

Sertronic®

Gas production, purification and filling



Main references list



**Hydrogen purification unit
DS 2000-85**



**Hydrogen purification unit
DS 4000-45**

HYDOCC	2024	2 x Hydrogen purification unit DS 2000-85	2000 Nm ³ /h - 85 barg
AIR LIQUIDE DEUTSCHLAND	2022	Hydrogen purification unit (CO eraser) N 4000-45	4000 Nm ³ /h - 45 barg
AIR LIQUIDE DEUTSCHLAND	2022	Hydrogen purification unit DS 4000-45	4000 Nm ³ /h - 45 barg
ELOGEN	2021	Hydrogen purification unit D 200-40	200 Nm ³ /h - 40 barg
AIR LIQUIDE RUSSIA	2020	Hydrogen purification unit D 500-2,5	500 Nm ³ /h - 2,5 barg
AREVA	2020	4 x Hydrogen purification units D 10-40	10 Nm ³ /h - 40 barg
AIR LIQUIDE SPAIN	2019	Hydrogen purification unit D 1500-350	1500 Nm ³ /h - 350 barg
AIR LIQUIDE RUSSIA	2018	Hydrogen purification unit D 150-2,5	150 Nm ³ /h - 2,5 barg
AREVA H2GEN	2017	Hydrogen purification unit D100-40	100 Nm ³ /h - 40 barg
AREVA H2GEN	2016	Hydrogen purification unit D 10-40	10 Nm ³ /h - 40 barg
AREVA H2GEN	2016	2 x Hydrogen purification units D 100-16	100 Nm ³ /h - 16 barg
AIR LIQUIDE EGYPT	2010	Hydrogen purification unit D 220-200	220 Nm ³ /h - 200 barg
AREVA-TA	2003	Electrolytic hydrogen / oxygen purification unit D 0,5-5	0,5 Nm ³ /h - 5 barg
LINDE	1999	Hydrogen purification unit D 900-250	900 Nm ³ /h - 250 barg
LINDE (PORCHEVILLE)	1995	Hydrogen purification unit D 400-350	400 Nm ³ /h - 350 barg
AIR LIQUIDE SOLVAY	1995	Hydrogen purification unit D 200-25	200 Nm ³ /h - 25 barg
AIR LIQUIDE YPF (ARGENTINA)	1994	Hydrogen purification unit D 1100-30	1100 Nm ³ /h - 30 barg
AIR LIQUIDE BOZ (NETHERLAND)	1993	Hydrogen purification unit D 1800-22	1800 Nm ³ /h - 22 barg
AIR LIQUIDE CARBONICA (GREECE)	1990	Hydrogen purification unit D 300-200	300 Nm ³ /h - 200 barg
AIR LIQUIDE / SMOA (MAROCCO)	1988	Hydrogen purification unit D 150-200	150 Nm ³ /h - 200 barg
THOMSON SGS	1988	Hydrogen purification unit D15-20	15 Nm ³ /h - 20 barg



**Hydrogen cryogenic purifier (3 columns)
EF 1000-15**



**Hydrogen cryogenic purifier
EF 1500-250**

THALES / III-IV LAB	2024	Hydrogen cryogenic purifier EF 20 – 20	20 Nm ³ /h -20 barg
SAPIO	2023	Hydrogen cryogenic purifier EF 1000 – 15	1000 Nm ³ /h - 15 barg
MESSER	2023	Hydrogen cryogenic purifier EF 1500 - 250	1500 Nm ³ /h - 250 barg
AIR LIQUIDE DEUTSCHLAND	2022	Hydrogen cryogenic purifier EF 1000 - 45	1000 Nm ³ /h - 45 barg
AIR LIQUIDE SPAIN	2017	Hydrogen cryogenic purifier EF 600-27	600 Nm ³ /h -27 barg
AIR LIQUIDE GAS AB	2014	Containerized hydrogen cryogenic purifier EF 150-250	150 Nm ³ /h - 250 barg
SAPIO / ST MICROELECTRONIC	2014	Hydrogen cryogenic purifier EF 500-13	500 Nm ³ /h - 13 barg
AREVA	2007	Hydrogen isotopic cryogenic purifier EF 30-10	30 Nm ³ /h - 10 barg
AIR LIQUIDE	2006	Hydrogen cryogenic purifier EF 715 - 100	715 Nm ³ /h - 100 barg
LINDE / ATMEL	1999	Hydrogen cryogenic purifier EF 450-250	450 Nm ³ /h - 250 barg



**VF2 dryer
TSA 2 200-2,5**



**Nitrogen dryer
TSA 34 000-10**

SOLVAY	2023	VF2 dryer TSA 2 200 – 2,5 (in progress)	2200 Nm ³ /h – 2,5 barg
EXXON MOBIL	2021	Hydrogen purifier TSA 1200-35	1200 Nm ³ /h - 35 barg
AIR LIQUIDE FI	2019	NO purifier TSA 18-0,5	18 Nm ³ /h – 0,5 barg
AIR LIQUIDE ADVANCED TECHNOLOGIE	2017	Helium dryer TSA 600-27	600 Nm ³ /h – 27 barg
SOLVAY	2012	VF2 dryer TSA 1800-2,5	1800 Nm ³ /h – 2,5 barg
AIR LIQUIDE INDIA	2009	Nitrogen dryer unit TSA 34000-10	34 000 Nm ³ /h - 10 barg
PRAXAIR (BELGIUM)	2002	Nitrogen dryer unit TSA 30-230	30 Nm ³ /h - 230 barg
CEA DAM	1999	2x Argon dryers (gloves box) TSA 80-1	80 Nm ³ /h - PA
EDF (CHINA)	1998	Hydrogen dryer unit TSA 15-200	15 Nm ³ /h - 200 barg
SAGIM (CHINA)	1995	Hydrogen dryer unit TSA15-200	15 Nm ³ /h - 200 barg
CERT ONERA	1994	Air purification unit TSA 1500-80	1500 Nm ³ /h - 80 barg
CEA DAM	1990	Air purification unit TSA 50-1	50 Nm ³ /h - PA
AIR LIQUIDE DGR	1989	Helium / Neon purification unit TSA 18-25	18 Nm ³ /h - 25 barg



**Filltronic® purifiers
N 500-250**

**Filltronic® purifiers
N 500-380**

**Nitrogen and Argon dryer
SAC 30-230 / N 15-15**

AIR LIQUIDE	2023	Helium Filltronic® purifier N 250-300	250 Nm ³ /h - 300 barg
IGAS	2023	2 Nitrogen / Argon Filltronic® purifiers N 500-380	500 Nm ³ /h - 380 barg
NIPPON GASES	2023	Nitrogen / Argon Filltronic® purifier N 500-250	500 Nm ³ /h - 250 barg
MESSER	2023	Nitrogen / Argon Filltronic® purifier N 20-15	20 Nm ³ /h - 15 barg
AIR LIQUIDE FI	2022	6 x Nitrogen / Argon Filltronic® purifiers N 500-250X	500 Nm ³ /h - 250 barg
CNRS	2021	Nitrogen purifier N 100-20	100 Nm ³ /h - 20 barg
NIPPON GASES	2019	Nitrogen / Argon Filltronic® purifier N 500-250	500 Nm ³ /h - 250 barg
SOL	2016	Nitrogen Filltronic® purifier N 200-220	200 Nm ³ /h - 220 barg
LINDE GAS ALGERIA	2016	Nitrogen / Argon purification unit N 500-380	500 Nm ³ /h - 380 barg
AIR LIQUIDE	2011	Helium purification unit C 240-240	240 Nm ³ /h - 240 barg
AIR LIQUIDE	2005	Nitrogen purification unit N 5-10	5 Nm ³ /h - 10 barg
PRAXAIR (BELGIUM)	2002	Nitrogen dryer unit SAC 30-230 & Argon purification unit N 15-15	30 Nm ³ /h - 230 barg
PRAXAIR	2001	Nitrogen purification unit N 5-10	5 Nm ³ /h - 10 barg
CEA DAM	1999	2x Argon dryers (gloves box) SAC 80-1	80 Nm ³ /h - PA
AIR LIQUIDE SPAIN	1997	Argon nitrogen C 5-220	5 Nm ³ /h - 220 barg
AIR LIQUIDE / BP CHEMICALS	1996	Nitrogen purification unit N 1000-40	1000 Nm ³ /h - 40 barg
LINDE	1995	Nitrogen purification unit N150-230	150 Nm ³ /h - 230barg
AIR LIQUIDE / TOPSIL (DANEMARK)	1992	Argon purification unit C 30-10	30 Nm ³ /h - 10 barg
AIR LIQUIDE DGR	1989	Helium / Neon purification unit SAC 18-25	18 Nm ³ /h - 25 barg



**2 Air purifiers
M 5-10**



**Oxygen purifier
M 5 -10**

CNRS LMA	2007	Air purification unit M 5-10	5 Nm ³ /h - 10 barg
ECMSSA / ABSOGER	2006	Medical oxygen generator – PSA M 1-4,5	1 Nm ³ /h - 45 barg
AIR LIQUIDE (Miribel)	2001	Air purification unit M 5-10	5 Nm ³ /h - 10 barg
ALCATEL	2000	Oxygen purification unit M 30-10	30 Nm ³ /h - 10 barg
AIR LIQUIDE / PHILIPS	1994	Oxygen purification unit M 50-10	50 Nm ³ /h - 10 barg
ALCATEL	1993	Oxygen purification unit M 20-10	20 Nm ³ /h - 10 barg
AIR LIQUIDE / PHILIPS	1992	Oxygen purification unit M 10-10	10 Nm ³ /h - 10 barg
ECMSSA / SNPE	1990	Chemical medical oxygen generator M 10-300	10 Nm ³ /h - 300 barg
ALCATEL	1990	2 Oxygen purification units M 12-10	12 Nm ³ /h - 10 barg



**Tritium removal unit
250 Nm³/h – AP**



Unité de détritiation

AREVA-TA	2003	Electrolytic hydrogen and oxygen purification unit D 0,5-5	0,5 Nm ³ /h - 5 barg
CEA DAM	2001	Catalytic reactor for tritium removal	5 Nm ³ /h
CEA DAM	2000	Xe concentration system	9 Nm ³ /h - 4 barg
SGN	1995	Argon / Hydrogen mixer 90-4	90 Nm ³ /h - 4 barg
COGEMA	1994	Helium cryogenic purification unit EF 100-1	100 Nm ³ /h - 1 barg
COGEMA	1994	1 Exchanger + 2 adsorbent vessels	100 Nm ³ /h - 1 barg
COGEMA / MELOX	1993	Argon / Hydrogen mixer 90-4	90 Nm ³ /h - 4 barg
CEA DAM	1993	Purification for tritium removal	15 Nm ³ /h – AP
CEA DAM	1993	Cooling exchanger for tritium removal	20 Nm ³ /h – AP
COGEMA	1992	Humidifier catalytic Ar / Hydrogen	25 Nm ³ /h - 200 mbarg
COGEMA	1990	Argon / Hydrogen mixer 25-8	25 Nm ³ /h - 8barg
COGEMA	1990	Argon / Hydrogen humidification system 18-300	18 Nm ³ /h - 300 mbarg
CEA DAM	1990	Dryer unit SAC 50-1	50 Nm ³ /h – AP
CEA DAM	1990	3 Units for tritium removal	250 Nm ³ /h - AP
CEA DAM	1990	Purification system model unit M 1-1,1	1 Nm ³ /h – 1,1 barg
AIR LIQUIDE DGR	1988	Krypton/xenon dryer unit SAC 2-3	2 Nm ³ /h- 3 barg



Installation worldwide

