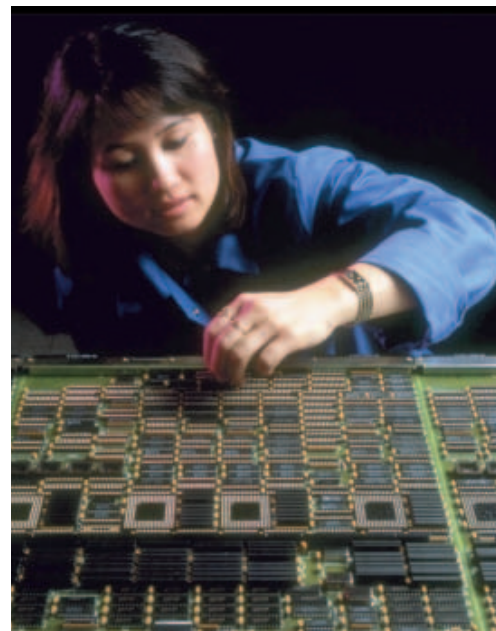


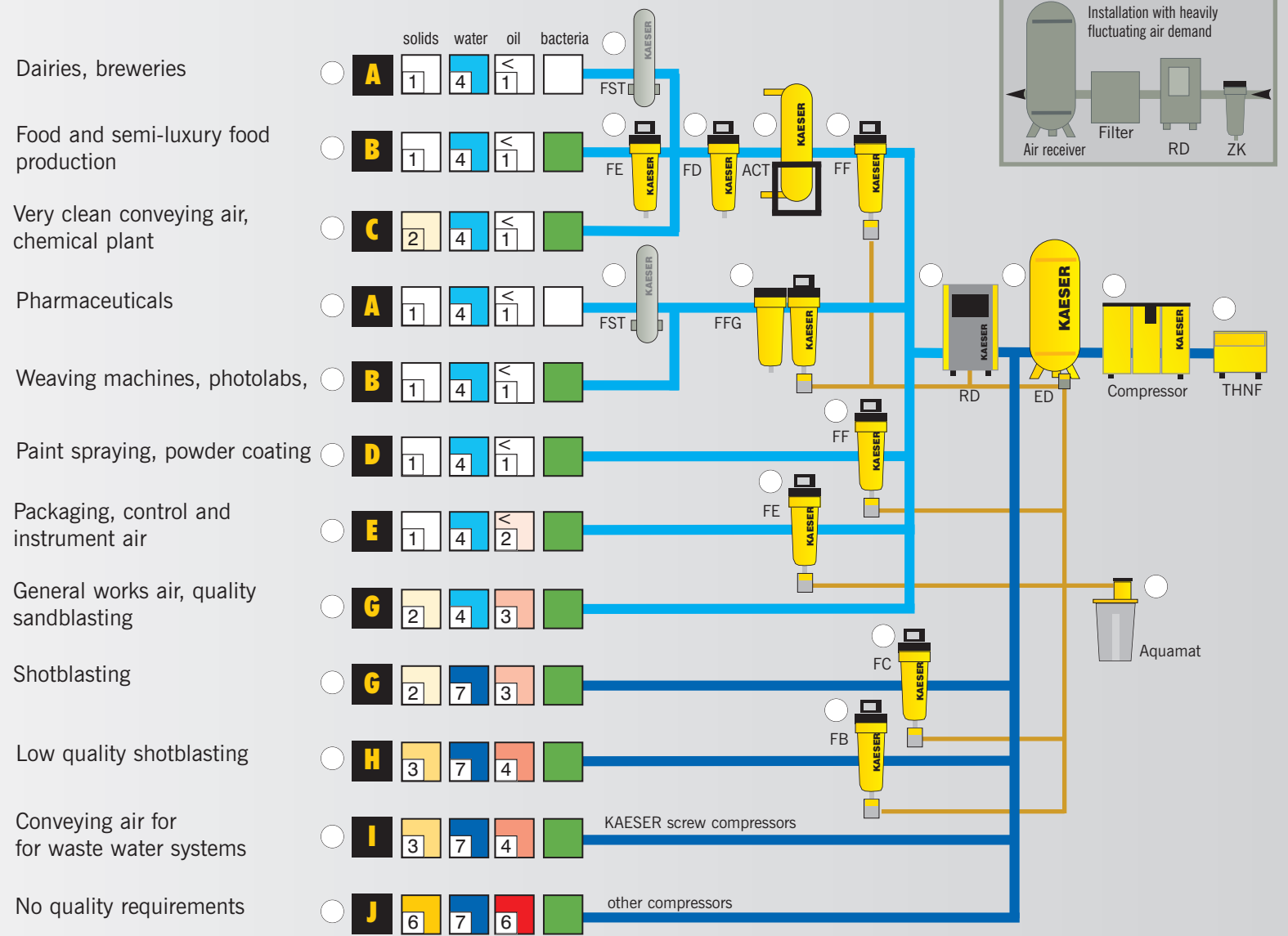
for all fields of industry



Selected air treatment components

Choose the required grade of treatment according to your field or application:

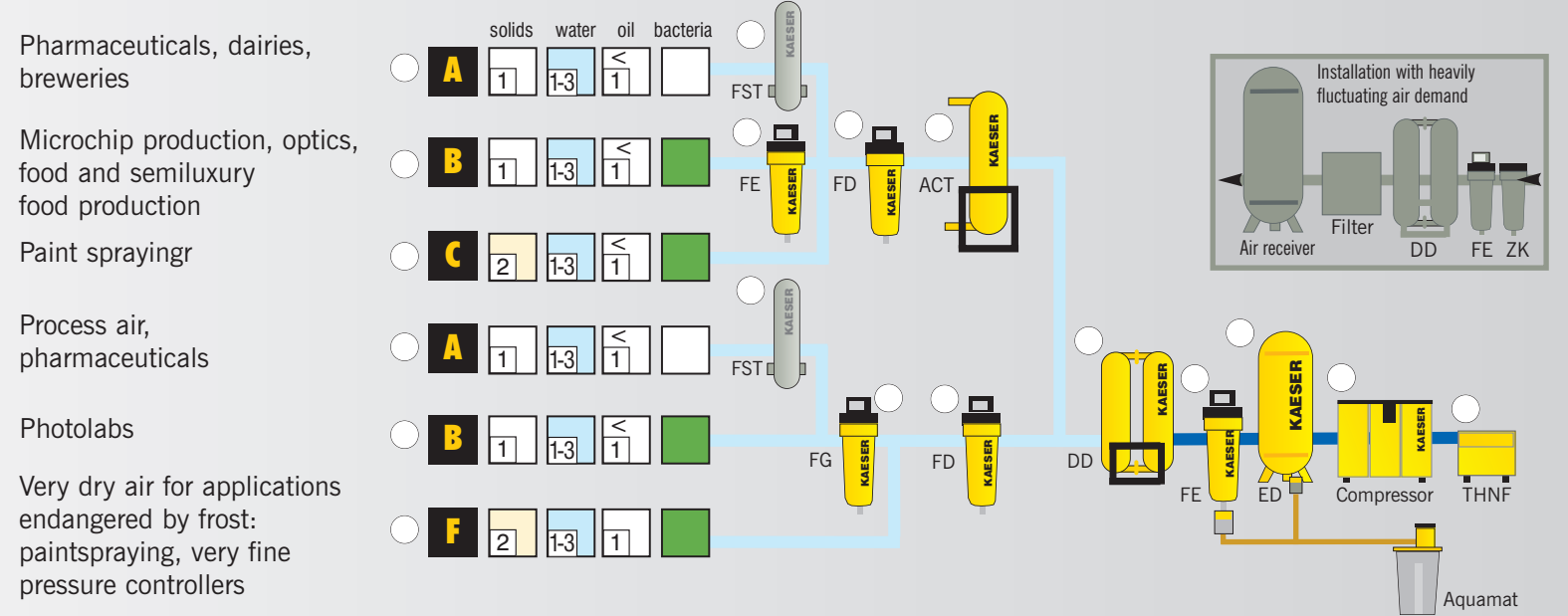
Air treatment using a refrigeration dryer (+3 °C pressure dew point)



Explanation:

- THNF=bag filter**
cleans dusty and highly contaminated intake air
- ZK=centrifugal separator**
separates accumulating condensate
- ED=ECO DRAIN**
electronic level controlled condensate drain
- FB=prefilter 3 μm**
separates liquid droplets and solid particles >3μm, oil content ≤5mg/m³
- FC=prefilter 1 μm**
separates oil droplets and solid particles >1μm, oil content ≤1mg/m³
- FD=particulate filter 1μm**
separates dust particles (attrition) >1μm
- FE=microfilter 0.01 ppm**
separates oil aerosols and solid particles >0.01μm, aerosol oil content ≤0.01 mg/m³
- FF=microfilter 0.001 ppm**
separates oil aerosols and solid particles >0.01μm, aerosol oil content ≤0.001 mg/m³
- FG=activated carbon filter**
for adsorption of oil vapours, oil vapour content ≤0.003 mg/m³
- FFG=combination filter**
comprising FF and FG
- RD=refrigeration dryer**
dries compressed air, pressure dew point to +3 °C
- DD=desiccant dryer**
dries compressed air, DC series: heatless regeneration, pressure dew point to -70 °C
DW, DN, DTL, DTW series: heat regeneration, pressure dew point to -40 °C
- ACT=activated carbon adsorber**
for adsorption of oil vapours, oil vapour content ≤0.003 mg/m³
- FST=sterile filter**
provides bacteria-free compressed air
- Aquamat=**for condensate separation

For air mains endangered by frost: treatment with a desiccant dryer (down to -70 °C pressure dew point)



- A** Oil vapour content ≤ 0.003 mg/m³, particle retention > 0.01 μm, sterile, odourless and tasteless
- B** Oil vapour content ≤ 0.003 mg/m³, particle retention > 0.01 μm
- C** Oil vapour content ≤ 0.003 mg/m³, particle retention > 1 μm
- D** Aerosol oil ≤ 0.001 mg/m³, particle retention > 0.01 μm
- E** Aerosol oil ≤ 0.01 mg/m³, particle retention > 0.01 μm
- F** Aerosol oil ≤ 0.01 mg/m³, particle retention > 1 μm
- G** Aerosol oil ≤ 1 mg/m³, particle retention > 1 μm
- H** Aerosol oil ≤ 5 mg/m³, particle retention > 3 μm
- I** Aerosol oil ≤ 5 mg/m³, particle retention > 1 μm
- J** untreated

Contaminants:

+	solids	-
+	water	-
+	oil	-
+	bacteria	-

Degree of filtration:

Class	Solid particles				Humidity Pressure dewpoint (x=concentration of liquid water in mg/m ³)	Total oil concentration mg/m ³
	Max. no. of particles per m ³	Particle size d (μm)				
ISO 8573-1						
1	≤0.1	0.1 < d ≤ 0.5	0.5 < d ≤ 1.0	1.0 < d ≤ 5.0	≤ -70 °C	≤0.01
2	100	1	10	-	≤ -40 °C	≤0.1
3	100000	1000	500	-	≤ -20 °C	≤1.0
4	-	-	1000	-	≤ +3 °C	≤5.0
5	-	-	20000	-	≤ +7 °C	-
6	-	-	-	≤ 5	≤ +10 °C	-
7	-	-	-	≤ 40	x ≤ 0.5	-
8	-	-	-	-	0.5 < x ≤ 5.0	-
9	-	-	-	-	5.0 < x ≤ 10.0	-

Comprehensive design know-how

Depending on the application, compressed air systems are often highly complex. Over the long term they can only operate really efficiently if this fact is taken into account adequately during the design phase, during modernization and during daily operation. KESS (Kaeser Energy Saving System) is

advice and services that have proven themselves over years of practice with new ideas made possible by optimum use of data processing in the compressed air field. Air systems designed by KAESER are characterised by their efficient use of energy. Utilisation factors of 95 percent and

installation. This high standard has been achieved with the help of years of experience in system and plant design, computer-aided system analysis and 3-D design aids. Why don't you take advantage of this know-how and have your air system designed by KAESER COMPRESSORS.



available to you as a comprehensive service that calculates the optimum volume of compressed air needed for your factory. This service combines elements such as air components, user

more are possible for the compressor packages. Air quality, tailored to the application, at lowest cost and with high operational reliability, are further characteristics typical of a KAESER