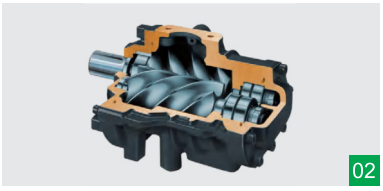
OIL-INJECTED ROTARY SCREW AIR COMPRESSOR(VSD)

Features and advantages

Variable Speed Drive

- Different variable speed drive brands available, such as INVT, ABB, 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℃=752℉) and low temperature resistant(-270℃=-518℉), high pressure resistant.
- Ultra-long life(80 years), completely leak free and maintenance free.

DENAIR®

Technical parameters

Model	Maximum Working Pressure		Capacity FAD*								Installed Motor Power		Driving Model & Cooling Method	Noise level**	Dimensions(mm)			Weight	Air outlet pipe diameter
			50Hz				60Hz												
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.									
	bar(g)	psig	m^3/min		cfm		m^3/min		cfm		kW	hp		[dB(A)]	L	W	H	kg	
DVA-5	7.5	109	0.40	0.80	14	28	0.40	0.80	14	28	5.5	7.5	Belt Driven	62	900	600	860	315	G1/2"
	8.5	123	0.39	0.78	14	28	0.39	0.78	14	28	5.5	7.5		62	900	600	860	315	G1/2"
DVA-7	7.5	109	0.55	1.09	19	39	0.55	1.09	19	39	7.5	10		62	900	600	860	315	G1/2"
	8.5	123	0.54	1.07	19	38	0.54	1.07	19	38	7.5	10		62	900	600	860	315	G1/2"
	10.5	152	0.46	0.92	16	32	0.46	0.91	16	32	7.5	10		62	900	600	860	315	G1/2"
	13.0	189	0.36	0.73	13	26	0.36	0.72	13	26	7.5	10		62	900	600	860	315	G1/2"
DVA-11	7.5	109	0.83	1.66	29	59	0.83	1.66	29	59	11	15		62	1050	650	900	410	G3/4"
	8.5	123	0.82	1.64	29	58	0.82	1.64	29	58	11	15		62	1050	650	900	410	G3/4"
	10.5	152	0.73	1.45	26	51	0.72	1.45	26	51	11	15		62	1050	650	900	410	G3/4"
	13.0	189	0.56	1.13	20	40	0.56	1.12	20	40	11	15		62	1050	650	900	410	G3/4"
DVA-15	7.5	109	1.27	2.54	45	90	1.27	2.53	45	89	15	20	Direct Driven Air Cooling	64	1100	650	920	453	G3/4"
	8.5	123	1.25	2.51	44	88	1.25	2.50	44	88	15	20		64	1100	650	920	453	G3/4"
	10.5	152	0.98	1.97	35	70	0.93	1.86	33	66	15	20		64	1100	650	920	453	G3/4"
	13.0	189	0.95	1.91	34	67	0.91	1.83	32	65	15	20		64	1100	650	920	453	G3/4"
DVA-18	7.5	109	1.52	3.04	54	107	1.82	3.63	64	128	18.5	25		64	1300	800	1050	485	G1"
	8.5	123	1.52	3.03	54	107	1.77	3.54	63	125	18.5	25		64	1300	800	1050	485	G1"
	10.5	152	1.50	3.00	53	106	1.19	2.37	42	84	18.5	25		64	1300	800	1050	485	G1"
	13.0	189	0.95	1.91	34	67	1.17	2.34	41	83	18.5	25		64	1300	800	1050	485	G1"
DVA-22	7.5	109	1.78	3.57	63	126	1.85	3.70	65	131	22	30		66	1300	800	1050	510	G1"
	8.5	123	1.77	3.55	63	125	1.81	3.61	64	128	22	30		66	1300	800	1050	510	G1"
	10.5	152	1.50	3.00	53	106	1.76	3.52	62	124	22	30		66	1300	800	1050	510	G1"
	13.0	189	1.48	2.97	52	105	1.19	2.38	42	84	22	30		66	1300	800	1050	510	G1"
DVA-30	7.5	109	2.64	5.28	93	187	2.25	4.49	79	159	30	40		66	1400	900	1200	682	G1-1/2"
	8.5	123	2.63	5.26	93	186	2.24	4.48	79	158	30	40		66	1400	900	1200	682	G1-1/2"
	10.5	152	2.61	5.21	92	184	2.24	4.47	79	158	30	40		66	1400	900	1200	682	G1-1/2"
	13.0	189	1.73	3.45	61	122	1.79	3.58	63	126	30	40		66	1400	900	1200	682	G1-1/2"
DVA-37	7.5	109	3.27	6.54	115	231	3.17	6.33	112	224	37	50		66	1400	900	1200	700	G1-1/2"
	8.5	123	3.26	6.52	115	230	3.15	6.30	111	222	37	50		66	1400	900	1200	700	G1-1/2"
	10.5	152	2.61	5.21	92	184	3.00	6.00	106	212	37	50		66	1400	900	1200	700	G1-1/2"
	13.0	189	2.58	5.16	91	182	2.22	4.43	78	156	37	50		66	1400	900	1200	700	G1-1/2"
DVA-45	7.5	109	3.84	7.67	135	271	3.90	7.79	138	275	45	60		69	1500	960	1200	729	G1-1/2"
	8.5	123	3.81	7.62	135	269	3.88	7.76	137	274	45	60		69	1500	960	1200	729	G1-1/2"
	10.5	152	3.23	6.46	114	228	3.12	6.24	110	220	45	60		69	1500	960	1200	729	G1-1/2"
	13.0	189	3.21	6.41	113	226	2.60	5.20	92	184	45	60		69	1500	960	1200	729	G1-1/2"
DVA-55	7.5	109	5.25	10.50	186	371	4.57	9.14	161	323	55	75		69	1800	1200	1400	1310	G2"
	8.5	123	5.00	10.00	177	353	4.53	9.06	160	320	55	75		69	1800	1200	1400	1310	G2"
	10.5	152	3.76	7.53	133	266	3.87	7.74	137	273	55	75		69	1800	1200	1400	1310	G2"
	13.0	189	3.70	7.40	131	261	3.15	6.30	111	222	55	75		69	1800	1200	1400	1310	G2"
DVA-75	7.5	109	7.11	14.21	251	502	5.86	11.72	207	414	75	100		69	1800	1200	1400	1325	G2"
	8.5	123	6.50	13.00	230	459	5.82	11.63	205	411	75	100		69	1800	1200	1400	1325	G2"
	10.5	152	5.00	10.00	177	353	5.72	11.43	202	404	75	100		69	1800	1200	1400	1325	G2"
	13.0	189	4.62	9.23	163	326	4.37	8.75	154	309	75	100		69	1800	1200	1400	1325	G2"

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

**) 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.