

CAPN Series Onsite PSA Nitrogen Generators



Air Separation Solutions

Company of choices

Provide outstanding products and excellent solutions to users around the world, commit to the satisfaction and success of users and partners, and to the innovation and development of air separation industry technology, to shape a good image of Made in China in the international market.



CAN GAS SYSTEMS COMPANY LIMITED

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CAPN series pressure swing adsorption (PSA) nitrogen generator ◀

Product

CAPN series pressure swing adsorption (PSA) nitrogen generator applies carbon molecular sieve as adsorbent, and utilizes the difference of adsorption amount of oxygen and nitrogen molecules in the molecular sieve in compressed air, and directly prepares nitrogen from compressed air by the principle of pressure adsorption and desorption. The CAPN Series Nitrogen Generator is a convenient, cost-effective on-site nitrogen system that is widely used in a variety of industries with time-proven reliability.

Main Features:

- Fast and stable on-site nitrogen production, with a minimum of 10 to 20 minutes to produce qualified nitrogen.
- Applied more efficient and stable molecular sieves and unique PSA energy-saving technology, lower energy consumption.
- The standard configuration includes molecular sieve water pollution protection alarm device and multiple molecular sieve protection technologies to ensure that the nitrogen generator can run stably for a longer period of time.
- The air tank, the nitrogen tank and the nitrogen generator are prefabricated in the same way, and the user installation on site is simple and quick.
- Optional CANBUS multi-function monitoring system and Wi-Ctrl remote wireless monitoring system can realize local monitoring and remote monitoring of the equipment, and realize remote upgrade of the system. The operating conditions of the system are under control.
- Proprietary nitrogen purity control technology to meet the needs of a variety of nitrogen applications in different industries.
- A number of patented technologies and original technology applications, equipment upgrades, energy saving and environmental friendly.
- The surface treatment of the equipment adopts the powder electrostatic spray process, which is beautiful and durable.
- 7*24 hours comprehensive and professional service.
- Can be customized to meet petrochemical, pharmaceutical and food, ASME, explosion-proof, classification society certification and other special institutions.



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Specifications (CAPN 10~80)

Model	Purity (%)	99.9	99.5	99	98	97	96	95	Inlet	Outlet
CAPN-10	Capacity (Nm³/h)	5	7.6	10	11.2	13.6	14.4	15.2	DN15	DN15
	Size (mm)	1000*1000*1640								
	Weight (KG)	380								
CAPN-15	Capacity (Nm³/h)	7.5	11.4	15	16.8	20.4	21.6	22.8	DN15	DN15
	Size (mm)	1100*1100*1500								
	Weight (KG)	450								
CAPN-20	Capacity (Nm³/h)	10	15.96	20	25.2	29.4	31.92	33.6	DN20	DN15
	Size (mm)	1450*1300*1450								
	Weight (KG)	700								
CAPN-25	Capacity (Nm³/h)	12.5	19	25	30	35	38	40	DN20	DN15
	Size (mm)	1450*1300*1600								
	Weight (KG)	878								
CAPN-30	Capacity (Nm³/h)	15	22.8	30	36	42	45.6	48	DN25	DN15
	Size (mm)	1500*1350*1700								
	Weight (KG)	864								
CAPN-35	Capacity (Nm³/h)	17.5	26.6	35	42	49	53.2	56	DN25	DN15
	Size (mm)	1500*1350*1750				1650*1500*1800				
	Weight (KG)	880				950				
CAPN-40	Capacity (Nm³/h)	20	30.4	40	48	56	60.8	64	DN25	DN20
	Size (mm)	1500*1400*2030				1650*1450*2130				
	Weight (KG)	900				965				
CAPN-50	Capacity (Nm³/h)	25	38	50	60	70	76	80	DN25	DN20
	Size (mm)	1600*1400*2100			1750*1500*2130					
	Weight (KG)	1100			1160					
CAPN-55	Capacity (Nm³/h)	27.5	41.8	55	66	77	83.6	88	DN40	DN25
	Size (mm)	1600*1350*1850			1900*1700*1850					
	Weight (KG)	1310			1380					
CAPN-60	Capacity (Nm³/h)	30	45.6	60	72	84	91.2	96	DN40	DN25
	Size (mm)	1750*1650*1900			1900*1800*1900					
	Weight (KG)	1364			1414					
CAPN-80	Capacity (Nm³/h)	/	60.8	80	96	112	121.6	120	DN40	DN25
	Size (mm)	/	1700*1600*2250			1850*1750*2300				
	Weight (KG)	/	1544			1604				



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Specifications (CAPN HP-2~35)



Model	Purity (%)	99.9995	99.999	99.995	99.99	99.9	99.5	Inlet	Outlet
CAPN HP-2	Capacity (Nm³/h)	1.0	1.3	1.7	2	3.1	3.9	DN15	DN15
	Size (mm)	560*470*1550(box-type)							
	Weight (KG)	230							
CAPN HP-3	Capacity (Nm³/h)	1.6	2.0	2.5	3	4.7	5.8	DN15	DN15
	Size (mm)	560*470*1550mm(box-type)							
	Weight (KG)	230							
CAPN HP-5	Capacity (Nm³/h)	2.6	3.2	4.2	5	7.6	9.6	DN15	DN15
	Size / Weight	1000*600*950mm/370kg							
CAPN HP-10	Capacity (Nm³/h)	5.2	6.5	8	10	14.6	20.8	DN15	DN15
	Size / Weight	1300*650*1400mm/600kg							
CAPN HP-15	Capacity (Nm³/h)	8	10	12	15	21	30	DN15	DN15
	Size / Weight	1300*650*1750mm/670kg							
CAPN HP-20	Capacity (Nm³/h)	10.4	13.0	17	20	29	42	DN15	DN15
	Size / Weight	1500*750*1700mm/850kg							
CAPN HP-25	Capacity (Nm³/h)	13	16	21	25	36	51	DN15	DN15
	Size / Weight	1500*800*1700mm/970kg							
CAPN HP-30	Capacity (Nm³/h)	16	20	25	30	44	62	DN15	DN15
	Size / Weight	1650*800*2000mm/1050kg							
CAPN HP-35	Capacity (Nm³/h)	18	23	29	35	51	72	DN15	DN15
	Size / Weight	1650*850*2000mm/1150kg							



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Specifications (CAPN HP-40~200)

Model	Purity (%)	99.9995	99.999	99.995	99.99	99.9	99.5	99	98	97	96	95	Inlet	Outlet
CAPN HP-40	Capacity (Nm³/h)	20	26	33	40	57	82	89	110	128	133	145	DN40	DN25
	Size / Weight	1750*850*2100mm/950kg												
CAPN HP-45	Capacity (Nm³/h)	23	29	38	45	65	93	102	125	145	151	165	DN40	DN25
	Size / Weight	1750*850*2020mm/1000kg												
CAPN HP-50	Capacity (Nm³/h)	26	32	42	50	72	102	112	138	160	166	182	DN40	DN25
	Size / Weight	1750*850*2150mm/1050kg												
CAPN HP-55	Capacity (Nm³/h)	28	36	46	55	80	114	124	153	178	185	202	DN40	DN25
	Size / Weight	1750*850*2170mm/1070kg												
CAPN HP-60	Capacity (Nm³/h)	31	39	50	60	87	123	135	166	193	200	219	DN40	DN25
	Size / Weight	1860*850*2200mm/1050kg												
CAPN HP-65	Capacity (Nm³/h)	34	42	55	65	95	134	147	181	210	218	239	DN40	DN25
	Size / Weight	1900*850*2200mm/1200kg												
CAPN HP-70	Capacity (Nm³/h)	36	45	59	70	101	144	158	194	225	234	257	DN40	DN25
	Size / Weight	1900*850*2000mm/1250kg												
CAPN HP-75	Capacity (Nm³/h)	39	49	63	75	109	155	170	209	243	252	276	DN40	DN25
	Size / Weight	1900*850*2100mm/1300kg												
CAPN HP-80	Capacity (Nm³/h)	41	52	67	80	116	165	180	221	258	268	294	DN40	DN25
	Size / Weight	1900*850*2150mm/1400kg												
CAPN HP-85	Capacity (Nm³/h)	44	55	72	85	124	176	193	237	275	286	314	DN40	DN25
	Size / Weight	2000*900*2300mm/1500kg												
CAPN HP-90	Capacity (Nm³/h)	46	58	75	90	131	186	203	249	290	302	331	DN40	DN40
	Size / Weight	2000*900*2300mm/1550kg												
CAPN HP-100	Capacity (Nm³/h)	52	65	84	100	145	206	226	277	323	335	368	DN40	DN40
	Size / Weight	2000*1200*2350mm/1700kg												
CAPN HP-110	Capacity (Nm³/h)	57	71	92	110	160	227	249	305	355	369	405	DN40	DN40
	Size / Weight	2000*1200*2350mm/1900kg												
CAPN HP-120	Capacity (Nm³/h)	62	78	101	120	174	248	271	333	388	403	442	DN50	DN40
	Size / Weight	2100*1200*2350mm/2200kg												
CAPN HP-135	Capacity (Nm³/h)	70	87	113	135	196	278	305	374	435	455	496	DN50	DN40
	Size / Weight	2100*1200*2500mm/2250kg												
CAPN HP-150	Capacity (Nm³/h)	78	97	126	150	218	310	340	417	485	504	553	DN50	DN40
	Size / Weight	2100*1200*2500mm/2300kg												
CAPN HP-175	Capacity (Nm³/h)	90	113	147	175	254	362	396	486	565	588	644	DN65	DN40
	Size / Weight	2100*1400*2620mm/2500kg												
CAPN HP-200	Capacity (Nm³/h)	103	129	168	200	290	413	452	555	645	671	735	DN65	DN50
	Size / Weight	2200*1400*2700mm/2900kg												



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Specifications (CAPN HP-225~1000)

Model	Purity (%)	99.9995	99.999	99.995	99.99	99.9	99.5	99	98	97	96	95	Inlet	Outlet
CAPN HP-225	Capacity (Nm³/h)	116	145	189	225	326	464	508	624	725	754	827	DN65	DN50
	Size / Weight	2200*1500*2650mm/3300kg												
CAPN HP-250	Capacity (Nm³/h)	129	161	209	250	362	515	564	692	805	837	918	DN65	DN50
	Size / Weight	2200*1600*2850mm/4100kg												
CAPN HP-275	Capacity (Nm³/h)	142	178	231	275	399	568	621	763	888	923	1012	DN80	DN50
	Size / Weight	2200*1500*3000mm/4150kg												
CAPN HP-300	Capacity (Nm³/h)	155	194	252	300	435	619	677	832	968	1006	1103	DN80	DN50
	Size / Weight	2200*1600*3000mm/4200kg												
CAPN HP-350	Capacity (Nm³/h)	181	226	294	350	509	723	791	972	1130	1175	1288	DN80	DN50
	Size / Weight	2250*1500*3100mm/4400kg												
CAPN HP-400	Capacity (Nm³/h)	206	258	335	400	581	826	903	1109	1290	1342	1471	DN80	DN80
	Size / Weight	2250*1600*3310mm/4600kg												
CAPN HP-500	Capacity (Nm³/h)	258	323	419	500	726	1032	1129	1387	1613	1677	1838	DN80	DN80
	Size / Weight	2600*1780*3400mm/5500kg												
CAPN HP-600	Capacity (Nm³/h)	310	387	503	600	871	1238	1355	1664	1935	2012	2206	DN100	DN80
	Size / Weight	2600*1780*3600mm/6600kg												
CAPN HP-700	Capacity (Nm³/h)	361	452	587	700	1016	1445	1580	1941	2258	2348	2574	DN100	DN80
	Size / Weight	2600*1950*3700mm/7500kg												
CAPN HP-850	Capacity (Nm³/h)	439	549	713	850	1234	1755	1920	2359	2743	2852	3126	DN100	DN80
	Size / Weight	2800*1950*4300mm/8500kg												
CAPN HP-1000	Capacity (Nm³/h)	516	645	839	1000	1451	2064	2258	2774	3225	3354	3677	DN150	DN100
	Size / Weight	2800*1950*4800mm/9700kg												



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