



HYDROJETTING PROTECTION





Hydrojetting operation is one of the most versatile and efficient industrial maintenance methods on the market, but one of the most risky ones, since the Ultra High Pressure pressurized jet can cause serious injuries and even fatal accidents.

Safetech Protection was born from the need to protect the Hydrojet operator, who is frequently exposed to the risks of High Pressure Jets, with maximum efficiency and comfort.



Safety first

We transmit security not only in our products, but mainly through our positioning. We are a serious and ethical company that values the trust placed in us.

Cutting-edge technology

We are modern, use and seek the best technology in the service of saving lives.

Comfort as a differential

We know that it is often no use to offer a product of technical quality, we seek to mix resistive technology with ergonomics and thermal comfort.



OUR TECHNOLOGY:

- ✓ **Manufactured in state-of-the-art PVC tech fabric**
- ✓ **Specifically developed for hydrojetting application;**
- ✓ **Withstands high pressure water jets without crossing over to the opposite side;**
- ✓ **Ergonomic, allowing all movements of the hydrojetting operation;**
- ✓ **Available in overall or trousers + jacket or apron models;**
- ✓ **Impermeable external cover, preventing water mist from accumulating, causing discomfort and weight to the operator;**
- ✓ **High quality zipper for easy placement;**
- ✓ **Neck protector and hood are removable for more comfortable operation and without impairing the operator's field of vision depending on the position of the service.**



OUR TECHNOLOGY:

- ✓ **Velcro on the sleeves and legs in order to reduce the entry of water into the outfit;**
- ✓ **Gloves and overboots;**
- ✓ **High- resistance hygienic underwear that reduces friction between the suit and the operator's skin (optional)**
- ✓ **Optional: "Air Comfort" internal cooling system with built-in air purifier and transport cart that reduces the temperature inside the outfit to 18 °C, with the capacity to supply up to 3 hydrojet operators simultaneously;**
- ✓ **Product duly registered with the Ministry of Labor through the CA.**



Model for SAP - Evaporators:

One-piece overalls, ideal for working in sugar mills where hydrojet cleaning is concentrated in juice evaporators.

As it is confined work, it is recommended to use the "Air Comfort" cooling system for better thermal comfort and operational productivity.

Test approved conditions:

| Nozzle Type | Pressure | Detailing | Flow | Distance | Speed |
|---------------------|---------------------|-----------------------------|--------|----------|---------|
| "T" Rotating Nozzle | 1,000 bar (15 kpsi) | 02 Inserts 0.9mm @ 5000 rpm | 38 lpm | 1mm | 0.5 m/s |
| Round Nozzle | 500 bar (7.2 kpsi) | 1 x 1.0mm | 20 lpm | 75mm | 1.0 m/s |



2.4 kg
(5,3 lb)

Model SAP RESISTANCE – "EVAPORATORS"

**1,000 BAR (15 KPSI) – "T" ROTATING NOZZLE
500 BAR (7,2 KPSI) – ROUND NOZZLE**

| CODE | OVERALLS CA: 41,474 |
|--------------|---|
| HJ-CJ-SAP-PP | OVERALLS for Hydrojetting – SAP mod. – royal blue color – SIZE XS |
| HJ-CJ-SAP-P | OVERALLS for Hydrojetting – SAP mod. – royal blue color – SIZE S |
| HJ-CJ-SAP-M | OVERALLS for Hydrojetting – SAP mod. – royal blue color – SIZE M |
| HJ-CJ-SAP-G | OVERALLS for Hydrojetting – SAP mod. – royal blue color – SIZE L |
| HJ-CJ-SAP-GG | OVERALLS for Hydrojetting – SAP mod. – royal blue color – SIZE XL |



Model for Ultra High Pressure (UAP):

Set of Trousers + Jacket ideal for working with hand guns.

It can optionally be provided with an internal air fan for better thermal comfort for operators, especially in confined jobs.

Fabric approval conditions:

| Nozzle Type | Pressure | Detailing | Flow | Distance | Speed |
|-----------------|---------------------|------------------------|--------|----------|---------|
| Rotating Nozzle | 2,800 bar (40 kpsi) | 04 x 0.014" @ 2500 rpm | 12 lpm | 75mm | 1.0 m/s |
| Round Nozzle | 1,000 bar (15 kpsi) | 1 x 0.9mm | 20 lpm | 75mm | 1.0 m/s |

UAP PRODUCTS RESISTANCE:
2,800 BAR (40 KPSI) – ROTATING NOZZLE
1,000 BAR (15 KPSI) – STRAIGHT NOZZLE



| CODE | JACKET |
|--------------|---|
| HJ-JQ-UAP-PP | JACKET for Hydrojetting – UAP mod. – royal blue color – SIZE XS |
| HJ-JQ-UAP-P | JACKET for Hydrojetting – UAP mod. – royal blue color – SIZE S |
| HJ-JQ-UAP-M | JACKET for Hydrojetting – UAP mod. – royal blue color – SIZE M |
| HJ-JQ-UAP-G | JACKET for Hydrojetting – UAP mod. – royal blue color – SIZE L |
| HJ-JQ-UAP-GG | JACKET for Hydrojetting – UAP mod. – royal blue color – SIZE XL |

| CODE | PANTS CA |
|--------------|---|
| HJ-CA-UAP-PP | TROUSERS for Hydrojetting – UAP mod. – royal blue color – SIZE XS |
| HJ-CA-UAP-P | TROUSERS for Hydrojetting – UAP mod. – royal blue color – SIZE S |
| HJ-CA-UAP-M | TROUSERS for Hydrojetting – UAP mod. – royal blue color – SIZE M |
| HJ-CA-UAP-G | TROUSERS for Hydrojetting – UAP mod. – royal blue color – SIZE L |
| HJ-CA-UAP-GG | TROUSERS for Hydrojetting – UAP mod. – royal blue color – SIZE XL |

| CODE | LEG PROTECTOR |
|--------------|--|
| HJ-SB-UAP-UN | LEG PROTECTOR (OVERBOOTS) for Hydrojetting – UAP mod. – royal blue color – ONE SIZE FITS ALL |

| CODE | FAN |
|----------|--|
| HJ-VE-CJ | Ventilation system for UAP jacket composed of: 02 x High efficiency fans; 01 x Cable with on/off control and ventilation intensity (low / medium / high); 01 x 10,000 mAh Power bank battery with capacity for 08 hours of operation. |

UAP PRODUCTS RESISTANCE:
2,800 BAR (40 KPSI) – ROTATING NOZZLE
1,000 BAR (15 KPSI) – ROUND NOZZLE



2,1 kg
(4,2 lb)



| CODE | APRON UAP |
|--------------|---|
| HJ-AV-UAP-UM | APRON for Hydrojetting – UAP mod. – royal blue color – ONE SIZE FITS ALL |



PROTECTIVE COVER FOR HOSES:

Hydrojetting hoses can pose an additional risk to the hydrojet operator.

The hose cover has the function of absorbing the impact of the energy released in the event of a rupture "muffling" the water jet and also the "whipping" resulting from this energy.

Note: Its use does not dispense with the use of cables or safety meshes.

| CODE | HOSE COVER |
|-------------|---|
| HJ-CM-UAP-1 | Protective cover for Hydrojetting hose – UAP mod. – 1 meter long |
| HJ-CM-UAP-3 | Protective cover for Hydrojetting hose – UAP mod. – 3 meters long |
| HJ-CM-UAP-5 | Protective cover for Hydrojetting hose – UAP mod. – 5 meters long |



“AIR COMFORT” SYSTEM:

Air cooling system for operator providing excellent thermal comfort and greater productivity, reducing the temperature inside the outfit to 18 °C;

Capacity for up to 03 (three) simultaneous hydrojet operators;

Integrated air purification system;

03 hoses with 12 mts long thermal insulation;

Practical trolley for transportation inside the plant; Power supply: 220 v - single phase;

Minimum air flow required: 60 pcm @ 5 . 0 bar (75 psi); Weight: 65 kg;

Code: HJ- AC- 220 V



**Impermeable Overalls Waterproof model:
Made of high mechanical and abrasion resistant
fabric with front closure with zipper and hood.**

**Important: material not resistant to high
pressure jets.**

| CODE | |
|----------|---|
| HJ-WP-PP | Impermeable OVERALLS Waterproof mod. - royal blue color – SIZE XS |
| HJ-WP-P | Impermeable OVERALLS Waterproof mod. - royal blue color – SIZE S |
| HJ-WP-M | Impermeable OVERALLS Waterproof mod. - royal blue color – SIZE M |
| HJ-WP-G | Impermeable OVERALLS Waterproof mod. - royal blue color – SIZE L |
| HJ-WP-GG | Impermeable OVERALLS Waterproof mod. - royal blue color – SIZE XL |

RESISTANCE TEST VIDEOS:

CLICK ON THE YOUTUBE ICON TO WATCH

Obs: Safetech Protection performs the due resistance tests considering Pressure, Flow, jet orifice, Distance and Controlled Speed. In this way we are able to guarantee the real resistance of the material.



SAP OUTFIT TEST - EVAPORATORS (PLANTS)



UAP OUTFIT TEST - 2,800 BAR (40,000 PSI):

IMPORTANT NOTES:



IMPORTANT:

- 1) Personal protective equipment is the operator's last resort, that is, it minimizes damage in the event of an accident.**
- 2) All safety instructions must be followed to the letter.**
- 3) Different parameters such as Pressure, Flow, Nozzle Type, Distance and Speed can generate different protection results and consequent water penetration in the outfit.**

Safetech Protection reserves the right to discontinue models and designs without prior notice.



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