



HAY DRYER

DEHUMIDIFICATION UNIT WITH REGULATION
& REFRIGERATION CIRCUIT
FOR VENTILATION & DRYING OF HAY



euroclima[®]
We care for better air

CLEAN AIR SINCE 1963



Euroclima is a company with extensive international operations with 5 manufacturing facilities in Italy, Austria, India and Dubai and more than 36.000 m² of production and offices. We are specialized in the manufacturing and worldwide distribution of air handling units and fan coil units.

We try to exceed the expectations of our customers by innovation, quality and comprehensive service. Approximately 400 employees are at present employed. Euroclima has a well distributed network for sales and service all over Europe, Asia, Middle East and Northern Africa. Our partners in various countries assume a surface covering responsibility for marketing, local servicing and optimal assistance.

Euroclima has more than 50 years of experience in the construction of air-conditioning and ventilation systems with complete control and refrigeration technology. During this time more than 1000 complete units with integrated control & compression refrigeration systems were delivered.



BS OHSAS 18001:2007
ISO 14001:2004
ISO 9001:2008

No.00559/0
No.02301/0
No.03578/0



AHU N° 20.03.024
Range: 21Kv-2000
www.eurovent-certification.com
Euroclima participates in the EPC programme for Air Handling Units (AHU) and Fan Coil Units (FCU); Check ongoing validity of certificate: eurovent-certification.com

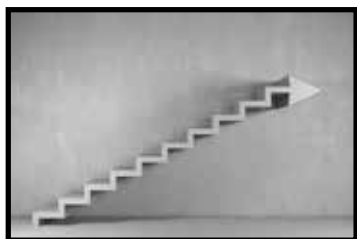


TUV AUSTRIA SERVICES GMBH



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WHY A HAY DRYER ?



Increase in quality

You can bring in the hay already after 24 hours with residual moisture and thus prevent the loss of crop. Multiple machine turning on the lawn is no longer required. The hay drying allows you to enormously increase the quality of the feed as the hay contains more nutrients.



Saving of expenses

Thanks to the high feed quality, your animals eat more hay, which means you have to add less concentrated feed. Since your animals are healthier, their useful life increases and veterinarian costs decrease. The acquisition costs of the hay dryer are amortized after just a few years.



Milk output

Thanks to the increased feed quality, the milk output of your animals increases and remains constant during winter feeding. Powerful and resistant animals, which give high-quality milk throughout the whole year, are the result.



Stress-free and independent

At bad weather conditions, you do not have to change your mowing schedule anymore and can also bring in moist hay without having to worry about a possible fungus formation. The hay dryer operates self-contained and fully automated to ensure efficient drying. With the time savings you can devote yourself to other important tasks.



Support

In order to assist you in the process of upgrading to a hay dryer, regional subsidies are available depending on the location. Please check information concerning this matter at your local contact point for agricultural subsidies.

EUROCLIMA HAY DRYER

Our Euroclima hay dryer will speed up your hay harvest and make you independent of weather conditions. You can bring in the moist hay already 24 hours after the cut and the hay dryer fully automatically takes care of the fastest possible and most energy-efficient drying of the feed. The intelligent DDC control, the pressure-stable fan, the highly efficient compression refrigeration system and the powerful hot water heating coil dry your hay instantly at a variety of weather and temperature conditions. In doing so, the unit automatically takes into account the conditions of the circulating air, the outside air and the residual moisture and independently selects the most ideal operating mode.

Components

Air dampers

Depending on the temperature and humidity conditions, the integrated air dampers made of aluminum allow automatic switching between the introduction of external air and the use of circulating air.

Compression refrigeration system

Consisting of one or, optionally, several compressors, an evaporator and a condenser, this independent system cools the air strongly and thereby removes the water, which can be collected via the condensation tray and can drain off. Subsequently, the dry air is heated up again via the condenser and blown into your hay.

Fan (optional)

The pressure-stable fan, which can be steplessly adjusted via the frequency converter, fully-automatically adapts to the current requirements. By means of a differential pressure measurement, the airflow is automatically adjusted, depending on the amount of feed in your hay box – thereby the hay dryer can work energy-efficiently.

Regulation

The intelligent ETA-Matic DDC control system fully controls the hay drying process by evaluating pressure, temperature and humidity sensors. The focus is on maximum efficiency and the lowest possible energy consumption.

Heating coil (optional)

If hot water is available (produced by e.g. a woodchip heating system), then a highly efficient heating coil made of copper tubes and aluminum fins can further heat the air flowing through it. In addition, such a heating coil allows additional operating states from which the regulation can select the most energy-efficient one.

Filters

The integrated air filters protect the components of the hay dryer from contamination and can free the air gradually of dust, when the unit runs in the recirculation mode.

Unit executions

Two unit executions are available. While the BASIC version meets all typical requirements, the PREMIUM version achieves the highest possible performance for particularly high requirements.

CHARACTERISTICS OF THE UNIT

	BASIC	PREMIUM
Coated, pressure-stable fan with relubricable bearings	X	X
Speed control with frequency converter	X	X
Intelligent DDC control	X	X
Double damper system (fresh and circulation air damper)	X	X
Two-/three-box system for the supply air	X	X
Filtration (filter class G4)	X	X
Three-dimensionally inclined condensation tray	X	X
Inspection doors for easy cleaning before and after each component	X	X
Dehumidifier with single-stage scroll compressor	X	X
Dehumidifier with tandem scroll compressor and step-controlled power adjustment		X
Very high dehumidification performance		X
Materials of even higher qualities		X

FUNCTIONALITY

Modes of operation

Fresh air operation

On warm, dry summer days the fresh air is used to operate energy-efficiently. If the fresh air temperature is too low or the relative fresh air humidity is too high, the circulation air mode is switched on. This operation mode is the most cost-effective way to dry your hay and therefore the unit will be operated as long as possible in this mode.

Circulation air operation

At low outside temperatures or high relative humidity, the unit switches to circulation air operation and switches on the compression refrigeration system. The air is cooled and dehumidified in the evaporator section. In the subsequent condenser section, the previously withdrawn energy is fed back to the air and thereby the air is heated up. The compression refrigeration system has the double benefit and no heat capacity is lost as it is used for both dehumidification and reheating. This results in an optimal and energy-efficient use of all resources, even in the circulation air operation.

Regulation

The control logic of the Euroclima hay dryer has been developed especially for maximum energy efficiency. The combined temperature and humidity sensors capture the current operating conditions in detail and the system autonomously selects the optimal operating state. The fan control takes place continuously via a frequency converter, based on the measured pressure difference in the fan inlet nozzle. Consequently the fan power can be set to any desired value (in m³/h with airflow control, optionally in Pascal with duct pressure control). If you want to change the values recommended by Euroclima, then you can set each setpoint individually with the supplied local display. The switchover between fresh and circulation air operation can also be carried out manually via the display, if the intelligent automatic mode described above is not desired. The supply air temperature is independently controlled and limited (if necessary) in order not to affect the quality of feed by blowing in air at excessive temperatures.

Additional features

Additionally, it is possible to integrate up to 3 hayrick temperature sensors for hayrick monitoring. If a hayrick temperature surpasses the set maximum setpoint, then this is detected by the controller and a contact is switched (e.g. to drive a horn). This gives you the security - even when the unit is not in operation - to detect a possible hazard caused by overheating of the hayrick, at an early stage.

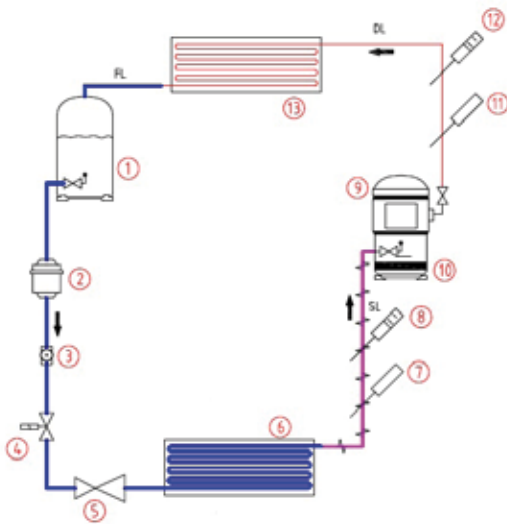


TECHNICAL DATA

For each compression refrigeration system, a refrigeration test book with manufacturer's declaration is delivered according to the applicable laws, directives and relevant standards. In this test book, the prescribed maintenances and service intervals must be confirmed and presented to the authority if necessary. Euroclima offers maintenance and service contracts adapted to your system. For this purpose, please contact your Euroclima partner.

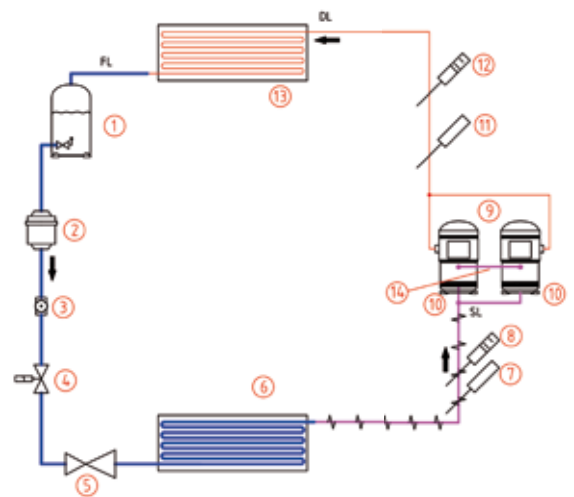
Due to the EU guideline EG 517/2014, operators of compression refrigeration systems are obliged to check the entire refrigeration circuit for leaks at regular intervals (depending on GWP-tonnes) and to record this in the refrigeration test book. Please check the need to register the compression refrigeration system with the competent authority. The commissioning and maintenance including a leak test of a compression refrigeration system may only be carried out by a certified refrigeration system technician!

Execution BASIC



- 1 Collector
- 2 Filter dryer
- 3 Inspection glass
- 4 Magnet valve with inductor
- 5 Expansion valve
- 6 Evaporator
- 7 Low pressure transmitter
- 8 Low pressure switch
- 9 Scroll compressor
- 10 Oil sump heater
- 11 High pressure transmitter
- 12 High pressure switch
- 13 Condenser
- 14 Oil equalisation line

Execution PREMIUM



Complete refrigeration circuit, including all components according to the „Basic“ scheme, for the impact of the evaporator (= cooling) and the condenser (= heating). All control components are installed in the refrigeration circuit. Pressure sensors are used to control the system as required, and a pressure switch for the safe shutdown of the system. In the „Basic“ execution, one compressor is installed which is designed according to the calculated cooling capacity. Euroclima uses only high quality materials and components, such as Copeland, Danfoss, Alco, etc.

The refrigeration circuit of the „Premium“ execution is identical to the refrigeration circuit of the „Basic“ execution, but with an additional compressor of the same cooling capacity according to the „Premium“ scheme. Therefore, the system can operate fully automatically with 0%, 50% or 100% of the available cooling capacity. By working in the optimum operation mode, your hay is dried highly efficiently. In addition, you have a higher dehumidifying performance with the „premium“ execution, which results in a corresponding time saving in the drying process.

TECHNICAL DATA

HAY DRYER standard modules (all other sizes on request)

Size		XS	S	M	L	XL	XXL
Mowing area (Reference values)	ha	3-5	4-6,5	5-8	7-11	9-14	11-17
Box area (recommended)	m ²	24	32	41	55	70	85
Fan air flow at half hayrick height ⁽¹⁾	m ³ /h	10.300	13.800	17.600	23.400	29.700	36.300
Fan air flow at full hayrick height ⁽²⁾	m ³ /h	6.900	9.300	11.800	15.700	19.900	24.300
Motor power	kW	5,5	7,5	9,0	11,0	15,	18,5
Heating capacity of the optional heating coil ⁽³⁾	kW	31	42	53	71	118	156
Width	mm	1.320,00	1.625,00	1.625,00	1.930,00	1.930,00	2.235,00
Height	mm	1.370,00	1.370,00	1.675,00	1.675,00	2.285,00	2.285,00
Length of the basic module	mm	1.982,50	1.982,50	1.982,50	1.982,50	1.982,50	1.982,50
Additional length heating module	mm	610,00	610,00	610,00	610,00	610,00	610,00
Additional length fan section	mm	1.220,00	1.220,00	1.525,00	1.830,00	1.830,00	2.135,00
Length complete solution dehumidifier + heating coil + fan	mm	3.815,50	3.812,50	4.117,50	4.422,50	4.422,50	4.727,50
Nominal voltage		3 x 400 V - 50 Hz + N + PE					

EXECUTION BASIC

Dehumidification performance per hour ⁽⁴⁾	l/h	19,8	26,4	33,4	44,0	57,3	70,5
Dehumidification performance per day ⁽⁴⁾	l/day	475,7	633,8	802,6	1.054,8	1.376,2	1.691,3
Absorbed power compressor	kW	5,6	7,4	10,2	13,0	16,7	20,3
Nominal overall power consumption	kW	11,4	15,2	19,5	24,3	32,0	39,1
Weight complete solution dehumidifier + heating coil + fan	kg	1.131	1.321	1.556	2.226	2.692	3.168

EXECUTION PREMIUM

Dehumidification performance per hour ⁽⁴⁾	l/h	24,76	34,24	46,54	52,00	67,00	87,05
Dehumidification performance per day ⁽⁴⁾	l/day	594,2	821,8	1.117,0	1.248,0	1.608,0	2.089,2
Absorbed power compressor	kW	7,4	9,9	13,1	14,7	20,4	26,0
Nominal overall power consumption	kW	13,2	17,7	22,4	26,0	35,7	44,8
Weight complete solution dehumidifier + heating coil + fan	kg	1.223	1.527	1.795	2.197	2.642	3.564

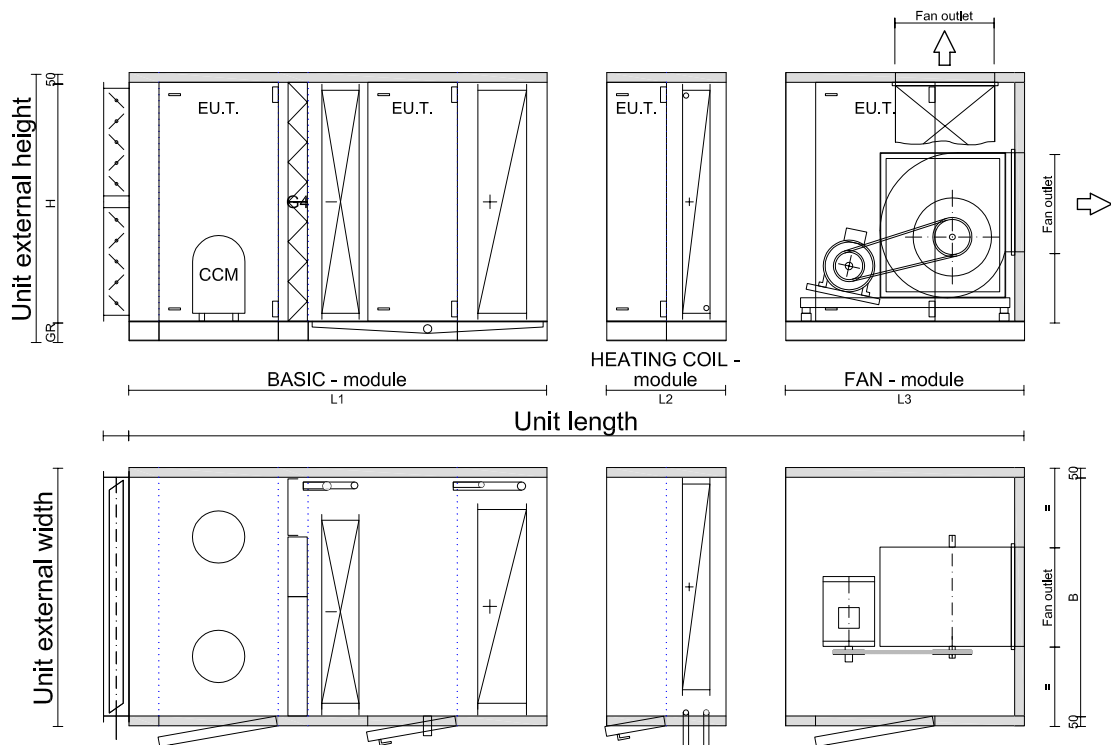
Fallacy or technical changes within the scope of product improvement reserved.

⁽¹⁾ external pressure drop 700 Pa (system pressure drop + approx. 3m fill height)

⁽²⁾ external pressure drop 1000 Pa (system pressure drop + approx. 5m fill height)

⁽³⁾ at 80°C/65°C

⁽⁴⁾ at return air (hayrick) of 25°C - 70% r.h.



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Euroclima product catalogues



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Due to its commitment of continuous product development and improvement, Euroclima reserves the right to change specifications without notice.

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We care for better air

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