

Tailor-made dust suppression for hydraulic systems

The H2 Hydro is especially designed for use in combination with hydraulic systems and for dust suppression in outdoor areas. With the possibility to be mounted directly on construction equipment, the H2 Hydro can guarantee extremely efficient dust suppression with water mist technology – right at the source, where the dust is generated and before it can even spread into the surrounding environment.



DECEMBER 2023 – RESERVE TECHNICAL CHANGES

WHAT MAKES THE H2 HYDRO UNIQUE:

- > Weather-resistant and robust design for direct installation on outdoor dust sources
- > No additional power supply required, ideal for systems without electrical power source
- > Due to the immediate proximity to the dust source, extremely efficient dust suppression
- > Thanks to the highly effective water mist technology, very little water and energy is required for maximum results
- > Works without a control cabinet, which means even easier to install, operate and maintain
- > Highly modular and efficiently configurable flow rate
- > Integrated filter and pressure control valve

TYPICAL APPLICATION AREAS

The H2 Hydro is particularly suitable for installation directly on dust generating construction equipment with oil-hydraulic circuit/engines in outdoor areas. Suitable applications include big moving machinery/ devices around plants, especially crushers and excavators.

CHARACTERISTICS

Length pump box	mm	1040
Width pump box	mm	443
Height pump box	mm	336
Weight	kg	49
Operating temperature	°C	+5 to +40
Permitted range for the bypass*	%	0 to 20

HIGH PRESSURE PUMP

Power	kW	2
Speed	rpm	580-2000
Oil for operation	typ	SAE 15W-40

WATER

Water supply inlet	3/4"	
Water supply outlet	4 x 3/8"	
Water quality	portable water	
Water pressure		
at inlet	bar	min. 2, max. 5
at outlet	bar	max. 70
Water flow rate	l/min.	6-21
Water filter	µm	25 / 50

HYDRAULIC SYSTEM

Temperature operating hydraulic oil	°C	30 to 60
Mineral based hydraulic oil	typ HLP, HV (DIN 51524)	
Hydraulic oil viscosity	cSt	10 to 100

OIL CIRCUIT

Flow and return connection	Rp 1/2"	
Flow filtration	µm	90 to 100
Return filtration	µm	25
Flow oil pressure*	bar	80
Flow rate*	l/min.	7-24
Connection oil circuit leakage pipe	Rp 1/4"	

* TO BE VERIFIED BY EMICONTROLS