

Hot-air blowers in horticulture

Edition 04.11 · D





GP 95
95 kW gas burner

Optimize your yield

Elster-Instromet B.V. supplies Ermaf devices which have been used all over the world in horticulture for many years now and with great success.

Ermaf hot-air blowers feature

- highly clean combustion with low levels of CO and NOx
- high air displacement (6500 to 8000 m³/h)
- high jet length (40 to 50 metres)
- low gas pressure (20 to 50 mbar)
- 100% efficiency
- fully automatic or manual operation
- good resistance to water and humidity in the greenhouse (protection class IP 54)
- optimum value for money

Clean combustion

Burning gas does not only release CO₂, but also other gases which are harmful to plants. The most important, among others, are nitrogen oxides (NOx). Constant exposure of plants even to relatively low NOx concentrations can result in growth inhibition and therefore deficits in yields. Ermaf devices produce only a very low level of nitrogen oxides.

High jet length and high air displacement

A high jet length and air displacement ensure uniform distribution of the heat and the CO₂ content. If there is no CO₂ dosing, the fan can be used to produce an air displacement in order to dry the plants or compensate a temperature difference in the greenhouse.

BCU control unit

The BCU is a burner control unit which was developed to meet the most recent market requirements and requests.



Era 33
33 kW gas burner
with pilot flame for
frost protection or for
dosing of CO₂

Benefits of the BCU control unit

- automatic restart (3 times)
- electronic ignition
- fault analysis is simple since a combination of LEDs displays the type of fault, thus lowering service costs
- diagnostic plug allowing memory as well as current and historical values to be read out.
- input signals of 24 V and 230 V possible
- ionization current (combustion quality) can be easily controlled using a key combination
- additional contact for remote fault display
- potentiometer to allow the fitter to adjust the switch-on delay (reduction in the strain on the gas and power grids), post-cooling time and minimum combustion time
- compact, drip proof housing, IP 54
- control unit easy to clean

CO₂ dosing

If the CO₂ concentration in the atmosphere is increased, this also leads to an increase in the development of carbohydrates so that plants can develop better, will be of higher quality and produce a higher yield. In addition, the plant's growth will be stimulated. In winter especially, when the greenhouse is closed, the concentration of CO₂ which is already low, will be quickly used up and will reach a level below that of the external environment, causing the growth process to be slowed. To boost this process, CO₂ must be additionally supplied.



BCU control unit



RGA
with closed combustion system



RGA 95
95 kW hot-air blower
with chimney for diesel/kerosene



Thermostat

RGA 100, hot-air blower

The RGA 100 is a hot-air blower with a high level of efficiency (> 92%) that can be equipped with a modulating burner from 60 to 100 kW on request. The device can either be used for heating only or for heating in conjunction with CO₂ dosing.

RGA, hot-air blower with flue

Ermaf provides an indirectly heated hot-air blower with a closed combustion system for use in polytunnels and greenhouses in which temperature differences of more than 15 degrees will have to be compensated or in which a CO₂ concentration of too high a level is undesirable. Furthermore, this device has a separate connection for the combustion air.



Façade fan



P 100
100 kW hot-air blower
for diesel/kerosene

Practical experience on the international market

Elster-Instromet B.V. occupies a leading position on the international market and has made a good name for itself with heating/CO₂ devices for agriculture and horticulture. In the field of animal husbandry applications, Elster-Instromet B.V. has more than 45 years of practical experience worldwide with hot-air blowers specially developed for use in intensive livestock breeding such as for poultry, pigs and cattle. However, Ermaf has also developed special stainless steel hot-air blowers, which have a very good reputation worldwide, for applications in horticulture.

The complete product range includes gas- and oil-fired hot-air blowers for both mobile and stationary use with capacities of between 14 and 120 kW. In addition, the product range features hot-air blowers with clean combustion systems for CO₂ fertilization and for heating greenhouses. As a matter of course, the devices comply with the European standards and requirements as well as with the requirements of countries outside Europe.



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