



100 Years of Excellence

Marine Air Compressors & N₂ Generators



www.denocomp.nl

Introduction



Deno Compressors B.V. is an original equipment manufacturer of air compressors and a specialist in the field of marine applications for compressed air systems. Our compressors have been designed and constructed since 1918 and thousands of compressor systems have been installed since then. Deno Compressors is an ISO 9001:2015 and ISO 14001:2015 certified company.

Deno Compressors is represented in more than 30 countries and has regional operating service engineers.

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 510 Nm³/hr.

Screw type compressors

Air- or water-cooled, belt or direct driven with a working pressure up to 15 bar and capacities up to 3900 Nm³/hr.

Emergency starting air compressors

Electric, diesel and manually driven starting air compressors.

Breathing air compressors

Portable and stationed units, air quality according to EN12021.

Turn key compressor modules

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

Nitrogen generators

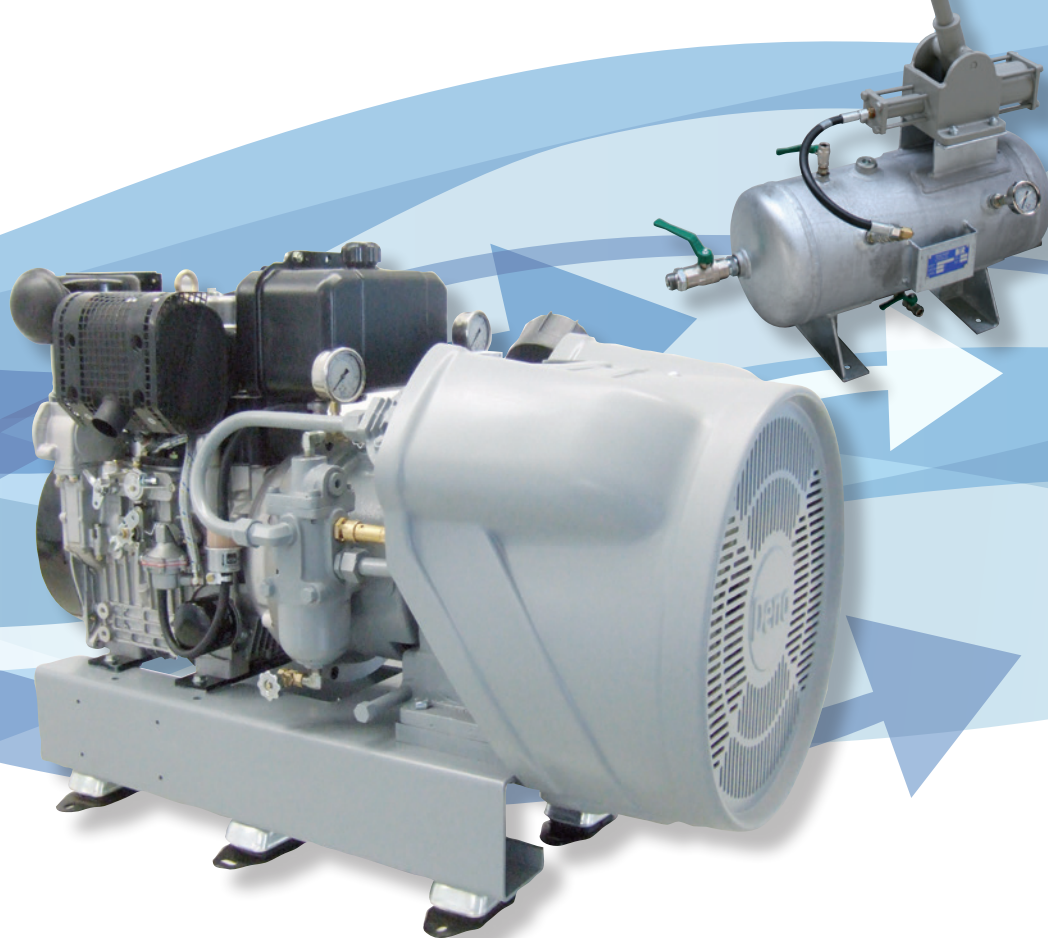
Capacity from 50 Nm³/hr. up to 3000 Nm³/hr. Purity up to 99,5%.

Deno air auxiliaries

- Control cabinets
- Air receivers
- Air reducers
- Air dryers
- Filters
- Drain and separator systems



Deno emergency starting air compressors



Emergency starting air compressors

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

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

- Completely independent starting air system
- Max. pressure 40 bar
- Capacity is charging capacity to 30 bar
- Max ambient temperature 55°C
- Manually or battery started
- Optionally; Fully automatic start/stop
- High capacity upon request

Model	Qty Cyl./ Stages	Drive type	Capacity		Air receiver		Lenght mm	Width mm	Height mm	Weight kg
			with 60 strokes per minute		Volume	Pressure				
			Nm ³ /hr	Ltr/min	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./ Stages	Diesel motor Brand /Type	1150 rpm		1750 rpm		Lenght mm	Width mm	Height mm	Weight kg
			Capacity Nm ³ /hr	Motor power kW	Capacity Nm ³ /hr	Motor power kW				
2L-15HD	2/2	Hatz / 1D81	12	4,5	18	6,6	1200	575	870	325
2L-25HD	2/2	Hatz / 1D81	20	4,5	30	6,6	1200	575	870	335
2L-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 30 bar. Nominal conditions, 20°C, 1013 mbar

Deno air-cooled starting air compressors

Air-Cooled compressors

The DENO 2L, 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 40 bar
- Capacity is charging capacity to 30 bar
- Max. ambient temperature 55°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. / Stages	950 rpm		1450 rpm		1150 rpm		1750 rpm	
		Capacity Nm ³ /hr	Required power kW	Capacity Nm ³ /hr	Required power kW	Capacity Nm ³ /hr	Required power kW	Capacity Nm ³ /hr	Required power kW
2L-15	2/2	10	1,9	15	3,0	12	2,4	18	3,6
2L-25	2/2	16	3,3	25	5,2	20	4,2	30	6,1
2L-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	9,7	75	14,8	60	11,7	90	17,9
L3-100	3/3	66	12,2	100	18,5	85	14,7	110	22,3
L4-150	4/3	100	19,5	150	29,0	120	24,0	180	34,0
L4-200	4/3	131	26,0	200	38,5	160	31,0	240	45,0

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

Deno water-cooled starting air compressors



Water-Cooled compressors

The DENO 2K & 3K 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 40 bar
- Capacity is charging capacity to 30 bar
- 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. / Stages	950 rpm		1450 rpm		1150 rpm		1750 rpm	
		Capacity Nm ³ /hr	Required power kW	Capacity Nm ³ /hr	Required power kW	Capacity Nm ³ /hr	Required power kW	Capacity 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

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

Belt driven 3 upto 65 kW

The DENO DSR series 3 up to 65 kW are belt driven, rotary screw compressors. The compressors are delivered with sound reducing enclosure with quick release panels and/ or hinged doors enabling easy checks and maintenance. The compressors operation is fully automatic by use of a sophisticated and user friendly PLC panel.



- Capacity is charging capacity
- 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			Length mm	Width mm	Height mm	Weight kg
		Capacity		Motor power kW	Capacity		Motor power kW				
		Nm ³ /min	Nm ³ /hr		Nm ³ /min	Nm ³ /hr					
DSR3	8	0,47	28	3,0	0,53	32	3,5	1000	450	935	160
	10	0,43	26		0,49	29					
	13	0,38	23		0,43	26					
DSR4	8	0,65	39	4,0	0,74	44	4,7	1000	450	935	165
	10	0,58	35		0,66	40					
	13	0,45	27		0,51	31					
DSR5	8	0,79	47	5,5	0,90	54	6,4	900	650	1380	250
	10	0,70	42		0,80	48					
	13	0,55	33		0,63	38					
DSR7	8	1,20	72	7,5	1,37	82	8,8	900	650	1380	270
	10	1,00	60		1,14	68					
	13	0,80	48		0,91	55					
DSR11	8	1,70	102	11,0	1,93	116	12,9	900	650	1380	295
	10	1,50	90		1,71	102					
	13	1,30	78		1,48	89					
DSR15	8	2,20	150	15,0	2,50	165	17,6	1070	690	1450	380
	10	2,00	120		2,28	137					
	13	1,70	102		1,93	116					
DSR18	8	3,10	186	18,5	3,53	212	21,7	1070	690	1450	395
	10	2,70	162		3,07	184					
	13	2,10	126		2,39	143					
DSR22	8	3,60	216	22,0	4,10	246	25,8	1070	690	1450	455
	10	3,20	192		3,64	218					
	13	2,70	162		3,07	184					
DSR30	8	4,70	282	30,0	5,35	321	35,2	1170	1000	1470	675
	10	4,40	264		5,01	300					
	13	3,80	228		4,32	259					
DSR37	8	5,70	342	37,0	6,49	389	43,4	1170	1000	1470	710
	10	5,20	312		5,92	355					
	13	4,30	258		4,89	294					
DSR45	8	7,30	438	45,0	8,31	498	52,8	1350	1060	1570	990
	10	6,30	378		7,17	430					
	13	5,60	336		6,37	382					
DSR55	8	8,30	498	55,0	9,44	567	65,0	1350	1060	1570	1075
	10	7,70	462		8,76	526					
	13	6,50	390		7,40	444					

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

Deno rotary screw compressors



Direct driven 45 upto 363 kW

The DENO DSD series 45 kW up to 363 kW 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 charging capacity
- Max. ambient temperature 55°C
- Standard fresh water cooled. Optionally seawater or air cooled
- Standard voltage 380~415V/3Ph/50Hz - 440~480V/3Ph/60Hz
- Non-standard voltages and pressure upon request

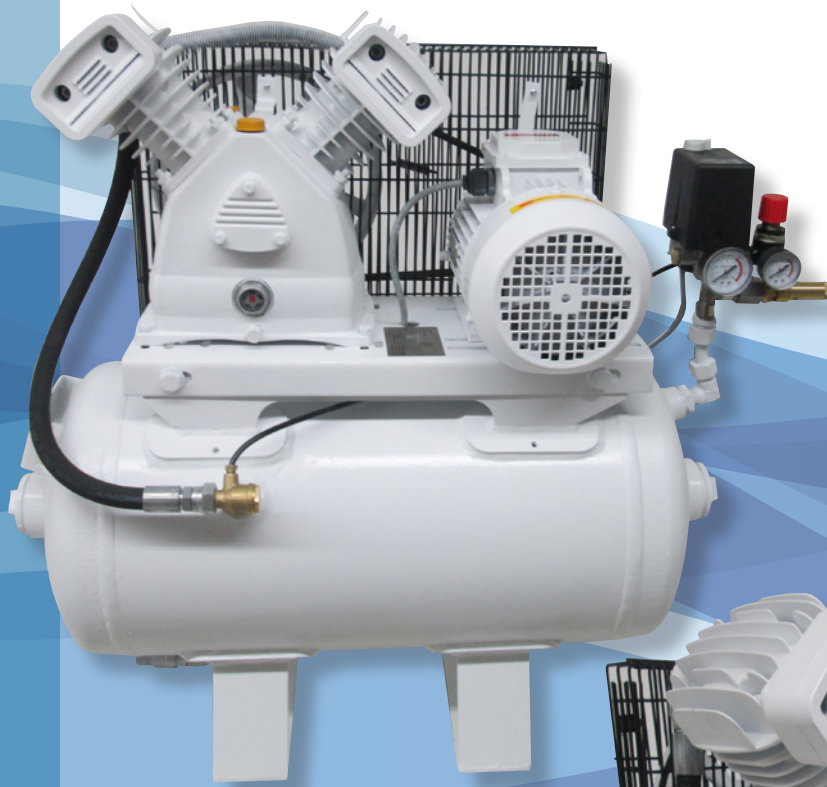
Model	Pressure Bar	50 Hz			60 Hz			Length mm	Width mm	Height mm	Weight kg
		Capacity		Motor power kW	Capacity		Motor power kW				
		Nm ³ /min	Nm ³ /hr		Nm ³ /min	Nm ³ /hr					
DSD45	8	7,30	438	45	8,31	498	53	2350	1150	1650	1550
	10	6,30	378		7,17	430					
	13	5,60	336		6,37	382					
DSD55	8	8,30	498	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, 1013 mbar

Deno service air package

Deno DPA series

The DENO DPA series are air cooled, belt driven, piston type service air compressors. The compressors can be mounted on top of an air receiver and are ready for direct installation and start up.

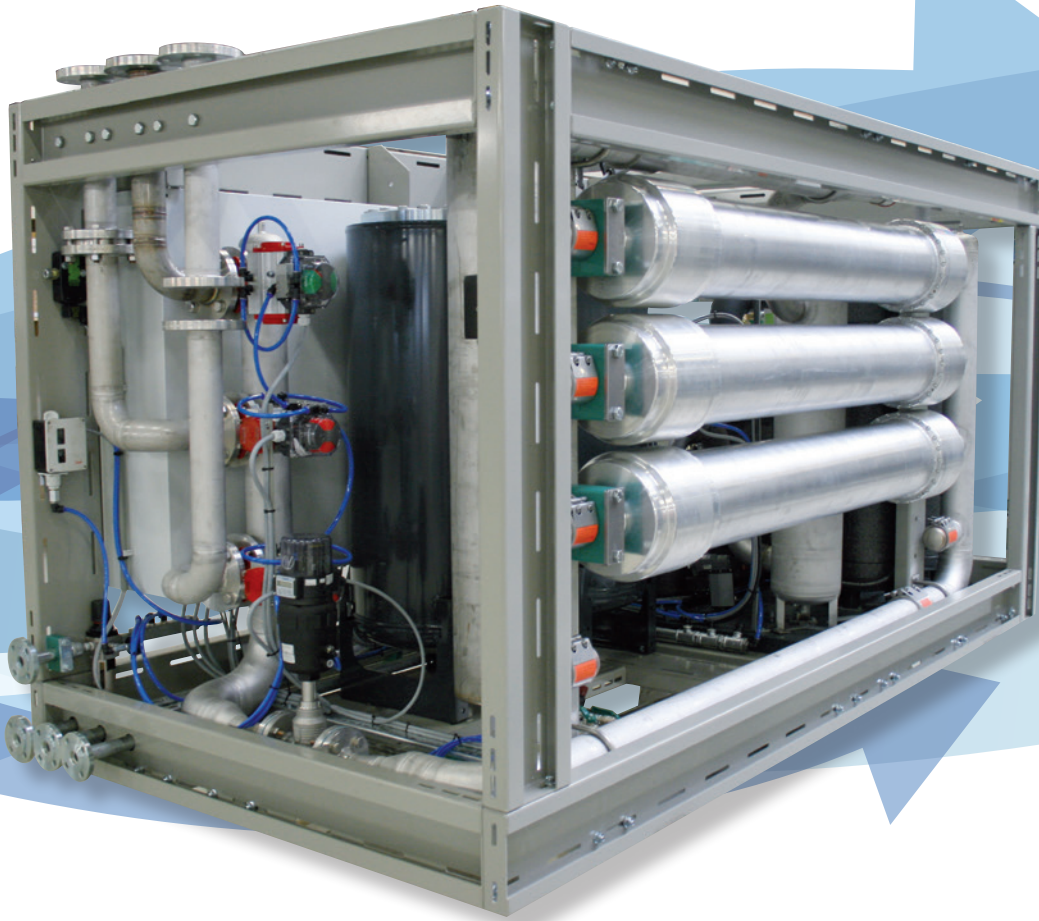


- Max. working pressure 10 bar
- Capacity is charging capacity
- Max. ambient temperature 55°C
- The DPA2 is available with 1ph & 3ph motor
- The DPA3 is available with 3ph motor
- Non standard voltages and pressure upon request

Model	Qty Cyl. / Stages	50 Hz		60 Hz		Receiver Volume Ltr	Length mm	Width mm	Height mm	Weight kg
		Capacity Nm ³ /hr	Motor power kW	Capacity Nm ³ /hr	Motor power kW					
DPA2	2/1	15	2,2	15	2,6	0	700	500	500	25
						50	850	400	750	40
						100	1050	500	900	80
DPA3	3/1	27	3,0	27	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, 1013 mbar

Deno nitrogen generators



Nitrogen generators

The Deno nitrogen generators are based on the membrane technology. Capacity ranges from 50 Nm³/hr up to 3000 Nm³/hr. with a purity up to 99,5% N₂. 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
DN2-200	8	200		95	700	80	DN50
DN2-400	8	400		190	1400	160	DN50
DN2-600	8	600		285	2100	240	DN65
DN2-800	8	800		380	2800	320	DN65
DN2-1000	8	1000		475	3500	400	DN80
DN2-1200	8	1200		570	4200	480	DN80
DN2-1400	8	1400		665	4900	560	DN100
DN2-1600	8	1600		760	5600	640	DN100
DN2-1800	8	1800		855	6300	720	DN100
DN2-2000	8	2000		950	7000	800	DN100
DN2-2200	8	2200		1045	7700	880	DN100
DN2-2400	8	2400		1140	8400	960	DN125
DN2-2600	8	2600		1235	9100	1040	DN125
DN2-2800	8	2800		1330	9800	1120	DN125
DN2-3000	8	3000		1425	10500	1200	DN125

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

Refrigeration air dryers

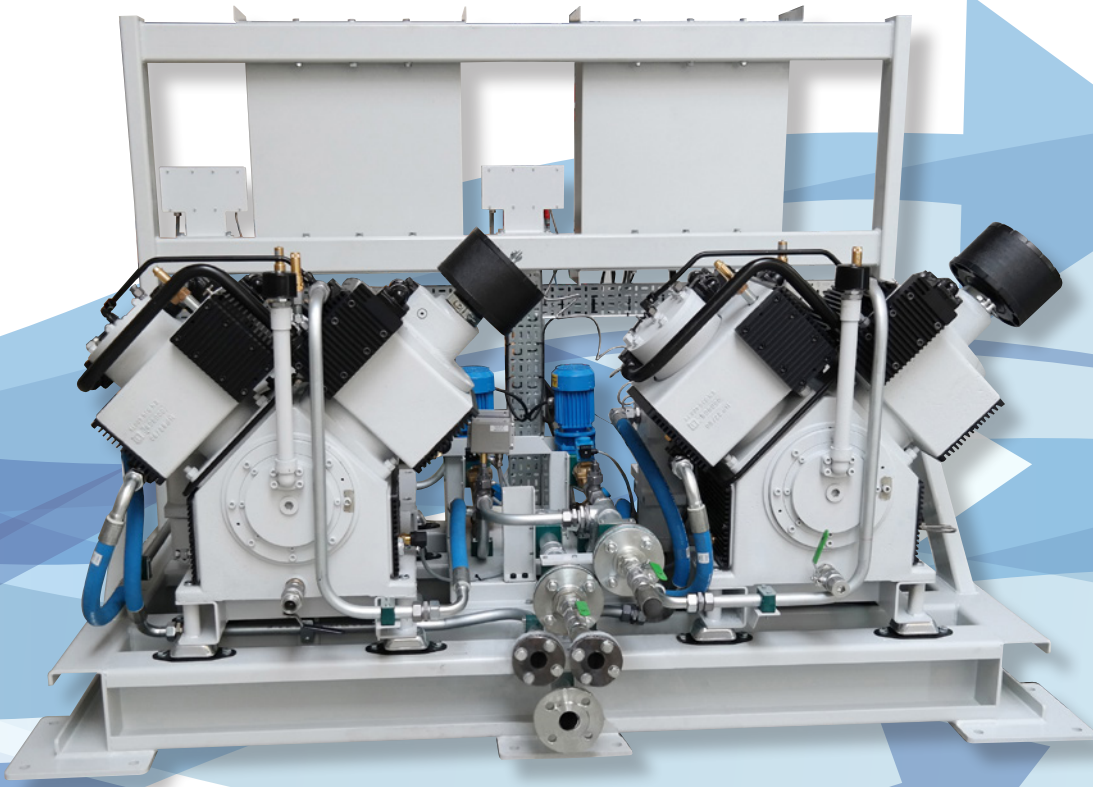
Water vapour in compressed air systems condensates to water when cooled. This condensation will reduce the efficiency and reliability of the compressed air application. Refrigeration air dryers are the cost effective solution for this problem.



Absorption dryer

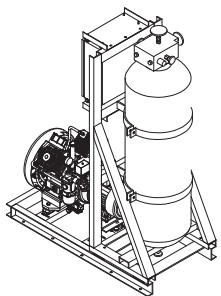
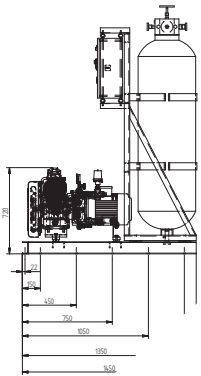
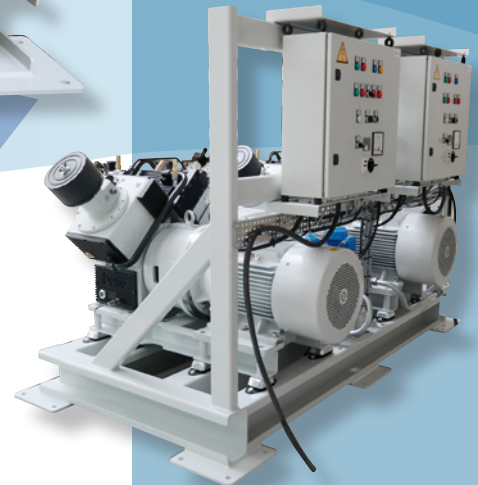
Although the common refrigeration dryers are excellent for providing lower cost dry compressed air, they cannot achieve pressure dew points down below 3°C because the water vapour in the compressed air would freeze, blocking pipes and damaging downstream equipment. An absorption dryer is the most effective solution to provide pressure points down to -4°C or lower.



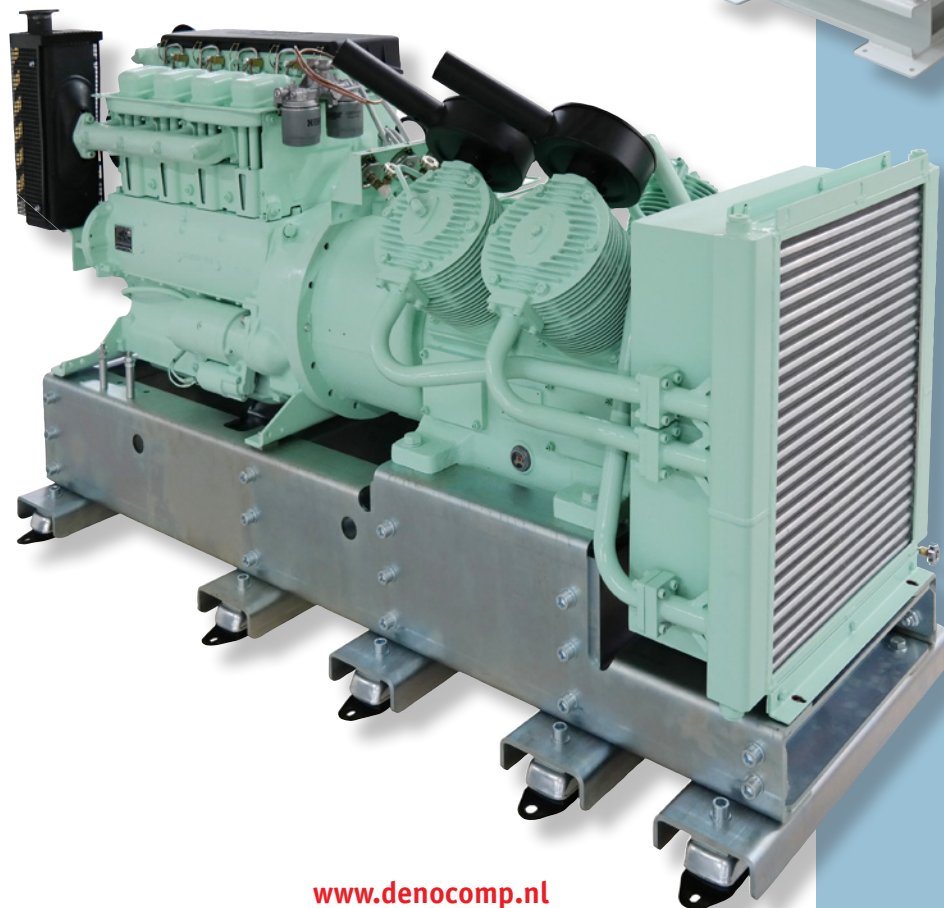


Skid Versions

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. Auxiliaries such as air dryers, and air receivers can be integrated.



Other designs upon request





100 Years of Excellence



Deno Compressors Worldwide

- | | | | |
|------------|-----------|--------------|--------------------------|
| Australia | France | Myanmar | Spain |
| Bangladesh | Germany | Norway | Sri Lanka |
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| Canada | Hong Kong | Poland | Thailand |
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| China | India | Russia | United Arab Emirates |
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Founded in 1918

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