DENAIR®

Oil-injected

Rotary Screw Air Compressors

High pressure, and laser cutting series

Installed motor power: 11 - 280 kW/15 - 375 hp
Free air delivery: 1.05-36.67 m³/min, Pressure 13-40 bar

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LASER CUTTING AIR COMPRESSOR

Technical parameters

Model	Working Pressure (bar)	Capacity FAD*		Power		IP Grade	Noise Level**	Dimensions (mm)			Weight (kg)	Air Outlet Pipe Diameter	Starting Method	EEI
		(m^3/min)	(cfm)	(kW)	(hp)			(L)	(W)	(H)				
DAV-11LG	13.0	1.18	42	11	15	IP65	75	1700	1500	1800	480	R1	Direct Driven Air Cooling	EEI1
	15.5	1.05	37											
DAV-15LG	13.0	1.95	69	15	20	IP65	75	2150	1500	2350	500	R1		
	15.5	1.68	59											
DAV-18LG	13.0	2.21	78	18.5	25	IP65	75	2150	1500	2350	530	R1		
	15.5	2.11	75											
DAV-22LG	13.0	2.95	104	22	30	IP65	75	2150	1500	2350	560	R1		
	15.5	2.53	89											

*)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.

HIGH PRESSURE ROTARY SCREW COMPRESSOR(VSD)

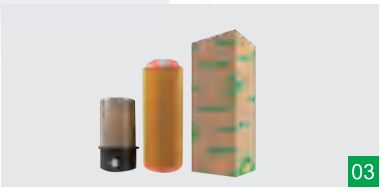
Features and advantages

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.
- Two-stage independent compression, low-speed design, lower overall noise.

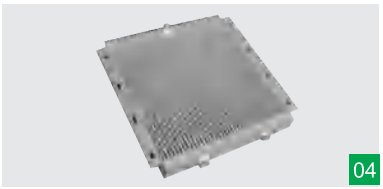
Premium Efficiency Drive Motor

- 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 ℉)



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℃=752 ℉) and low temperature resistant(- 270℃= - 518 ℉), 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.

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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.	Max.									
	bar(g)	psig	m^3/min		cfm		m^3/min		cfm		kW	hp		[dB(A)]	L	W	H	kg	
DVAH-55	14	203	3.76	6.27	133	222	3.65	6.09	129	215	55	75		76	2000	1450	1730	2000	DN40
	15	218	3.75	6.25	133	221	3.64	6.07	129	214	55	75		76	2000	1450	1730	2000	DN40
	16	232	3.74	6.23	132	220	3.63	6.05	128	214	55	75		76	2000	1450	1730	2000	DN40
	18	261	4.00	6.67	142	236	3.90	6.50	138	230	55	75		76	2000	1450	1730	2000	DN40
	20	290	3.20	5.34	113	189	3.84	6.40	136	226	55	75		76	2000	1450	1730	2000	DN40
	25	363	3.08	5.13	109	181	2.97	4.95	105	175	55	75		76	2000	1450	1730	2000	DN40
	30	435	2.27	3.79	80	134	2.79	4.65	98	164	55	75		76	2000	1450	1730	2000	DN40
	35	508	2.03	3.38	72	119	2.54	4.23	90	150	55	75		76	2000	1450	1730	2000	DN40
	40	580	1.72	2.86	61	101	2.23	3.72	79	131	55	75		76	2000	1450	1730	2000	DN40
DVAH-75	14	203	5.36	8.93	189	316	5.10	8.51	180	301	75	100		76	2000	1450	1730	2210	DN40
	15	218	4.28	7.13	151	252	5.07	8.46	179	299	75	100		76	2000	1450	1730	2210	DN40
	16	232	4.25	7.08	150	250	5.04	8.40	178	297	75	100		76	2000	1450	1730	2210	DN40
	18	261	4.52	7.53	160	266	4.79	7.98	169	282	75	100		76	2000	1450	1730	2210	DN40
	20	290	4.46	7.43	157	262	4.73	7.88	167	278	75	100		76	2000	1450	1730	2210	DN40
	25	363	4.33	7.22	153	255	4.60	7.67	163	271	75	100		76	2000	1450	1730	2210	DN40
	30	435	3.63	6.06	128	214	3.53	5.88	125	208	75	100		76	2000	1450	1730	2210	DN40
	35	508	3.39	5.64	120	199	3.28	5.47	116	193	75	100		76	2000	1450	1730	2210	DN40
	40	580	3.08	5.13	109	181	2.97	4.95	105	175	75	100		76	2000	1450	1730	2210	DN40
DVAH-90	14	203	6.33	10.55	224	373	6.59	10.98	233	388	90	120	Direct Driven Air Cooling W-Water Cooling	78	2800	1600	1700	2500	DN50
	15	218	5.87	9.79	207	346	6.54	10.90	231	385	90	120		78	2800	1600	1700	2500	DN50
	16	232	5.43	9.04	192	320	6.49	10.82	229	382	90	120		78	2800	1600	1700	2500	DN50
	18	261	6.55	10.92	232	386	N/A	N/A	N/A	N/A	90	120		78	2800	1600	1700	2500	DN50
	20	290	6.49	10.82	229	382	N/A	N/A	N/A	N/A	90	120		78	2800	1600	1700	2500	DN50
	25	363	6.37	10.61	225	375	6.37	10.61	225	375	90	120		78	2800	1600	1700	2500	DN50
	30	435	4.15	6.91	147	244	N/A	N/A	N/A	N/A	90	120		78	2800	1600	1700	2500	DN50
	35	508	3.90	6.50	138	230	N/A	N/A	N/A	N/A	90	120		78	2800	1600	1700	2500	DN50
	40	580	3.59	5.98	127	211	N/A	N/A	N/A	N/A	90	120		78	2800	1600	1700	2500	DN50
DVAH-110	14	203	7.17	11.95	253	422	8.57	14.28	303	505	110	150		78	2800	1600	1700	3200	DN50
	15	218	7.16	11.94	253	422	7.58	12.64	268	447	110	150		78	2800	1600	1700	3200	DN50
	16	232	6.32	10.53	223	372	7.03	11.71	248	414	110	150		78	2800	1600	1700	3200	DN50
	18	261	7.89	13.15	279	465	7.85	13.08	277	462	110	150		78	2800	1600	1700	3200	DN50
	20	290	7.83	13.05	277	461	7.79	12.98	275	459	110	150		78	2800	1600	1700	3200	DN50
	25	363	6.37	10.61	225	375	7.66	12.77	271	451	110	150		78	2800	1600	1700	3200	DN50
	30	435	6.18	10.30	218	364	N/A	N/A	N/A	N/A	110	150		78	2800	1600	1700	3200	DN50
	35	508	5.93	9.89	210	349	N/A	N/A	N/A	N/A	110	150		78	2800	1600	1700	3200	DN50
	40	580	5.62	9.37	199	331	N/A	N/A	N/A	N/A	110	150		78	2800	1600	1700	3200	DN50
DVAH-132	14	203	9.04	15.07	320	533	9.34	15.56	330	550	132	175		78	2800	1600	1700	3950	DN50
	15	218	8.44	14.07	298	497	8.52	14.19	301	502	132	175		78	2800	1600	1700	3950	DN50
	16	232	7.85	13.08	277	462	8.45	14.09	299	498	132	175		78	2800	1600	1700	3950	DN50
	18	261	10.03	16.72	355	591	7.81	13.01	276	460	132	175		78	2800	1600	1700	3950	DN50
	20	290	9.97	16.62	352	587	7.23	12.05	256	426	132	175		78	2800	1600	1700	3950	DN50
	25	363	8.27	13.78	292	487	8.90	14.83	314	524	132	175		78	2800	1600	1700	3950	DN50
	30	435	7.52	12.54	266	443	7.48	12.46	264	440	132	175		78	2800	1600	1700	3950	DN50
	35	508	7.27	12.12	257	428	7.23	12.05	256	426	132	175		78	2800	1600	1700	3950	DN50
	40	580	6.96	11.61	246	410	6.92	11.54	245	408	132	175		78	2800	1600	1700	3950	DN50

*)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.

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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.	Max.									
	bar(g)	psig	m^3/min		cfm		m^3/min		cfm		kW	hp		[dB(A)]	L	W	H	kg	
DVAH-160	14	203	9.66	16.10	341	569	10.23	17.06	362	603	160	215		80	2800	1600	2000	5000	DN65
	15	218	9.63	16.05	340	567	9.42	15.70	333	555	160	215		80	2800	1600	2000	5000	DN65
	16	232	9.06	15.10	320	534	8.58	14.31	303	506	160	215		80	2800	1600	2000	5000	DN65
	18	261	12.27	20.45	434	723	12.03	20.04	425	708	160	215		80	2800	1600	2000	5000	DN65
	20	290	11.08	18.46	391	652	11.96	19.94	423	705	160	215		80	2800	1600	2000	5000	DN65
	25	363	9.84	16.41	348	580	9.95	16.58	352	586	160	215		80	2800	1600	2000	5000	DN65
	30	435	8.09	13.48	286	476	9.08	15.14	321	535	160	215		80	2800	1600	2000	5000	DN65
	35	508	7.84	13.06	277	462	8.84	14.73	312	521	160	215		80	2800	1600	2000	5000	DN65
	40	580	7.53	12.55	266	443	8.16	13.60	288	480	160	215		80	2800	1600	2000	5000	DN65
DVAH-185	14	203	11.38	18.96	402	670	11.59	19.32	410	683	185	250		80	2800	1600	2000	5500	DN65
	15	218	10.54	17.56	372	621	10.85	18.09	384	639	185	250		80	2800	1600	2000	5500	DN65
	16	232	9.61	16.02	340	566	10.02	16.70	354	590	185	250		80	2800	1600	2000	5500	DN65
	18	261	12.80	21.34	453	754	13.35	22.26	472	787	185	250		80	2800	1600	2000	5500	DN65
	20	290	12.21	20.34	431	719	13.29	22.16	470	783	185	250		80	2800	1600	2000	5500	DN65
	25	363	10.27	17.12	363	605	11.84	19.73	418	697	185	250		80	2800	1600	2000	5500	DN65
	30	435	10.39	17.32	367	612	9.76	16.27	345	575	185	250		80	2800	1600	2000	5500	DN65
	35	508	10.27	17.12	363	605	9.52	15.86	336	561	185	250		80	2800	1600	2000	5500	DN65
	40	580	10.15	16.91	359	598	8.16	13.60	288	480	185	250		80	2800	1600	2000	5500	DN65
DVAH-200	14	203	14.49	24.14	512	853	13.86	23.09	490	816	200	270	Direct Driven Air Cooling W-Water Cooling	85	3300	2000	2100	6000	DN80
	15	218	12.82	21.36	453	755	13.81	23.02	488	814	200	270		85	3300	2000	2100	6000	DN80
	16	232	12.74	21.24	450	751	13.79	22.98	487	812	200	270		85	3300	2000	2100	6000	DN80
	18	261	15.62	26.04	552	920	14.71	24.51	520	866	200	270		85	3300	2000	2100	6000	DN80
	20	290	14.24	23.73	503	839	13.29	22.16	470	783	200	270		85	3300	2000	2100	6000	DN80
	25	363	12.97	21.62	458	764	13.17	21.95	465	776	200	270		85	3300	2000	2100	6000	DN80
DVAH-220	14	203	15.83	26.39	560	933	15.79	26.32	558	930	220	300		85	3300	2000	2100	6300	DN80
	15	218	14.81	24.69	524	873	15.62	26.03	552	920	220	300		85	3300	2000	2100	6300	DN80
	16	232	14.31	23.84	506	843	14.52	24.21	513	855	220	300		85	3300	2000	2100	6300	DN80
	18	261	17.80	29.66	629	1048	17.58	29.30	621	1036	220	300		85	3300	2000	2100	6300	DN80
	20	290	15.49	25.82	548	913	14.65	24.41	518	863	220	300		85	3300	2000	2100	6300	DN80
	25	363	14.10	23.49	498	830	14.52	24.21	513	855	220	300		85	3300	2000	2100	6300	DN80
DVAH-250W	14	203	18.47	30.78	653	1088	17.47	29.12	617	1029	250	350		85	3500	2200	2100	6500	DN125
	15	218	17.32	28.87	612	1020	17.40	28.99	615	1025	250	350		85	3500	2200	2100	6500	DN125
	16	232	16.97	28.28	600	1000	17.32	28.87	612	1020	250	350		85	3500	2200	2100	6500	DN125
	18	261	17.80	29.66	629	1048	18.24	30.40	645	1074	250	350		85	3500	2200	2100	6500	DN125
	20	290	17.71	29.52	626	1043	17.52	29.20	619	1032	250	350		85	3500	2200	2100	6500	DN125
	25	363	15.34	25.56	542	903	17.40	28.99	615	1025	250	350		85	3500	2200	2100	6500	DN125
DVAH-280W	14	203	19.92	33.20	704	1173	18.56	30.94	656	1093	280	375		85	3500	2200	2100	7000	DN125
	15	218	18.46	30.77	652	1087	18.53	30.89	655	1092	280	375		85	3500	2200	2100	7000	DN125
	16	232	18.42	30.70	651	1085	18.26	30.44	645	1076	280	375		85	3500	2200	2100	7000	DN125
	18	261	22.00	36.67	778	1296	21.75	36.26	769	1281	280	375		85	3500	2200	2100	7000	DN125
	20	290	21.78	36.30	770	1283	21.69	36.15	767	1278	280	375		85	3500	2200	2100	7000	DN125
	25	363	18.16	30.26	642	1069	17.30	28.83	611	1019	280	375		85	3500	2200	2100	7000	DN125

*)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.

P-DNR202506-01 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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