

Braukmann

CBU140

Compact Booster Unit - single pump

For the protection of potable water systems according to EN 1717

Application

The CBU140 Compact Booster Unit provides hygienic separation between potable water and liquids up to category 5 in accordance with EN 1717.

It is used wherever a direct connection to the potable water network is not permitted, for example in agricultural facilities, slaughterhouses, biological laboratories and subsurface irrigation systems.

The ready-to-connect unit combines a buffer tank, pump system and control unit in a compact assembly. This enables reliable water supply to downstream systems while maintaining the required protection of the potable water network. Its compact design also allows installation in confined plant and service rooms.

Approvals

- DVGW
- CE

Special Features

- Pre-assembled, ready for installation
- Hygienic separation of potable and non-potable water according to EN 1717
- Integrated drain connection with siphon trap
- Reliable operation due to buffer tank with usable storage volume
- Membrane pressure expansion vessel included to reduce pump switching frequency
- Compact design for installation in confined plant and service rooms
- Plug-and-play electrical connection

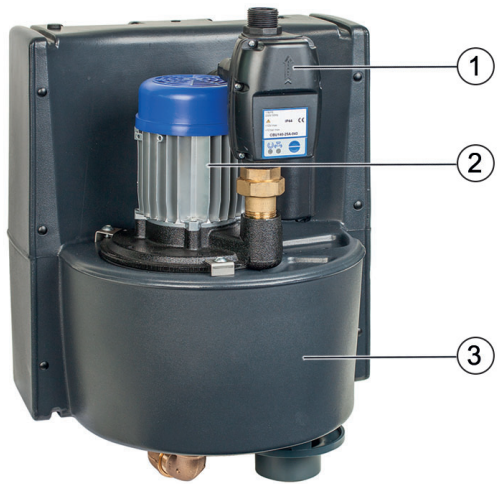
Technical Data

Medium	
Medium:	Water Free of aggressive, abrasive and solid contaminants
Hydraulic data	
Flow rate:	up to 3.6 m ³ /h, 1 l/s
Pumping head:	up to 45 m
Inlet flow at 6 bar:	< 1 l/s
Pressure data	
Pump switch-on pressure:	2.5 bar
Max. system pressure:	6 bar
Max. inlet pressure:	6 bar



Temperature data	
Max. medium temperature:	35 °C
Electrical data	
Supply voltage:	230 V AC ± 10 %, 50 Hz
Power consumption in stand-by mode:	2.5 - 3 W
Max. power consumption:	810 W
Drive:	Single-phase, AC motor with integrated overload protection
Thermal class:	F
Protective class:	IP44
Mechanical data	
Weight CBU without water:	approx. 22 kg
filled with water:	approx. 35 kg
Weight membrane pressure expansion vessel without water:	approx. 2.4 kg
filled with water:	approx. 5 kg

Construction

Overview		Components	Materials
	1	Monitoring and control unit for the centrifugal pump	-
	2	Self-priming multi-stage centrifugal pump	-
	3	Buffer tank with integrated potable water replenishment via mechanical float valve and air gap according to EN 1717	PE-LLD
	Not depicted components:		
		Wall mounting kit consisting of screws, wall plugs and mounting brackets	Zinkplated steel
		Flexible PN 10 connection hoses with DVGW/TÜV approval and 10-year warranty for potable water and discharge connections	Stainless steel
		Membrane pressure expansion vessel	Steel

Method of Operation

The Compact Booster Unit provides hygienic separation between potable water and non-potable water while supplying the downstream system via an integrated buffer tank and pump assembly. The buffer tank is automatically filled from the potable water network through a mechanical float valve. The usable storage volume is approximately 13 litres.

The pump draws water from the buffer tank and is controlled by a pressure switch within the control unit. The factory setting of the switch-on pressure is 2.5 bar. After each switching cycle, the pump continues to run for approximately 10 seconds in order to reduce the number of start-stop cycles. The unit is equipped with dry-run protection, a check valve and a pressure gauge for system monitoring.

Transportation and Storage

Store the components in their original packaging and unpack them only immediately before installation in order to prevent damage and contamination.

The following environmental conditions must be observed during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	40 °C
Max. ambient relative humidity:	50 % *

*non condensing

Installation Guidelines

Setup requirements

- Stationary installation
- Provide shut-off valves upstream and downstream of the unit
- Connect the unit to the system using the supplied flexible connection hoses
- Install in a frost-protected, flood-protected and easily accessible location
- Install the membrane pressure expansion vessel vertically downstream of the CBU
- If the supply pressure exceeds 6 bar, a pressure reducing valve must be installed
- Pump capacity and inlet flow rate must be matched. If necessary, install a restriction device at the outlet to prevent activation of the dry-run protection

Installation Example

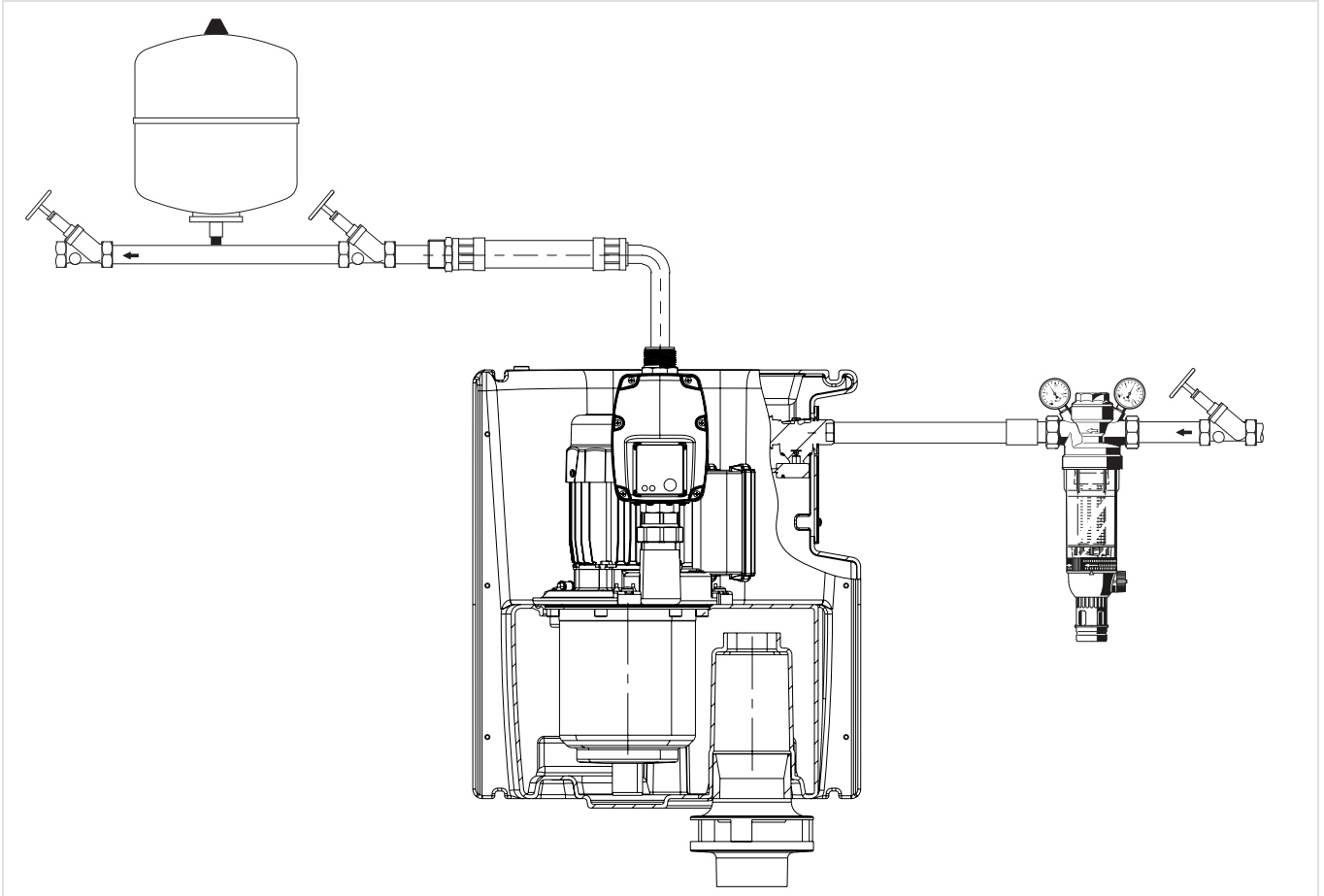


Fig. 1 Installation example of the CBU Compact Booster Unit

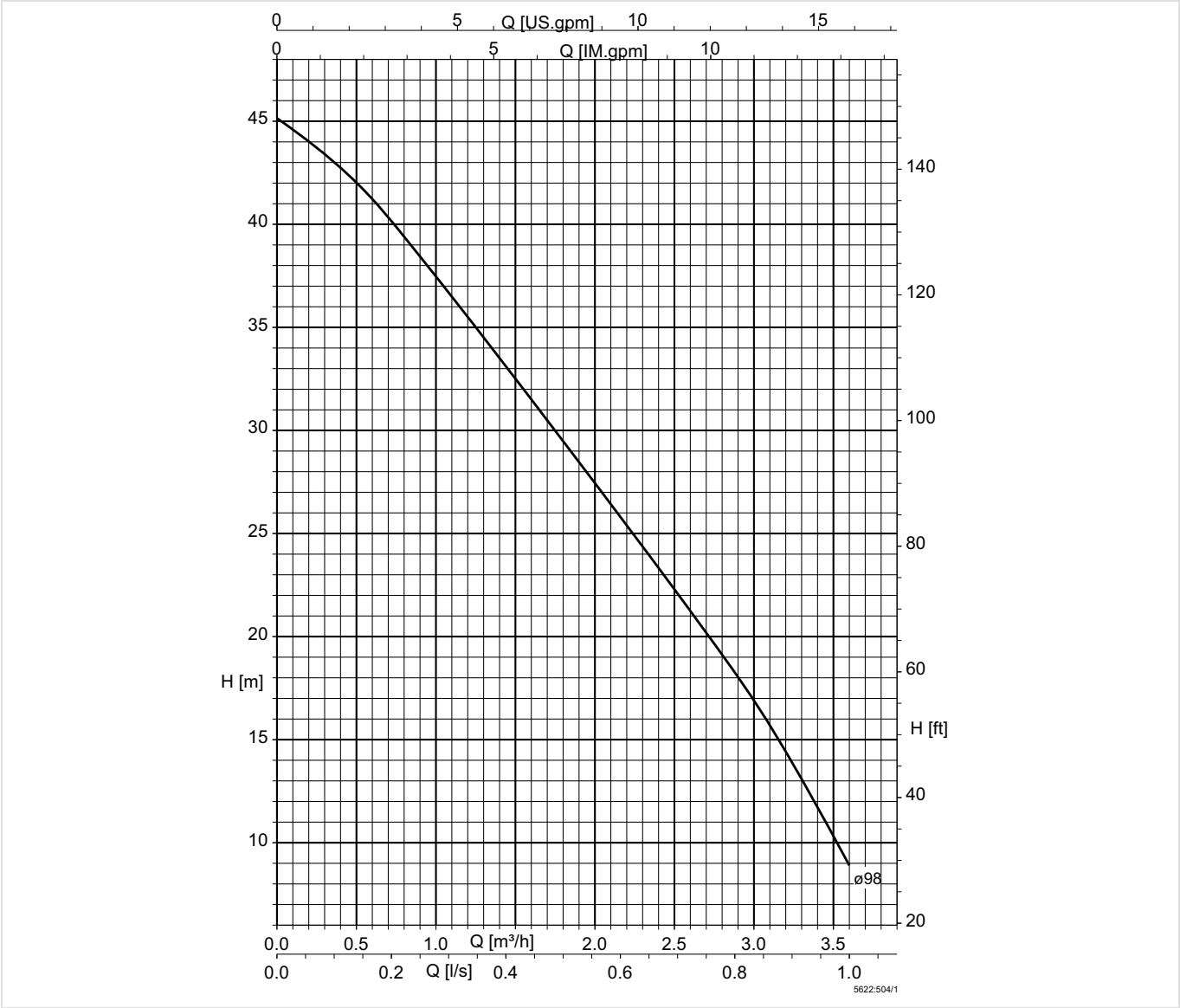
LED status indicators on the pump control unit

- Green – Unit ready for operation
- Red – Water shortage or system fault

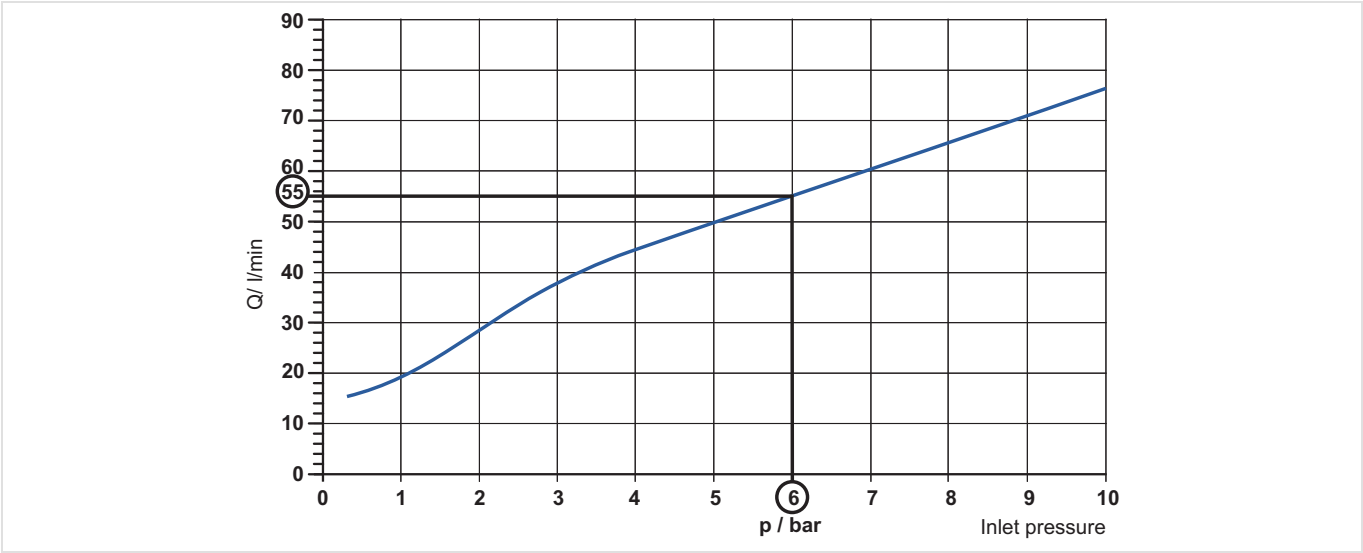
Technical Characteristics

Pressure drop characteristics

Pump Performance Curve



Flow characteristics of the inlet valve



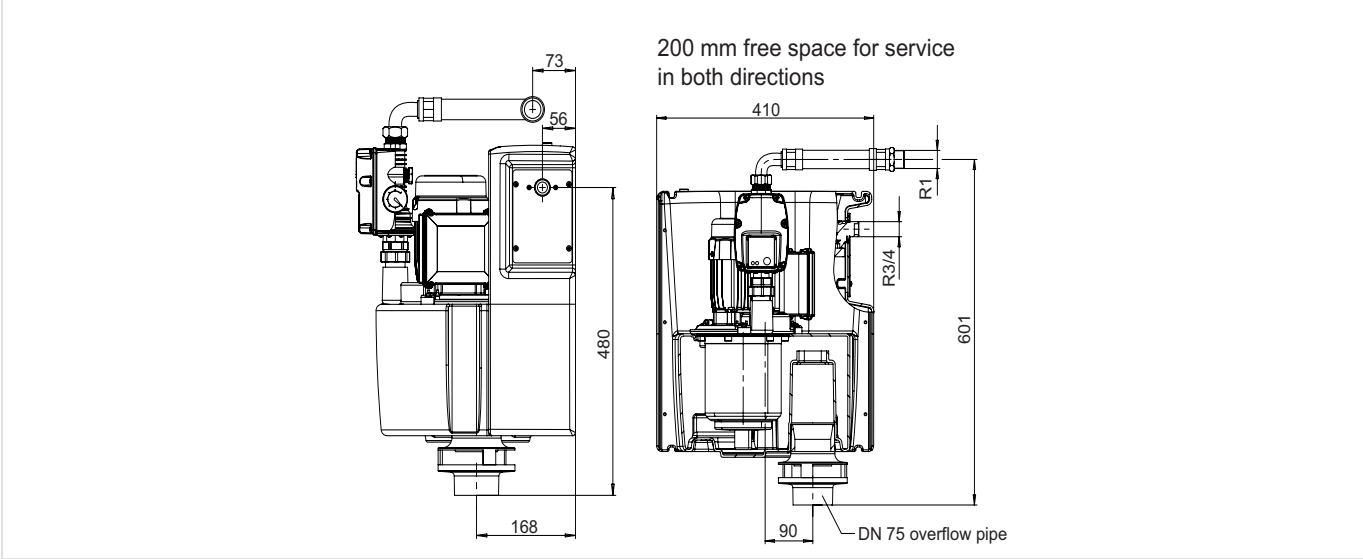
Noise expectancy values

Noise levels of approximately 55 dB(A) can be expected, depending on the operating point.

Dimensions

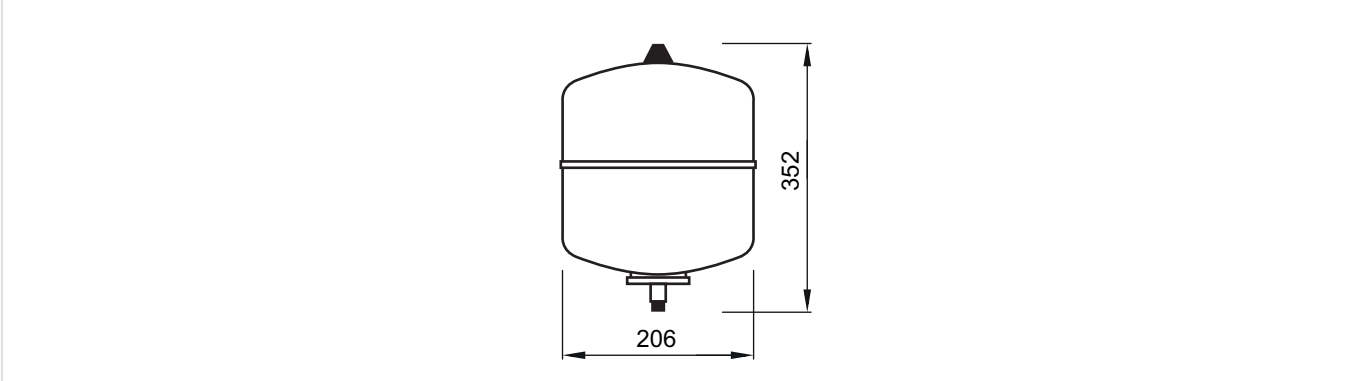
CBU

Overview



Membrane pressure expansion vessel

Overview



Ordering Information

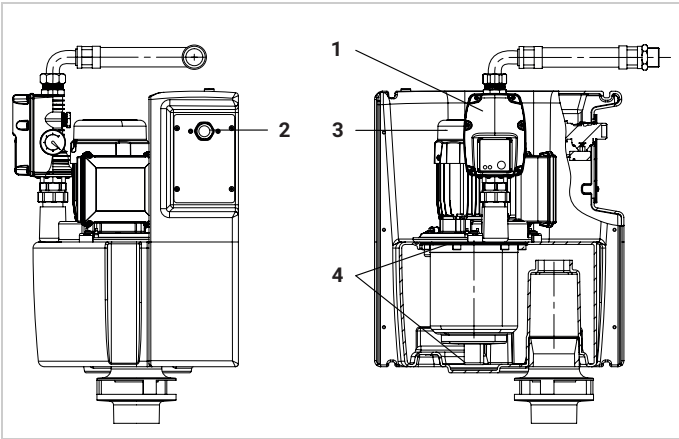
The following tables contain the information required for product selection and ordering.
When ordering, always specify the part number.

Options

Connection size	Pumping head	Item No.
DN 25	45 m	CBU140-25A-043

Spare Parts

Compact Booster Unit CBU140, from 2013 onwards

Overview	Description	Dimension	Item No.
	1 Pump control unit		18041125-CBU140
	2 Float valve (complete)		18042023-CBU
	3 Pump incl. seal kit		18041119-CBU
	4 Seal set		18040824-CBU140

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Subject to change. EN0H-1377GE23 R0926
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