

RAB GRIP HE – fume extraction torches.

Perfect view – optimum health protection!



Effective health protection! Best possible working conditions.



RAB GRIP HE (High Efficiency)

Welding fume can represent a considerable health risk. Occupational safety experts recommend that it is filtered out of the air directly after generation. ABICOR BINZEL has developed the new RAB GRIP HE (High Efficiency), which is characterised by good accessibility, high detection capability and robustness, in order to ensure this in an industrial environment and under unfavourable conditions as well. RAB GRIP HE combines effective health protection with the best possible working conditions and is suitable for demanding industrial applications.

Direct welding fume collection with a free view of the arc.

To prevent welding gas and metal dust fumes from being inhaled or spreading in the hall, welding fume should be extracted where it is generated: directly at the gas nozzle. The new RAB GRIP HE collects the waste air 37,7 mm resp. 45 mm downstream from the gas nozzle to ensure accessibility at the component, and to prevent the free view of the arc from being obstructed by an extraction nozzle. The RAB GRIP HE can collect the welding fume ideally even in difficult working positions thanks to the new gas nozzle geometry, cable assemblies and extraction hoses, and machine connection. Extraction effectiveness in the flat position, for example, is 95 %, the

Robust, durable, flexible!

Clean solutions for a variety of applications.



highest class possible for extraction torches. Equipped with standard wear parts, the RAB GRIP HE offers ideal conditions for accessibility at the component as well as the simplest fitting with familiar wearing parts.

Stable protective gas shield in spite of extraction.

There are inaccuracies that extraction affects the protective gas shield negatively and leads to formation of pores. After intensive field tests, metallographic investigations of the weldments have shown that the protective gas shield is not impaired during welding with RAB GRIP HE, and that porous welds are not produced even at work angles of 45°. However, if a reduction of the extraction volume becomes neces-

sary in certain circumstances, this can be done simply by means of a slide on the handle.

Robust, durable, flexible.

The new RAB GRIP HE extraction torches are available in two air cooled and one liquid cooled version. All models are built on the tried-and-tested RAB GRIP torch platform. With their solidly design front end and the integrated extraction nozzle they are extremely robust and just as durable as ABICOR BINZEL standard torches. The optimised machine connection can be used to connect them quickly to all standard power sources. In addition, the screwed extractor nozzle and standard wearing parts ensure uncomplicated maintenance.

Clear arguments! New standards in fume gas extraction.



Clear arguments.

The fume gas extraction torches RAB GRIP HE set new standards in effective health protection with the best possible working conditions and offer numerous advantages over classic extraction torches:

- New extraction nozzle geometry and enlarged flow diameter for the extraction of welding fumes even in difficult working positions without endangering the gas shielding
- Reliable gas nozzle cooling – standard, long-life parts
- Optimum accessibility by optional 45° or 60° neck bend
- Free-standing standard MB gas nozzle for accessibility similar to standard torches
- System solution for clean air in the production: RAB GRIP HE together with the ABICOR BINZEL fume extraction units
- Robust design, long-life construction

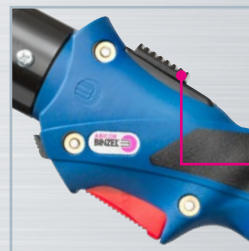
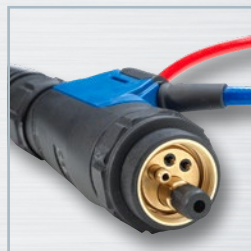
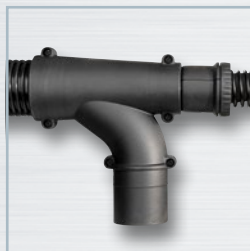
Sophisticated technology! Optimum functionality.



Optimum accessibility
by optional 45°
or 60° neck bend

New suction nozzle
geometry and magnified
flow diameter

Free-standing standard MB gas nozzle
for accessibility as with standard burners



Slider to regulate the
optimal air supply

Welding with
a conventional
torch in compar-
ison to the fume
extraction torch
RAB GRIP HE...



MB GRIP 36 (320 A)



RAB GRIP 36 HE (320 A)

At a glance!

Order overview and technical data.



RAB GRIP HE (order overview)

Designation	Neck bend	Length	Part-No.
RAB GRIP 24 HE	45°	3.00 m	612.0105.1
RAB GRIP 24 HE	45°	4.00 m	612.0103.1
RAB GRIP 24 HE	45°	5.00 m	612.0107.1
RAB GRIP 36 HE	45°	3.00 m	614.0179.1
RAB GRIP 36 HE	45°	4.00 m	614.0177.1
RAB GRIP 36 HE	45°	5.00 m	614.0181.1
RAB GRIP 501 D HE	45°	3.00 m	634.0175.1
RAB GRIP 501 D HE	45°	4.00 m	634.0173.1
RAB GRIP 501 D HE	45°	5.00 m	634.0177.1
RAB GRIP 24 HE	60°	3.00 m	612.0106.1
RAB GRIP 24 HE	60°	4.00 m	612.0104.1
RAB GRIP 24 HE	60°	5.00 m	612.0108.1
RAB GRIP 36 HE	60°	3.00 m	614.0180.1
RAB GRIP 36 HE	60°	4.00 m	614.0178.1
RAB GRIP 36 HE	60°	5.00 m	614.0182.1
RAB GRIP 501 D HE	60°	3.00 m	634.0176.1
RAB GRIP 501 D HE	60°	4.00 m	634.0174.1
RAB GRIP 501 D HE	60°	5.00 m	634.0178.1

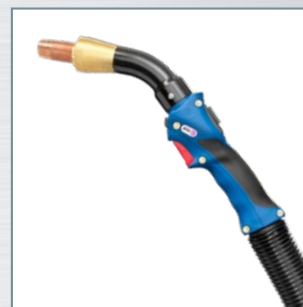
RAB GRIP HE (technical data EN 60 974-7)



RAB GRIP HE 24



RAB GRIP HE 36



RAB GRIP HE 501 D

Type

Cooling

Air cooled
Liquid cooled

✓

-

✓

-

-

✓

Rating

CO₂ (A)
Mixed gas M21 (A)

250

220

300

270

500

450

Duty cycle (%)

60

60

100

Wire-Ø (mm)

0.8 - 1.2

0.8 - 1.2

1.0 - 1.6

Ideal complement! Fume extraction system FEC (Fume Extraction Cyclone).



Fume extraction system FEC...

The new FEC and FEC W3* weld fume extraction systems from ABICOR BINZEL are the ideal supplement for the RAB GRIP HE. Together, these perfectly coordinated systems provide never before achieved extraction results. The mobile FEC extraction unit with its unique cyclone technology and optimised filter cleaning combines the highest extraction performance with simple practical handling.

* The W3 version is registered for examination by the Institute for Occupational Safety.





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