

DATENBLATT / DATA SHEET

CHV 400



Model	CHV 400
Durchflußleistung / flow rate	400 l/min
Abmessungen / measurements (L x W x H)	1010 x 670 x 1690 mm
Gewicht / weight	280 kg
Stromversorgung / power supply	400V - 3/PE - 50Hz
Anschlußleistung / power supply value	4,4 KW
Druckluftanschluß / compressed air supply	6 bar
Betriebsdruck / operating pressure	2,2 bar
Max. Druck / max. pressure	2,5 bar
Reaktor Tank Inhalt / reactor tank volume	
Hydro Zyklone / hydro-cyclones	4 units
Water Stabilizer	2 units
Hochspannungselektrode / high voltage electrode (HVE)	1 unit
Fein Filter / fine filter	
Filter Rückspülung / filter back flush	
Filter Rückspülungs Steuerung / filter back flush control	
Prozess Steuerung / proces control	relais based
Tauchpumpe(n) / submersible pump(s)	2x 2,2 KW
Druckpumpe(n) / supply pump(s)	
Linearmembranverdichter / linear air compressor	120 l/min
Flotationsmembranen / flotation membranes	3 units
Recyclingwasseranschluß / recycled water connection	2x 1 1/4" hose
Einspeisungs Wasseranschluß /feed water connection	2x 38 mm hose barb
Entleerungsleitung / discharge drain return	1x 63 mm
Wasserzähler / water meter	
Windkessel / air dome	



ADVANTAGES of FREYLIT CHV recycling systems

The CHV series has several advantages which we would like to briefly point out :

1. advantage : three stage solid removal

With the CHV system we remove suspended solids by a three stage process.

- a) By stainless steel pump protector coarse screen to block out solid waste
- b) By hydro-cyclone to remove larger particles.
- c) By dissolved air flotation to remove fine flakes and particles.

2. advantage : two stage de-germing process

- a) By high voltage electrode (30,000 Volts / 300 mAmps.)
- b) By our well established water stabilizer

3. advantage : removal of algae

Freylit has been engaged for many years in researching new wash water recycling technology. Recently we discovered that, when wash chemicals are mixed together with dirt and exposed to sunlight algae will grow. These algae will stick to pipes, tanks, car wash and other surfaces and act as a culture for bacteria. These bacteria will cause bad odour. To combat this problem Freylit developed the high voltage electrode which does not only kill bacteria, but is also very effective in preventing the growth of algae. Moreover, the High Voltage Electrode will cause a flocculation of fine particles.

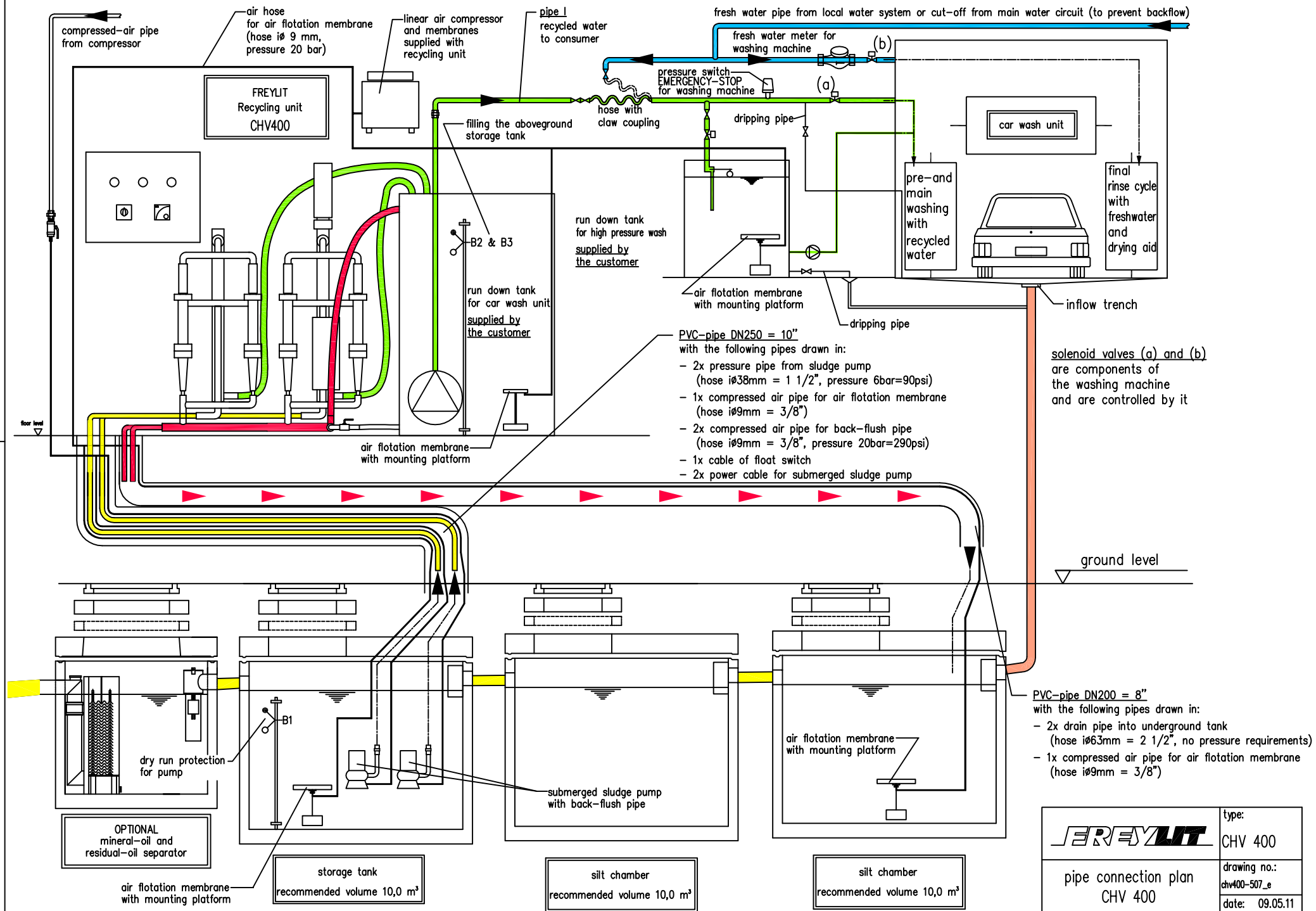
4. advantage : aeration for the existing buffer tank

With the CHV series recycling systems we deliver an aeration pipe with nozzles to be installed into the existing buffer tank. By aeration the flakes are brought up to the surface of the water inside the buffer tank. We also deliver a union to be installed into the existing buffer tank near the water surface. A hose connecting the buffer tank to the recycling system will drain the skimmed flakes off the surface to the overflow back to the silt chamber.

5. advantage : easy installation, minimum civil works needed

The CHV series is ideal for retrofitting sites where the car wash already exists, because for example the CHV200 only needs two PVC-spring hoses to connect the unit to the underground pit. The CHV 200 can work with only one underground tank with an approximate volume of 3780 litres (1000 gallons).

Moreover, the units are relatively light in weight, making transport, handling and installation easy.



	type:
	CHV 400
	pipe connection plan CHV 400
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