



SOLVOCARB® mobile – carbon dioxide for water. Safe, cost-efficient and flexible pH control.



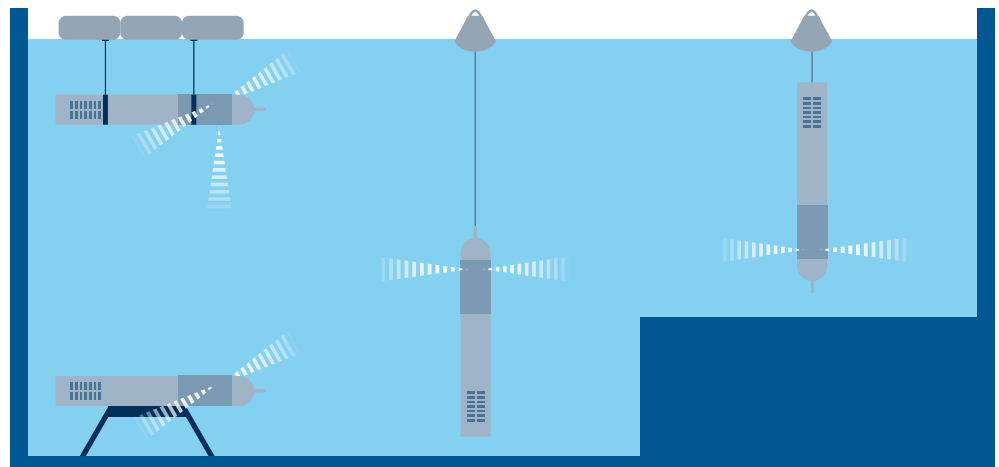
Accurate and safe pH control with CO₂

Linde's SOLVOCARB® product line has been developed to provide a safe and accurate alternative to mineral acids for alkali pH control. SOLVOCARB mobile is ideal for operators of small- to medium-sized plants looking for a cost-effective and hassle-free solution to address their neutralisation needs. It can be installed in basins with challenging shapes as it is free-floating. A single unit can handle up to 320 m³/h¹ of wastewater and can be easily combined with additional units if more capacity is needed. The patented venturi nozzles generate very small CO₂ bubbles, thus ensuring perfect dissolution of the gas and preventing localised pH variations.

Benefits at a glance

- Portable, lightweight submerged jet dissolver; can be installed without a crane
- Flexible installation fits any shape of basin: floating or fixed, horizontal or vertical
- Wet installation: no need to drain the tank or halt operations
- Low maintenance and operating costs
- Allows for rapid response to temporary peak loads
- Excellent mixing capacity, promoting homogeneous CO₂ dissolution

Installation



Flexible installation. Submerged venturi mixer for better mixing power and homogeneous carbon dioxide dissolution.

¹ at a pH of 11.5

Who can benefit from SOLVOCARB mobile?

- Small- and medium-sized industrial plants producing alkali water
- Operators struggling with localised pH variations and/or mineral acid overdosing
- Basins with water depths of 2.5 m (8 ft) or more

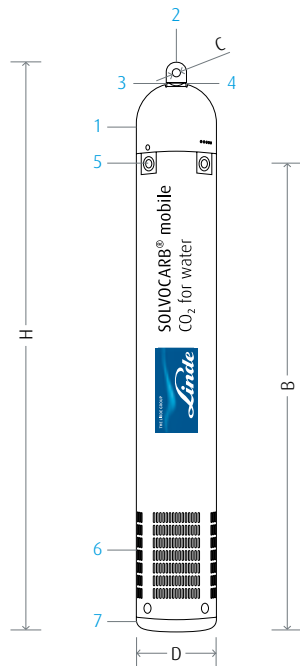
Technical characteristics

	50 Hz version	60 Hz version
Capacity CO ₂ /h (kg/lbs)	15 to 45 kg (33 to 100 lbs)	15 to 45 kg (33 to 100 lbs)
Voltage	400 V, three-phase	480 V, three-phase
Weight (kg/lbs)	51 kg (112 lbs)	60 kg (132 lbs)
Cable (m/ft)	1.8 m (6 ft), extendable	Up to 33 m (110 ft)
Total height (mm/in)	1378 mm (54 in)	1600 mm (63 in)
Height bottom to CO ₂ outlet	1132 mm (45 in)	1360 mm (54 in)
Horizontal	Yes	Yes
Vertical/upside-down	Yes	Yes
Pump power	2.2 kW (2.95 hp)	3.4 kW (4.55 hp)
Water temperature max (deg C/F)	45° C (113° F)	45° C (113° F)
Pump flow (m ³ /h; gal/h)	60 m ³ /h (15850 gal/h)	60 m ³ /h (15850 gal/h)
Minimum immersion (m/ft)	2.5 m (8 ft)	2.5 m (8 ft)
Max immersion (m/ft)	15 m (49 ft)	15 m (49 ft)
Solids diameter (mm/in)	<3 mm (0.12 in)	<3 mm (0.12 in)

External features and dimensions

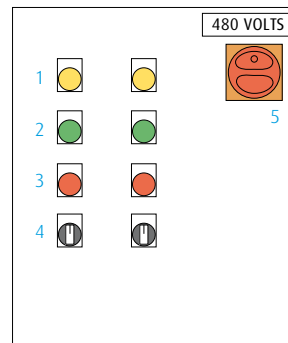
Mobile overview

1 Top cap, 2 Loop for mooring a buoy, 3 AC inlet, 4 Carbon dioxide inlet, 5 Water outlet (x4), 6 Water inlet to pump, 7 Bottom cap



Starter box overview

1 Fault: yellow indicator, 2 Run: green indicator, 3 Power on: red indicator, 4 Hand/auto: operating mode 5 Power switch



Starter box for 60 Hz version. For the 50 Hz version, a single starter box with a reset button is supplied.

	50 Hz version	60 Hz version
H	1378 mm (54 in)	1600 mm (63 in)
B	1132 mm (45 in)	1360 mm (54 in)
C	25 mm (1 in)	25 mm (1 in)
D	196 mm (7.7 in)	196 mm (7.7 in)

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