

APF 6U-DC >



Size 6
Up to 16,000 l/min
at 8 bar
Max. 16 bar

The Alco PowerFighter APF 6U-DC is the ideal monitor for larger industrial and airport crash tenders. Thanks to many years of continuous development, this monitor is the very definition of reliability >

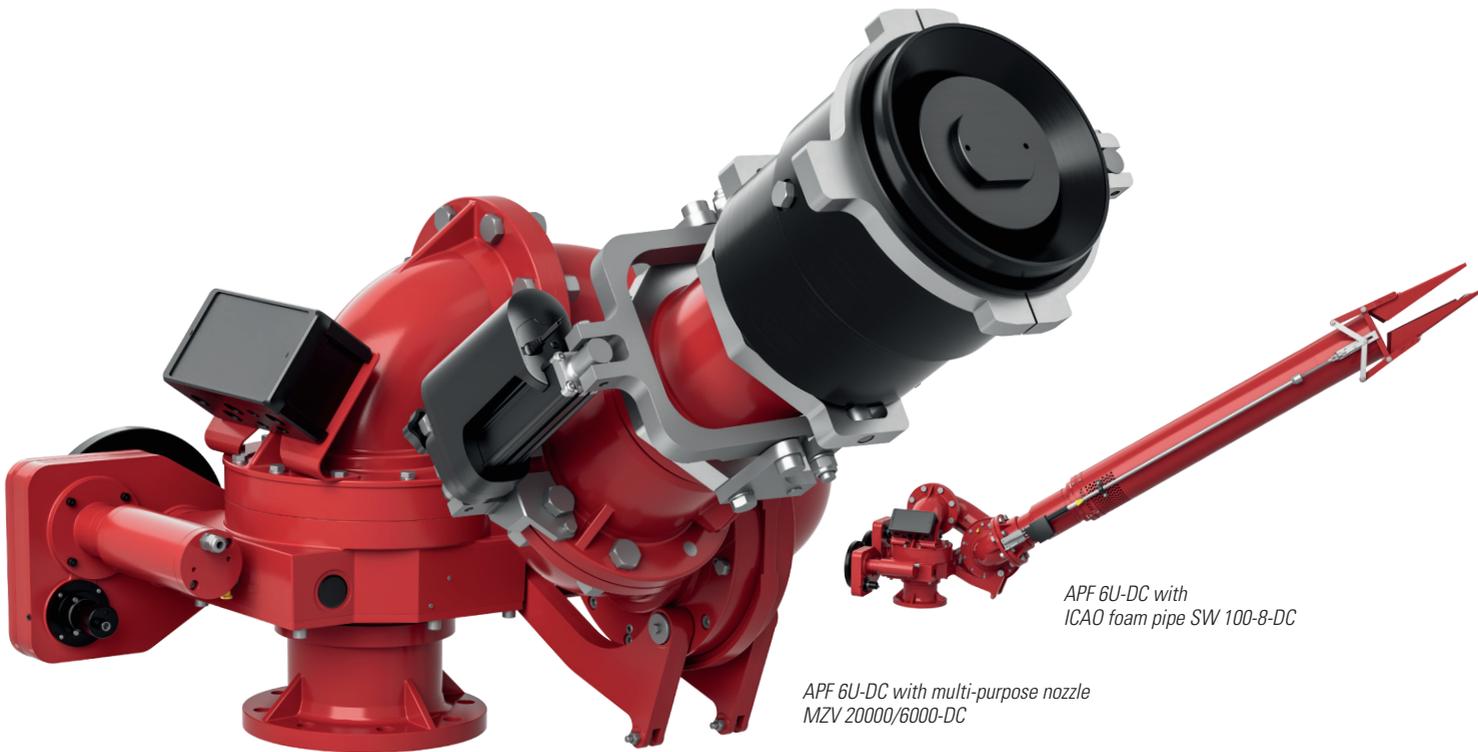


APF 6U-DC with
ICAO foam pipe SW 100/50-DC

THE LIGHTEST IN ITS CLASS:
HIGHLY MODULAR AND
EXTREMELY RELIABLE.

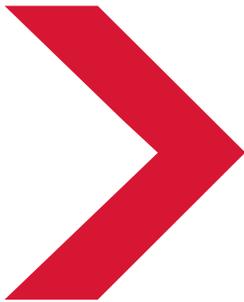


15  YEARS



APF 6U-DC with multi-purpose nozzle
MZV 20000/6000-DC

APF 6U-DC with
ICAO foam pipe SW 100-8-DC



THE LIGHTWEIGHT AND HIGHLY MODULAR ROOF-MOUNTED MONITOR **APF 6U-DC** IS NOW EVEN MORE ROBUST – AND REMAINS THE OPTIMUM SOLUTION FOR THE LATEST GENERATION OF **INDUSTRIAL AND AIRPORT CRASH TENDERS**.

The APF 6U-DC Alco PowerFighter monitors, especially tried and tested for use as a roof monitor on industrial and airport fire trucks are continuously optimised for the latest generation of airport crash tenders. With **stronger motors and more robust signal generators**, the APF 6U-DC monitors are now even more reliable.

The APF 6U-DC monitors can be used as water and foam monitors. The diverse possible uses are achieved with one single base unit. The APF 6U-DC monitors are made impressively efficient by their **high degree of modularity**. The optimum solution for each use scenario is achieved by a **wide choice of all kinds of different nozzles** – from the MZ nozzle with fixed flow rate through to ICAO foam pipes.

The APF 6U-DC monitors are lighter than comparable monitors with the same flow rate up to 16,000 l/min at 8 bar!

Like all Alco PowerFighter monitors, the APF 6U-DC monitors are resistant to ambient conditions, resistant to corrosion and salt water and are therefore very maintenance-friendly.

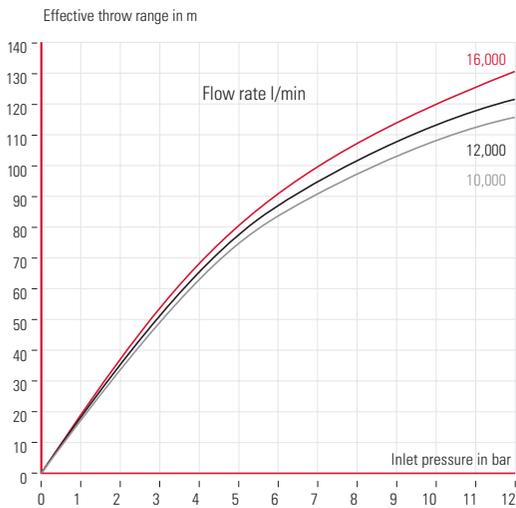
APF 6U-DC monitors can be operated from the driver's cab or a control station. This is ensured by generously designed 24V-DC electric motors in combination with absolute encoders, which also enable obstacle avoidance, e.g. of lighting columns*. Not only the vertical swing from -60° to +100° and the rotation by up to 360° (±180°) are controlled from inside the vehicle, but also – depending on the nozzle – spray pattern and flow rate. The position of the monitor can be checked at all times on the optional built-in display.

Radio remote controls offer maximum freedom of movement. These can be used to operate the APF 6U-DC monitors from a distance of up to 1 km. The emergency manual control with handwheels is naturally also a standard feature.



The control units and radio-remote controls can be found on the back page.

THROW RANGE OF THE APF 6U-DC



All values apply in still air conditions and at a pipe work angle of approx. 25° bis 30°. Values for MZ nozzles in full jet position.

- **Optimum configurability**
- **Long throw range**
- **Continuously adjustable spray pattern change during operation**
- **Continuously adjustable flow during operation directly at the nozzle**
- **Obstacle avoidance with corresponding control**
- **Protected gear units**
- **Emergency manual operation**

The **Alco modular system ensures optimally configured monitors**, which can be selected not only according to specific equipment features, but also by taking into consideration regional circumstances with regard to operational tactics and water pressure.

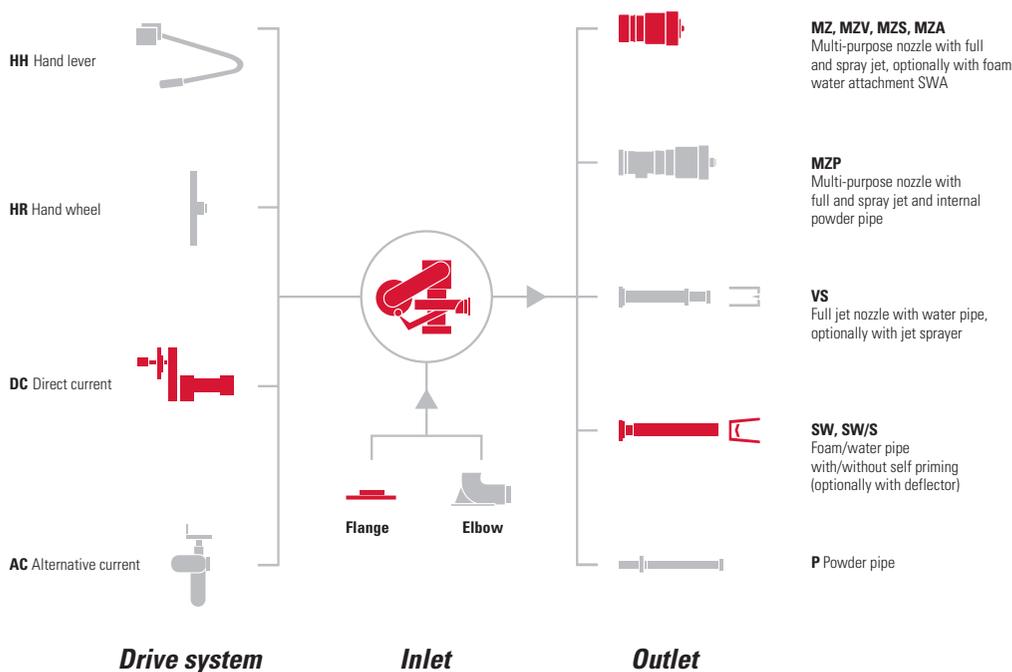
The APF 6U-DC consists of the basic unit and a wide choice of nozzles and pipes.

The spray pattern can be changed during operation with each of the multi-purpose nozzles available to choose from. With the MZV nozzles, continuous adjustment of the flow rate is also possible directly at the nozzle. Water and foam mixtures can be output with the corresponding nozzle (MZ/MZV/MZA/MZVS).

The ICAO foam pipes comply with the ICAO guidelines for airport pumping appliances.



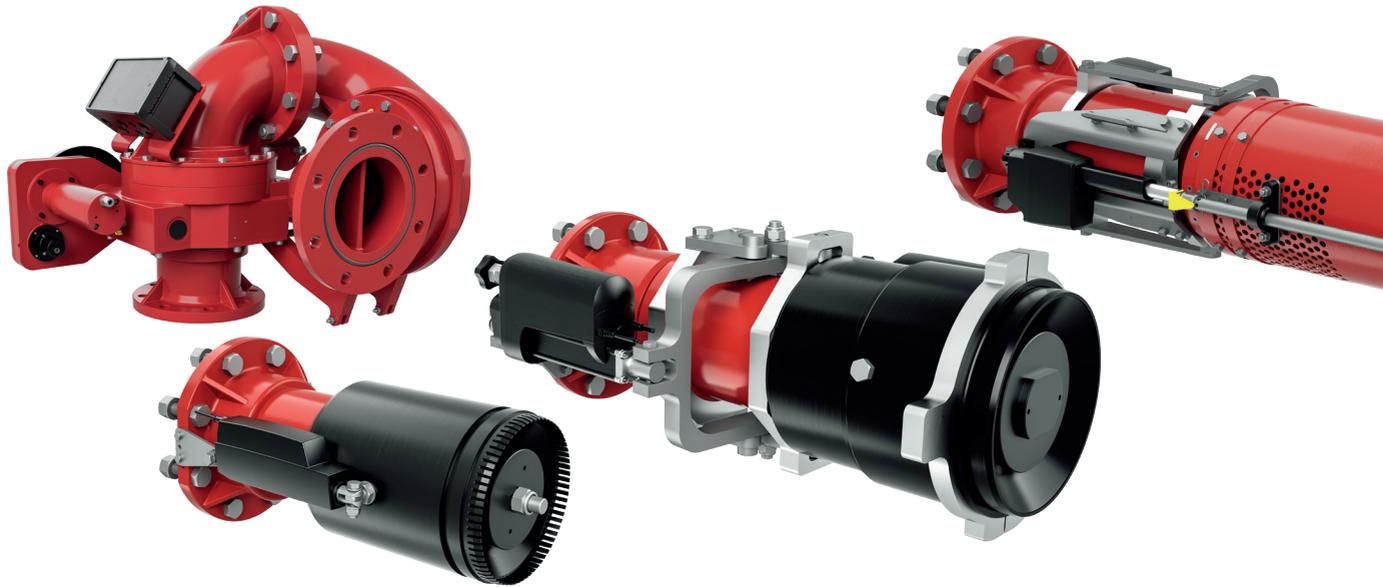
The emergency manual operation with handwheels is a standard feature of the APF 6U-DC monitors.



The Alco modular system with options for the APF 6U-DC.

We will be pleased to create your own individual configuration for you. Contact us!

* Accessories on the back page



MZ 12000-DC – continuous adjustment of the spray pattern

MZV 20000/6000-DC – continuous adjustment of the spray pattern and continuous change of the flow rate

APF 6U-DC

The **basic unit** of the APF 6U-DC is available with electrical and manual drive systems. Used in combination with the wide choice of pipe and nozzle equipment, it can be used as a water and foam monitor with a flow rate of up to 16,000 l/min at 8 bar.

All nozzles offer continuous adjustment of the spray pattern.

Nozzles with continuous change of the flow rate during operation are available to choose from the Alco nozzle range. In addition, an extensive assortment of controls and accessories are available for the APF 6U-DC*.



ALCO SELECT

Products composed of **Alco Select** items only – marked with the logo Alco Select – have a fast lead time of 4-6 weeks after receiving the order.

BASE UNIT

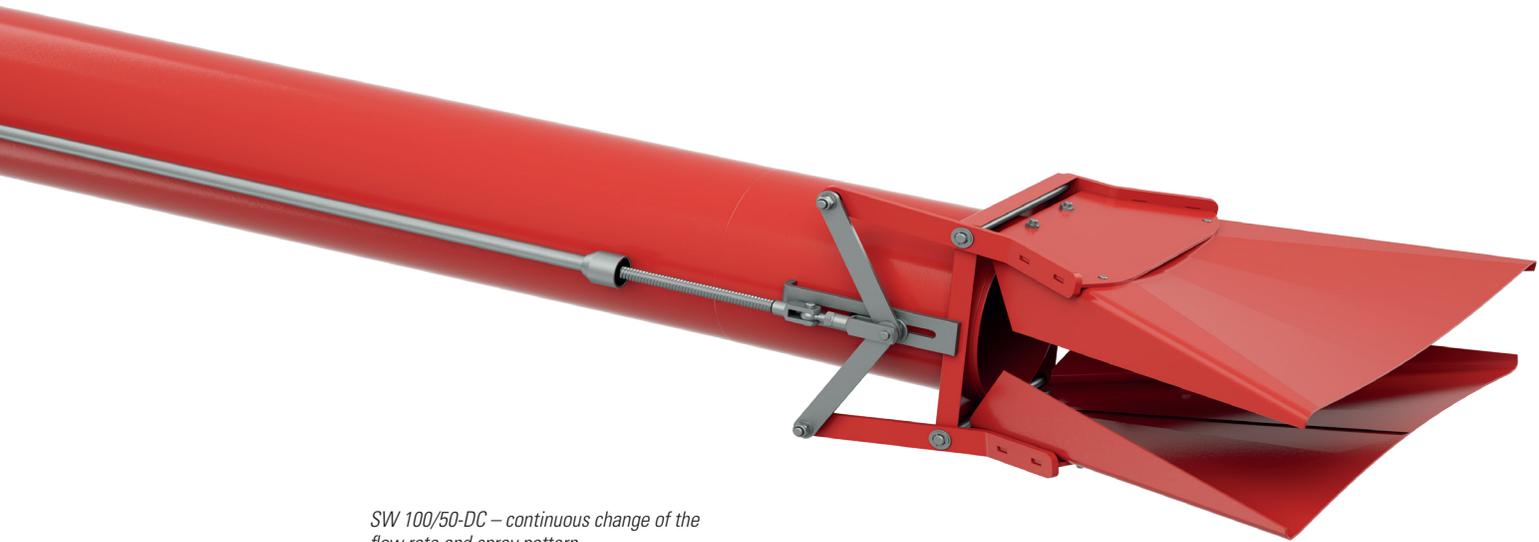
| Inlet | Outlet | Flow [l/min]* | Operating pressure max. | Swivel range vertical | ... horizontal | Signal [mA] | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|-------|--------|---------------|-------------------------|-----------------------|----------------|-------------|-----------------------|-------------|------------|-------------|
| DN150 | DN150 | 16,000 | 16 bar | -45° bis +75° | ±165° | 4..20 | 847x801x620 | 130.0 | 314 441 34 | |

*Given flow rates at 8 bar operating pressure.

MULTI-PURPOSE NOZZLES (FOR APF 6U-DC)

| Multi-purpose nozzle | Inlet | Flow max/min [l/min] | Additional functions | Signal [mA] | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|----------------------|-------|----------------------|--|-------------|-----------------------|-------------|------------|-------------|
| MZ 12000-DC | DN150 | 12,000 | Continuous adjustment of the spray pattern | - | 518x300x285 | 26.8 | 121 351 34 | |
| MZV 20000/6000-DC | DN150 | 20,000/6,000 | Continuous change of the flow rate and spray pattern | 4..20 | 743x462x336 | 72.0 | 121 321 34 | |

* Controls and accessories on the back page.



SW 100/50-DC – continuous change of the flow rate and spray pattern

APF 6U-DC WITH ICAO FOAM PIPES

In combination, the Alco Powerfighter APF 6U-DC and the ICAO foam pipes fulfil the ICAO guidelines for airport crash tenders.**

The International Civil Aviation Organization, ICAO, works on behalf of the UNO to draw up guidelines for securing air traffic in airports, airfields and heliports.

Minimum requirements for firefighting technology and fire extinguishing agents are defined in ten fire protection categories. In addition, quality and test criteria are defined for the extinguishing agents in combination with the monitor. They are precisely defined and implemented in national standards.



APF 6U-DC with ICAO foam pipe SW 100-8-DC and floodlight package*

ICAO FOAM PIPES WITH DEFLECTOR

| Multi-purpose nozzle | Inlet | Flow max/min [l/min] | Additional functions | Signal [mA] | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|----------------------|-------|----------------------|--|-------------|-----------------------|-------------|------------|-------------|
| SW 100-8-DC | DN150 | 10,000 | Continuous adjustment of the spray pattern | - | 2245x683x353 | 49.1 | 121 349 34 | |
| SW 100/50-DC | DN150 | 5,000/10,000 | Continuous change of the flow rate and spray pattern | 4..20 | 2244x683x353 | 57.4 | 121 348 34 | |

FOAM ATTACHMENTS FOR MULTI-PURPOSE NOZZLES

| Foam attachment | Suitable for multi-purpose nozzle | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|-----------------------|-----------------------------------|-----------------------|-------------|------------|-------------|
| SWA MZ 12000 | MZ 12000 | 826x319x321 | 8.7 | 111 454 45 | |
| SWA MZV 20000/6000-DC | MZV 20000/6000-DC | 1052x381x381 | 13.0 | 314 255 45 | |



APF 6U-DC with MZV 20000/6000-DC, foam attachment SWA MZV 20000/6000-DC and floodlight package*

** Depending on natural requirements.



CAN control unit

CAN CONTROLS

FireCAN and CANopen provide activation of the main functions (vertical, horizontal and nozzles), the water and foam dampers as well as the oscillation.

Potential-free contacts enable activation of the riser, obstacle avoidance, lighting column contour and the pump speed (rpm+ / rpm-).

| CAN control units | Communication | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|-------------------|---|--------------------------|----------------|------------|---|
| Mobile C4 | FireCAN, CANopen, potential-free contacts | 160x195x55 | 3.8 | 023 200 00 |  |



Operating units

OPERATING UNITS

| | Functions | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|-------------------------------------|---|---------------------------|----------------|-------------|---|
| Display with big joystick | Control of all important functions. Display with push buttons and position indicator. Push button joystick with 8 illuminated push buttons. | 222x137x35 106x106x300 | | 023 205 00 | |
| Display with small joystick | Control of all important functions. Display with push buttons and position indicator. Small joystick with 3 push buttons. | 222x137x35 60x60x146 | | 023 201 00 |  |
| Wired remote control | With built-in display and small joystick, 10 m connection cable and carrying strap | 428x170x172 | | 023 202 00 | |
| Wireless remote control (WRC), L | Joystick, push-buttons on front panel and side, STOP push-button, feedback signals via LED | 178x262x182 | 2.0 | 023 212 XX* | |
| Wireless remote control (WRC), M | Joystick with pushbuttons, feedback by LED | 216x112x162 | 1.5 | 023 213 XX* | |
| Wireless push-button remote control | Push-button on front panel, STOP push-button | 210x64x182 | 0.4 | 023 214 XX* | |

*The last two digits represent the country code of the country of use. Please include this in all enquiries and orders.



Wireless remote control



Floodlight package

MISCELLANEOUS ACCESSORIES

| | Functions | Dimensions LxWxH [mm] | Weight [kg] | AWG ID no. | Alco Select |
|--------------------------|---|--------------------------|----------------|------------|----------------|
| Floodlight package DN150 | 1 floodlight each for far and near-field illumination | 678x85x163 | 3.5 | 314 400 34 | |
| Flashing light, yellow | Rotating flashing beacon | | 0.1 | 013 914 00 | |



Flashing light



15 
YEARS

Would you like to request further information or a technical consultation? Call us!

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Simply send us your enquiry by email

awg-info@idexcorp.com

For an overview, visit our website

www.awg-fittings.com

Anyone who rescues lives and protects property day in and day out must be able to rely on their tools. Many of them opt for AWG and Alco products.

Two brands, which together offer one of the broadest ranges of premium equipment for emergency services.



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