

# ALLGAIER Dryers/Coolers Questionnaire

We need information that is as detailed as possible to provide the best design of an ALLGAIER dryer/cooler. Of course, we treat your data confidentially.

## 1. Customer information

Customer: Contact via:  
 Street: Postal code: City:  
 Contact person: Position:  
 Dept.: Tel.:  
 Mobile: Fax:  
 Email:

## 2. Activity

**Sector:** **Products:**

Process technology in use:

Drying      Screening      Sorting      Washing      Cooling

Manufacturer:

## 3. Field of application

**Objective:**

Drying      Heating      Cooling to a final temperature  
 Drying und cooling      Drying und cleaning      Granulating

**Material:**

### Product moisture to be removed by drying

Surface water      Water found in the product      Water of crystallization      Miscellaneous (please specify)

In the case of water of crystallization: Hydration energy (energy to release the water of crystallization): kJ/kg

Temperature at which the water of crystallization is stripped at ambient pressure: °C

**Material properties:**

**Damp material**  
(before drying)

**Dry material**  
(after drying or after cooling)

Product moisture: % by weight  
 Product throughput: kg/h  
 Product temperature: °C  
 Average bulk density: kg/m<sup>3</sup>  
 Average specific heat capacity: kJ/kgK

Free flowing, pourable      Hygroscopic      Prone to sticking      Wearing, abrasive      Corrosive

**Grain sizes (please enter or supply grain size distribution curve):**

0 - 0.5 mm:	%	0.5 - 1.0 mm:	%	1.0 - 2.0 mm:	%	2.0 - 5.0 mm:	%
5 - 10 mm:	%	5 - 15 mm:	%	15 - 20 mm:	%	> 20 mm:	%

**Heating medium available (please mark and specify):**

Steam or saturated steam	Temperature:	°C
	Pressure:	bar abs
Gas (natural gas, LPG)	Calorific value:	kJ/Nm³
Oil (light fuel oil, heavy fuel oil)	Calorific value:	kJ/kg
Electricity	Voltage:	V
	Phases:	
Cooling water	Temperature:	°C

**Climate data at the setup location:**

Min. ambient air temperature: °C  
 Max. ambient air temperature: °C (corresponds to the max. cooling air temperature if product needs cooling)

**Your previous experiences with your product:**

Maximum permissible product temperature (if temperature sensitive): °C

Method for determining moisture content (measuring method, measurement duration, measurement temperature):

How was or is the product being dried?      Dryer method:  
 Retention time in the dryer:

How was the product fed to the dryer and then removed?

Can you provide us with a characteristic material sample:      100 - 500 g for an initial product assessment  
 1 filled Big Bag for a drying test

**Detailed setup information:**

Setup location (country, city, address, altitude above mean sea level):

Setup outdoors      Setup indoors

Max. permissible sound pressure level of the plant components at a distance of 1 m as per DIN 45641: dB(A)  
 Min. ambient air temperature: °C  
 Max. ambient air temperature: °C (corresponds to the max. cooling air temperature if product needs cooling)  
 Min. Humidity of the ambient air: g/kg or %  
 Max. humidity of the ambient air: g/kg or %

If you would like some setup suggestions, we request a plan view and a sectional view of the building with information on the layout, ideally in a CAD format, to design the plant components.

**Materials:**

Components of the apparatus coming into contact with the product are made of:	Mild steel	Stainless steel	Other:
Components of the exhaust air filter coming into contact with the product are made of:	Mild steel	Stainless steel	Other:
Ventilation pipes:	Mild steel	Stainless steel	Other:

**Miscellaneous specifications:**

Required protection class for motors and other plant components:

IP 54                  IP 55                  IP 56                  IP

Are there factory-internal technical specifications, systems of rules or regulations for specific makes or component types?

No                      Yes (If yes, please supply them.)

Are specific certificates needed (for example, motor certificates or FDA conformity)?

No                      Yes (If yes, please specify which certificates are required.)

**Range of the quote:**

Dryer with inlet air components (for example, inlet air filter, fan and heater)	Exhaust air components (for example, filter or cyclone separator and fan)	Screening machine (for screening the dry material)
Material feed units	Material discharge units	Ventilation pipes:
Thermal insulation of the dryer	Instrumentation and control field devices	Switch cabinet und control system
Installation by a fitter	Complete mechanical installation	Plant commissioning

**Delivery (as per Incoterms 2010)**

FCA Uhingen                  FOB harbor                  CIP destination

Remarks:

**Important notice:**

In the case of toxic, flammable, explosive or materials that are hazardous in any other way, please include appropriate documents (safety data sheets, analysis methods and reports) and list them as an attachment.



Company stamp and signature

Date

The signatory confirms the correctness of the data given above.