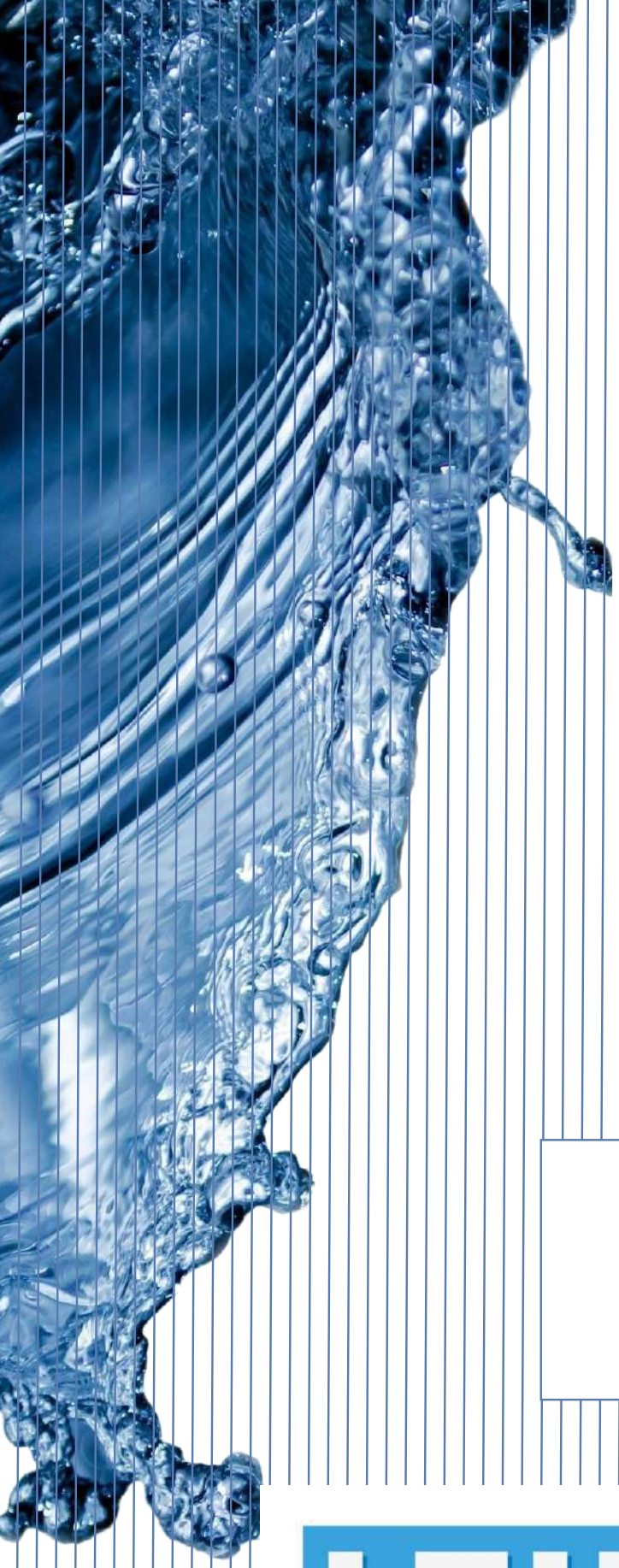


STAUFF

Filters

Offline and Bypass filters

SMWV

LTH

HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

Mini Water Vac ▪ Type SMWV

Product Description

The Mini Water Vac is a designated oil purification unit which can be applied directly to various types of machine reservoirs. It dehydrates and cleans most types of oils such as lubricating, hydraulic, transformer, and switch oils. The Mini Water Vac is a self-regulating filtration unit which removes particles, gas, and water. The purified oil satisfies the most stringent quality requirements.

The Mini Water Vac neither removes or alters oil additives. The water removal process is based on pure vacuum evaporation inside a vacuum chamber at a maximum temperature of +65 °C / +149 °F. Solid particle removal is achieved through a well proven STAUFF Systems Micro Filter.

Simple Operation

The Mini Water Vac does not require continuous supervision while operating. Once the unit is connected and commissioned, oil purification is a semi-automatic process. Desired oil temperature can be selected via the integrated heater thermostat. The dehydration and filtering process is fully automatic and is controlled via the PLC. The only manual action required is the emptying the pre-condenser bowl and the waste water container which are equipped with float switches to prevent overflow.

Water, Gas and Particle Removal

The Mini Water Vac removes liquid, gas, and solid particle contamination, which are corrosive and contribute to the reduction of machine life. Contamination greatly increases maintenance costs and contribute to breakdowns and total machine failures. The Mini Water Vac offers protection against malfunctions, breakdowns or total failures. The Mini Water Vac also protects the environment by reducing oil consumption and oil disposal.

Benefits

- Efficient water, gas and particle removal
- Extension of fluid life
- Reduces fluid disposal
- Minimizes corrosion
- Reduced failures and downtime
- Reduce operating costs

Technical Data

Construction
- SMWV-1-30: Mini Water Vac Vacuum Dehydration Unit one filter housing

Materials
- Filter housing: Eloxated Aluminium
- Vacuum chamber: Eloxated Aluminium
- Heater chamber: Eloxated Aluminium

Port Connections
- Inlet: G1
- Outlet: G1/2
- Online particle counter: STAUFF Test (M16x2)

Max. System Volume
- 3000 l / 795 gal

Recirculating Flow Rate
- 90 l/h / 23.8 gal/hr

Max. Backpressure
- 1 bar / 14.5 PSI

Max. Heater Temperature
- +65 °C / +149 °F

Filter Element
- 1 micron inorganic glass fibre element $\beta_1 > 200$

Media Compatibility
- Viscosity between 20 ... 500 cSt
- Max. attainable water content 100 ppm

Removals
- 100% of free water, >80% of dissolved water
- 100% of free gases, >80% of dissolved gases

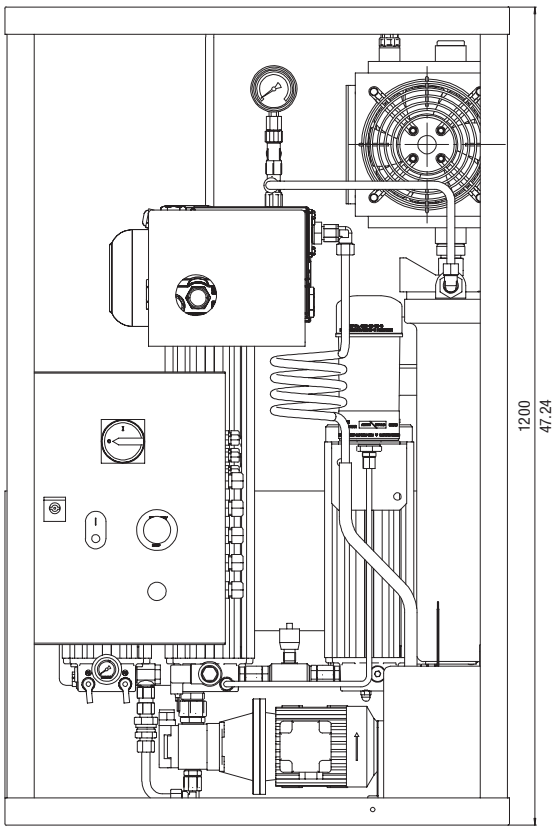
Dimensions
- 1200 x 740 x 450 mm / 47.3 x 29.1 x 17.7 in

Weight
- 130 kg / 287 lbs

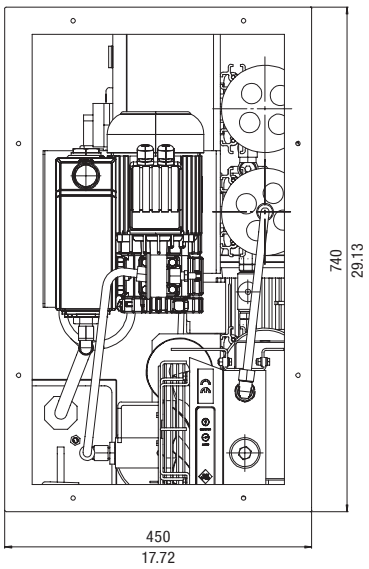
Electrical Data
- Voltage: 230/400 V AC, 50 Hz; 255/460 V AC, 50 Hz
- Power supply: 3 phases
- Heater section: 2 kW
- Vacuum section: 0,037 kW vacuum pump
- Max. current: 3 Amps

Process Control
- PLC unit

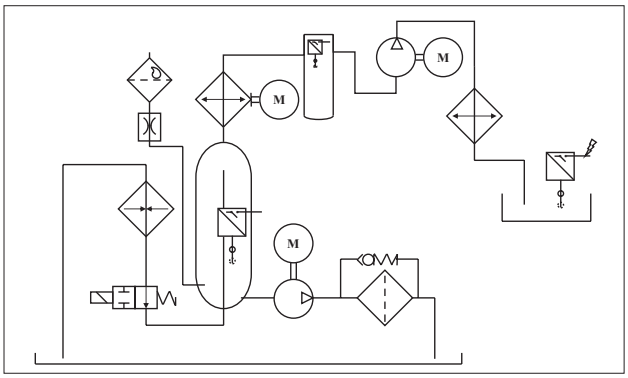
Dimensions SMWV-1



Top View



Schematic



All dimensions in mm / in

Mini Water Vac ▪ Type SMWV

SMWV	-	1	-	30	-	H	-	B	-	A
①		②		③		④		⑤		⑥

① Type

Mini Water Vac Oil Purifier (for industrial applications)	**SMWV**

② Housing Configuration

Single housing	**1**

③ Filter Element Length

300 mm / 11.81 in	**30**

④ Filter Material and Micron Rating

Material	Micron Rating µm	Code
Cellulose (standard)	0,5	**H**
Inorg. glass fibre	1	**E-01**
Inorg. glass fibre	3	**E-03**
Inorg. glass fibre	5	**E-05**
Inorg. glass fibre	10	**E-10**
Inorg. glass fibre	20	**E-20**
Inorg. glass fibre and polymer (water absorption)	5	**EA**

⑤ Sealing Material

NBR (Buna-N®) (standard)	**B**
FKM (Viton®)	**V**

⑥ E-motor Options

Type	Code
230/400 V AC, 50 Hz, three phases, 1360 r/min 255/460 V AC, 60 Hz, three phases, 1630 r/min	**A**

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