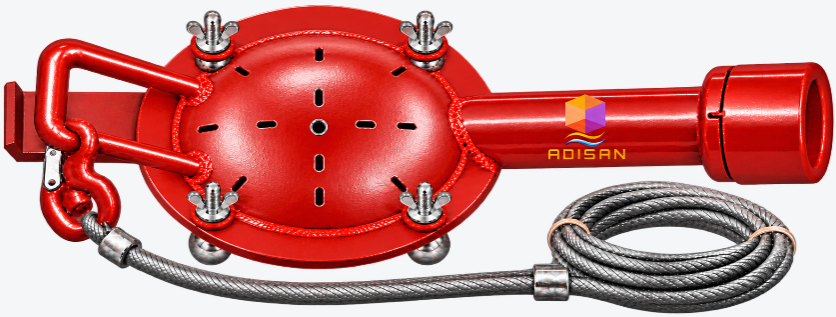
KOOLCHAKRA

MODULAR FIRE AND THERMAL MANAGEMENT

One configurable platform brings the selected extinguishing medium closer to difficult fire seats.

WATER | FOAM | GASEOUS AGENTS



CIRCULAR AND POINTED NOZZLES

Modular reach, media conditioning and remote positioning support application-specific deployment.

LAND MARINE INDUSTRIAL AVIATION

KOOLCHAKRA

MODULAR FIREFIGHTING DELIVERY SYSTEM

WATER • FOAM • GASEOUS AGENTS

NINE CONFIGURABLE COMPONENTS | ONE APPLICATION-ENGINEERED SYSTEM

01



Circular Nozzle

WATER AND FOAM

Broad upward water-wall or foam coverage

02



Circular Nozzle

GAS

Distributed radial gaseous-agent delivery

03



Pointed Nozzle

WATER AND FOAM

Directional discharge for localised attack

04



Pointed Nozzle

GAS PPNG

Rectangular-aperture gas delivery for difficult-access zones

05



Main Extension Pipe

MEP

Primary rigid connection and stand-off reach

06



Subsidiary Extension Pipe

SEP

Additional modular extension and positioning

07



Inline Inductor

WITH DIP TUBE

Controlled foam-concentrate induction and pickup

08



Weighted Anchoring & Mobility

TRANSFER BALLS + WIRE-ROPE HOOK

Controlled anchoring and mobility

09



Gas Manifold

DUAL NOZZLE DELIVERY

Dual-nozzle skid-mounted gas supply

SYSTEM CONFIGURATION PRINCIPLE

Select the agent, nozzle geometry, reach and supply architecture as one engineered delivery train.

APPLICATION ENGINEERING • PROTOTYPE VALIDATION • FIELD QUALIFICATION

Versatile agent delivery

The supply path changes with the selected medium. The nozzle geometry then controls where and how the agent reaches the target.



WATER

Cooling and thermal management

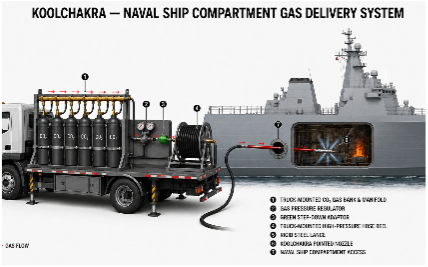
Firemain, hydrant, pump or appliance feeds the circular or pointed water nozzle.



FOAM SOLUTION

Blanketing and vapour control

An inline inductor draws approved concentrate before delivery through the selected nozzle.



APPROVED GAS

Confined-zone suppression

A cylinder bank or manifold, pressure regulator and high-pressure hose feed the gas nozzle.

Medium selection, pressure, flow and safety controls must follow the approved configuration and operating procedure.

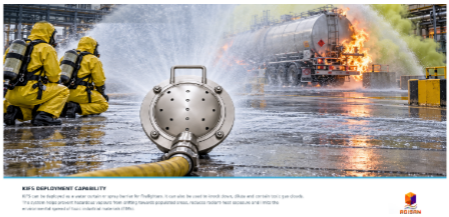
Multiple use cases

One modular architecture supports broad cooling, targeted application and restricted-access delivery across varied hazards.



GAS DELIVERY SYSTEM

Mobile manifold-fed suppression



HAZMAT CONTROL

Water-curtain deployment



SHIPBOARD FIRE PROTECTION

Cooling and containment at sea



FOREST AND WILDLAND

Remote water-wall application



EV FIRE MANAGEMENT

Continuous underbody cooling



AVIATION ASSET PROTECTION

Portable cooling around aircraft

Representative environments: marine compartments, EV and BESS, oil and gas, aviation, warehouses, tunnels and emergency response.