

Compressed Air Management



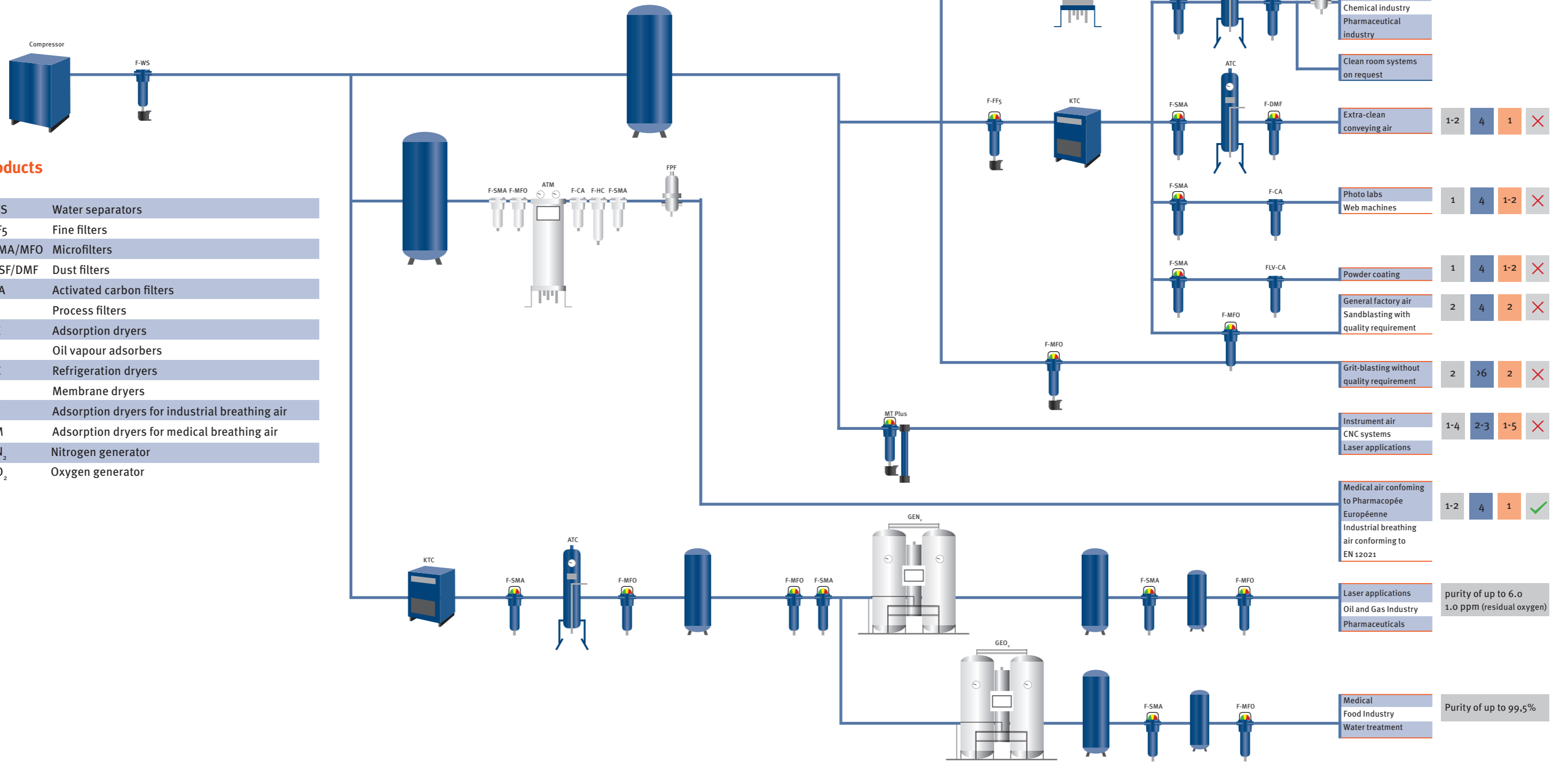
Compressed air quality classes conforming to ISO 8573-1:2010

Solids/particles			Water		Oil		
Class	Max. particle count per m ³		Class	Pressure dew point	Class	Overall oil concentration	
with a particle size of d [µm]*			(must be defined)				
	0,1 ≤ d ≤ 0,5	0,5 ≤ d ≤ 1,0	1,0 ≤ d ≤ 5,0				
0	stricter requirements than Class 1			1	≤ -70 °C	0	stricter requirements than Class 1
(must be defined)			(must be defined)			(liquid, aerosol + gaseous) [mg/m ³]*	
1	≤ 20.000	≤ 400	≤ 10	2	≤ -40 °C	1	≤ 0,01
2	≤ 400.000	≤ 6.000	≤ 100	3	≤ -20 °C	2	≤ 0,1
3	-	≤ 90.000	≤ 1.000	4	≤ +3 °C	3	≤ 1,0
4	-	-	≤ 10.000	5	≤ +7 °C	4	≤ 5,0
5	-	-	≤ 100.000	6	≤ +10 °C	X	> 5,0

*under reference conditions 20 °C, 1 bar(a), 0% air humidity

Products

F-WS	Water separators
F-FF5	Fine filters
F-SMA/MFO	Microfilters
F-DSF/DMF	Dust filters
F-CA	Activated carbon filters
FPF	Process filters
ATK	Adsorption dryers
ATC	Oil vapour adsorbers
KTC	Refrigeration dryers
MT	Membrane dryers
ATT	Adsorption dryers for industrial breathing air
ATM	Adsorption dryers for medical breathing air
GEN ₂	Nitrogen generator
GEO ₂	Oxygen generator



	Particles	Water & moisture	Overall oil	Germs
Clean room systems on request				
Dairy industry	1-2	1-3	1	✓
Brewing industry				
Food industry				
Breathing air				
Pharmaceutical industry				
Chip manufacture	1-2	1-3	1	✗
Optics				
Process air				
Laboratory air				
General application exposed to frost risk	1-2	1-3	2	✗
Ultra-fine pressure regulator				
Food industry packaging	1-2	4	1	✓
Chemical industry				
Pharmaceutical industry				
Clean room systems on request				
Extra-clean conveying air	1-2	4	1	✗
Photo labs	1	4	1-2	✗
Web machines				
Powder coating	1	4	1-2	✗
General factory air	2	4	2	✗
Sandblasting with quality requirement				
Grit-blasting without quality requirement	2	>6	2	✗
Instrument air	1-4	2-3	1-5	✗
CNC systems				
Laser applications				
Medical air conforming to Pharmacopée Européenne	1-2	4	1	✓
Industrial breathing air conforming to EN 12021				
Laser applications	purity of up to 6.0			
Oil and Gas Industry	1.0 ppm (residual oxygen)			
Pharmaceuticals				
Medical	Purity of up to 99,5%			
Food Industry				
Water treatment				