



MOBILE DRYERS, K SERIES

M 180-365K



MEPU M 275 K

AGI
AG GROWTH INTERNATIONAL



K SERIES MOBILE DRYERS FOR COST-EFFECTIVE AND EFFICIENT GRAIN DRYING

K series mobile dryers by Mepu are cost-effective, efficient, and quickly deployable warm air-drying units.

The mobile dryer is quick and easy to install, no extensive foundation or construction works are required. The mobile dryer is easily movable from one place to another and it is equipped with a modern fully automatic control centre.

EFFICIENT UNDER DEMANDING CIRCUMSTANCES

The high-tech mobile dryer offers uniform drying efficiency even under demanding circumstances and allows energy-efficient drying of wet grain as well. The mobile dryer is suitable for drying several types of grain and small seed.

The K series mobile dryer units successfully marketed in Finland for many decades are also popular abroad, at locations where requirements to machine durability are often much more demanding as compared to Finland.

QUICKLY DEPLOYABLE WITHOUT EXTENSIVE COSTS

The advantages of the easy-to-use and reliable mobile dryer as compared to conventional stationary silo dryers include savings in costs, quick commissioning, drying efficiency, and dryer height.

The K series mobile dryers designed and manufactured in Finland are equipped with a conical base, ridged drying cells, elevator, pre-cleaner, furnace, and a feeder device with rotary feed rollers, which ensure uniform grain circulation under any circumstances. The drying of partial batches is controlled by instrumentation standard in all units.

STANDARD DELIVERY CONTENTS:

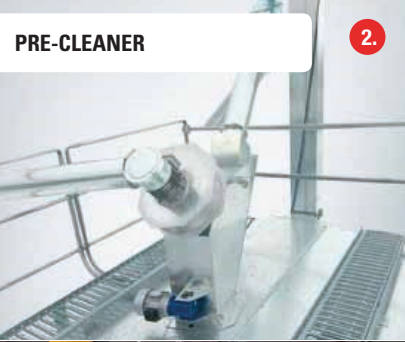


BUCKET ELEVATOR

1.

1.a. BUCKET ELEVATOR

For all M180k–M365k models. Powerful bucket elevator by Scandia (60 t/h). Silent and reliable bucket elevator equipped with direct drive motor for efficient and gentle grain transfer.



PRE-CLEANER

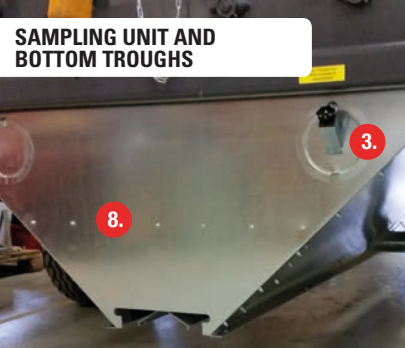
2.

1. b. ELEVATOR

For models M180, M205, and M240. A chain-driven rubber flap elevator that also efficiently transfers wet grain.

2. PRE-CLEANER, SPREADER, BOTTOM ASPIRATOR

All models are equipped with a pre-cleaner powered by a dedicated motor, which ensures high-quality outcome. The spreader disc distributes the grain evenly over the entire grain bin. The bottom aspirator removes dust and humidity.



SAMPLING UNIT AND BOTTOM TROUGHS

3.

3. SAMPLING UNIT

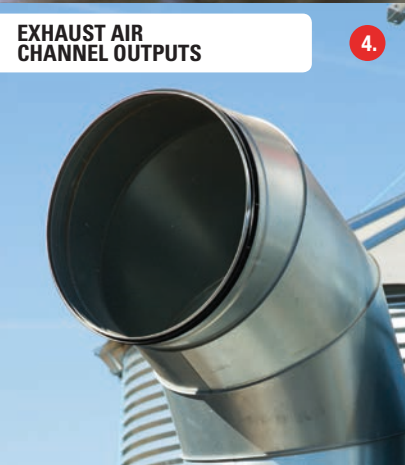
The sampling unit facilitates supervision over the drying process.

4. EXHAUST AIR CHANNEL OUTPUTS (standard)

180-205 Ø 500 mm, 240-365 Ø 630 mm

5. GRAIN BIN

Wet grain swells when warmed up. As the drying proceeds, the grain volume reduces considerably. The grain bin is optimized to function under any conditions. The bin is made of hot galvanized steel.



EXHAUST AIR CHANNEL OUTPUTS

4.

6. DRYING CELLS

The drying cells are so-called ridge beam cells, of which there are two in parallel. Warm air is blown into a heating channel between the drying cells, resulting in minimal heat loss. Shutters designed for drying of partial batches are standard equipment in all models. The shutters provide for efficient drying of partial batches.

7. FEEDING APPARATUS

All models are equipped with adjustable speed feed rollers (6 pc.) with flaps mounted underneath. Steep-angled feed troughs ensure even drying process and reliable circulation under any circumstances. The dryer is also suitable for small seed drying.

8. BOTTOM TROUGHS

The steep-sided bottom trough ensures closed circulation of the grains under any conditions. Dust and humidity are removed during the drying process by the bottom aspirator.

9. DRYING FURNACE AND ELECTRIC EQUIPMENT

The output of the energy efficient furnaces by Mepu ranges between 210 and 500 kW - therefore, there is enough heat and air capacity even under challenging circumstances. The electrical equipment and automatic systems are installed at the factory. An accurate and conveniently adjustable electronic drying thermostat with digital display ensures efficient control. The dryer is ready for use after connecting the machine to the power supply and installation of the oil burner lines to the oil tank.

10. FRAME

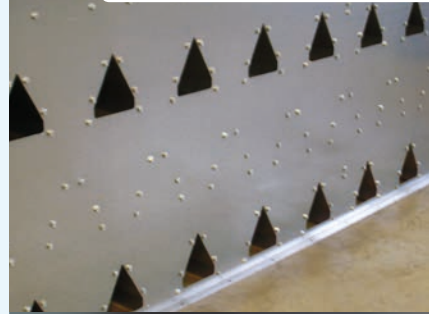
The drying equipment is installed on sturdy steel beam frame. If necessary, the dryer can be relocated. During the drying process, the dryer's support legs (standard equipment) must be lowered. A detachable draw bar saves space, rendering the dryer even more convenient.

ACCESSORIES:

1. A WIDE RANGE OF HOPPERS
2. SCALES
3. GSM ALARM
4. CHANNEL ASPIRATORS, MECHANICAL AND MOTORIZED 2-3-6 AND 8-WAY DIVIDERS.

6.

DRYING CELLS



7.

FEEDING APPARATUS



9.

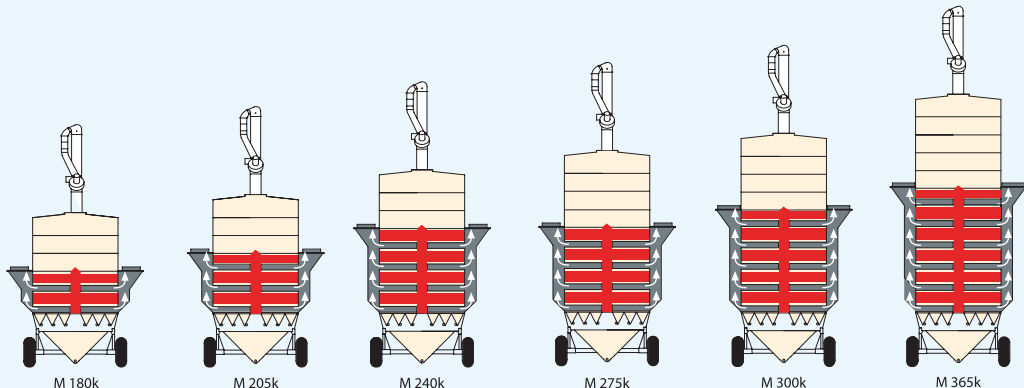
DRYING FURNACE AND
ELECTRIC EQUIPMENT



10.

FRAME





Measurements m	M 180k	M 205k	M 240k	M 275k	M 300k	M 365k
Grain volume [m ³]	16,3	18,4	21,6	25,1	27,2	33,9
Min. drying batch [m ³]	3,5	6,2	6,2	6,2	6,2	6,2
Equipment height [m]	4,6	5,1	5,8	6,3	6,8	8
40 t chain elevator height [m]	6,8	7,3	7,9	-	-	-
60 t bucket elevator height [m]	8,25	8,75	9,5	10	10,5	11,75
Width, transportation / operation [m]	3,14 / 3,87	3,14 / 3,87	3,14 / 3,87	3,14 / 3,87	3,14 / 3,87	3,14 / 3,87
Operational length, max / min [m]	8,08 / 6,85	8,08 / 6,85	8,08 / 6,85	8,08 / 6,85	8,08 / 6,85	8,08 / 6,85
Drying equipment weight [t]	5	6	7	7,5	8	8,5
Furnace [kW]	250 - 310	250 - 400	250 - 400	250 - 400	310 - 500	400 - 500
Voltage during the drying process, standard equipment with a chain elevator [A]	22,0	22,0	27,8			
Voltage during the drying process, standard equipment with a bucket elevator [A]	22,8	22,8 - 26,6	30,0	30,0	43,1	44,7
Electric power during the drying process, standard equipment with a chain elevator [kW]	13,3	15,3	16,8			
Electric power during the drying process, standard equipment with a bucket elevator [kW]	13,8	13,8 - 16,1	17,3	18,1	26,0	27,0

Values for the chain elevator model in **bold**

Grain volume calculated with weath, 18% moisture content. When drying from high moisture levels grain expands the -> maximum filling volume is lower.

Values are theoretically calculated and may vary depending on local conditions and cereal properties.



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