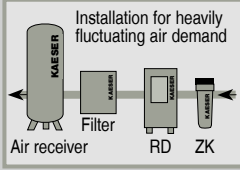
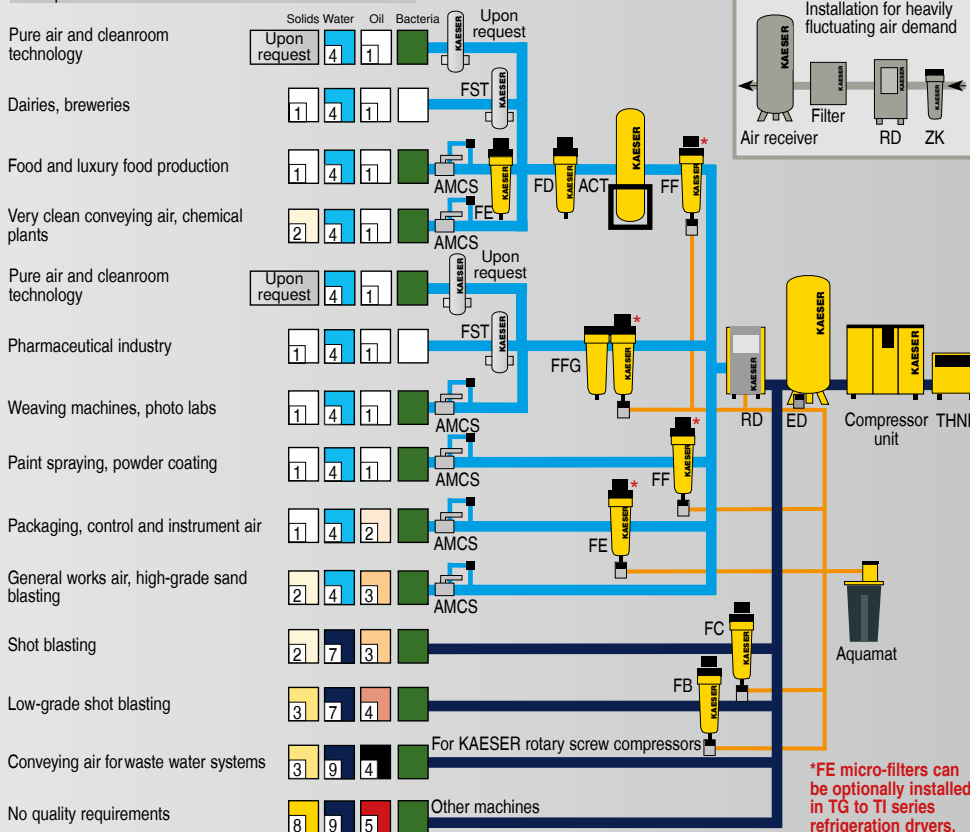


# Choose the required grade of treatment according to your field of application:

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

Examples: Selection of treatment classes to ISO 8573-1<sup>(1)</sup>



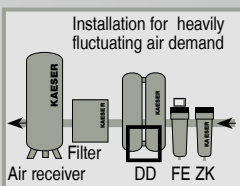
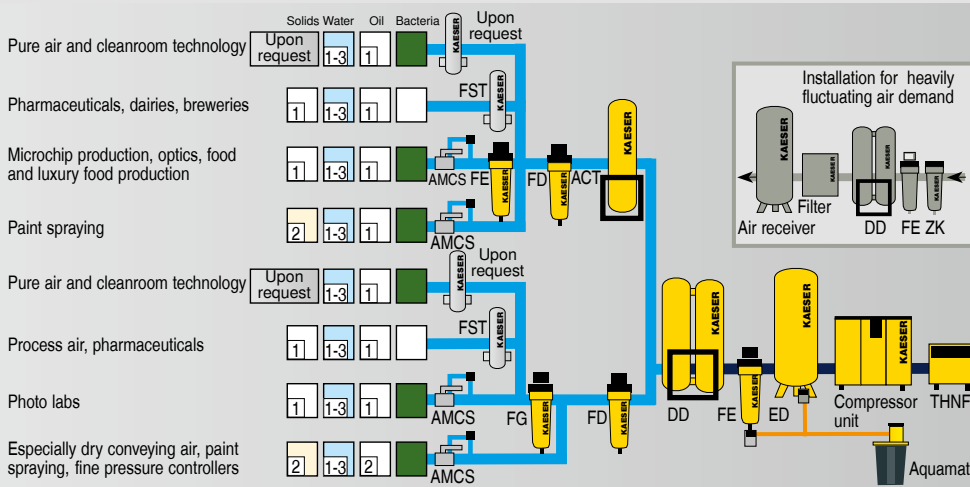
### Explanation:

- THNF = Bag filter**  
Cleans dusty and heavily contaminated intake air
- ZK = Centrifugal separator**  
Separates accumulating condensate
- ED = Eco-drain**  
Electronic level-controlled condensate drain
- FB = Pre-filter**
- FC = Pre-filter**
- FD = Particulate filter (attrition)**
- FE = Micro-filter**  
Separates aerosol oil and solid particles
- FF = Micro-filter**  
Separates aerosol oil and solid particles
- FG = Activated carbon filter**  
For adsorption of oil vapours
- FFG = Activated carbon and micro-filter combination**
- RD = Refrigeration dryer**  
For drying compressed air, pressure dew point to +3 °C
- DD = Desiccant dryer**  
For drying compressed air, pressure dew point to -70 °C
- ACT = Activated carbon adsorber**  
For adsorption of oil vapours
- FST = Sterile filter**  
For sterile compressed air
- Aquamat = Condensate treatment system**
- AMCS = Air main charging system**

### Contaminants:

+	Solids	-
+	Water/Condensate	-
+	Oil	-
+	Bacteria	-

## For air mains subject to sub-zero temperatures: Compressed air treatment with a desiccant dryer (pressure dew point to -70 °C)



### Degree of filtration:

Class ISO 8573-1	Solid particles <sup>(1)</sup>		Humidity <sup>(2)</sup>	Total oil content <sup>(3)</sup>
	Max. particle size µm	Max. particle concentration mg/m <sup>3</sup>	Pressure dew point (x = Liquid water in g/m <sup>3</sup> )	mg/m <sup>3</sup>
0	e.g. Consult KAESER regarding pure air and cleanroom technology			
1	0,1	0,1	≤ -70	≤ 0,01
2	1	1	≤ -40	≤ 0,1
3	5	5	≤ -20	≤ 1
4	15	8	≤ +3	≤ 5
5	40	10	≤ +7	-
6	-	-	≤ +10	-
7	-	-	x ≤ 0,5	-
8	-	-	0,5 < x ≤ 5	-
9	-	-	5 < x ≤ 10	-

<sup>(1)</sup> As per ISO 8573-1:1991 (The specification for particle content is not measured as per ISO 8573-1:2001, as the limits defined therein for Class 1 are to be applied to 'Cleanrooms').  
<sup>(2)</sup> As per ISO 8573-1:2001