

Marine Air Compressors & N₂ Generators

Almost 100 years of Excellence



Deno Compressors

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Introduction

Deno Compressors B.V. is a manufacturer of air compressors and a specialist in the field of marine applications for compressed air systems.

Deno Compressors have been designed and constructed since 1918 and thousands of compressor systems have been installed since then.

An adequate stock of all components is maintained for all types, at all times.

The price level of spare parts compares excellently with other manufacturers.

Deno starting air compressors have type approval of major classification societies. Inspection certificates for individual compressors are issued upon request.

Deno Compressors systems can be delivered custom made as a package creating an opportunity for saving space, time and installation costs.



Deno delivery program



Piston type starting air compressors

Air- or water-cooled with a working pressure up to 40 bar and capacities up to 410 Nm³/hr.

Screw type compressors

Air- or water-cooled, belt or direct driven with a working pressure up to 13 bar and capacities up to 3900 Nm³/hr.

Emergency Starting air compressors

Diesel and manually driven starting air compressors

Breathing air compressors

Portable and stationed units, air quality according to EN12021 and according to IMO and Solas requirements.

Turn key compressor modules

Skid built units, completely prepared for quick installation and start up. Standard units, as well as custom built units available.

Nitrogen Generators

Capacity from 100Nm³/hr. up to 1600 Nm³/hr. Purity 95% and 98%.

Deno air auxiliaries

- Control cabinets
- Air receivers
- Air reducer panels
- Air dryers
- Filters
- Drain and separator systems



Deno Emergency starting air compressors

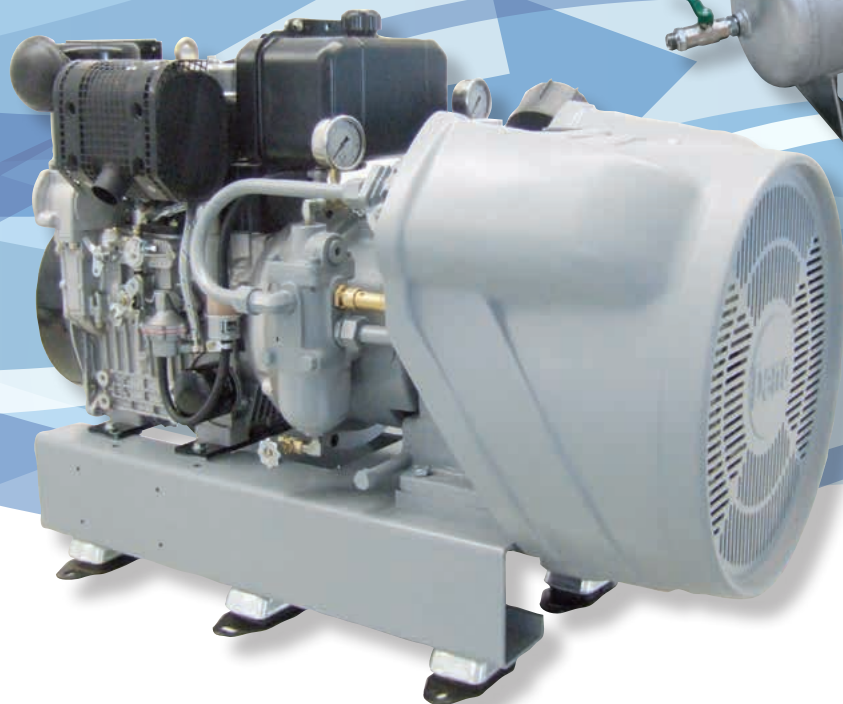


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Emergency starting air compressors

Deno compressors has developed a range of emergency starting air compressors that can provide starting air upto 40bar without the use of any electrical power source.

This range contains a manually operated starting air compressor which is optionally delivered ontop of a 30ltr air receiver and a series of diesel driven starting compressors.



- Completely independent starting air system
- Max pressure 40bar
- Capacity is free air delivery at 30bar (F.A.D.)
- Max ambient temperature 55°C
- Manually or battery started
- Optionally; Fully automatic start/stop

Model	Qty Cyl./ Stage	Drive type	Capacity F.A.D. with 60 strokes per minute		Air receiver		Lenght mm	Width mm	Height mm	Weight kg
			Nm ³ /hr	Ltr/min	Volume	Pressure				
					Ltr	Bar				
T8	2/2	Manual	1,8	30	Without		500	200	1200	25
T8-30	2/2	Manual	1,8	30	30	30	800	300	1650	65

Model	Qty Cyl./ Stage	Diesel motor Brand /Type	1150 rpm		1750 rpm		Lenght mm	Width mm	Height mm	Weight kg
			Capacity F.A.D. Nm ³ /hr	Motor power Kw	Capacity F.A.D. Nm ³ /hr	Motor power Kw				
L2-15HD	2/2	Hatz / 1D81	12	4,5	18	6,6	1200	575	870	325
L2-25HD	2/2	Hatz / 1D81	20	4,5	30	6,6	1200	575	870	335
L2-35HD	2/2	Hatz / 2M41	28	14,8	42	17,8	1450	675	950	550
L3-56HD	3/2	Hatz / 2M41	47	14,8	70	17,8	1600	675	950	650

Rated details at 30bar. Nominal conditions, 20°C, 1013mbar

Deno air-cooled starting air compressors

Air-Cooled compressors

The DENO L2, L3 & L4 series are multi stage, direct driven, piston type starting air compressors. The compressors can be delivered as loose units as well as completely assembled starting air skids for easy installation and direct start-up. The compressors operation is fully automatic and complies to the rules and regulations of all major classification societies.



- Max pressure 40bar
- Capacity is free air delivery at 30bar (F.A.D.)
- Max ambient temperature 55°C
- Standard voltage 380~415V/3Ph/50Hz - 440~480V/3Ph/60Hz
- Non standard voltages and pressure upon request

Model	Qty Cyl. / Stage	50 Hz				60 Hz			
		950 rpm		1450 rpm		1150 rpm		1750 rpm	
		Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw
L2-15	2/2	10	1,9	15	3,0	12	2,4	18	3,6
L2-25	2/2	16	3,3	25	5,2	20	4,2	30	6,1
L2-28	2/2	20	3,9	30	6,2	22	4,9	36	7,5
L2-35	2/2	23	4,9	35	7,2	28	5,9	42	8,3
L3-48	3/2	33	6,4	50	9,8	40	8,0	60	11,8
L3-56	3/2	39	7,6	60	11,8	47	9,2	70	13,9
L3-75	3/3	50	8,6	75	13,2	60	10,2	N/A	N/A
L3-100	3/3	66	11,1	100	17,0	85	16,5	N/A	N/A
L4-150	4/3	100	19,5	150	29,0	120	24,0	N/A	N/A
L4-200	4/3	131	26,0	200	38,5	160	31,0	N/A	N/A

Rated details at 30bar. nominal conditions, 20°C, 1013mbar

Deno water-cooled starting air compressors



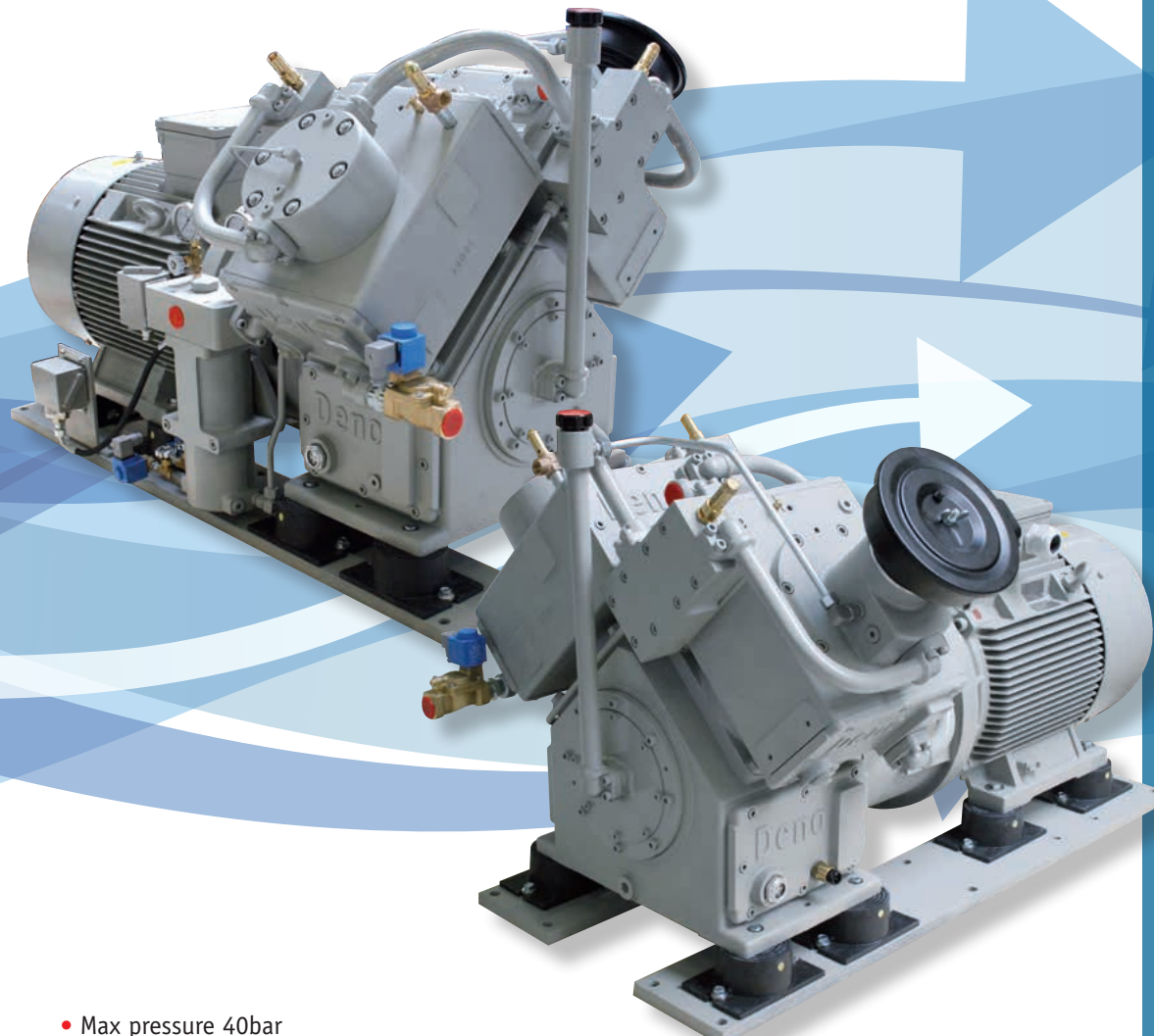
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Water-Cooled compressors

The DENO 2K, 3K & 4K series are multi stage, direct driven, piston type starting air compressors.

The compressors can be delivered as loose units as well as completely assembled starting air skids for easy installation and direct start-up.

The compressors operation is fully automatic and complies to the rules and regulations of all major classification societies.



- Max pressure 40bar
- Capacity is free air delivery at 30bar (F.A.D.)
- Max ambient temperature 55°C
- Suitable for fresh & sea water cooling, max 40°C
- Standard voltage 380~415V/3Ph/50Hz - 440~480V/3Ph/60Hz
- Non standard voltages and pressure upon request

		50 Hz				60 Hz			
Model	Qty Cyl. / Stage	950 rpm		1450 rpm		1150 rpm		1750 rpm	
		Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw	Capacity F.A.D. Nm ³ /hr	Required power Kw
2K25	2/2	16	3,3	25	5,2	20	4,2	30	6,1
2K35	2/2	23	4,9	35	7,2	28	5,7	42	8,3
3K48	3/2	33	6,4	50	9,8	40	7,8	60	11,8
3K56	3/2	39	7,6	60	11,8	48	9,4	72	14,2
2K95	2/2	61	10,6	93	16,2	74	12,9	112	19,6
2K125	2/2	82	14,3	125	21,8	99	17,3	151	26,3
2K155	2/2	102	18,4	155	28,0	123	22,2	187	33,8
2K170	2/2	111	20,9	170	31,9	135	25,3	205	38,5
4K215	4/2	141	27,3	215	41,7	171	33,1	259	50,3
4K245	4/2	161	31,1	245	47,5	194	37,7	296	57,3
4K340	4/2	223	43,2	340	65,9	270	52,3	410	79,5

Rated details at 30bar, nominal conditions, 20°C, 1013mbar



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Belt driven 3 upto 65 Kw

The DENO DSA series 3 upto 65Kw are belt driven, rotary screw compressors. The compressors are delivered with sound reducing enclosure with quick release panels for easy check & maintenance. The compressors operation is fully automatic by use of a sophisticated and user friendly PLC panel.

Deno rotary screw compressors



- Capacity is free air delivery (F.A.D.)
- Max. ambient temperature 55°C
- Standard air cooled. Optionally fresh & sea water cooled
- Standard voltage 380~415V/3Ph/50Hz - 440~480V/3Ph/60Hz
- Non standard voltages and pressure upon request

Model	Pressure Bar	50 Hz			60 Hz			Lenght mm	Width mm	Height mm	Weight kg
		Capacity F.A.D.		Motor power Kw	Capacity F.A.D.		Motor power Kw				
		Nm³/min	Nm³/hr		Nm³/min	Nm³/hr					
DSA3	8	0,47	28	3,0	0,53	32	3,5	810	790	1110	245
	10	0,43	26		0,49	29					
	13	0,38	23		0,43	26					
DSA4	8	0,65	39	4,0	0,74	44	4,7	810	790	1110	260
	10	0,58	35		0,66	40					
	13	0,45	27		0,51	31					
DSA5	8	0,79	47	5,5	0,90	54	6,4	810	790	1110	270
	10	0,70	42		0,80	48					
	13	0,55	33		0,63	38					
DSA7	8	1,20	72	7,5	1,37	82	8,8	810	790	1110	280
	10	1,00	60		1,14	68					
	13	0,80	48		0,91	55					
DSA11	8	1,70	102	11,0	1,93	116	12,9	810	790	1110	320
	10	1,50	90		1,71	102					
	13	1,30	78		1,48	89					
DSA15	8	2,20	132	15,0	2,50	140	17,6	810	790	1110	340
	10	2,00	120		2,28	137					
	13	1,70	102		1,93	116					
DSA18	8	3,10	186	18,5	3,53	212	21,7	1100	750	1570	480
	10	2,70	162		3,07	184					
	13	2,10	126		2,39	143					
DSA22	8	3,60	216	22,0	4,10	246	25,8	1100	750	1570	510
	10	3,20	192		3,64	218					
	13	2,70	162		3,07	184					
DSA30	8	4,70	282	30,0	5,35	321	35,2	1100	1270	1570	780
	10	4,40	264		5,01	300					
	13	3,80	228		4,32	259					
DSA37	8	5,70	342	37,0	6,49	389	43,4	1100	1270	1570	810
	10	5,20	312		5,92	355					
	13	4,30	258		4,89	294					
DSA45	8	7,30	438	45,0	8,31	498	52,8	1450	1160	1605	1100
	10	6,30	378		7,17	430					
	13	5,60	336		6,37	382					
DSA55	8	8,30	498	55,0	9,44	567	65,0	1450	1160	1605	1140
	10	7,70	462		8,76	526					
	13	6,50	390		7,40	444					

Rated details at nominal conditions, 20°C, 1013mbar

Deno rotary screw compressors



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Direct driven 45 upto 363 Kw

The DENO DSD series 45 upto 363Kw are direct driven, rotary screw compressors. The compressors can be delivered as standard units or as custom build packages with integrated water separators, filters and dryers, minimizing installation space. The compressors operation is fully automatic by use of a sophisticated and user friendly PLC panel.



- Capacity is free air delivery (F.A.D.)
- Max. ambient temperature 55°C
- Standard fresh & sea water cooled. Optionally air cooled
- Standard voltage 380~415V/3Ph/50Hz - 440~480V/3Ph/60Hz
- Non-standard voltages and pressure upon request

Model	Pressure Bar	50 Hz			60 Hz			Length mm	Width mm	Height mm	Weight kg
		Capacity F.A.D.		Motor power Kw	Capacity F.A.D.		Motor power Kw				
		Nm ³ /min	Nm ³ /hr		Nm ³ /min	Nm ³ /hr					
DSD45	8	7,30	438	45	8,31	498	53	2350	1150	1650	1550
	10	6,30	378		7,17	430					
	13	5,60	336		6,37	382					
DSD55	8	8,30	498	55	9,44	567	65	2350	1150	1650	1625
	10	7,70	462		8,76	526					
	13	6,50	390		7,40	444					
DSD75	8	13,10	786	75	14,91	894	85	2350	1150	1800	1825
	10	11,40	684		12,97	778					
	13	9,80	588		11,15	669					
DSD90	8	15,70	942	90	17,87	1072	104	2350	1150	1800	1975
	10	13,70	822		15,59	935					
	13	12,00	720		13,66	819					
DSD110	6	20,90	1254	110	23,78	1427	127	2950	1150	1800	2275
	8	19,40	1164		22,08	1325					
	10	17,00	1020		19,34	1161					
	13	14,40	864		16,39	983					
DSD132	6	24,80	1488	132	28,22	1693	152	2950	1150	1800	2450
	8	23,30	1398		26,51	1591					
	10	20,10	1206		22,87	1372					
	13	17,10	1026		19,46	1168					
DSD160	6	29,10	1746	160	33,11	1987	184	2950	1150	1800	2625
	8	27,90	1674		31,75	1905					
	10	25,10	1506		28,56	1714					
	13	21,70	1302		24,69	1482					
DSD200	6	34,00	2040	200	38,69	2321	230	2950	1450	2250	2875
	8	32,00	1920		36,41	2185					
	10	30,00	1800		34,14	2048					
	13	24,00	1440		27,31	1639					
DSD250	6	45,50	2730	250	51,78	3107	288	2950	1450	2250	3125
	8	43,60	2616		49,61	2977					
	10	39,20	2352		44,61	2676					
	13	33,90	2034		38,58	2315					
DSD315	6	57,30	3438	315	65,20	3912	363	2950	1450	2250	3350
	8	54,90	3294		62,47	3748					
	10	49,40	2964		56,21	3373					
	13	42,70	2562		48,59	2915					

Rated details at nominal conditions, 20°C, 1013mbar



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Deno service air package

Deno DPA series

The DENO DPA series are air cooled, belt driven, piston type service air compressors. The compressors are mounted on top of a 50lt or 100ltr air receiver and are completely ready for direct installation and start up.



- Max working pressure 10bar
- Capacity is free air delivery (F.A.D.)
- Max. ambient temperature 55°C
- The DPA2 is available with 1ph & 3ph motor
- The DPA3 is available with 3ph motor
- Non standard voltages and pressure upon request

Model	Qty Cyl. / Stage	50 Hz		60 Hz		Receiver Volume Ltr	Lenght mm	Width mm	Height mm	Weight kg
		Capacity Nm ³ /hr	Motor power Kw	Capacity Nm ³ /hr	Motor power K					
DPA2	2/1	11	2,2	15	2,6	0	700	500	500	25
						50	850	400	750	40
						100	1050	500	900	80
						250	1200	750	1100	130
DPA3	3/1	27	3,0	32	3,5	0	700	500	550	40
						50	950	400	800	55
						100	1050	500	950	95
						250	1200	750	1150	145

Rated details at nominal conditions, 20°C, 1013mbar

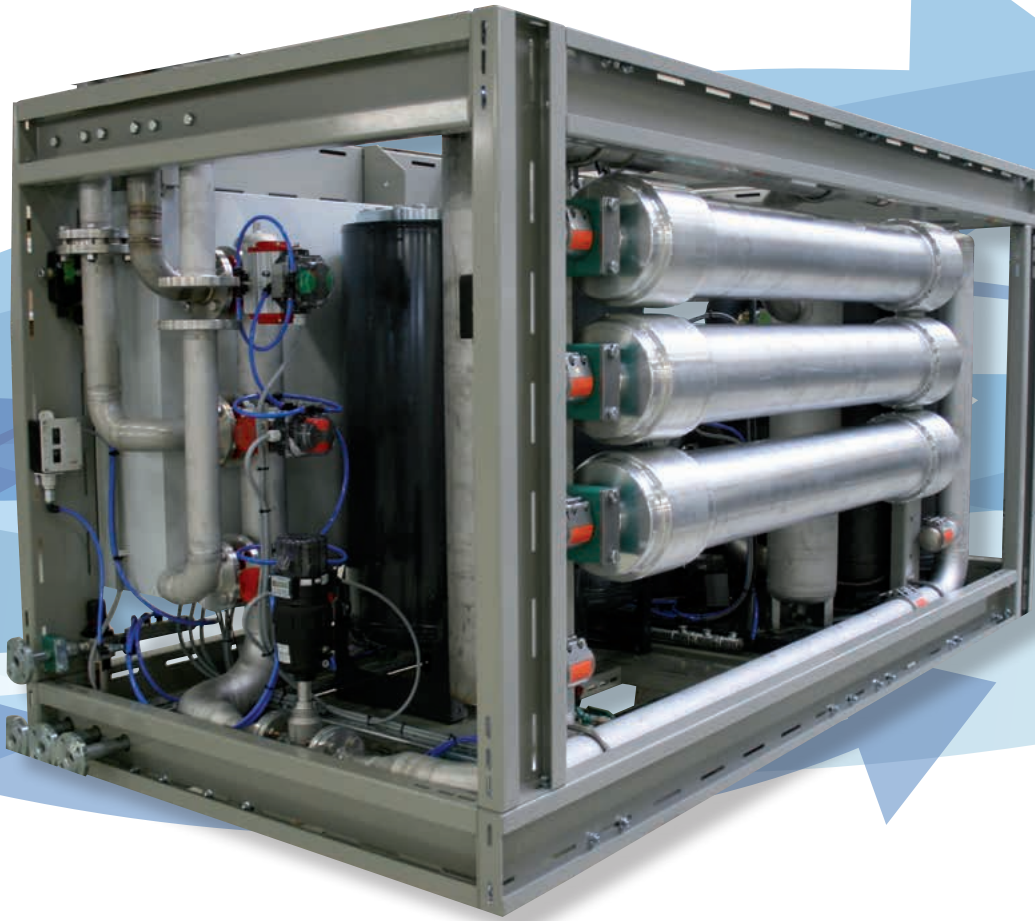
Deno nitrogen generators



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Nitrogen generators

The Deno nitrogen generators are based on the membrane technology. Capacity ranges from 100 Nm³/hr up to 1600 Nm³/hr. with a purity of 95% or 98%. Quality of the inlet air is controlled by a carbon filter and a fine dust filter together with a heater ensuring an effective use of the membranes. The controls are very easy to operate. If required, remote controls for bridge and deck positions are available. The generators are only delivered with Deno feed air compressors fitted with a dryer for optimal production of Nitrogen gas. The total Nitrogen plant complies with the regulations of major Classification Societies.



- Working pressure 7 to 16 bar
- Max. ambient temperature 55°C
- Standard voltage 380~415V/3Ph/50hz - 440~480V/3Ph/60hz
- Non standard voltages and pressure upon request

Model	Pressure Bar	Nitrogen Production			Compressor Power		Connections In/Out
		95%	Nm ³ /hr	98%	Nm ³ /hr	Kw	
DN2-100	9	100		45	305	31	DN25
DN2-200	9	200		90	610	63	DN40
DN2-300	9	300		135	915	95	DN50
DN2-400	9	400		180	1220	126	DN50
DN2-500	9	500		225	1525	158	DN65
DN2-600	9	600		270	1830	189	DN65
DN2-700	9	700		315	2135	221	DN65
DN2-800	9	800		360	2440	248	DN65
DN2-900	9	900		405	2745	279	DN65
DN2-1000	9	1000		450	3050	310	DN65
DN2-1200	9	1200		540	3660	372	DN80
DN2-1300	9	1300		585	3965	403	DN80
DN2-1400	9	1400		630	4270	434	DN80
DN2-1500	9	1500		675	4575	465	DN80
DN2-1600	9	1600		720	4880	496	DN80

Rated details at nominal conditions, 20°C, 1013mbar



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Refrigeration air dryers

Water vapour in compressed air systems condensates to water when cooled. This condensation will reduce the efficiency and reliability of the compressed air application. Refrigeration air dryers are the cost effective solution for this problem.



Absorption dryer

Although the common refrigeration dryers are excellent for providing lower cost dry compressed air, they cannot achieve pressure dew points down below 3°C because the water vapour in the compressed air would freeze, blocking pipes and damaging downstream equipment. To provide pressure points down to -40°C or lower, in that case an absorption dryer is then, the most effective solution. A self cleaning stainless steel wedge shaped support screen ensures lower differential pressures.



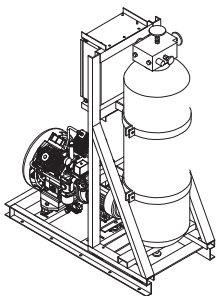
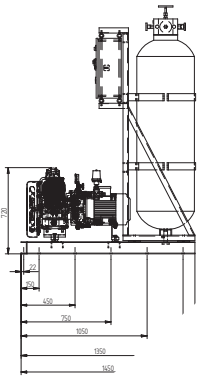
Deno Skids



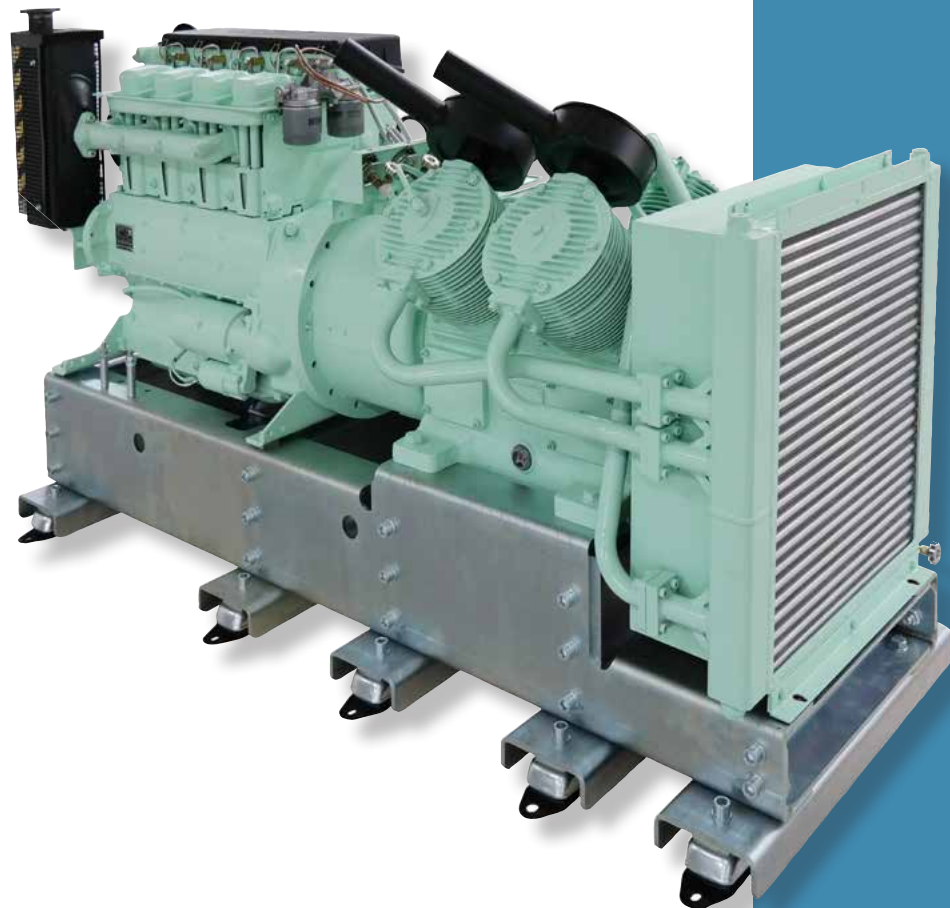
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Skid Versions

The DENO Skids are available in a wide range of standard units as well as custom build packages. Any configuration is available for air or water cooled compressors. Air dryers, reducing stations and air receivers can be integrated.



Other designs upon request



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Almost 100 Years of Excellence



Deno compressors World Wide

Australia	France	Poland	Taiwan
Brasil	Greece	Romania	Turkey
China	Italy	Russia	United Arab Emirates
Croatia	India	Singapore	United Kingdom
Cyprus	Korea	Spain	United States
Egypt	Malaysia	Sri Lanka	Ukraine
Finland	Pakistan	Thailand	Vietnam

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Founded in 1918



Deno Compressors

For detailed information visit our website: www.denocomp.nl