



The ecologically sensitive weed control.

**Reinert**   
[www.abflammtchnik.de](http://www.abflammtchnik.de)

**MOUNTABLE FLAME WEEDING DEVICES**



# strong & reliable technology

- Suitable for surface treatments
- 3-point-mounting in the rear cat. 1
- Heat protection cover in stainless steel
- Side panels adjustable in the height
- High-performance-pole-burner
- Electrical ignition of the burner with ionization-control
- Gas supply equipment with all necessary fittings



Gas consumption at 2.0 bar				
Working width	A 311 HF / A 611 HF		A 1000 HF	
	Consumption	Output	Consumption	Output
1,50 m	22 kg/h	283 kW	36 kg/h	464 kW
1,80 m	27 kg/h	348 kW	44 kg/h	567 kW
2,00 m	30 kg/h	386 kW	48 kg/h	618 kW

(All figures are approximate only - reserve technical changes.)



**A 311 HF      A 611 HF      A 1000 HF**

Operated with liquefied gas-bottles to be extracted during the gaseous phase and liquid phase.

# ecologically sensitive



Gas consumption at 2.0 bar		
A 2000 HF		
Working width	Consumption	Output
1,50 m	36 kg/h	465 kW
2,00 m	48 kg/h	618 kW
3,00 m	75 kg/h	965 kW
4,60 m	115 kg/h	1480 kW
6,00 m	150 kg/h	1930 kW

(All figures are approximate only - reserve technical changes.

Other working-widths available on request.

- Suitable for surface treatments
- 3-point-mounting in the rear cat. 2
- Heat protection cover in stainless steel
- Side panels adjustable in the height
- High-performance-pole-burner
- Electrical ignition of the burner with ionization-control
- Gas supply equipment to be mounted in the front through system-gas-tank incl. connection tube
- 2-piece set of warning signs, lights towards in the front and in the rear, including mountings (only for working width from 300 cm to 660 cm)
- All working-width over 3,00 m are hydraulically hinged



# efficient & powerful

- Suitable for row treatments
- 3-point-mounting in the rear cat. 1/2
- High-performance-pole-burner
- Electrical ignition of the burner with ionization-control
- Gas supply equipment with all necessary fittings
- Burner equipment can be selected individually according to purpose



Area performance of all devices

Working width	2 km/h	3 km/h	4 km/h	5 km/h
1,50 m	3.000 m <sup>2</sup>	4.500 m <sup>2</sup>	6.000 m <sup>2</sup>	7.500 m <sup>2</sup>
1,80 m	3.600 m <sup>2</sup>	5.400 m <sup>2</sup>	7.200 m <sup>2</sup>	9.000 m <sup>2</sup>
2,00 m	4.000 m <sup>2</sup>	6.000 m <sup>2</sup>	8.000 m <sup>2</sup>	10.000 m <sup>2</sup>
3,00 m	6.000 m <sup>2</sup>	9.000 m <sup>2</sup>	12.000 m <sup>2</sup>	15.000 m <sup>2</sup>
4,60 m	9.200 m <sup>2</sup>	13.800 m <sup>2</sup>	18.400 m <sup>2</sup>	23.000 m <sup>2</sup>
6,00 m	12.000 m <sup>2</sup>	18.000 m <sup>2</sup>	24.000 m <sup>2</sup>	30.000 m <sup>2</sup>

(All figures are approximate only - reserve technical changes.)



## USEFUL INFORMATION

Flame weeding is a practice-oriented, economical and environmentally sound alternative to weed removing. There is no need to use chemical agents .

In flame weeding parts of the weed plant are not totally burned, but only heated up to a temperature of 50-70 °C for a short period of time. In this range of temperature a large enough amount of plant cells get destroyed. The plant cells are destroyed by using the heat of the propane gas burner which is affecting the plant surface. This rapid increase of temperature leads to an extremely fast expansion of the cell saps, which causes the bursting of the cell walls. Protein coagulates at a temperature of approximately 50 – 70 °C.

## USE

Flame weeding can be used :

- before germination in order to enable the cultivated plant to sprout without disturbing weeds
- after germination if there is a sufficient difference in temperature tolerance between the cultivated plant and the weed
- for weed killing in private and public landscaping

## APPLICATIONS

Flame weeding offers a wider range of possibilities in practical plant protection.

Therefore, the application requires a change of thinking regarding previously used methods of weeding.

The best moment for using flame weeding is in early spring. The younger the weed is, the more successful the flame weeding will be.

In agriculture growth and in gardening you will mainly find very young weed plants due to the possibilities of seed bed preparation. In this case often one application of flame weeding is sufficient.

In public and local landscaping rootstock-building weeds are the most common and destructive weed art. Therefore in the first year there are four to five applications of flame weeding necessary in order to slowly weaken the nutrient storages in the roots and to prevent further storage of nutrients. For this reason it is necessary to repeat the treatment as soon as the weeds are growing again.

It is also recommended to perform a treatment after the growing period in fall. From experience a destruction of the already dropped seeds of the weed plants and a damage of the still existing leaves will lead to a considerably reduced and delayed growth in the following spring.

## TECHNOLOGY

REINERT-flame weeding devices work either from the gas phase or the liquid phase.

When withdrawing the gas during the gas phase the liquid gas is already vaporized inside the bottle and is gaseously lead into the burners.

In this process the capacity of the amount of gas extracted and the resulting possible working width of the flame weeding devices is limited.

When withdrawing the gas during the liquid phase the liquid gas is extracted from the gas bottles or the gas tank in liquid aggregation. Then the vaporization happens in specially developed gas burners. This method enables higher capacity of the amount of extracted gas and larger working widths.

Liquid gas is used because it burns residue-free and environmentally neutral to carbon dioxide and water. All REINERT-flame weeding devices are equipped with maintenance free high performance pole burners.

## ADVANTAGES

- maximum functional safety and reliability
- the flame temperature is about 1950 °C
- consistent heat distribution covering the complete working width
- edge-sharp heat-boundary on the sides
- controllable, wind-safe and stable flame
- best combustion values – high efficiency factor
- ideal mix of gas and air
- low consumption and high performance
- high durability

REINERT-Flame weeding. Your partner  
with powerful and efficient technology.



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