OffLine Separator Water
OLSW

Description

The OffLine Separator Water is used to remove oil from washing liquids (water with mineral oil < 10 vol. %) that are contaminated with mineral oils (density < 900 kg/m³).

The oil removal unit works according to the coalescence principle. This means that tiny oil droplets combine into larger drops in the coalescing elements and these large drops rise to the top due to the buoyant force of the water.

The OLSW is installed in the bypass flow; a pre-filter is available as an option.

Applications

- Industrial part washing systems

Advantages

- Extended service life
- Improved cleanliness
- Plug & Work unit
- Oil separation is virtually unlimited since the filter elements are non-absorbing
- Stainless steel housing
- Automatic oil drain, allowing unit to function independently

Technical specifications

Hydraulic specifications	
Nominal flow:	for OLSW 11/20: 20 l/min
Maximum permitted pressure	max. 6 bar
Permitted pressure at inlet INLET WATER	-0.6 to 0.4 bar (with pump) 1.5 to 5 bar (without pump)
Permitted pressure at drain DRAIN OIL	Not pressurized
Hydraulic connection INLET / OULTLET WATER	G1/2
Hydraulic connection DRAIN OIL	G1/2
Electrical specifications	
Supply voltage	version-dependent, see Model Code
Protection class to DIN 40050	IP 54
General specifications	
Permitted fluids	Water-based cleaning fluids, contaminated with mineral oil
Permitted fluid temperature	up to 80 °C
Permitted ambient temperature	5 to 40 °C
Capacity of coalescing tank	65 litres
Number of coalescing elements	11 pieces
Number of filter elements	1 piece
Weight	Standard version ≈ 165 kg Version B1 ≈ 50kg
Dimensions	Standard version 1420 X 1040 X 545 mm Version B1 400 X 393 X 1350 mm
Materials:	
Filter housing/foot	Stainless steel / steel, painted
Seals	FPM

Model code

OLSW 11 / 20 - W - N - 20 - 1 - D18 - 1 / Z

Basic model
OLSW =
OffLine Separator Water

Elements
11 = number of elements

Nominal flow rate
20 = 20 l/min

Pump
Z = without pump
W = centrifugal pump

Supply voltage
B = 480 V - 3 Ph
C = 380 V - 3 Ph
G = 440 V - 3 Ph
L = 115 V - 1 Ph
M = 230 V - 1 Ph*
N = 400 V - 3 Ph*
O = 460 V - 3 Ph
P = 575 V - 3 Ph
S = 500 V - 3 Ph
R = 415 V - 3 Ph
W = 230 V - 3 Ph*
X = other voltage (on request)
L60, M60, ...= operation at 60 Hz
Z = without motor
*) Standard in Europe according to CENELEC HD472 S1 at 50 Hz

Element length
20 = coalescing element 20"

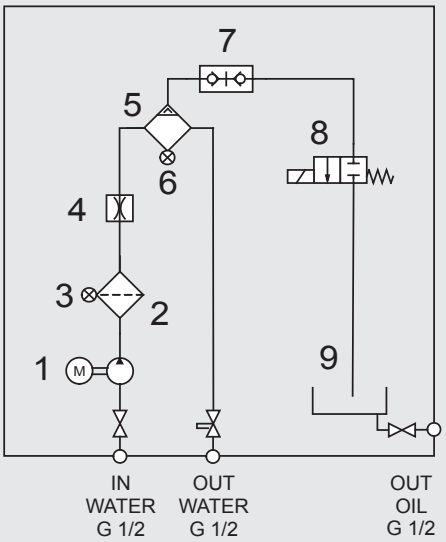
Pre-filter
1 = MRF1
Z = without

Clogging indicator
D18 = electrical clogging indicator

Oil drain
1 = oil drain, automatic, into 22 litre oil tank with manual discharge
2 = oil drain, automatic, into 100 litre oil tank with manual discharge

Supplementary details
H = heater with 10 kW heat output = H10
I = insulation
Z = without electric control
B1 = electric control provided by customer

Hydraulic circuit diagram

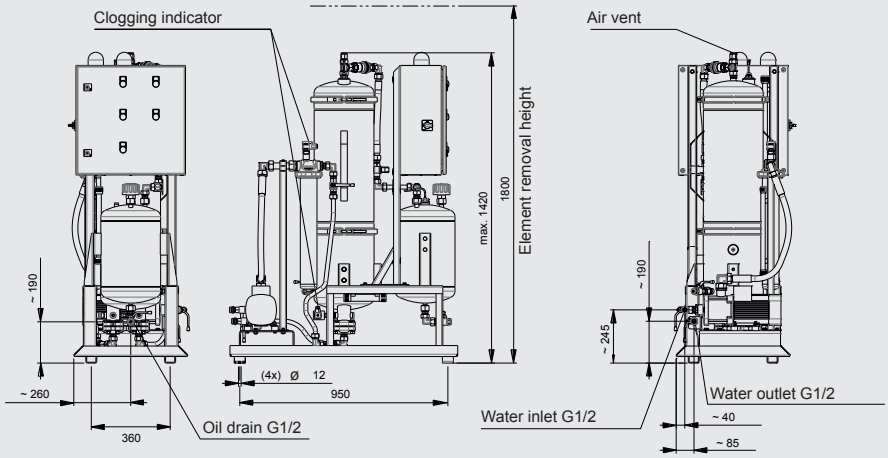


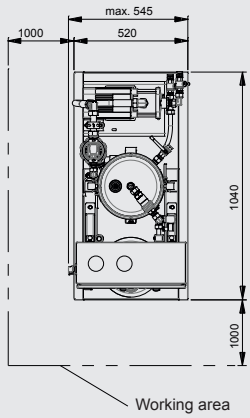
Item	Description
1	Motor-pump assembly
2	Pre-filter
3	Clogging indicator
4	Flow restrictor
5	Coalescing tank
6	Clogging indicator
7	Quick release coupling
8	Oil drain valve (automatic drain)
9	Oil tank / drip tray with fluid level sensor

Elements	
Coalescer elements	
3716715	N20OR001-PP19Z
Pre-filter element	
3510152	N20FM-P010-PES1F

General view - Standard version

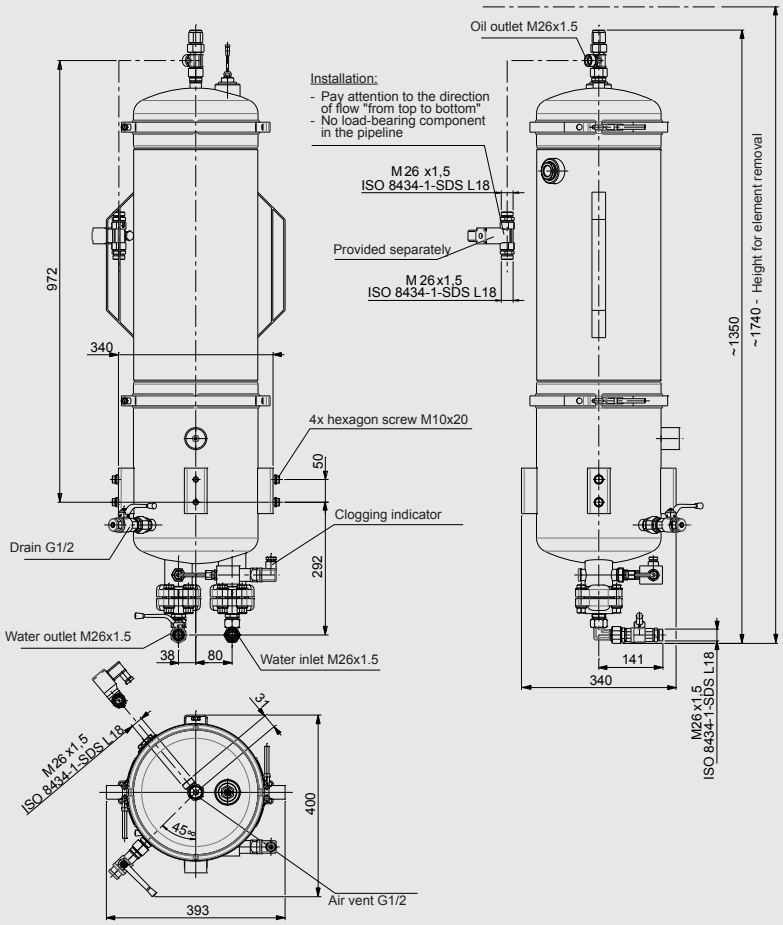
22-litre oil tank





General view - Version B1

Electrical integration to be carried out by customer



Items supplied

– OLSW (without elements)
– Operating and Maintenance Instructions

Note

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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