

# Fire safety comes first!





**WB Firepacks is part of the Lumipol Group. Lumipol Group is the umbrella organisation of a number of leading, internationally operating technological companies. The common denominator: Powering the world.**

The companies are active in the area of power systems, or power trains. Lumipol is operative in different niche markets: diesel engines, pumps, generators and related control electronics. From advice around applications up to and including jointly constructing a complete powertrain: as a technology partner, Lumipol keeps surprising its customers in a positive way, by means of total solutions.



There are three organisations within the Lumipol Group, occupied with fire prevention: WB Firepacks, HSA Firepacks and Fire Lion Global. WB Firepacks (Netherlands) and HSA Firepacks (German) are total suppliers in the area of fire prevention-solutions. In addition to supplying new solutions, these companies also see to service and renovation activities. Fire Lion is the expert in the area of the foam modules. They produce and distribute foam pumps from Vancouver (USA).



# Our Power, Your Safety

**WB Firepacks develops, produces, tests, installs, repairs and maintains Firepacks: diesel and electric motor-driven pump sets for fire-extinguishing systems. So we are committed, on a daily basis, with the essence of fire protection. Everything in and around the pump chamber - the heart of the installation - is given our express attention. We supply our Firepacks and other fire prevention solutions to sprinkler installers and to end users across Europe. In the Benelux, we are the undisputed market leader.**

From our head-office in Zwijndrecht (the Netherlands) our Designers and Engineers are working on tomorrow's fire safety. In addition to developing and producing new Firepacks, the maintenance of existing fire pumps is an essential business unit. We perform maintenance on our own products, but we can also see to the maintenance of other fire extinguishing pumps. Our own Service Engineers are out and about on a daily basis to maintain and optimise existing fire pumps. We perform all of our work activities using our own staff: from the design up to testing and from commissioning on location to service and maintenance.

Given our history, we have we been supplying Firepacks and other solutions for quite some time. How long is such an installation able to perform, maximally? There should be no doubt about the performance of a fire pump. That is what our renovation-department is responding to. It could so happen that a fire pump is no longer able to achieve its operating point, due to ageing. In that case, our renovation department appears. While inspecting, our experts will decide what it takes to optimally deploy the installation once again.

How can you get the most out of your fire-extinguishing system? WB Firepacks employs experts who will be happy to share with you the technical aspects of our solutions. We will also be happy to share this knowledge with you via our WB Firepacks Academy.



**Solutions**



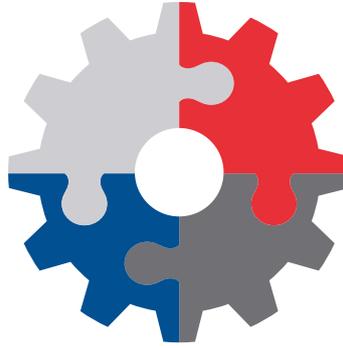
**Service**



**Renovation**



**Academy**



## **Solutions**

**Safety can never be compromised. Every environment demands an own extinguishing method. For instance with water, foam, mist or a combination of these methods. That is why we design and produce tailor-made solutions for any project.**

Since we ensure tailor-made solutions, we find out more and more and are able to further develop installations and provide a quality boost. This could be in the form of a proportioning system, but also by means of remote monitoring (Firecoach).

**On the following pages we will elaborate on the three extinguishing methods:**

- ✓ Sprinkler**
- ✓ Water mist**
- ✓ Foam**

**Due to our urge to continuously challenge ourselves, we come up with solutions that raise fire safety to a higher level.**



# Pump set for sprinkler

**A sprinkler installation is in stand-by mode 24 hours per day, 365 days per year. A sprinkler installation is intended to control or extinguish a starting fire. A sprinkler installation will automatically activate in the event of a fire. The same goes for the pump set of the installation: the Firepack. You must be able to rely on that the fire pump will start functioning immediately, in the event of a fire.**

Sprinklers are an effective, reliable method to protect buildings, goods and people against the risks of fire. WB Firepacks helps you to determine the most economically and technically justified solution for your situation. We do this on the basis of a number of parameters:

- ✓ What environment is the installation situated in?
- ✓ Which specifications apply?
- ✓ What pressure is preferred?
- ✓ What flow is preferred?
- ✓ What is the water supply like (under influx or suction conditions)?  
Is there a preference for propulsion?
- ✓ Is there a drive preference?

We provide a complete line of diesel and electric motor-driven fire extinguishing pump units, also known as Firepacks. They were designed, constructed and tested in accordance with national and international directives.



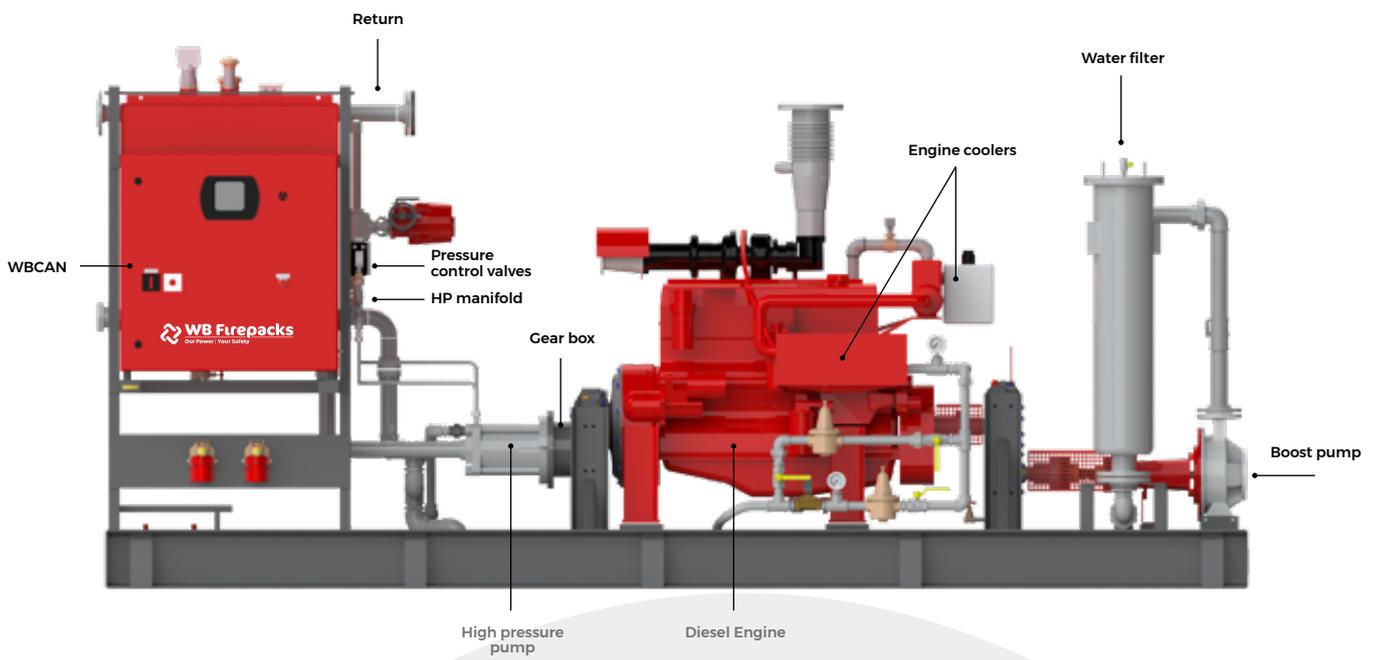
# Pump sets for water mist

**Are the goods sensitive to moist, then usually a water mist installation is opted for. For instance data centres or museums. But also an environment where people are not self-sufficient, a water mist installation will be quite suitable, like care homes and hospitals.**

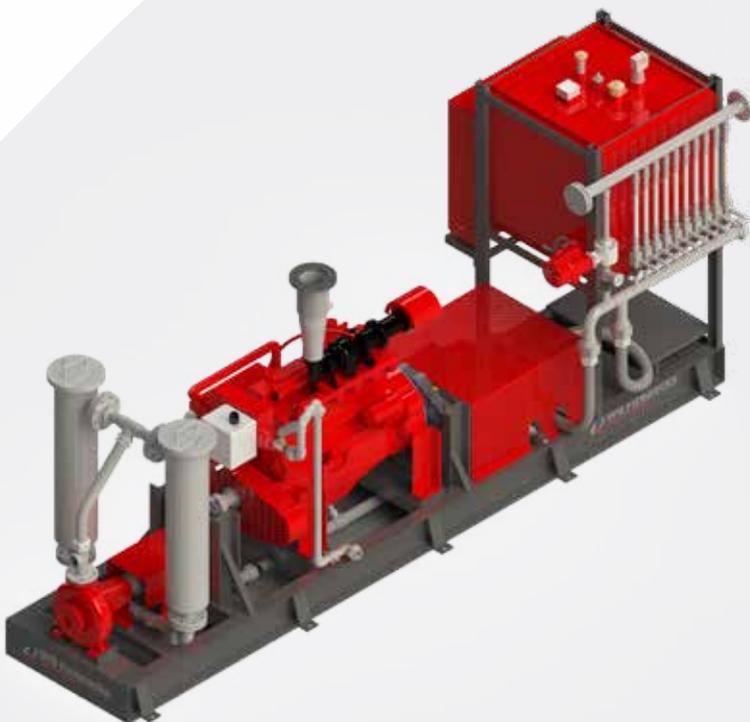
A water mist installation detects a fire at an early stage. There are two types of water mist installations: high pressure water mist (HI PR) and low pressure water mist (LO PR). The higher the pressure, the finer the mist, the more heat will be absorbed and the less water consumption. WB Firepacks offers solutions for both systems.



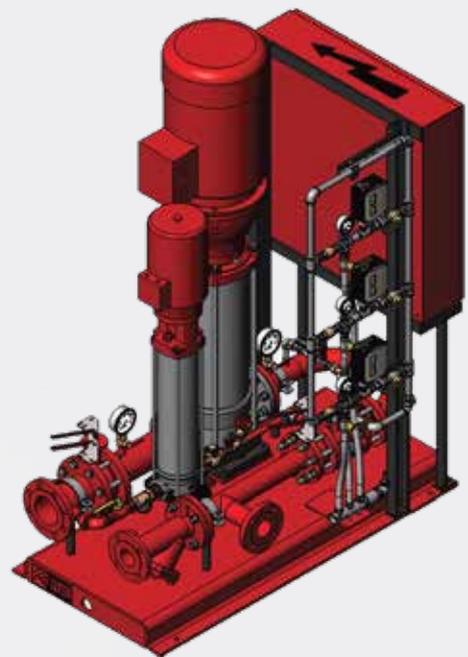
**Did you know that a water mist installation has a long lifespan and that also a smaller water supply is required, in comparison with a traditional sprinkler installation? This makes the water mist installation a sustainable investment!**



**Simplified representation of HI PR Firepack**



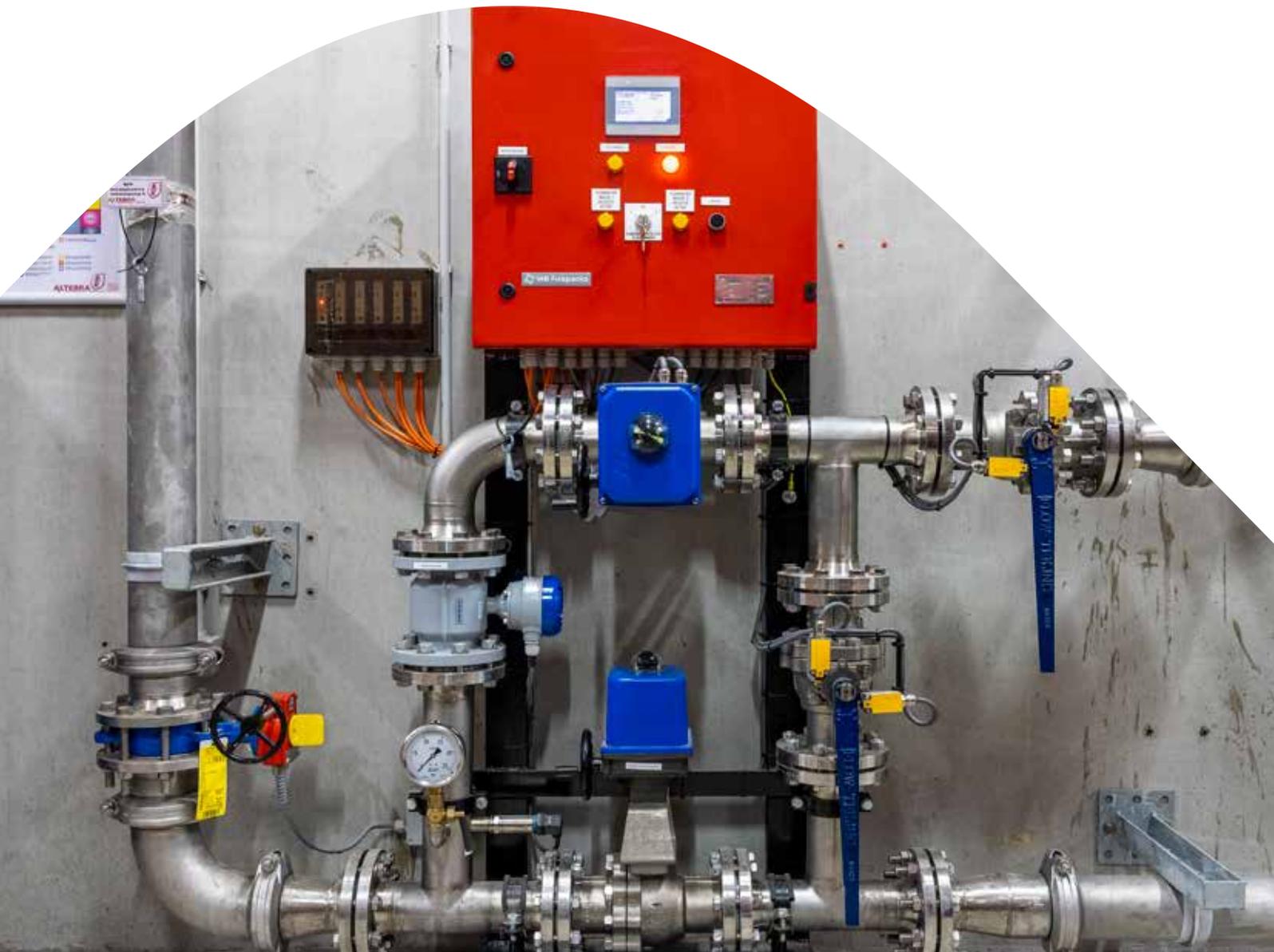
High Pressure watermist



Low Pressure watermist

# Foam sets and proportioning systems

Fire is created by a combination of fuel, oxygen and an ignition source. In to extinguish the fire, it is imperative to remove one of those three pillars. When the fire has started due to chemical substances, foam is often used for extinguishing. The foam functions as a blanket to remove the oxygen and, as such, extinguish the fire. Foam sets are often applied at warehouses or business where (large quantities of) hazardous substances are used.





To create foam, a water and foam concentrate must be pumped. For this process we have developed a foam pack, in addition to the Firepack (foam pump). In order to make sure that the exact right quantity of foam concentrate is injected, we developed a proportioning system (EFP). As soon as the water has been mixed with the foam concentrate, it is pumped to the hall and the foam generators will fill the hall with foam.

**Did you know that by using our EFP (proportion system) there is no loss of foam during testing, there is no environmental damage and therefore the operating costs are significantly lower?**



# Innovations



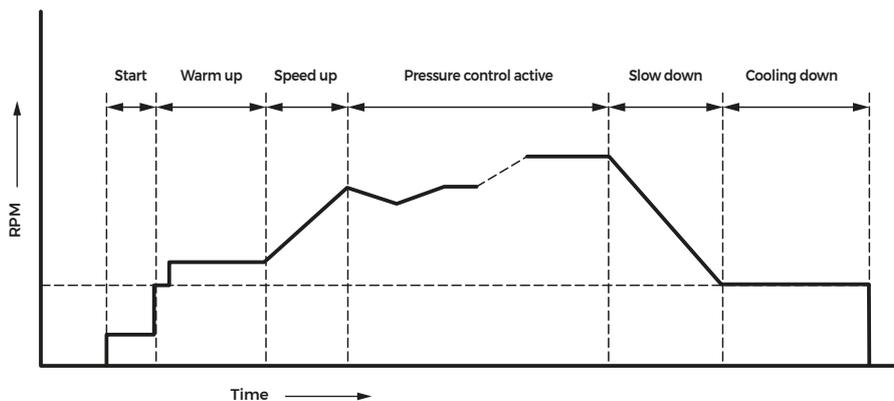
## Firecoach (remote monitoring)

With the Firecoach you have 24/7 insight into the condition of your Firepack. By means of an application you can monitor the Firepack(s) remotely on any desired (mobile) device.

This allows you to identify faults at an early stage and prevent downtime.

## VR experience

We are happy to take you into our VR experience. We have developed these to show how our solutions work. You can walk through our virtual pump room yourself and take a closer look at all the solutions. In addition, you can activate various functionalities yourself!



## Speed pressure control

The Speed pressure control system prevents the maximum permitted pressure on the pipework being exceeded. During testing, RPM speed is gradually built up, which has a positive influence on lifespan of the Firepack.

## **Prefab pump room**

WB Firepacks manufactures complete pump room to guarantee your fire security. WB Firepacks can relieve you by designing, building and deliver you a Prefab pump room.

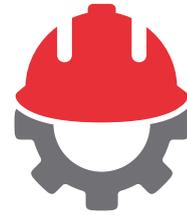


## **WB-CAN Controller**

A major advantage is that the WB-CAN Controller is able to influence engine speed based on pump pressure. And in case of failure, the WB-CAN Controller ensures that the diesel motor shuts down to prevent unnecessary damages (and costs).



# Service



**WB Firepacks does not stop after the commissioning of your Firepack. You can rely on the service of our own Service Engineers 24/7.**

## **Maintenance and repair**

For maintenance on Firepacks and our other products, you can obviously rely on the right quality and service. But also for maintenance on pump sets or other manufacturing, you can turn to us. We perform all work activities in the area of management and (preventive) maintenance, so as to guarantee the fire safety at all times.

## **Inspection and approval**

The environmental requirements that a company must adhere to are established in the Activities Decree. This Activities Decree states, as per 2016, that all pump sets must be checked by an SCIOS-certified organization and checked periodically. WB Firepacks can arrange these checks for you and thus assist you in complying with the regulations.





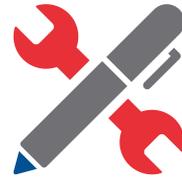
## **Wherever and whenever you want!**

At WB Firepacks we are flexible and operate in conformity with all applicable regulations, including NFPA, FM, NEN and TB80. We are also the partner for service on your foreign locations. We are there for you.

- ✓ Centrale coordination of all service activities and reachable 24/7 via our service phone number.
- ✓ Quick and reliable delivery of original spare parts.
- ✓ Specialists for maintenance and repair.
- ✓ Specialists for (online) start-up support and commissioning.
- ✓ Non-binding advice from our Engineers for the lifespan of your installation.

**More than 10,000 companies in Europe and beyond rely on WB Firepacks, 24 hours per day, all year round. Dedicated, reliable, capable and proactive.**

# Renovation



**No installation will last forever, even if your pump set is regularly checked and maintained. There comes a time when you will be facing the question: must the pump set be replaced or renovated by replacing a number of parts? We have a specialised team that is occupied with repair and renovations of Firepacks or pump sets of other manufacturer**

## Technical knowledge on board

During the process you have a point of contact for all your (technical) questions. Advice can range from:

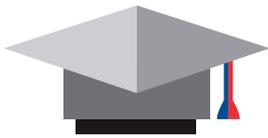
- ✓ The overhaul of the pump and/or (diesel) motor.
- ✓ The renewal of the switch cabinet.
- ✓ The replacement of complete pump sets (dimensioning in line with the current situation).
- ✓ The renewal of the entire setup of the pump chamber, including all piping, grids, test piping etc.



Before



After



# WB Firepacks Academy

**Technological progress marches on. Particularly where safety is concerned, it is important to attend training and retraining. WB Firepacks Academy caters to Firepacks technicians, engineers, designers, consultants, insurers, and operators (both fitters and end customers) working in the field of fire prevention and sprinkler security.**

Our Academy offers specially developed programmes in terms of weekly testing and specific product training. Our programs vary from introductory courses to in-depth specialist training, and meet all professional demands in terms of fire safety in various environments and industries. Tailor-made, of course, so that they can be adapted to any level of knowledge. It is possible to follow the training at our training location in Zwijndrecht, but in-company training is also possible.

## **Reduce installation downtime**

Our courses enable your operators to reduce downtime and perform primary services themselves. The knowledge they obtain also lets them better relay failure information or resolve failures themselves. Courses consist of practical sessions with a great deal of interaction between attendees and trainers.

# In which segments do we participate?

From hospitals to datacentres, and from hotels to distribution centres: we offer custom-made service for all of our project, and provide an optimum contribution to fire safety. We have over 100 years of experience in Firepacks engineering, and apply our knowledge and experience every day in the implementation of projects for our clients.

- ✓ **Distribution centres**
- ✓ **High-rise**
- ✓ **Hotels and hospitality**
- ✓ **Schools and offices**
- ✓ **Oil and gas industry**
- ✓ **Production environments**
- ✓ **Tunnels**
- ✓ **Shopping centres**
- ✓ **Hospitals**
- ✓ **Others**



Visual: AM

## Client Case: **Zalmhaven**

**The pump sets for the fire extinguishing system of the Zalmhaven were supplied by WB Firepacks. It concerns a diesel and an electric motor driven pump set, or Firepack.**

The installation of sprinkler systems is mandatory in buildings over 70 meters high. This also applies to all three Zalmhaven towers. The Firepacks, which were placed in the basement, provide the sprinkler system with water.

**Client Case:**

## **Aalberts integrated piping systems (productieomgeving)**

Een mooie order voor WB Firepacks: het leveren van een prefab pompkamer, inclusief watertank en tussenliggend leidingwerk voor de Hilversumse productie-locatie van Aalberts integrated piping systems (voorheen VSH). WB Firepacks voerde het project uit in opdracht van Croonwolter&dros.

**We hebben in opdracht van de klant zorgvuldig de partijen geselecteerd. WB Firepacks heeft ruimschoots ervaring en zich bewezen met soortgelijke projecten. We kijken terug op een fijne samenwerking.**

Willem Steenbeek, projectcoördinator bij Croonwolter&dros:





**WB Firepacks**

Hoedemakersstraat 14

3334 KK Zwijndrecht

Netherlands

+31 (0)78 623 15 00

[firepacks@firepacks.com](mailto:firepacks@firepacks.com)

[firepacks.com](http://firepacks.com)