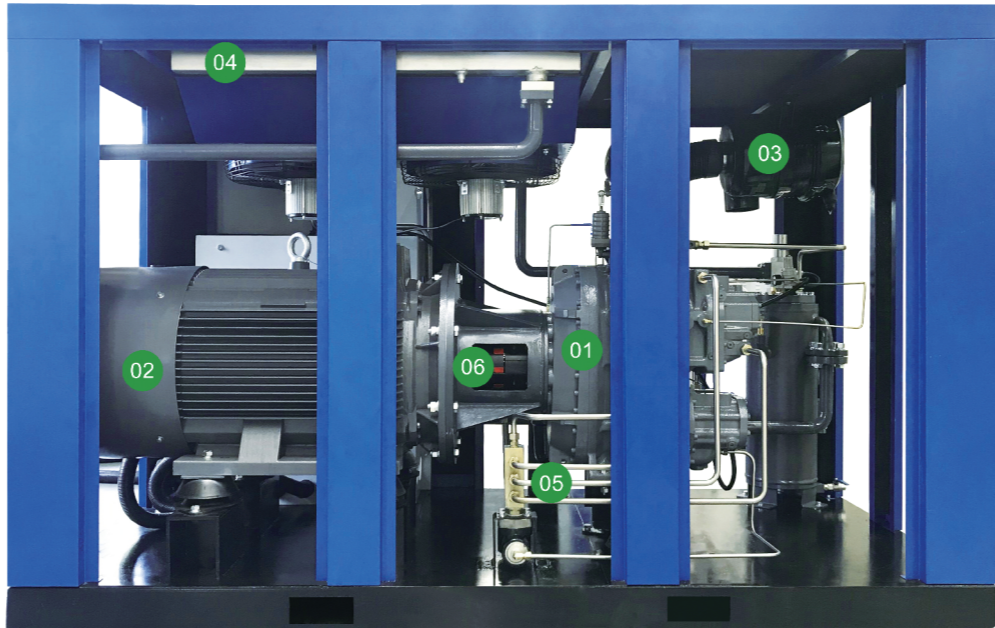
Belt Driven
 Germany Optibelt brand belts ensure the high performance and easy maintenance.



Efficient Radiator
 High quality aluminum fins and copper coil materials with good thermal conductivity ensure the perfect cooling efficiency.

HIGH PRESSURE ROTARY SCREW COMPRESSOR(VSD)

Features and advantages



Two-Stage Rotary Screw Air End
 • Discharge pressure is up to 40 bar(=580 psig).
 • Delivers 10-17% more air than a single-stage compressor with no additional power.
 • Lower compression ratio in each stage reduces bearing loads and increases air end life.



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)



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.



Efficient Radiator
 High quality aluminum fins and copper coil materials with good thermal conductivity ensure the perfect cooling efficiency.



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.



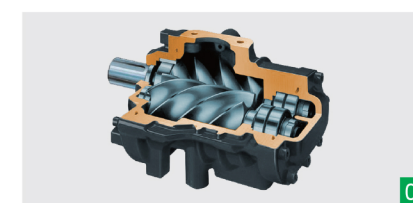
Energy-saving 1:1 Direct Driven Design
 Germany KTR brand maintenance-free coupling makes the motor drive the air end without transmission loss.

Technical parameters

Model	Maximum Working Pressure		Capacity FAD*						Installed Motor Power		Cooling Method	Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter	
			50Hz			60Hz												
			Min.	Max.	Min.	Max.	Min.	Max.										Min.
DVAH-110-16	16	233	5.47	10.94	193	386	5.81	11.62	205	410	110	150	78	2800	1600	1700	2300	DN50
DVAH-110-18	18	261	7.23	14.46	255	511	5.58	11.16	197	394	110	150	78	2800	1600	1700	2300	DN50
DVAH-110-20	20	290	7.18	14.36	254	507	5.38	10.76	190	380	110	150	78	2800	1600	1700	2500	DN50
DVAH-110-25	25	363	7.00	14.01	247	495	5.28	10.56	187	373	110	150	78	2800	1600	1700	2500	DN50
DVAH-110-30	30	435	5.40	10.79	191	381	5.15	10.30	182	364	110	150	78	2800	1600	1700	2500	DN50
DVAH-110-35	35	508	5.31	10.62	185	375	5.10	10.20	180	360	110	150	78	2800	1600	1700	4150	DN50
DVAH-110-40	40	580	5.22	10.43	184	368	5.05	10.10	179	357	110	150	78	2800	1600	1700	4150	DN50
DVAH-132-16	16	233	6.73	13.46	238	475	7.25	14.50	256	512	132	175	78	2800	1600	1700	2300	DN50
DVAH-132-18	18	261	8.67	17.33	306	612	6.49	12.99	230	459	132	175	78	2800	1600	1700	2300	DN50
DVAH-132-20	20	290	7.71	15.43	272	545	6.42	12.84	227	453	132	175	78	2800	1600	1700	2500	DN50
DVAH-132-25	25	363	6.54	13.07	231	462	5.25	12.46	220	440	132	175	78	2800	1600	1700	2500	DN50
DVAH-132-30	30	435	5.55	11.10	196	392	5.23	10.50	186	371	132	175	78	2800	1600	1700	2500	DN50
DVAH-132-35	35	508	5.46	10.92	193	386	5.20	10.40	184	367	132	175	78	2800	1600	1700	4150	DN50
DVAH-132-40	40	580	5.37	10.73	189	379	5.15	10.30	182	364	132	175	78	2800	1600	1700	4150	DN50
DVAH-160-16	16	233	7.70	15.39	272	544	9.38	18.78	332	663	160	215	80	2800	1600	2000	3000	DN65
DVAH-160-18	18	261	10.61	21.21	374	749	9.21	18.43	326	651	160	215	80	2800	1600	2000	3000	DN65
DVAH-160-20	20	290	10.47	20.95	370	740	8.06	16.13	285	569	160	215	80	2800	1600	2000	3200	DN65
DVAH-160-25	25	363	8.19	16.39	289	579	7.99	15.97	282	564	160	215	80	2800	1600	2000	3200	DN65
DVAH-185-16	16	233	8.16	16.33	288	577	10.30	20.60	364	727	185	250	80	2800	1600	2000	3200	DN65
DVAH-185-18	18	261	11.12	22.24	393	785	10.91	20.37	360	719	185	280	80	2800	1600	2000	3200	DN65
DVAH-185-20	20	290	10.57	21.15	373	747	8.81	17.62	311	622	185	250	80	2800	1600	2000	3500	DN65
DVAH-185-25	25	363	10.35	20.71	366	731	7.73	17.45	308	616	185	250	80	2800	1600	2000	3500	DN65
DVAH-200W-16	16	233	10.83	21.65	382	764	11.94	23.88	422	843	200	275	80	3700	2300	2450	3200	DN80
DVAH-200W-18	18	261	13.27	26.54	469	937	11.32	22.64	400	799	200	275	80	3700	2300	2450	3200	DN80
DVAH-200W-20	20	290	12.10	24.19	427	854	10.68	21.37	377	754	200	275	80	3700	2300	2450	3500	DN80
DVAH-200W-25	25	363	11.04	22.04	389	778	9.09	18.19	321	642	200	275	80	3700	2300	2450	3500	DN80
DVAH-220W-16	16	233	12.39	24.77	437	875	12.17	24.34	430	859	220	300	80	3700	2300	2450	3600	DN80
DVAH-220W-18	18	261	14.11	28.22	498	997	11.84	23.67	418	836	220	300	80	3700	2300	2450	4000	DN80
DVAH-220W-20	20	290	13.16	26.32	465	929	11.21	22.42	396	792	220	300	80	3700	2300	2450	4000	DN80
DVAH-220W-25	25	363	11.98	23.95	423	846	10.47	20.94	370	739	220	300	80	3700	2300	2450	4000	DN80
DVAH-250W-16	16	233	13.34	26.68	471	942	14.06	28.13	497	993	250	350	82	3700	2300	2450	4300	DN80
DVAH-250W-18	18	261	14.92	29.85	527	1054	13.99	27.99	494	988	250	350	82	3700	2300	2450	5300	DN80
DVAH-250W-20	20	290	15.05	30.09	531	1063	12.95	25.89	457	914	250	350	82	3700	2300	2450	5300	DN80
DVAH-250W-25	25	363	12.78	25.56	451	903	12.45	24.90	440	897	250	350	82	3700	2300	2450	5300	DN80
DVAH-280W-16	16	233	15.65	31.30	553	1105	16.51	33.02	583	1166	280	375	82	3700	2300	2450	4500	DN80
DVAH-280W-18	18	261	18.69	37.38	660	1320	14.84	29.68	524	1048	280	375	82	3700	2300	2450	5500	DN80
DVAH-280W-20	20	290	18.50	37.00	653	1307	14.69	29.38	519	1037	280	375	82	3700	2300	2450	5500	DN80
DVAH-280W-25	25	363	15.42	30.85	545	1089	12.69	25.38	448	896	280	375	82	3700	2300	2450	5500	DN80

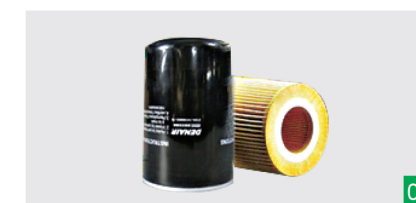
*FAD in accordance with ISO 1217:2009, Annex C: Absolute intake pressure 1 bar (a), cooling and air intake temperature 20 C
 **) Noise level as per ISO 2151 and the basic standard ISO 9614-2, operation at maximum operating pressure and maximum speed; tolerance: ±3 dB(A)
Specifications are subject to change without notice.

Model	Maximum Working Pressure		Capacity FAD*								Installed Motor Power		Driving Model & Cooling Method	Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50Hz				60Hz								L	W	H		
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.									
	bar(e)	psig	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	kW	hp	[dB(A)]				kg				
DVA-90	7.5	109	8.45	16.90	298	597	8.45	16.91	298	597	90	120	Direct Driven Air Cooling W-Water Cooling	72	2450	1800	1700	2100	DN80
	8.5	123	8.35	16.70	295	590	8.40	16.80	297	593	90	120		72	2450	1800	1700	2100	DN80
	10.5	152	7.25	14.50	256	512	7.38	14.76	261	521	90	120		72	2450	1800	1700	2100	DN80
	13	189	6.25	12.50	221	441	5.71	11.42	202	403	90	120		72	2450	1800	1700	2100	DN80
DVA-110	7.5	109	10.40	20.80	367	734	10.03	20.06	354	708	110	150	Direct Driven Air Cooling W-Water Cooling	75	2450	1800	1700	2500	DN80
	8.5	123	10.00	20.00	353	706	9.99	19.98	353	706	110	150		75	2450	1800	1700	2500	DN80
	10.5	152	8.75	17.50	309	618	8.40	16.80	297	593	110	150		75	2450	1800	1700	2500	DN80
	13	189	7.25	14.50	256	512	7.33	14.67	259	518	110	150		75	2450	1800	1700	2500	DN80
DVA-132	7.5	109	11.75	23.50	415	830	12.22	24.43	431	863	132	175	Direct Driven Air Cooling W-Water Cooling	75	2450	1800	1700	2600	DN80
	8.5	123	11.60	23.20	410	819	11.92	23.83	421	842	132	175		75	2450	1800	1700	2600	DN80
	10.5	152	9.92	19.83	350	700	9.90	19.79	349	699	132	175		75	2450	1800	1700	2600	DN80
	13	189	8.23	16.46	291	581	8.32	16.64	294	588	132	175		75	2450	1800	1700	2600	DN80
DVA-160	7.5	109	14.00	28.00	494	989	14.00	27.99	494	988	160	215	Direct Driven Air Cooling W-Water Cooling	75	2650	1700	1760	3150	DN80
	8.5	123	13.50	27.00	477	953	13.66	27.32	482	965	160	215		75	2650	1700	1760	3150	DN80
	10.5	152	12.00	24.00	424	847	12.02	24.03	424	849	160	215		75	2650	1700	1760	3150	DN80
	13	189	10.00	20.00	353	706	9.88	19.75	349	697	160	215		75	2650	1700	1760	3150	DN80
DVA-185(W)	7.5	109	15.10	30.20	533	1066	15.23	30.45	538	1075	185	250	Direct Driven Air Cooling W-Water Cooling	75	2650	1700	1760	3550	DN80
	8.5	123	15.07	30.14	532	1064	15.03	30.06	531	1061	185	250		75	2650	1700	1760	3550	DN80
	10.5	152	13.12	26.24	463	927	13.77	27.54	486	972	185	250		75	2650	1700	1760	3550	DN80
	13	189	11.54	23.08	407	815	11.88	23.75	419	839	185	250		75	2650	1700	1760	3550	DN80
DVA-200(W)	7.5	109	17.50	35.00	618	1236	15.52	31.03	548	1096	200	270	Direct Driven Air Cooling W-Water Cooling	78	3000	1950	2050	4200	DN100
	8.5	123	17.00	34.00	600	1201	15.17	30.35	536	1071	200	270		78	3000	1950	2050	4200	DN100
	10.5	152	15.00	30.00	530	1059	14.85	29.69	524	1048	200	270		78	3000	1950	2050	4200	DN100
	13	189	13.00	26.00	459	918	13.49	26.97	476	952	200	270		78	3000	1950	2050	4200	DN100
DVA-220(W)	7.5	109	18.25	36.50	644	1289	18.84	37.68	665	1331	220	300	Direct Driven Air Cooling W-Water Cooling	78	3000	1950	2050	4300	DN100
	8.5	123	18.00	36.00	636	1271	16.62	33.24	587	1174	220	300		78	3000	1950	2050	4300	DN100
	10.5	152	15.82	31.63	558	1117	16.58	33.16	585	1171	220	300		78	3000	1950	2050	4300	DN100
	13	189	14.28	28.55	504	1008	13.49	26.97	476	952	220	300		78	3000	1950	2050	4300	DN100
DVA-250(W)	7.5	109	22.65	45.30	800	1600	21.49	42.99	759	1518	250	350	Direct Driven Air Cooling W-Water Cooling	78	3000	1950	2050	4400	DN100
	8.5	123	21.50	43.00	759	1518	21.08	42.17	744	1489	250	350		78	3000	1950	2050	4400	DN100
	10.5	152	18.50	37.00	653	1306	16.75	33.50	591	1183	250	350		78	3000	1950	2050	4400	DN100
	13	189	16.25	32.50	574	1148	16.37	32.74	578	1156	250	350		78	3000	1950	2050	4400	DN100
DVA-280(W)	7.5	109	23.24	46.47	820	1641	23.58	47.16	833	1665	280	375	Direct Driven Air Cooling W-Water Cooling	78	3700	2300	2450	4900	DN125
	8.5	123	22.77	45.53	804	1608	22.82	45.64	806	1612	280	375		78	3700	2300	2450	4900	DN125
	10.5	152	20.45	40.89	722	1444	20.52	41.03	724	1449	280	375		78	3700	2300	2450	4900	DN125
	13	189	17.91	35.81	632	1264	18.38	36.75	649	1298	280	375		78	3700	2300	2450	4900	DN125
DVA-315(W)	7.5	109	26.52	53.03	936	1872	25.44	50.88	898	1797	315	425	Direct Driven Air Cooling W-Water Cooling	80	3700	2300	2450	7000	DN125
	8.5	123	26.25	52.50	927	1854	24.26	48.52	857	1713	315	425		80	3700	2300	2450	7000	DN125
	10.5	152	23.35	46.69	824	1649	22.75	45.51	803	1607	315	425		80	3700	2300	2450	7000	DN125
	13	189	21.41	42.82	756	1512	20.43	40.86	721	1443	315	425		80	3700	2300	2450	7000	DN125
DVA-355W	7.5	109	31.61	63.21	1116	2232	27.29	54.57	963	1927	355	475	Direct Driven Air Cooling W-Water Cooling	80	3700	2300	2450	7500	DN125
	8.5	123	30.90	61.80	1091	2182	26.78	53.55	945	1891	355	475		80	3700	2300	2450	7500	DN125
	10.5	152	25.75	51.50	909	1818	23.56	47.12	832	1663	355	475		80	3700	2300	2450	7500	DN125
	13	189	22.83	45.65	806	1612	21.82	43.64	770	1540	355	475		80	3700	2300	2450	7500	DN125
DVA-400W	7.5	109	34.39	68.78	1214	2429	35.39	70.77	1249	2499	400	550	Direct Driven Air Cooling W-Water Cooling	80	3700	2300	2450	8800	DN125
	8.5	123	33.48	66.95	1182	2364	35.51	69.01	1218	2437	400	550		80	3700	2300	2450	8800	DN125
	10.5	152	26.25	52.50	927	1854	24.02	48.04	848	1696	400	550		80	3700	2300	2450	8800	DN125
	13	189	23.27	46.54	822	1643	22.24	44.49	785	1571	400	550		80	3700	2300	2450	8800	DN125



State-of-the-art Screw Element

- Original DENAIR air end
- Advanced SAP profile design
- The material of the rotors is American specialty steel
- Superior Sweden SKF element bearings



Heavy-duty Oil Filter

- Heavy-duty oil filter with excellent oil purification capability ensures a clean and safe oil system
- Long service period and easy filter change reduce maintenance costs.



Energy-saving 1:1 Direct Driven design

Germany KTR brand maintenance-free coupling makes the motor drive the air end without transmission loss.



Efficient Separation System

- Reduction of pressure drops and energy costs
- Low oil consumption ensures minimal maintenance costs and long compressor lifetime
- Quality air with low oil content:
 - three step air-oil separation(centrifuge, gravity, filter)
 - oil content: less than 3 ppm by weight
 - hinged cover for easy separator element change



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

*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.

Technical parameters for EEI 1***

Model	Maximum Working Pressure		Capacity FAD*				Installed Motor Power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50Hz		60Hz						L	W	H		
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp							
DA-55+	7.5	109	11.05	390	11.76	415	55	75	Direct Driven Air Cooling W-Water Cooling	69	2200	1400	1600	1600	G2"
	8.5	123	10.82	382	11.45	404	55	75		69	2200	1400	1600	1600	G2"
	10.5	152	10.61	375	9.89	349	55	75		69	2200	1400	1600	1600	G2"
	13	189	10.50	371	9.66	341	55	75		69	2200	1400	1600	1600	G2"
DA-75+	7.5	109	14.83	524	15.02	530	75	100		69	2200	1400	1600	1700	G2"
	8.5	123	14.52	513	14.86	525	75	100		69	2200	1400	1600	1700	G2"
	10.5	152	10.82	382	11.66	412	75	100		69	2200	1400	1600	1700	G2"
	13	189	10.65	376	9.92	350	75	100		69	2200	1400	1600	1700	G2"
DA-90(W)+	7.5	109	21.00	742	20.17	712	90	120		72	2650	1800	1950	2500	DN80
	8.5	123	20.00	706	19.78	698	90	120		72	2650	1800	1950	2500	DN80
	10.5	152	17.30	611	18.90	667	90	120		72	2650	1800	1950	2500	DN80
	13	189	14.50	512	16.32	576	90	120		72	2650	1800	1950	2500	DN80
DA-110(W)+	7.5	109	24.00	847	23.31	823	110	150		75	2650	1800	1950	3500	DN80
	8.5	123	23.00	812	23.00	812	110	150		75	2650	1800	1950	3500	DN80
	10.5	152	19.70	696	20.16	712	110	150		75	2650	1800	1950	3500	DN80
	13	189	17.00	600	16.63	587	110	150		75	2650	1800	1950	3500	DN80
DA-132(W)+	7.5	109	30.00	1059	27.72	979	132	175	75	2650	1800	1950	3950	DN80	
	8.5	123	27.00	953	27.04	955	132	175	75	2650	1800	1950	3950	DN80	
	10.5	152	23.00	812	23.06	814	132	175	75	2650	1800	1950	3950	DN80	
	13	189	20.00	706	22.68	801	132	175	75	2650	1800	1950	3950	DN80	
DA-160(W)+	7.5	109	34.00	1201	32.99	1165	160	215	75	3000	1950	2050	5000	DN80	
	8.5	123	33.00	1165	32.34	1142	160	215	75	3000	1950	2050	5000	DN80	
	10.5	152	28.00	989	27.72	979	160	215	75	3000	1950	2050	5000	DN80	
	13	189	25.00	883	22.65	800	160	215	75	3000	1950	2050	5000	DN80	

*)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)
 ***) EEI 1 - Energy Efficiency Index 1, which refers to enhanced energy saving series
Specifications are subject to change without notice.

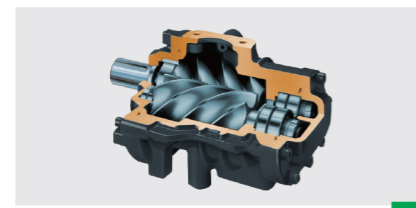
Technical parameters

Model	Maximum Working Pressure		Capacity FAD*								Installed Motor Power		Driving Model & Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter
			50Hz				60Hz								L	W	H		
	bar(e)	psig	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	kW	hp							
															m³/min	cfm	m³/min	cfm	
DVA-5	7.5	109	0.43	0.85	15	30	0.44	0.87	16	31	5.5	7.5	Belt Driven	62	900	660	960	200	G3/4"
	8.5	123	0.41	0.81	14	29	0.42	0.84	15	30	5.5	7.5		62	900	660	960	200	G3/4"
DVA-7	7.5	109	0.52	1.04	18	37	0.51	1.02	19	36	7.5	10		62	900	660	960	220	G3/4"
	8.5	123	0.49	0.98	17	34	0.50	1.00	18	35	7.5	10		62	900	660	960	220	G3/4"
	10.5	152	0.45	0.89	16	32	0.45	0.89	16	32	7.5	10		62	900	660	960	220	G3/4"
	13	189	0.36	0.72	13	25	0.37	0.74	13	26	7.5	10		62	900	660	960	220	G3/4"
DVA-11	7.5	109	0.88	1.76	32	62	0.88	1.76	31	62	11	15		62	900	660	960	280	G3/4"
	8.5	123	0.87	1.73	31	61	0.85	1.70	30	60	11	15		62	900	660	960	280	G3/4"
	10.5	152	0.69	1.37	24	48	0.68	1.37	24	48	11	15		62	900	660	960	280	G3/4"
DVA-15	7.5	109	1.27	2.53	45	89	1.21	2.43	43	86	15	20		62	900	660	960	280	G3/4"
	8.5	123	1.24	2.48	44	88	1.19	2.38	42	84	15	20		62	900	660	960	280	G3/4"
	10.5	152	1.02	2.03	36	72	1.17	2.34	41	83	15	20		62	900	660	960	280	G3/4"
	13	189	0.99	1.98	35	70	1.14	2.27	40	80	15	20		62	900	660	960	280	G3/4"
DVA-18	7.5	109	1.50	3.00	53	106	1.82	3.63	64	128	18.5	25		64	1330	840	1030	325	G1-1/4"
	8.5	123	1.47	2.94	52	104	1.77	3.54	63	125	18.5	25		64	1330	840	1030	325	G1-1/4"
	10.5	152	1.45	2.90	51	102	1.19	2.37	42	84	18.5	25		64	1330	840	1030	325	G1-1/4"
DVA-22	7.5	109	1.85	3.70	65	131	1.85	3.70	65	131	22	30	64	1330	840	1030	400	G1-1/4"	
	8.5	123	1.81	3.61	64	127	1.81	3.61	64	128	22	30	64	1330	840	1030	400	G1-1/4"	
	10.5	152	1.77	3.54	62	125	1.76	3.52	62	124	22	30	64	1330	840	1030	400	G1-1/4"	
	13	189	1.45	2.90	51	102	1.19	2.38	42	84	22	30	64	1330	840	1030	400	G1-1/4"	
DVA-30	7.5	109	2.62	5.24	93	185	2.21	4.41	78	156	30	40	66	1330	840	1030	440	G1-1/4"	
	8.5	123	2.57	5.14	91	181	2.15	4.31	76	152	30	40	66	1330	840	1030	440	G1-1/4"	
	10.5	152	2.56	5.11	90	180	1.82	3.64	64	129	30	40	66	1330	840	1030	440	G1-1/4"	
DVA-37	7.5	109	3.25	6.50	115	230	3.86	7.73	136	273	37	50	66	1330	840	1030	440	G1-1/4"	
	8.5	123	3.24	6.47	114	228	3.81	7.63	135	269	37	50	66	1330	840	1030	440	G1-1/4"	
	10.5	152	3.16	6.32	112	223	3.20	6.39	113	226	37	50	66	1330	840	1030	440	G1-1/4"	
	13	189	2.55	5.10	90	180	3.14	6.28	111	222	37	50	66	1330	840	1030	440	G1-1/4"	
DVA-45	7.5	109	3.83	7.65	135	270	3.94	7.88	139	278	45	60	66	1600	1000	1400	670	G11/2"	
	8.5	123	3.80	7.60	134	268	3.85	7.70	136	272	45	60	66	1600	1000	1400	670	G11/2"	
	10.5	152	3.28	6.57	116	232	3.59	7.18	127	254	45	60	66	1600	1000	1400	670	G11/2"	
DVA-55	7.5	109	4.90	9.80	173	346	4.60	9.20	162	325	55	75	69	1600	1000	1400	860	G11/2"	
	8.5	123	4.86	9.71	171	343	4.53	9.06	160	320	55	75	69	1600	1000	1400	860	G11/2"	
	10.5	152	4.62	9.24	163	326	3.90	7.80	138	275	55	75	69	1800	1200	1400	1350	G2"	
	13	189	3.68	7.35	130	260	3.80	7.59	134	268	55	75	69	1800	1200	1400	1350	G2"	
DVA-75	7.5	109	6.96	13.91	246	491	6.27	12.53	221	442	75	100	69	1800	1200	1400	1450	G2"	
	8.5	123	6.33	12.66	224	447	5.86	11.71	207	413	75	100	69	1800	1200	1400	1450	G2"	
	10.5	152	4.76	9.51	168	336	5.13	10.26	181	362	75	100	69	1800	1200	1400	1450	G2"	
	13	189	4.62	9.24	163	326	4.71	9.42	166	333	75	100	69	1800	1200	1400	1450	G2"	

*)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.

OIL-INJECTED ROTARY SCREW AIR COMPRESSOR(VSD)

Features and advantages



Variable Speed Drive

- Different variable speed drive brands available, such as INVT, ABB, Bosch etc.
- VSD: variable volume, controlled costs: there is no unnecessary power generated, the DENAIR DVA models can reduce energy costs by 35% or more.

Life cycle costs of the compressor can be reduced by an average of 22%.

State-of-the-art Screw Element

- Original DENAIR air end.
- Advanced SAP profile design
- The material of the rotors is American specialty steel.
- Superior Sweden SKF element bearings.

Smart Controller

- Increased reliability: durable keyboard, user-friendly, multilingual user interface.
- Improved ease of use: intuitive navigation system with main operation conditions include warning indications, maintenance scheduling etc.



Intelligent Control and Protection

- Schneider electrical elements with original package from Germany, safe and reliable.
- Reasonable, simple and clear wiring, easy for maintenance.
- Good protection function ensures the stable running of the compressor unit.

Efficient Separation System

- Reduction of pressure drops and energy costs.
- Low oil consumption ensures minimal maintenance costs and long compressor lifetime.
- Quality air with low oil content:
 - three step air-oil separation (centrifuge, gravity, filter)
 - oil content: less than 3 ppm by weight
 - hinged cover for easy separator element change

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 for EEI 1***

Model	Maximum Working Pressure		Capacity FAD*				Installed Motor Power		Cooling Method	Noise level** [dB(A)]	Dimensions (mm)			Weight kg	Air outlet pipe diameter
			50Hz		60Hz						L	W	H		
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp							
DA-185(W)+	7.5	109	40.92	1445	41.05	1450	185	250	Direct Driven Air Cooling W-water Cooling	75	3000	1950	2050	5500	DN100
	8.5	123	40.70	1437	40.96	1446	185	250		75	3000	1950	2050	5500	DN100
	10.5	151	33.22	1173	33.10	1169	185	250		75	3000	1950	2050	5500	DN100
	13	189	26.60	939	27.19	960	185	250		75	3000	1950	2050	5500	DN100
DA-200(W)+	7.5	109	43.00	1518	43.26	1528	200	270		78	3500	2200	2300	6500	DN100
	8.5	123	42.00	1483	42.33	1495	200	270		78	3500	2200	2300	6500	DN100
	10.5	151	34.00	1201	33.74	1191	200	270		78	3500	2200	2300	6500	DN100
	13	189	28.00	989	27.72	979	200	270		78	3500	2200	2300	6500	DN100
DA-220(W)+	7.5	109	49.00	1730	52.05	1838	220	300		78	3500	2200	2300	6700	DN100
	8.5	123	48.00	1695	51.95	1834	220	300		78	3500	2200	2300	6700	DN100
	10.5	151	39.00	1377	40.53	1431	220	300		78	3500	2200	2300	6700	DN100
	13	189	33.50	1183	33.40	1179	220	300		78	3500	2200	2300	6700	DN100
DA-250(W)+	7.5	109	54.00	1907	57.35	2025	250	350		78	3500	2200	2300	6800	DN100
	8.5	123	52.00	1836	56.01	1978	250	350		78	3500	2200	2300	6800	DN100
	10.5	151	43.00	1518	46.78	1652	250	350		78	3500	2200	2300	6800	DN100
	13	189	39.00	1377	40.13	1417	250	350		78	3500	2200	2300	6800	DN100
DA-280(W)+	7.5	109	56.55	1997	61.57	2174	280	375	78	4300	2400	2350	7500	DN125	
	8.5	123	55.48	1959	60.39	2131	280	375	78	4300	2400	2350	7500	DN125	
	10.5	151	47.66	1683	50.89	1797	280	375	78	4300	2400	2350	7500	DN125	
	13	189	41.99	1483	46.31	1635	280	375	78	4300	2400	2350	7500	DN125	
DA-315(W)+	7.5	109	63.91	2257	67.86	2396	315	425	80	4300	2400	2350	7800	DN125	
	8.5	123	62.70	2214	66.57	2351	315	425	80	4300	2400	2350	7800	DN125	
	10.5	151	50.99	1977	57.19	2019	315	425	80	4300	2400	2350	7800	DN125	
	13	189	42.41	1497	49.91	1762	315	425	80	4300	2400	2350	7800	DN125	
DA-355(W)+	7.5	109	74.11	2617	75.64	2671	355	475	80	4300	2400	2350	8500	DN125	
	8.5	123	73.40	2592	74.05	2615	355	475	80	4300	2400	2350	8500	DN125	
	10.5	151	63.28	2234	67.18	2372	355	475	80	4300	2400	2350	8500	DN125	
	13	189	47.66	1683	50.89	1797	355	475	80	4300	2400	2350	8500	DN125	

*)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)
 ***) EEI 1- Energy Efficiency Index 1, which refers to enhanced energy saving series
Specifications are subject to change without notice.

Technical parameters for EEI 2***

Model	Maximum Working Pressure		Capacity FAD*				Installed Motor Power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter		
			50Hz		60Hz						L	W	H				
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp									
DA-5	7.5	109	0.85	30	0.87	31	5.5	7.5	Belt Driven	62	900	660	960	180	G3/4"		
	8.5	123	0.81	29	0.84	30	5.5	7.5		62	900	660	960	180	G3/4"		
DA-7	7.5	109	1.04	37	1.02	36	7.5	10		62	900	660	960	200	G3/4"		
	8.5	123	0.98	34	1.00	35	7.5	10		62	900	660	960	200	G3/4"		
	10.5	152	0.89	32	0.89	32	7.5	10		62	900	660	960	200	G3/4"		
	13	189	0.72	25	0.74	26	7.5	10		62	900	660	960	200	G3/4"		
DA-11	7.5	109	1.76	62	1.76	62	11	15		62	900	660	960	255	G3/4"		
	8.5	123	1.73	61	1.70	60	11	15		62	900	660	960	255	G3/4"		
	10.5	152	1.37	48	1.37	48	11	15		62	900	660	960	255	G3/4"		
	13	189	1.12	40	1.12	40	11	15		62	900	660	960	255	G3/4"		
DA-15	7.5	109	2.53	89	2.43	86	15	20		Direct Driven Air Cooling	64	1330	840	1030	300	G1-1/4"	
	8.5	123	2.48	88	2.38	84	15	20			64	1330	840	1030	300	G1-1/4"	
	10.5	152	2.03	72	2.34	83	15	20			64	1330	840	1030	300	G1-1/4"	
	13	189	1.98	70	2.27	80	15	20			64	1330	840	1030	300	G1-1/4"	
DA-18	7.5	109	3.00	106	3.63	128	18.5	25	64		1330	840	1030	375	G1-1/4"		
	8.5	123	2.94	104	3.54	125	18.5	25	64		1330	840	1030	375	G1-1/4"		
	10.5	152	2.90	102	2.37	84	18.5	25	64		1330	840	1030	375	G1-1/4"		
	13	189	2.02	71	2.34	83	18.5	25	64		1330	840	1030	375	G1-1/4"		
DA-22	7.5	109	3.70	131	3.70	131	22	30	66		1330	840	1030	420	G1-1/4"		
	8.5	123	3.61	127	3.61	128	22	30	66		1330	840	1030	420	G1-1/4"		
	10.5	152	3.54	125	3.52	124	22	30	66		1330	840	1030	420	G1-1/4"		
	13	189	2.90	102	2.38	84	22	30	66		1330	840	1030	420	G1-1/4"		
DA-30	7.5	109	5.24	185	4.41	156	30	40	Direct Driven Air Cooling		66	1600	1000	1400	645	G11/2"	
	8.5	123	5.14	181	4.31	152	30	40			66	1600	1000	1400	645	G11/2"	
	10.5	152	5.11	180	3.64	129	30	40		66	1600	1000	1400	645	G11/2"		
	13	189	3.43	121	3.54	125	30	40		66	1600	1000	1400	645	G11/2"		
DA-37	7.5	109	6.50	230	7.73	273	37	50		66	1600	1000	1400	680	G11/2"		
	8.5	123	6.47	228	7.63	269	37	50		66	1600	1000	1400	680	G11/2"		
	10.5	152	6.32	223	6.39	226	37	50		66	1600	1000	1400	680	G11/2"		
	13	189	5.10	180	6.28	222	37	50		66	1600	1000	1400	680	G11/2"		
DA-45	7.5	109	7.65	270	7.88	278	45	60		Direct Driven Air Cooling	69	1600	1000	1400	840	G11/2"	
	8.5	123	7.60	268	7.70	272	45	60			69	1600	1000	1400	840	G11/2"	
	10.5	152	6.57	232	7.18	254	45	60			69	1600	1000	1400	840	G11/2"	
	13	189	6.39	226	6.34	224	45	60			69	1600	1000	1400	840	G11/2"	
DA-55	7.5	109	9.80	346	9.20	325	55	75			Direct Driven Air Cooling	69	1800	1200	1400	1250	G2"
	8.5	123	9.71	343	9.06	320	55	75				69	1800	1200	1400	1250	G2"
	10.5	152	9.24	326	7.80	275	55	75	69			1800	1200	1400	1250	G2"	
	13	189	7.35	260	7.59	268	55	75	69			1800	1200	1400	1250	G2"	
DA-75	7.5	109	13.91	491	12.53	442	75	100	Direct Driven Air Cooling			69	1800	1200	1400	1350	G2"
	8.5	123	12.66	447	11.71	413	75	100				69	1800	1200	1400	1350	G2"
	10.5	152	9.51	336	10.26	362	75	100				69	1800	1200	1400	1350	G2"
	13	189	9.24	326	9.42	333	75	100				69	1800	1200	1400	1350	G2"

*)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)
 ***) EEI 1 - Energy Efficiency Index 1, which refers to enhanced energy saving series

Specifications are subject to change without notice.

Technical parameters for EEI 2***

Model	Maximum Working Pressure		Capacity FAD*				Installed Motor Power		Cooling Method	Noise level** [dB(A)]	Dimensions(mm)			Weight kg	Air outlet pipe diameter			
			50Hz		60Hz						L	W	H					
	bar(e)	psig	m³/min	cfm	m³/min	cfm	kW	hp										
DA-90(W)	7.5	109	16.90	597	16.91	597	90	120	Direct Driven Air Cooling W-water Cooling	72	2450	1800	1700	2100	DN80			
	8.5	123	16.70	590	16.80	593	90	120		72	2450	1800	1700	2100	DN80			
	10.5	152	14.50	512	14.76	521	90	120		72	2450	1800	1700	2100	DN80			
	13	189	12.50	441	11.42	403	90	120		72	2450	1800	1700	2100	DN80			
DA-110(W)	7.5	109	20.80	734	20.06	708	110	150		75	2450	1800	1700	2500	DN80			
	8.5	123	20.00	706	19.98	706	110	150		75	2450	1800	1700	2500	DN80			
	10.5	152	17.50	618	16.80	593	110	150		75	2450	1800	1700	2500	DN80			
DA-132(W)	7.5	109	23.50	830	24.43	863	132	175		75	2450	1800	1700	2600	DN80			
	8.5	123	23.20	819	23.83	842	132	175		75	2450	1800	1700	2600	DN80			
	10.5	152	19.83	700	19.79	699	132	175		75	2450	1800	1700	2600	DN80			
DA-160(W)	7.5	109	28.00	989	27.99	988	160	215		75	2650	1700	1760	3150	DN80			
	8.5	123	27.00	953	27.32	965	160	215		75	2650	1700	1760	3150	DN80			
	10.5	152	24.00	847	24.03	849	160	215		75	2650	1700	1760	3150	DN80			
DA-185(W)	7.5	109	30.20	1066	30.45	1075	185	250		75	2650	1700	1760	3550	DN80			
	8.5	123	30.14	1064	30.06	1061	185	250	75	2650	1700	1760	3550	DN80				
	10.5	152	26.24	927	27.54	972	185	250	75	2650	1700	1760	3550	DN80				
DA-200(W)	7.5	109	35.00	1236	31.03	1096	200	270	Direct Driven Air Cooling W-water Cooling	78	3000	1950	2050	4200	DN100			
	8.5	123	34.00	1201	30.35	1071	200	270		78	3000	1950	2050	4200	DN100			
	10.5	152	30.00	1059	29.69	1048	200	270		78	3000	1950	2050	4200	DN100			
13	189	26.00	918	26.97	952	200	270	78		3000	1950	2050	4200	DN100				
DA-220(W)	7.5	109	36.50	1289	37.68	1331	220	300		78	3000	1950	2050	4300	DN100			
	8.5	123	36.00	1271	33.24	1174	220	300		78	3000	1950	2050	4300	DN100			
	10.5	152	31.63	1117	33.16	1171	220	300		78	3000	1950	2050	4300	DN100			
	13	189	28.55	1008	26.97	952	220	300		78	3000	1950	2050	4300	DN100			
DA-250(W)	7.5	109	45.30	1600	42.99	1518	250	350		Direct Driven Air Cooling W-water Cooling	78	3000	1950	2050	4400	DN125		
	8.5	123	43.00	1518	42.17	1489	250	350			78	3000	1950	2050	4400	DN125		
	10.5	152	37.00	1306	33.50	1183	250	350			78	3000	1950	2050	4400	DN125		
	13	189	32.50	1148	32.74	1156	250	350			78	3000	1950	2050	4400	DN125		
DA-280(W)	7.5	109	46.47	1641	47.16	1665	280	375			Direct Driven Air Cooling W-water Cooling	78	3700	2300	2450	4600	DN125	
	8.5	123	45.53	1608	45.64	1612	280	375				78	3700	2300	2450	4600	DN125	
	10.5	152	40.89	1444	41.03	1449	280	375	78			3700	2300	2450	4600	DN125		
	13	189	35.81	1264	36.75	1298	280	375	78			3700	2300	2450	4600	DN125		
DA-315(W)	7.5	109	53.03	1872	50.88	1797	315	425	Direct Driven Air Cooling W-water Cooling			80	3700	2300	2450	6700	DN125	
	8.5	123	52.50	1854	48.52	1713	315	425				80	3700	2300	2450	6700	DN125	
	10.5	152	46.69	1649	45.51	1607	315	425				80	3700	2300	2450	6700	DN125	
	13	189	42.82	1512	40.86	1443	315	425				80	3700	2300	2450	6700	DN125	
DA-355W	7.5	109	63.21	2232	54.57	1927	355	475				Direct Driven Air Cooling W-water Cooling	80	3700	2300	2450	7200	DN125
	8.5	123	61.80	2														