



DRYING
Mobile Dryers



Type KKT 55

Mobile DRY-AIR DRYER



Mobile dryer with dry-air technology ...

Our mobile dry air dryers are designed for optimum drying of hygroscopic granulates with the amount of dry air of 55, 75 and 100 m³/h. The new dryer control automatically adjusts to an amount of material and the capacity of the equipment. In addition, up to 40 % of energy can be saved by selecting a suitable program. The operator is intuitively guided through the menu by the control touchscreen, and they can check and adjust all operating conditions such as temperature, time setting, drying time, etc. The time control enables starting drying already before the start of production so that a sufficient amount of dry material is always available when needed.

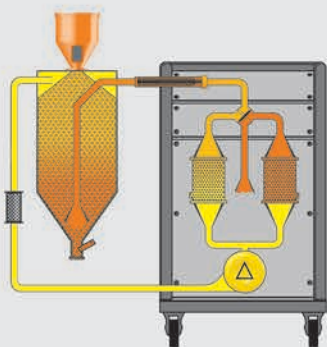
Drying temperature of up to 160 °C

Our mobile dry air dryers work with two drying agent containers, which alternate in operation. Thanks to this dry air with dew point of ca. -35 °C can be used, which corresponds to 0.19 g of H₂O per 1 m³.

The maximum possible temperature of drying of 160 °C permits drying of even the most difficult plastics. Thanks to the installation of modular drying containers with the volume of 12, 24, 40, 60, 100, 150, 200 and 300 litres, the mobile dryer line is able to meet all your production requirements.

Dry-air dryer KKT 55:

- for the volume of dry-air of 55 m³/h
- one individual container (up to 150 litres) or 3 several containers up to the total volume of 120 litres can be connected
- individual container with the volume up to 100 litres can be installed behind the dryer set
- microfilters, overload protection, motor circuit switch and air monitoring for safe operation
- optionally with the patented KOCH ECO control unit and with integrated conveying system enabling the control of up to 4 hopper loaders
- without pressure air



KKT 55 and KKT 75 dryer circuit

The first container for a drying agent (yellow) carries out drying while the content of the other dryer (orange) is being regenerated. When the mixing valve switches over, regeneration takes place in the first container while the other container carries out drying instead. If a material to be dried is left in the container for a longer time, the KOCH-ÖKO control unit, which can be ordered as an option, puts the container in the state of rest in order to protect the material against over-drying and to save energy.

Mobile dry-air dryers in modular system

The KKT mobile dryer can supply two production machines standing next to each other. The drying container is fitted with a clamping flange suitable for all inserted KOCH hoppers. It can be connected to all KOCH conveying equipment.



KKT 55 / KKT 75



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Type KKT 75

Mobile DRY-AIR DRYER



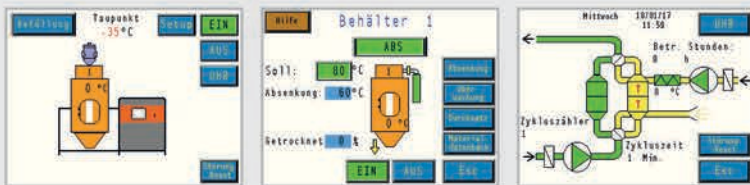
Powerful mobile dryer with dry-air technology ...

- for the volume of dry-air of 75 m³/h
- drying directly next to a production machine
- drying and mixing is possible along with drying
- fast change of the place of deployment with any production machine
- one individual container with the maximum volume of 200 litres or 3 several containers up to the total volume of 160 litres can be connected
- an individual container can be installed behind the dryer set (up to 100 litres)
- microfilters
- overload protection and motor-circuit switch
- dry air monitoring
- optionally with the patented KOCH ECO control unit and with integrated conveying system enabling the control of up to 4 hopper loaders
- without pressure air

The new control unit

Touchscreen control documents all relative operating conditions and provides information such as ...

- temperature for each container with accuracy of +/- 1 °C
- course of operating cycles
- set time data and selected program



Touchscreen control offers...

- database of materials and switching between different languages
- monitoring of capacity of all drying containers and reporting alarms if capacity is exceeded
- start-up mode and optional patented KOCH ECO control unit for protection against over-drying and saving up to 40 % energy
- network connection option
- integrated conveying equipment (optional) for up to 4 hopper loaders
- optional dew point control with 24 hour process recording and indication



Possible are the following **three operating modes for optimum granulate drying**:

- **ECO**: energy saving program to achieve energy savings of up to 40 %.
- **BASIC**: basic program for your standard production.
- **FAST**: high-speed program for drying as much material as possible while preserving the optimum quality of drying.



KKT 55 / KKT 75



KKT 55 / KKT 75



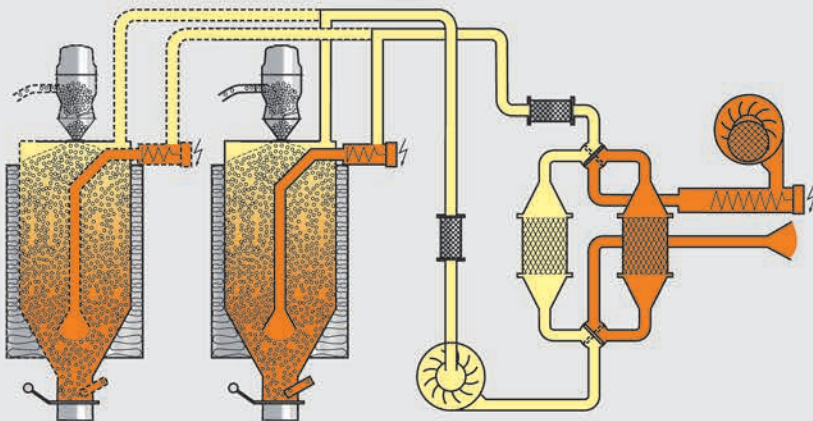
For example: modular container system KKT 55 / KKT 75

Type KKT 100S

Mobile DRY AIR DRYER

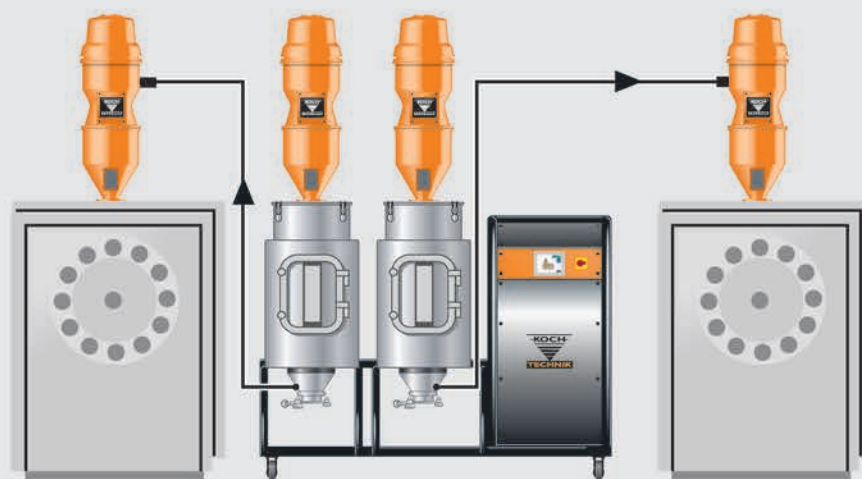
Most powerful mobile dryer with dry-air technology ...

- for the volume of dry air of 100 m³/h
- mobility as an important factor of your production
- 3 microfilters ensure safe operation
- an individual container with the volume up to 300 l
- 4 several containers with the max. total volume of 200 l
- overload protection and motor-circuit switch
- dry air monitoring
- Optionally with the patented KOCH-ÖKO control unit and with integrated transport equipment control
- without pressure air



Circuit diagram of dryer KKT 100S

The most powerful mobile dryer by KOCH-TECHNIK offers permanent supply of dry air - even during the regeneration stage - thanks to two independently operating drying circuits.



KKT 100S

For example: Supplying two machines

Mobile Dryer Series

Specifications

type KKT 55	
Dry air volume	55 m³/h
Regeneration heating	1,4 kW
Input power according to container used	1,0 - 3,0 kW *
Average consumption**	1,1 / 1,5 / 2 kW
Blower power	0,25 kW
Drying hopper (in litres)	12 / 20 / 40 / 60 / 100 / 150
3 containers with total volume max.	120 litres
Temperature range	60°C bis 160°C
* Heating dependent on container volume; ** with 1, 2 or 3 containers	

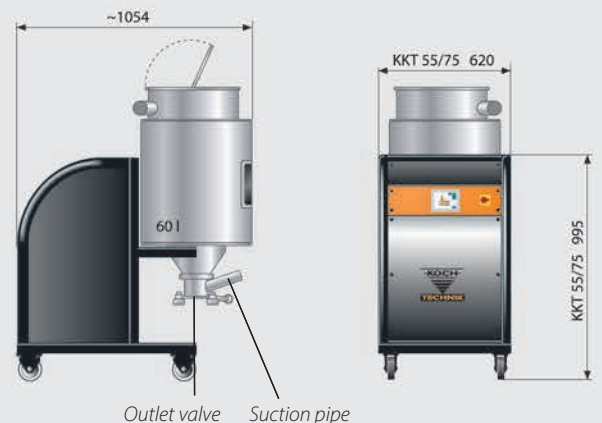
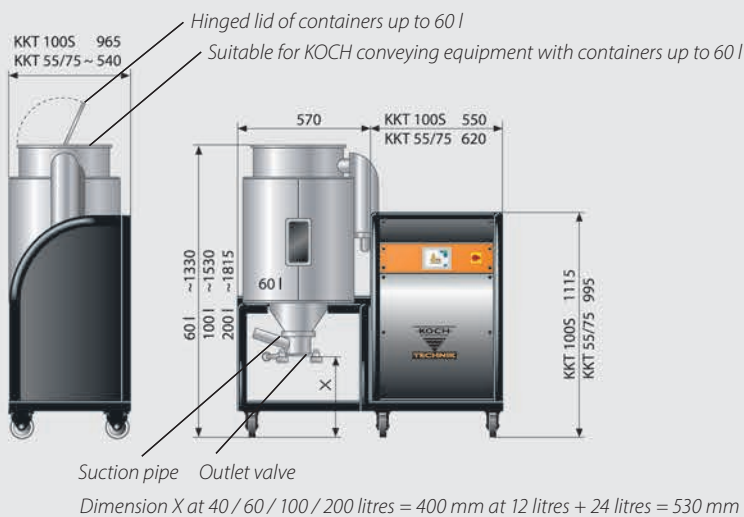
type KKT 75	
Dry air volume	75 m³/h
Regeneration heating	1,7 kW
Input power according to container used	1,0 - 3,0 kW *
Average consumption**	1,8 / 2,2 / 3 kW
Blower power	0,25 kW
Drying hopper (in litres)	12 / 20 / 40 / 60 / 100 / 150 / 200
3 containers with total volume max.	160 litres
Temperaturbereich	60°C bis 160°C
* Heating dependent on container volume; ** with 1, 2 or 3 containers	

type KKT 100S	
Dry air volume	100 m³/h
Regeneration heating	3,0 kW
Input power according to container used	1,0 - 4,5 kW *
Average consumption**	3,5 / 4,5 / 5,5 kW
Blower power	2 x 0,25 kW
Drying hopper (in litres)	20 / 40 / 60 / 100 / 150 / 200 / 300
4 containers with total volume max.	200 litres
Temperaturbereich	60°C bis 160°C
* Heating dependent on container volume; ** with 1, 2 or 3 containers	

Equipment capacity* kg/h with 100 litres at temperature °C					
Material	Throughput	Temperature	Material	Throughput	Temperature
ABS	42 kg/h	80	PETP	27 kg/h	120 °C
CA	31 kg/h	75	PMMA	35 kg/h	80 °C
CAB	28 kg/h	75	POM	38 kg/h	105 °C
PA 6	24 kg/h	80 °C	PP	40 kg/h	100 °C
PA 12	26 kg/h	95 °C	PS	50 kg/h	80 °C
PC	35 kg/h	120 °C	PUR	35 kg/h	90 °C
PE	44 kg/h	95 °C	SAN	45 kg/h	80 °C
* Informative values – values can vary depending on initial humidity					

Equipment capacity* kg/h with 200 litres at temperature °C					
Material	Throughput	Temperature	Material	Throughput	Temperature
ABS	65 kg/h	80 °C	PETP	47 kg/h	120 °C
CA	45 kg/h	75 °C	PMMA	55 kg/h	80 °C
CAB	37 kg/h	75 °C	POM	54 kg/h	105 °C
PA 6	30 kg/h	80 °C	PP	60 kg/h	100 °C
PA 12	35 kg/h	95 °C	PS	82 kg/h	80 °C
PC	45 kg/h	120 °C	PUR	48 kg/h	90 °C
PE	70 kg/h	95 °C	SAN	60 kg/h	80 °C
* Informative values – values can vary depending on initial humidity					

Equipment capacity* kg/h with 300 litres at temperature °C					
Material	Throughput	Temperature	Material	Throughput	Temperature
ABS	85 kg/h	80 °C	PETP	57 kg/h	120 °C
CA	52 kg/h	75 °C	PMMA	68 kg/h	80 °C
CAB	46 kg/h	75 °C	POM	75 kg/h	105 °C
PA 6	55 kg/h	80 °C	PP	82 kg/h	100 °C
PA 12	58 kg/h	95 °C	PS	100 kg/h	80 °C
PC	82 kg/h	120 °C	PUR	73 kg/h	90 °C
PE	90 kg/h	95 °C	SAN	80 kg/h	80 °C
* Informative values – values can vary depending on initial humidity					





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