OMEGA AIR

GAS TREATMENT

Product overview

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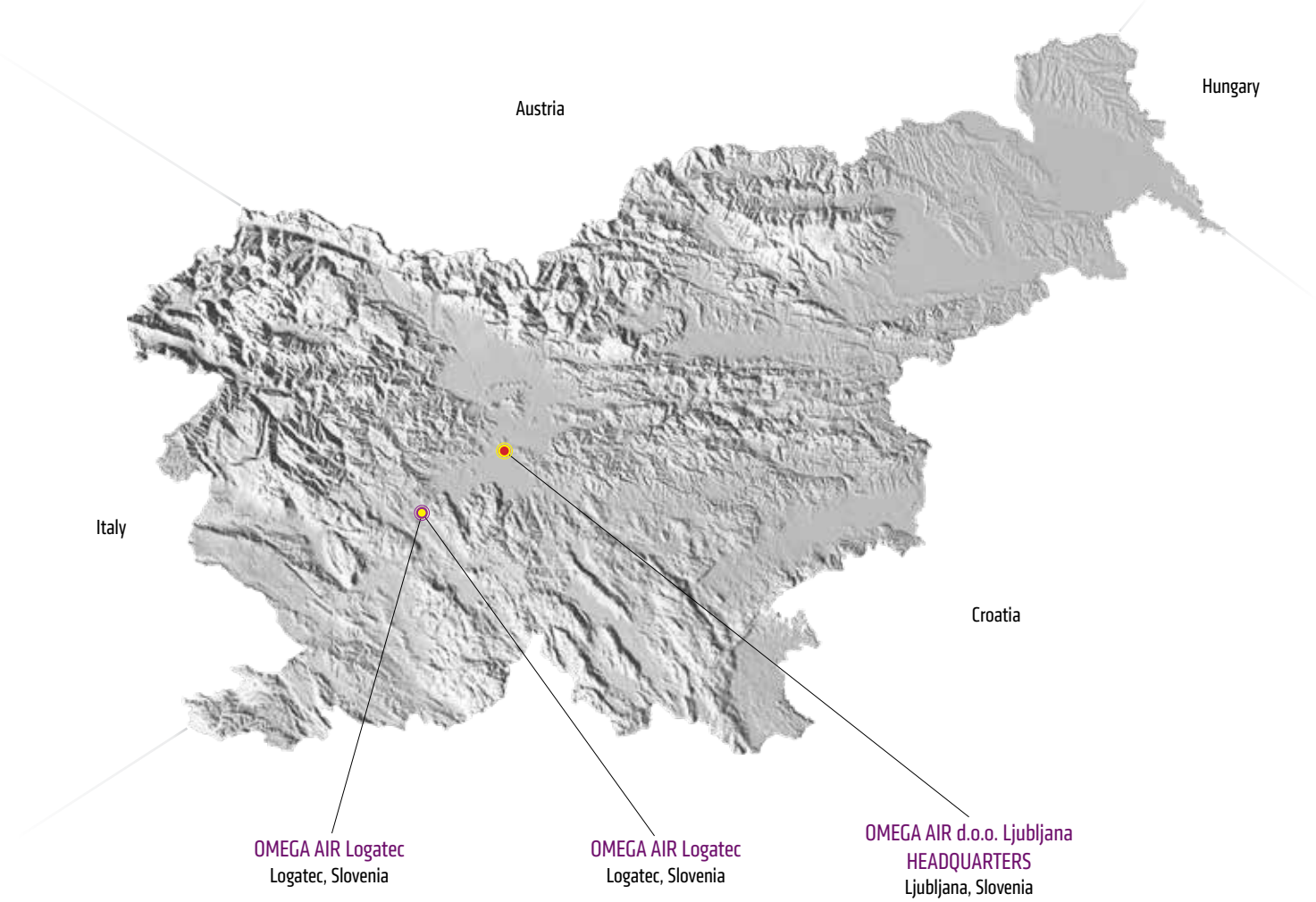


Main warehouse
Area: 4000 m²

Compressors and technique dept.
Service centre
Welding department
Dryers production
Land: 31.500 m²
Facilities: 4.100 m²

Head office
Production halls
Sales office
R & D
Area: 6.600 m²

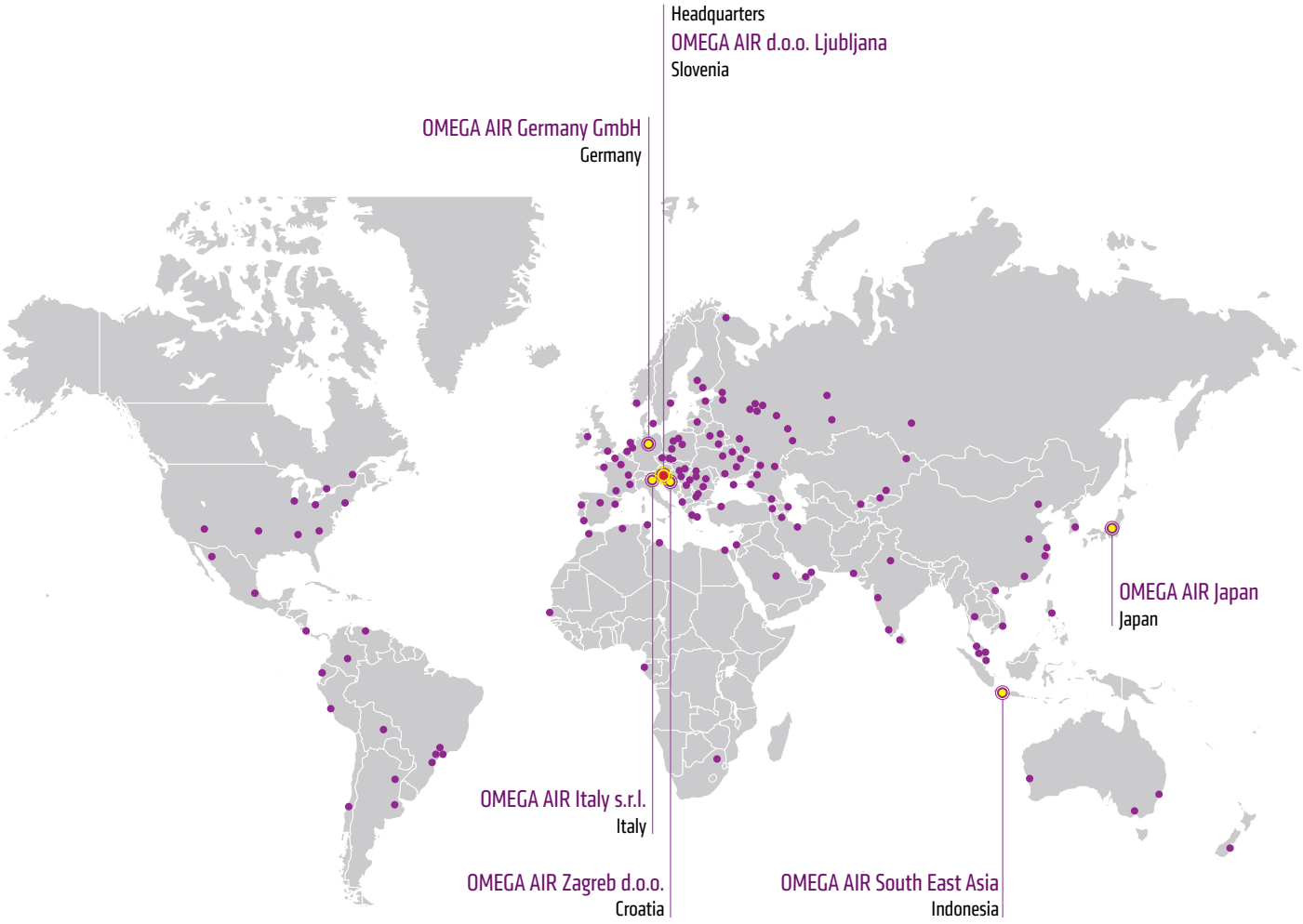
OMEGA AIR Group

6 companies in OMEGA AIR group

37 distributors (2022)

80+ states

With companies in its group and carefully selected distributors, OMEGA AIR is present in all global markets.
This ensures a reliable sales network, easier communication with local customers regarding their detailed requirements, more reliable distribution of our products to all continents, fast after-sales support, service and maintenance of our products, customer training and spare parts supply at individual distributors.



- OMEGA AIR Headquarters
- OMEGA AIR Subsidiary/ Representative office
- OMEGA AIR Customers

OMEGA AIR
Air and Gas

EXPERIENCES
With its 35+ years of experience in Gas Treatment manufacturing, Omega Air is one of the most experienced producer of Engineered Solutions for Gas Treatment facilities or applications.

INDEPENDENCE
Working from our proper funds and with our own R&D, Welding, Logistics, Moulding/Machining and Mounting departments, we are proud of our independence and of our ability to control the totality of the production line in-house. The total workforce of our company is now close to 400.

QUALITY
Thanks to the above, we are the proud owners of some of the most prestigious certifications of the business, such as ISO 8573-1, ISO 9001, ISO 13485, PED, CE, ASME U, ASME UM, TRCU, ATEX, etc.

Gas classification

COMMON GAS CLASSIFICATION according to PED 97/23 and ATEX 94/9 directives				
Gas	Chemical formula	Fluid group	Atex zone	Temp. class
Acethylene	C_2H_2	1	II C	T2
Hydrochloric acid	HCl	1		
Compressed Air		2		
Ammonia	NH_3	1	II A	T1
Argon	Ar	2		
Nitrogen	N_2	2		
Butadiene	C_4H_6	1	II B	T2
Butane	C_2H_4	1	II A	T2
Bromine	Br_2	1		
Chlorine	Cl_2	1		
Chloroethylene	CH_2=CHCl	1	II C	
Nitrogen dioxide	NO_2	1		
Carbon dioxide	CO_2	2		
Sulphur dioxide	SO_2	1		
Ethane	C_2H_6	1	II A	
Ethylene	CH_2=CH_2	1	II B	T2
Fluor	F_2	1		
Freon (R11, R22)		1		
Natural gas		1	II A	
Coke gas		1	II A	
Helium	He	2		
Hydrogen	H_2	1	II C	T1
Methane	CH_4	1	II A	T1
Methylamine	CH_3-NH_2	1	II A	T1
Carbon monoxide	CO	1		
Neon	Ne	2		
Oxygen	O_2	1		
Ozone	O_3	1		
Phosgene	$COCl_2$	1		
Propane	CH_3-CH_2-CH_3	1	II A	T1
Steam		2		

Note:

- above classification of each gas as well as their zone, class and degree of dangerosity/corrosion also depend on the environment in which they are used
- for each application or project, please give us the inlet pressure, inlet temperature, ambient temperature, gas composition, inlet dew point or humidity rate and flow rate of the gas at given pressure

Classification of fluids according to PED	
Group 1 Fluids	Group 2 Fluids
Explosive	All other fluids
Extremely flammable	
Highly flammable	
Flammable	
Very toxic	
Toxic	
Oxidizers	

Hydrogen is a colourless, odourless, tasteless, flammable (over a wide range of vapor/air concentrations) gaseous substance that is the simplest member of the family of chemical elements. It is also the lightest element on the periodic table. Under ordinary conditions, hydrogen gas is a loose aggregation of hydrogen molecules, each consisting of a pair of atoms, a diatomic molecule, H_2. The earliest known important chemical property of hydrogen is that it burns with oxygen to form water, H_2O.

Group (H_2):	1
Boiling point (H_2):	-252,879 °C
Melting point (H_2):	-259,2 °C
Density (H_2, at STP):	0,08988 g/L

APPLICATIONS

- Petroleum refining
- Glass purification
- Semiconductor manufacturing
- Aerospace
- Welding
- Pharmaceuticals
- "Green mobility" (Fuel Cell Vehicles)

HYDROGEN (H) or DIHYDROGEN (H_2) — Fluid Group 1

Carbon dioxide appears as a colourless odorless gas at atmospheric temperatures and pressures. Relatively nontoxic and noncombustible. It is also heavier than air but soluble in water. However, it can become quite corrosive when mixed with humidity/water and cause physical damages if placed under prolonged exposure to heat or fire.

Group:	2
Boiling point:	-78,46 °C
Melting point:	-56,6 °C
Density (at STP):	1977 kg/m^3

APPLICATIONS

- Bottling (soda, beer, etc)
- Biogas
- Market gardening
- Fire reduction (dry ice)
- Chemicals (agricultural non-pesticidal)
- Refrigeration (used to freeze food, to control chemical reactions)
- Propellants and blowing agents

CARBON DIOXIDE (CO_2) — Fluid Group 2

Compressed Natural Gas (CNG) is essentially a methane gas mixture that has been compressed to a higher pressure than the atmospheric one. It is typically used at 4 to 250 bar. It is one of the most widespread energy used nowadays in the world and its sources can be multiple (fossil, produced as biomethane or RNG by anaerobic disgestion, or through thermochemical processes such as gasification).

Group:	1
Boiling point:	−161,6°C
Melting point:	−182.5°C
Density (at STP):	0,717 kg/m^3

APPLICATIONS

- Fuel for CNG vehicles
- Power generation
- Water heating
- Air conditioning

COMPRESSED NATURAL GAS (CNG) — Fluid Group 1

Methane is a colourless, odourless, non-toxic (in limited quantity) but flammable gas. Methane can be flammable when mixed with air between certain concentrations (4,5 % to 15 %) and where there is an ignition source. It has a role of a fossil fuel and a bacterial metabolite, and is a member of the greenhouse gases group. Most of the time, it is the main component of natural gas and refrigerated liquid (cryogenic liquid).

Group:	1
Boiling point:	−161,6°C
Melting point:	−182.5°C
Density (at STP):	0,657 kg/m^3

APPLICATIONS

- Fuels and fuel additives
- Functional fluids (open systems)
- Laboratory chemicals
- Processing aids
- Plastic and rubber products

METHANE (CH_4) — Fluid Group 1

Helium is a colourless, odourless, noncombustible gas. If inhaled in smaller quantity it will alter the voice but can asphyxiate in inhaled in bigger quantities. It is a noble (or rare) gas, practically inert, the first of the family of noble gases in the periodic table of the elements. Its boiling and melting point are the lowest among all the elements. It is the second lightest and second most abundant element in the observable universe.

Group:	2
Boiling point:	−268,9 °C
Melting point:	−272,2 °C
Density (at STP):	0,1785 g/L

APPLICATIONS

- Manufacturing of semiconductors
- Leak detection (refrigerated systems)
- Lifting
- Breathing (Heliox)
- Cooling
- Inerting

HELIUM (He) — Fluid Group 2

Argon is a colourless, odourless, noncombustible gas. Heavier than air, it can asphyxiate by displacement of air. It is inert and part of the family of noble gases, also called “rare gases”, which also includes helium, neon, krypton, xenon and radon. Argon is the third most abundant constituent of the Earth’s atmosphere.

Group:	2
Boiling point:	−185,8 °C
Melting point:	−189,4 °C
Density (at STP):	1,784 g/L

APPLICATIONS

- Food processing (preservation)
- Gas metal-arc welding (as a shield)
- Gas filler in incandescent light bulbs
- Lasers
- Ionization chambers
- Fire extinguishers

ARGON (Ar) — Fluid Group 2

Neon is a colorless, odorless, inert monatomic gas under standard conditions, with about two-thirds the density of air. It is a noble gas and was discovered (along with krypton and xenon) as one of the three residual rare inert elements remaining in dry air, after nitrogen, oxygen, argon and carbon dioxide were removed. Neon is a rare element and, as liquid or gas, is therefore relatively expensive. And unlike helium, it can only be obtained in usable quantities by filtering it out of the atmosphere.

Group:	2
Boiling point:	−246 °C
Melting point:	−248,6 °C
Density (at STP):	0,89990 g/L

APPLICATIONS

- Signing
- Vacuum tubes
- Lasers
- Refrigeration

NEON (ne) — Fluid Group 2

Nitrogen Dioxide is part of the generic nitrogen oxide pollutants NOx, highly reactive gases. Concentrated, it appears as a suffocating poisonous red-brown gas. Elevated levels of nitrogen dioxide can cause damage to the human respiratory tract and increase a person's vulnerability to, and the severity of, respiratory infections and asthma.

Group:	1
Boiling point:	21 °C
Melting point:	21 °C
Density (at STP):	1,880 g/L

APPLICATIONS

- Production of nitric acid (fertilizers)
- Manufacturing of chemical explosives
- Sterilization
- Polymerization (inhibitor)

NITROGEN DIOXIDE (NO_2) — Fluid Group 1

Ammonia is a colourless gas with a distinct pungent smell. It is a chemical compound emitted by animal waste and nitrogen fertilizers used for crop fertilization as it is a source of nitrogen. Its excessive deposition in the natural environment can lead to the acidification and eutrophication of environments.

Group:	1
Boiling point:	−33,34 °C
Melting point:	−77.73 °C
Density (at STP):	0,769 kg/m^3

APPLICATIONS

- Solvent
- Fertilizer
- Fermentation
- Fuel component
- Refrigeration

AMMONIA (NH_3) — Fluid Group 1

FILTERS and FILTER ELEMENTS

AAF series - Aluminium filters

Ne He Ar CO_2

Fluid Group 2

16 bar
operating pressure

10 to 2.760 Nm³/h
volume flow rate

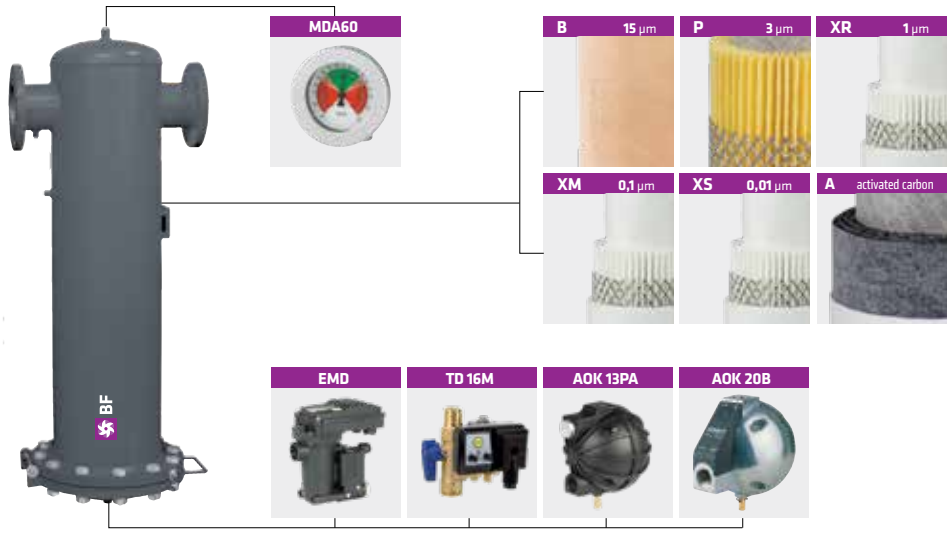
1/8" to 3"
connections

1,5 to 65 °C
operating temperature range

aluminium
material

RAL 7021
standard colour

BF series - Welded carbon steel filters



Ne He Ar CO_2

Fluid Group 2

16 bar
operating pressure

1.680 to 31.400 Nm³/h
volume flow rate

DN80 to DN300
connections

1,5 to 65 °C
operating temperature range

RAL 7021
standard colour

carbon steel
material

BF HP series - Welded carbon steel high pressure filters

Fluid Group 2

25 bar
operating pressure

1.680 to 31.400 Nm³/h
volume flow rate

DN80 to DN300
connections

1,5 to 65 °C
operating temperature range

RAL 7021
standard colour

Carbon steel
material

HF series - Cast aluminium high pressure filters

Fluid Group 2

50 bar
operating pressure

71 to 2760 Nm³/h
volume flow rate

1/2" to 3"
connections

1,5 to 65 °C
operating temperature range

RAL 7021
standard colour

aluminium
material

CHP series - Carbon steel high pressure filters

Fluid Group 2

100, 250, 420 bar
operating pressure

40 to 715 Nm³/h
volume flow rate

1/4" to 2"
connections

1,5°C to 65°C
operating temperature range

Nickel plated 15 µm
surface protection

WFIT series - Welded stainless steel filters - threaded connection

Fluid Group 1

14 bar
operating pressure

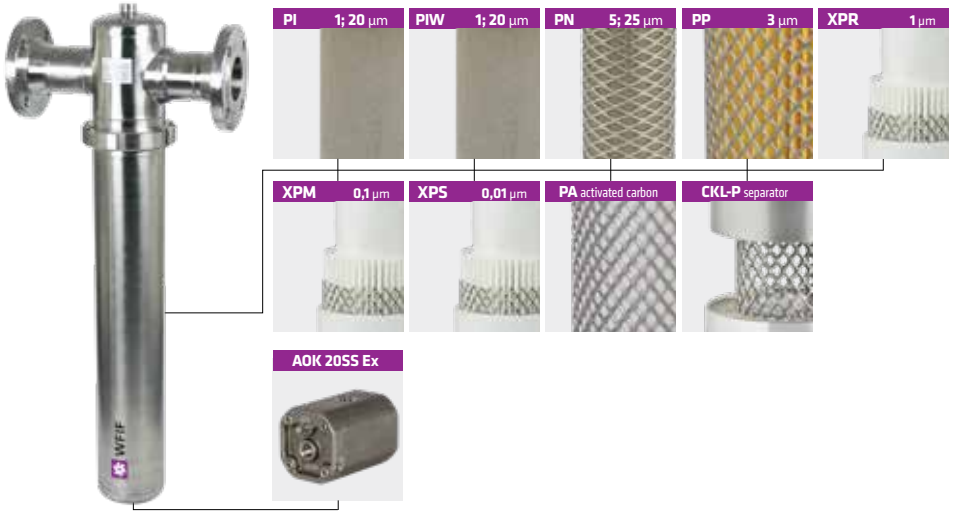
75 to 3600 Nm³/h
volume flow rate

1/4" to 3"
connections

-20 to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

WFIF series - Welded stainless steel filters - flanged connection



Fluid Group 1

14 bar
operating pressure

150 to 21.120 Nm³/h
volume flow rate

DN15 to DN200
connections

-20 to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

WFIW series - Welded stainless steel filters - welding end connection

Fluid Group 1

14 bar
operating pressure

75 to 3.600 Nm³/h
volume flow rate

ø13 to ø219,1
connections

up to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

WHFIT series - High pressure stainless steel filters

Fluid Group 1

50 bar
operating pressure

150 to 2400 Nm³/h
volume flow rate

1/2" to 3"
connections

0 to 120 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

SPF series - Stainless steel sterile filters

Fluid Group 1

14 bar
operating pressure

75 to 3600 Nm³/h
volume flow rate

1/4" to 3"
connections

-20 to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

SF series - Stainless steel sterile filters

Fluid Group 1

10 bar
operating pressure

75 to 21.120 Nm³/h
volume flow rate

DN10 to DN80 TC ISO
DN100 to DN200 EN
connections

1,5°C to 150°C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

IHP series - High pressure stainless steel filters

Fluid Group 1

100, 250, 420 bar
operating pressure

40 to 715 Nm³/h
volume flow rate

1/4" to 2"
connections

1,5°C to 65°C
operating temperature range

stainless steel 1.4301 - option
stainless steel 1.4404 - standard
material

ACTIVATED CARBON TOWERS

TAC series - Activated carbon towers

Fluid Group 1

2 - 420 bar
operating pressure

50 to 6.500 Nm³/h
volume flow rate

3/8" to DN125
connections

+ 50°C
max. inlet temperature

stainless steel 1.4404
material

TAC and HP TAC series - Activated carbon towers

Fluid Group 2

2 - 420 bar
operating pressure

50 to 6.500 Nm³/h
volume flow rate

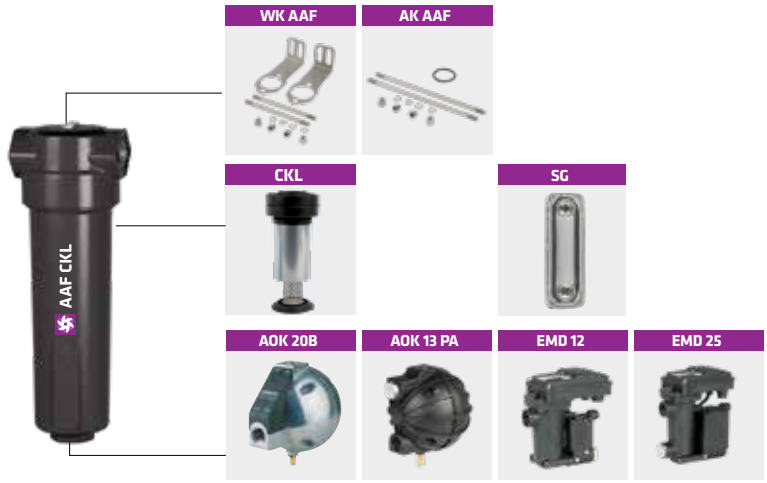
3/8" to DN125
connections

+ 50°C
max. inlet temperature

carbon steel
stainless steel 1.4404
material

CONDENSATE SEPARATORS

AAF CKL series - Aluminium condensate separator



Ne He Ar CO_2

Fluid Group 2

16 bar
operating pressure

10 to **2.760** Nm³/h
volume flow rate

1/8” to **3”**
connections

1,5 to **65** °C
operating temperature range

RAL 7021
standard colour

aluminium
material

CS series - Welded condensate separator

Ne He Ar CO_2

Fluid Group 2

16 (13) bar
operating pressure

840 to **14.280** Nm³/h
volume flow rate

DN65 to **DN300**
connections

1,5 to **120** °C
operating temperature range

carbon steel
material

SFH series - Welded condensate separators

Fluid Group 2

16 (13) bar
operating pressure

840 to 14.280 Nm³/h
volume flow rate

DN65 to DN300
connections

1,5 to 120 °C
operating temperature range

carbon steel
material

SFH HP series - Welded high pressure condensate separators

Fluid Group 2

50 bar
operating pressure

1.760 to 12.550 Nm³/h
volume flow rate

DN80 to DN350
connections

1,5 to 65 °C
operating temperature range

carbon steel
material

HF CKL series - Aluminium condensate separators

Fluid Group 2

50 bar
operating pressure

71 to 2760 Nm³/h
volume flow rate

1/2" to 3"
connections

1,5 to 65 °C
operating temperature range

aluminium
material

CHP CKL series - Carbon steel high pressure condensate separators

Ne He Ar CO_2 Steam

Fluid Group 2

100, 250, 420 bar
operating pressure

40 to 715 Nm^3/h
volume flow rate

1/4" to 2"
connections

1,5 to 65 °C
operating temperature range

Nickel plated 15 µm
surface protection

WFIT CKL series - Welded stainless steel cyclone sep. - threaded connection

H_2 CH_4 CNG NO_2 NH_3

Fluid Group 1

14 bar
operating pressure

75 to 3600 Nm^3/h
volume flow rate

1/4" to 3"
connections

-20 to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

WFIF CKL series - Welded stainless steel cyclone sep. - flanged connection

H_2 CH_4 CNG NO_2 NH_3

Fluid Group 1

14 bar
operating pressure

150 to 21.120 Nm^3/h
volume flow rate

DN15 to DN200
connections

-20 to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

WFIW CKL series - Welded stainless steel cyclone sep. - welding end conn.

Fluid Group 1

14 bar
operating pressure

75 to 3.600 Nm³/h
volume flow rate

ø13 to ø219,1
connections

up to +150 °C
operating temperature range

stainless steel 1.4404-standard
stainless steel 1.4301-option
material

CS SS series - Welded stainless steel condensate separator

Fluid Group 1

16 (13) bar
operating pressure

840 to 14.280 Nm³/h
volume flow rate

DN65 to DN300
connections

1,5 to 120 °C
operating temperature range

CS SS: stainless steel 1.4404
material

SFH SS series - Welded stainless steel condensate separator

Fluid Group 1

16 (13)bar
operating pressure

1760 to 12550 Nm³/h
volume flow rate

DN80 to DN350
connections

1,5 to 120 °C
operating temperature range

SFH SS: stainless steel 1.4404
material

SFH SS HP series - Welded stainless steel high pressure cond. separator

H_2 CH_4 CNG NO_2 NH_3

Fluid Group 1

50 bar
operating pressure

1.760 to 12.550 Nm³/h
volume flow rate

DN80 to DN350
connections

1,5 to 150 °C
operating temperature range

SFH SS: stainless steel 1.4404
material

IHP CKL series - Stainless steel high pressure condensate separator

H_2 CH_4 CNG NO_2 NH_3

Fluid Group 1

100, 250, 420 bar
operating pressure

40 to 715 Nm³/h
volume flow rate

1/4" to 2"
connections

1,5 to 65 °C
operating temperature range

stainless steel 1.4301-standard
stainless steel 1.4404-option
material

ADSORPTION DRYERS

CNG adsorption dryers

Compressed natural gas dryers (CNG dryers) are designed for continuous separation of water vapour from compressed natural gas thus lowering the dew point.

Three types of dryers are available:
- Heatless regenerated: expanded natural gas used for regeneration. Purged gas released to torch and/or guided to compressor inlet.
- Heat regenerated: hot natural gas used for regeneration. Purged gas to torch and/or guided to compressor inlet.
- Without regeneration (single or double column): replacement of adsorbent at each maintenance interval or external regeneration unit to be connected.

For any new project, we require the following data to be able to prepare a quotation:
- Inlet pressure
- Inlet temperature
- Inlet water content
- Preferred dryer type (AUTOMATIC / MANUAL)
- Preferred type of regeneration (HEATLESS / HEAT / REPLACEMENT OF ADSORBENT / EXTERNAL REGENERATION UNIT)
- Availability of water cooling water (YES/NO). If yes temperature of cooling water.
- Possibility to guide regeneration gas to the suction side of the compressor (YES/NO)

4-40 bar
operating pressure

100 to 12.550 Nm³/h
volume flow rate

DN80 to DN350
connections

-20 to -70 °C
outlet pressure dew point

CO_2 adsorption dryers

Compressed Carbon Dioxide Dryers (CO_2 Dryers) are designed for continuous separation of water vapour from compressed carbon dioxide, thus lowering its pressure dew point.

Carbon Dioxide is an inert gas which can be highly corrosive, depending on its level of humidity. Compressed Carbon Dioxide Dryers (CO_2 Dryers) are therefore normally custom made, to meet specific project requirements. Several versions are available, based on operating pressure, temperature, requested pressure dew point and level of humidity. Depending on this last criteria, the dryer's materials will need to be modified.

The type of regeneration is Heat Regenerated. Depending on the existence and type of available fluids to conduct this regeneration/cooling, we then adapt the components of the CO_2 Dryer, to ensure that a strict minimum of gas will be lost during the regeneration phase.

For any new project, we require the following data to be able to prepare a quotation:
- Inlet pressure
- Inlet flow rate
- Inlet temperature
- Inlet water content
- Outlet required Pressure Dew Point (PDP)
- Availability of external dry gas for regeneration/cooling. If yes temperature and dew point of the gas.
- Availability of water for regeneration/cooling. If yes temperature of cooling water.

4-40 bar
operating pressure

100 to 12.550 Nm³/h
volume flow rate

DN80 to DN350
connections

1,5 to 65 °C
operating temperature range

HELIUM adsorption dryers

Compressed Helium Dryers (He Dryers) are designed for continuous separation of water vapour from compressed helium, thus lowering its pressure dew point.

Since many industries can benefit from its unique properties to optimize their performance and productivity, to reduce labor costs and to make their operations safer, it is very important to determine in advance the technology which will best fit your Helium application.

For any new project, we require the following data to be able to prepare a quotation:
- Application
- Inlet pressure
- Inlet flow rate
- Inlet temperature
- Outlet required Pressure Dew Point (PDP)

4-420 bar
operating pressure

on request
volume flow rate

1,5 to 50 °C
operating temperature range

-25 to -70 °C
pressure dew point

HYDROGEN adsorption dryers

Compressed Hydrogen Dryers (H2 Dryers) are designed for continuous separation of water vapour from compressed hydrogen, thus lowering its pressure dew point.

Hydrogen is a highly combustible gas to be cautious about and Compressed Hydrogen Dryers are normally custom made, to meet specific project requirements. Provided that the level of Oxygen (or any other reactive component) is reduced to a minimum in the gas mix, several versions are available, based on operating pressure, temperature and requested pressure dew point.

The type of regeneration is Heat Regenerated. Depending on the existence and type of available fluids to conduct this regeneration/cooling, we then adapt the components of the Hydrogen Dryer, to ensure that a strict minimum of gas will be lost (1-2% maximum when external dry gas is available for regeneration/cooling for instance).

For any new project, we require the following data to be able to prepare a quotation:
- Inlet pressure
- Inlet flow rate
- Inlet temperature
- Inlet water content
- Outlet required Pressure Dew Point (PDP)
- Availability of external dry gas for regeneration/cooling. If yes temperature and dew point of the gas.
- Availability of water for regeneration/cooling. If yes temperature of cooling water.

4-420 bar
operating pressure

on request
volume flow rate

1,5 to 40 °C
operating temperature range (inlet)

-25 to -70 °C
pressure dew point

PRESSURE TANKS

PV PED - pressure vessels PED

11 bar
operating pressure

-10 to +120 °C
operating temperature range

Pressure vessels are designed and manufactured according to the European Directive and International Standard:

STANDARD:
- Directive 2014/68/EU PED Pressure Equipment

OPTION:
- Directive 2014/29/EU Simple Pressure Vessel
- ASME "U" Designator (The American Society of Mechanical Engineers (section VIII div. 1)
- NATIONAL BOARD REGISTRATION (Boiler and Pressure Vessel)
- CRN Canadian Registration Number
- EAC - REGULATIONS Customs Union "On the safety equipment of high pressure" (TR TC 032/2013)
- EAC - REGULATIONS Customs Union "On the safety on machines and equipment" (TR CU 010/2011)
- Lloyd's Register for ship - Fusion Welded Class 2.1
- SII – The Standards Institutions of Israel
- DGM / DPP Algeria (ex ARH)
- Tunisia
- UKR Ukraine
- MHLW Japan
- DOSH Malaysia
- AS 1210 Australian Standard
- MOM Singapore
- NR13 Brazil
- Serbia AAA
- TUV
- Bureau Veritas
- Rina
- SGS
- DNV – GL
- ABS American Bureau of Shipment

HPV PED - high pressure vessels PED

up to 48 bar
operating pressure

-10 to +120 °C
operating temperature range

Custom made PV - custom made pressure vessels

on request
operating pressure

on request
operating temperature range

on request
design

REFERENCES

High pressure filters 300 bar

Quantity:	150 pcs
Project:	LNG project
End client:	PSN Kazstroy
Country:	Kazakhstan
Design code:	ASME Sec.VIII Div.1
Approval:	ASME-U
Year of production:	2014-2016
Operating pressure:	300 bar
Nominal flow:	1560 Nm^3/h
Temp. operating range:	-36 to +65°C
Connections:	1/2" NPT
Material:	Stainless steel SA-479 gr. 304

Stainless steel process filters

Quantity:	4 pcs
Project:	Hassi Messaoud Project
End client:	Sonatrach
Design code:	ASME Sec.VIII Div.1
Approval:	ASME-U; ARH
Year of production:	2015
Operating pressure:	11 bar
Nominal flow:	1890 Nm^3/h
Temp. operating range:	-10°C to +93°C
Connections:	DN80
Material:	SS SA-312 TP316L

Carbon steel filters

Quantity:	8 pcs
Project:	Midyan gas processing facilities
End client:	Saudi Aramico
Design code:	ASME Sec.VIII Div.1
Approval:	ASME-U
Year of production:	2015
Operating pressure:	9 bar
Nominal flow:	2100 Nm^3/h
Temp. operating range:	-5°C to +90°C
Connections:	DN80
Material:	Carbon steel SA-106 Gr. B

FILTER SFH 62 / WHFIF 600 DN100 DUAL SS304 - ASME-U

Quantity:	1 pc SFH 62 and 2 pcs WHFIF 600
Project:	Big run
End client:	DMT
Design code:	ASME Sec.VIII Div.1
Approval:	ASME-U; National Board
Year of production:	2018
Operating pressure:	25 bar
Temp. operating range:	-10°C to +100°C
Connections:	DN100
Material:	Stainless Steel 304/304L (316/316L)

Custom Heat Regenerated Adsorption Dryer for Hydrogen

Quantity:	2
Application:	Drying of pure hydrogen coming from electrolysis
Country:	UK
Design code:	PED
Approval:	PED, CE, ATEX
Year of production:	2021
Operating pressure:	34 barg
Nominal flow:	48 m^3/h
Dew point:	-60°C
Gas loss (average):	< 1,5 % (0 % during heating)

Dryer CO_2 for water bottling plant

Quantity:	1
Application:	CO_2 dryer
End client:	Bru
Country:	Belgium
Design code:	PED
Approval:	ISO, CE, PED
Year of production:	2021
Operating pressure:	up to 25 bar
Max. inlet flow :	50 kg/h or 28 Nm^3/h
Inlet temperature:	35 °C
Ambient temperature:	35 °C
Dew point:	-60 °C

G-DRY 1000 M - CNG dryer for filling of buses

Quantity:	1
Application:	CNG dryer for filling buses
End customer:	Transdev Chartres
Country:	France
Design code:	PED
Approval:	PED, CE, ATEX
Year of production:	2021
Operating pressure:	4 barg
Nominal flow:	1000 m^3/h
Dew point:	-70°C

CO_2 dryer for biogas application

Quantity:	1
Application:	Biogas
Country:	France
Year of production:	2020
Operating pressure:	25 bar
Nominal flow :	200 Nm^3/h
Max. inlet temperature:	40 °C
Gas composition:	99% CO_2, 1% CH_4

Pressure tank 2100 TP 1300 V3

Quantity:	2 pcs
Project:	YAMAL LNG Plant
End client:	Yamgaz SNC
Country:	Russia
Design Code:	ASME Code Sec.VIII Div.1 + GOST-R 52630
Approval:	ASME-U + EAC
Year of production:	2017
Operating pressure:	3 bar
Fluid:	Glycolated water
Connections:	DN15, DN20, DN40, DN50, DN600
Material:	ASME Code Sec.II; Carbon steel

Tank for turbo washing unit

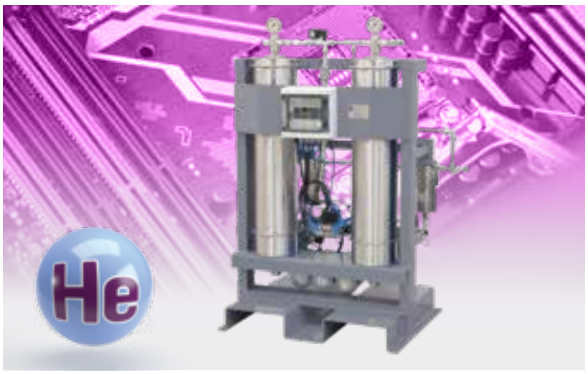
Quantity:	4 pcs
Project:	YAMAL LNG Plant
End client:	Yamgaz SNC
Country:	Russia
Design Code:	ASME Code Sec.VIII Div.1 + GOST-R 52630
Approval:	ASME-U + EAC
Year of production:	2017
Operating pressure:	7 bar
Temp. operating range:	-50°C to +100°C
Connections:	DN25, DN40, DN50
Material:	ASME Code Sec.II; Stainless steel Grade 304

Lube oil service tank unit 5000 l

Quantity:	2
Project:	YAMAL LNG Plant
End client:	Yamgaz SNC
Country:	Russia
Year of production:	2017
Operating pressure:	Hydrostatic
Capacity:	5000 Litres
Temp. operating range:	-50°C to +80°C
Design code:	ASME Code Sec.VIII Div.1; GOST-R 52630
Approval:	EAC
Material:	Stainless steel 304 (ASME)

Drainage tank unit

Quantity:	2
Project:	YAMAL LNG Plant
End client:	amgaz SNC
Country:	Russia
Year of production:	2017
Operating pressure:	Hydrostatic
Temp. operating range:	-50°C to +80°C
Design code:	ASME Code Sec.VIII Div.1; GOST-R 52630
Approval:	EAC
Connections:	DN50, DN100, DN150, DN800
Material:	Stainless steel 304 (ASME)



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