

TECHNICAL SPECIFICATION

Document ID: Meva MCU AG technical specification EN

Revision: 17.14

MEVA
by Nordic Water

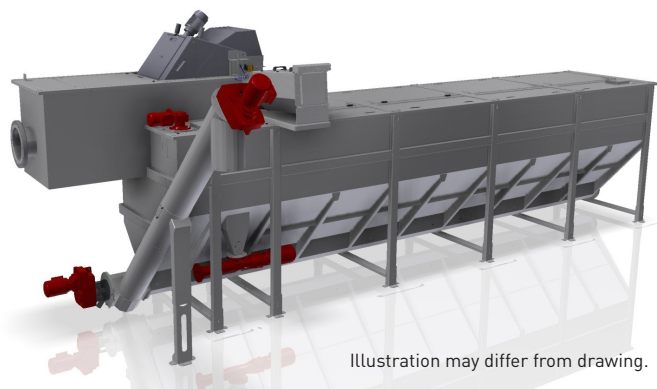
Combi Unit MCU AG

General information

The Meva Combi Unit MCU AG is used for mechanical pre-treatment of municipal and industrial waste water treatment plants. All treatment steps are integrated in one stainless steel tank. The MCU AG is available in models with varying litre capacities. The unit consists of well-known and reliable products from Meva such as Rotoscreen, Monoscreen and Screw Wash Press.

Solids are primarily removed by the fine screen. Sand and grease are removed in the grit trap before the water exit through the outlet.

The waste water can be fed to the unit either by gravity (installation below ground) or by pumping (installation above ground). The MCU AG is suitable for installation both in- and outdoors.



Manufacturing standards

MCU AG	EC Machinery Directive 2006/42/EC, EU standards EN ISO 12100 1&2, EN ISO 14121-1
--------	--

Surface finish

Surface treatment	Fully pickled
Painted parts standard color	RAL 4002
Painting standard	BSK 07 ISO 12944 C3 A3.03

Specification

Level indicator screen tank	Banner (ultrasonic)
Level indicator grease tank	Banner (ultrasonic)
Limit switches grease scraper	Telemecanique (mechanical)

Specification - Grease scraper

Gear box	Nord
Motor	Nord
Power	0,12 kW

Specification - Bottom conveyor

Length of MCU \leq 13500 mm	
Gear box	Nord SK 3382
Motor	Nord
Power	0,37 kW
Length of MCU \geq 14000 mm	
Gear box	Nord SK 4382
Motor	Nord
Power	0,75 kW

Specification - Discharge conveyor

Gear box	Nord SK3382
Motor	Nord
Power	0,55 kW

Aeration system (for all models)

Volume flow	Compressor	Non return valve
6 m ³ /h	Elmo Rietchle V-DTEC 6	Elmo Rietchle ZRK12
8 m ³ /h	Elmo Rietchle V-DTEC 8	Elmo Rietchle ZRK12
10 m ³ /h	Elmo Rietchle V-DTEC 10	Elmo Rietchle ZRK12
17 m ³ /h	Elmo Rietchle V-DTEC 16	Elmo Rietchle ZRK13
26 m ³ /h	Elmo Rietchle V-DTEC 26	Elmo Rietchle ZRK13
43 m ³ /h	Elmo Rietchle V-DTEC 41	Elmo Rietchle ZRK20

Electrical specification

Voltage	3x400 V
Frequency	50 Hz
Enclosure	IP 55

Construction material

Main parts	Stainless steel EN 1.4307 or EN 1.4404
Wear liner	Bemalon PEH

Options	
Color (other than standard)	<i>Painted parts</i>

Motor options	
Anti-condensation heater	<i>Motor option</i>
Thermistor	<i>Motor option</i>
Weather protection	<i>Motor option</i>

Material option for Combi Unit MCU AG	
Wear liner	<i>material - Hardox</i>

Additional accessories	
Compressor with non return valve for aeration system	<i>Elmo Rietschle V-DTEC 6-41</i>
Electric Control Panel (ECP)	
Drainage ball valve	
Grease pump	
Sand pump (sand discharge tank)	<i>Instead of sand discharge conveyor</i>

Transport and handling	
MCU AG	Transported on wooden pallet

Documentation	
Machine card	
Operation & maintenance manual	
Dimensional drawing	
Control philosophy	
Further documents are available upon request	

Model l/s	Grit trap width	Length	Screen	Press	Drawing no.
MCU 20 AG	800	4000	RS 10-30-3	SWP 15-30	DD-MCU20-AG-(P1-21611)
MCU 30 AG	1000	4000	RS 10-30-3	SWP 15-30	DD-MCU30-AG-(P1-21612)
MCU 40 AG	1000	5500	RS 10-30-3	SWP 15-30	DD-MCU40-AG-(P1-21613)
MCU 50 AG	1200	5000	RS 10-40-3	SWP 20-40	DD-MCU50-AG-(P1-21614)
MCU 60 AG	1200	6000	RS 10-40-3	SWP 20-40	DD-MCU60-AG-(P1-21615)
MCU 70 AG	1200	6500	RS 10-50-3	SWP 20-50	DD-MCU70-AG-(P1-21616)
MCU 80 AG	1200	7500	RS 10-50-3	SWP 20-50	DD-MCU80-AG-(P1-21617)
MCU 90 AG	1400	6500	RS 10-60-3	SWP 20-60	DD-MCU90-AG-(P1-21618)
MCU 100 AG	1400	7000	RS 10-60-3	SWP 20-60	DD-MCU100-AG-(P1-21619)