

## Compact Boosting Pump

# GRUNDFOS **CMBE TWIN**

The Grundfos CMBE Twin is a booster pump for water supply and commercial boosting applications. The CMBE Twin Booster system consist of two CMBE pumps connected in parallel and mounted on a base plate with a Grundfos built manifold. The CMBE pumps will alternate to ensure the same number of operating hours until high flow is needed, and the pumps will run together.

The CMBE twin offers constant pressure and high comfort thanks to the variable-speed motor, noiseless operation and built-in protection against dry running. A pressure sensor monitoring the discharge pressure allows for the CMBE twin to adjust motor speed or signal for the second pump to start, adapting to changing system demands.

The integrated speed control enables the CMBE to maintain a constant pressure in the pipe system and offers a solution for a variety of applications such as:

- Apartment buildings
- Schools
- Small hotels
- Office buildings



### KEY FEATURES AND BENEFITS

- Cascade control - ensures that pump two starts in case high flow is needed
- Pump alternation - keeps operating hours even between the pumps
- Multi-Master - both pumps can be the control unit
- Dry running protection
- Grundfos manufactures all CMBE Twin components
- All-in-one solution including pump, motor, tank, pressure and flow sensor, controller, check valve, fuse box, base plate and manifold
- High efficiency ECM motor
- Available in three different CMBE sizes
- Available in both 1x115V and 1x200-240V
- Communication capable with CIM cards
- Wireless communication between the two CMBE pumps
- Low noise (57dB or less in typical use)

### APPLICATIONS

- Residential and commercial boosting
- Water supply from wells
- Irrigation
- Domestic fire suppression

**TECHNICAL DATA**

CMBE TWIN	
SYSTEM PRESSURE:	max. 145 psi
SUCTION LIFT:	max. 3.28 ft (1 m), including suction-pipe pressure loss at a liquid temperature of 68°F (20°C)
LIQUID TEMPERATURE:	-22°F to +248°F
LIQUID TEMPERATURE:	max. 232 psi
SOUND PRESSURE LEVEL:	0.3 to 8.4 hp
SUPPLY VOLTAGE:	1x115V, 1x200-240V, 60 Hz

**PRODUCT OFFERING**

CMBE TWIN	
99503861	CMBE TWIN 1-44 1x115V 60Hz Fusebox
99503861	CMBE TWIN 3-51 1x115V 60Hz Fusebox
99503875	CMBE TWIN 10-54 1x200-240V 60 Hz Fusebox

**PERFORMANCE DATA**

1x115V Supply Power Flow Rate Selection Chart

PSI Boost	0-10 GPM	0-15 GPM	0-20 GPM	0-25 GPM	0-30 GPM	0-35 GPM	0-40 GPM	0-45 GPM
20 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	—	—
25 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	—
30 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	CMBE3-51
35 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	CMBE3-51
40 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	CMBE3-51	—
45 PSI	CMBE1-44	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	—	—
50 PSI	CMBE1-44	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	—	—	—
55 PSI	CMBE1-44	CMBE3-51	CMBE3-51	CMBE3-51	—	—	—	—
60 PSI	CMBE1-44	CMBE3-51	CMBE3-51	—	—	—	—	—
65 PSI	CMBE3-51	—	—	—	—	—	—	—
70 PSI	—	—	—	—	—	—	—	—

1x230V Supply Power Flow Rate Selection Chart

PSI Boost	0-15 GPM	0-25 GPM	0-35 GPM	0-45 GPM	0-55 GPM	0-65 GPM	0-75 GPM	0-85 GPM	0-95 GPM	0-105 GPM	0-115 GPM	0-125 GPM
20 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54
25 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54
30 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54
35 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—
40 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—
45 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—	—	—	—
50 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—	—	—	—	—
55 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—	—	—	—	—	—
60 PSI	CMBE10-54	CMBE10-54	CMBE10-54	CMBE10-54	—	—	—	—	—	—	—	—
65 PSI	CMBE10-54	CMBE10-54	CMBE10-54	—	—	—	—	—	—	—	—	—
70 PSI	CMBE10-54	CMBE10-54	—	—	—	—	—	—	—	—	—	—
75 PSI	CMBE10-54	—	—	—	—	—	—	—	—	—	—	—
80 PSI	—	—	—	—	—	—	—	—	—	—	—	—

Visit [grundfos.us/pei](http://grundfos.us/pei) to learn more about Department of Energy (DOE) pump energy index (PEI) requirements and PEI ratings on specific Grundfos models.