

Munters Euroemme MPG

Modular Plastic Gutter

MPG is a complete water supply and distribution system for wet evaporative cooling pad walls. An easy-to-install, glue- and adhesive free solution system.

Glue-free system

- No water leakage from adhesive cracks
- Easy installation, cleaning, and pad replacement
- Avoid reworks and repairs of full length cooling system

High quality materials

- No water leakage from thermal expansion and contraction
- Robust double-wall tank
- Excellent durability, long service life

The biggest risk factor in standard water distribution systems is the glue application, which can lead to water leakage and complicated repairs if something goes wrong. Glue is also prone to tearing and ripping with time and due to the thermal expansion and contraction of the gutter system.

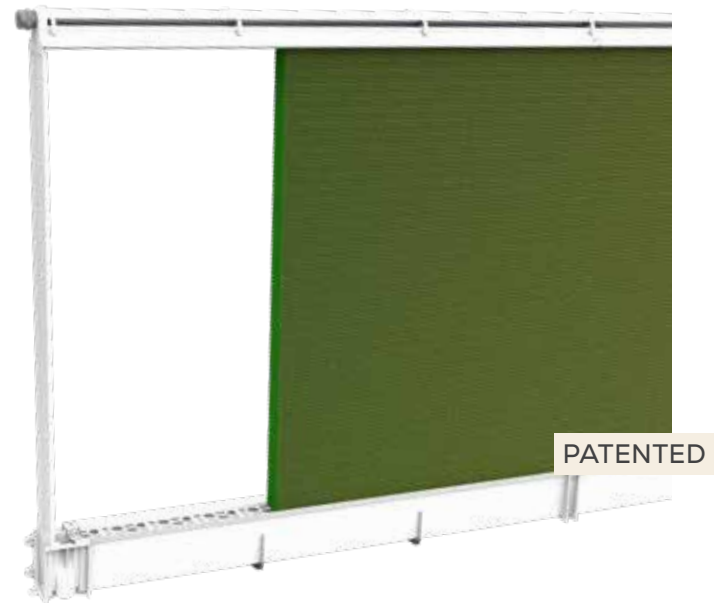
MPG replaces the glue with innovative joints to avoid leakage from the thermal effects.

Installation, inspection, and ordinary maintenance are all drastically reduced as its modular system can be easily disassembled and doesn't require drying time.

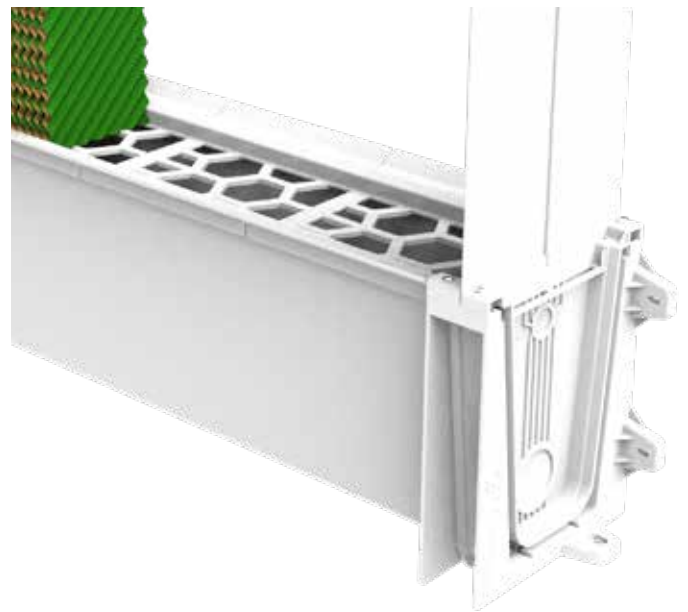
The double-wall tank supplies the water needed for the full system, saving time and money as it does not require an extra tank.

The gutter is available in two depths – 100 and 150 mm – to better meet farmers' needs, based on house dimensions, type of farm, and livestock density.

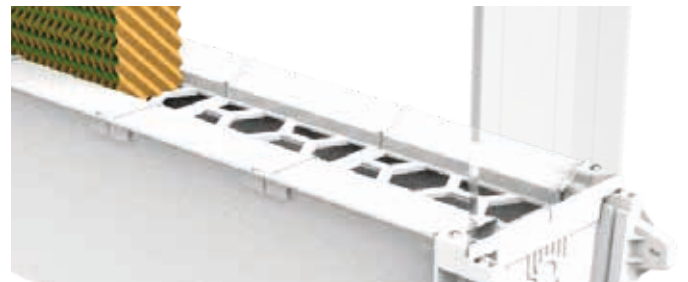
MPG is the ultimate solution for climate zones where cooling is required (-10/+40°C or 15/105°F) and for all livestock and greenhouse applications.



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Modular Plastic Gutter - 150 (above)-100 (below) mm honeycomb pad support



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All-in-One solution

The Modular Plastic Gutter has been engineered and designed to ensure proper wetting of the cooling pad, even in extremely hot weather requiring continuous water recirculation

Used with CELdek® pads, the MPG solution ensures perfect temperatures for farms and greenhouses in every climate.

All parts are made in high quality PVC and PP materials, UV stabilized.

The complete MPG solution includes:

- Full frame system (top, bottom and lateral sides)
- Water distribution kit and centrifugal water pump, accessory
- Inspection kit, accessory
- Flushing kit, accessory
- Pump support bracket kit, accessory
- Spare parts kit, accessory

Pad guides and deflectors

Clip-in function for easy mounting experience. Deflector design ensures best water distribution without the need for a distributor pad.

Elements

● Base Element 6 m, contains:

- Supply and discharge bracket (middle or side water feed)
- Two sections: 3 m and 2.85 m long
- Lateral sides (pads height up to 2.5 m)

● Middle Element 6 m, contains:

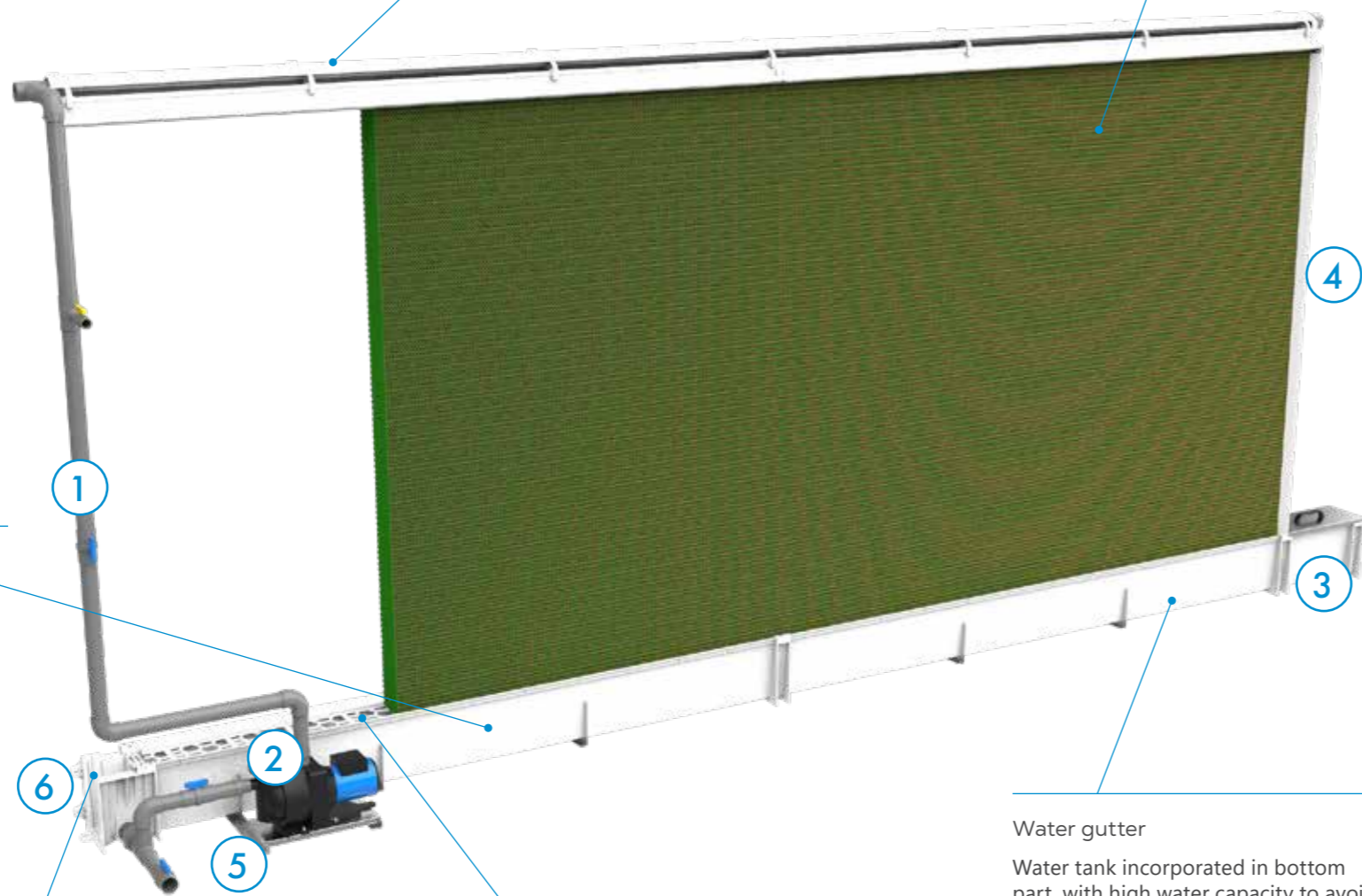
- Two 3 m long sections

● Middle Element 3 m long

- One 3 m long section

● Base Element 3 m (single element, swine applications), contains:

- Supply and discharge bracket (middle or side water feed)
- One 3 m long section
- Lateral sides (pads height up to 2.5 m)



Gaskets

Glue-free system, made in neoprene.

Pad support

Designed with large honeycomb openings to avoid water stagnation, clogging and algae proliferation, easy to clean and flush.

Munters CELdek®

To achieve optimal results, we recommend the use of CELdek pads (wash rate 60[l/min]/m²), available in two depths - 100 and 150 mm.

Designed to provide maximum cooling effect, with low pressure drop and years of reliable service, it is made from specifically engineered cellulose paper. CELdek crossed, unequal angle pad design promotes the beneficial mixing of air and water for optimal cooling.

Munters Reventa RCP

MPG is configurable to also work with RCP plastic pads (wash rate 120[l/min]/m²), depth 150 mm.

Water gutter

Water tank incorporated in bottom part, with high water capacity to avoid dry operation of the pump. Stable and robust double wall to avoid wobbling.

Available accessories

- 1 Distribution Kit
Includes all piping, joints, elbows, necessary to connect water pump to MPG system, float valve, for middle or side water feed.

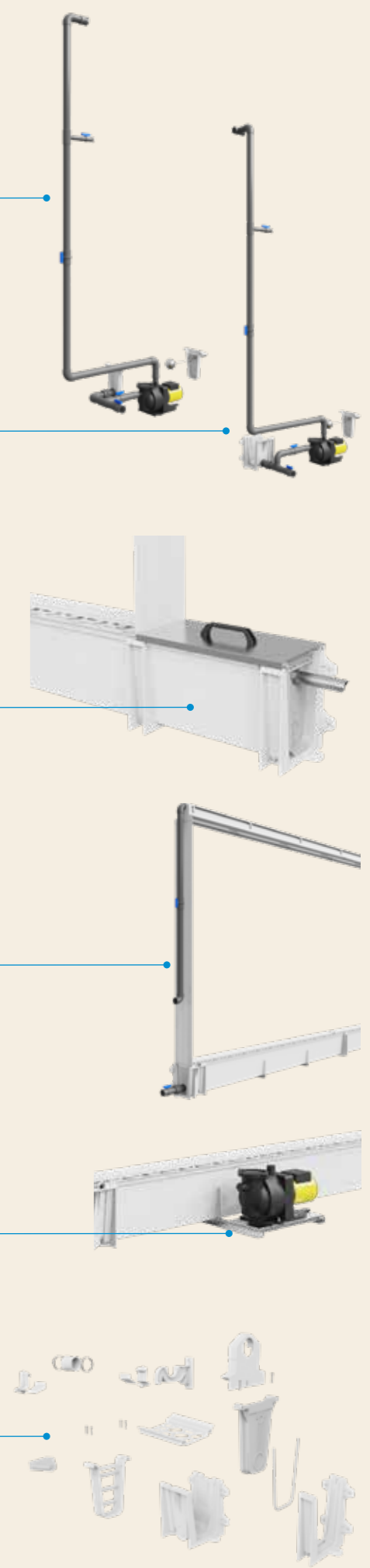
- 2 Water Pump
Centrifugal water pump with integrated filter. Available configurations include: 230/400VAC, single or three phases, 50/60Hz.

- 3 Inspection Kit
Allows inspection and adjustment of the float valve (without pads removal).

- 4 Flushing Kit
Allows flushing out of concentrated water, dirt and debris from the system.

- 5 Pump Support Bracket Kit
Allows pump fixing in hanging position (suspended) when floor installation is not possible.

- 6 Spare Parts Kit
Replacement parts in the unlikely event of breakage or damage during installation.



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| Motor | Pump | | Length | Water feed Middle (M)/Side (S) | MPG elements with CELdek | | | | | | | | | |
|--------|-----------------------|----------------|--------|-----------------------------------|--------------------------|---|---|---|---|---|---|---|---|--|
| | Voltage | Frequency | | | | | | | | | | | | |
| 0.5 hp | Single-phase 220 V | 50 Hz 60 Hz | 3 m | M/S | ● | | | | | | | | | |
| | | | 6 m | M/S | ● | | | | | | | | | |
| | | | 9 m | M/S | ● | ● | | | | | | | | |
| | | | 12 m | M/S | ● | ● | ● | | | | | | | |
| 1.0 hp | Three-phase 400 V | 50 Hz 60 Hz | 15 m | M/S | ● | ● | ● | | | | | | | |
| | | | 18 m | M/S | ● | ● | ● | | | | | | | |
| | | | 21 m | M/S | ● | ● | ● | ● | | | | | | |
| | | | 24 m | M/S | ● | ● | ● | ● | | | | | | |
| | | | 27 m | M | ● | ● | ● | ● | ● | | | | | |
| 2.0 hp | Three-phase 400 V | 50 Hz 60 Hz | 30 m | M | ● | ● | ● | ● | ● | | | | | |
| | | | 33 m | M | ● | ● | ● | ● | ● | ● | | | | |
| | | | 36 m | M | ● | ● | ● | ● | ● | ● | ● | | | |
| | | | 39 m | M | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | | 42 m | M | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

| Motor | Pump | | Length | Water feed Middle (M)/Side (S) | MPG elements with RCP | | | | | | | | |
|--------|----------------------|----------------|--------|-----------------------------------|-----------------------|---|---|---|--|--|--|--|--|
| | Voltage | Frequency | | | | | | | | | | | |
| 1.0 hp | Three-phase 400 V | 50 Hz 60 Hz | 3 m | M/S | ● | | | | | | | | |
| | | | 6 m | M/S | ● | | | | | | | | |
| | | | 9 m | M/S | ● | ● | | | | | | | |
| | | | 12 m | M/S | ● | ● | ● | | | | | | |
| 2.0 hp | Three-phase 400 V | 50 Hz 60 Hz | 15 m | M | ● | ● | ● | | | | | | |
| | | | 18 m | M | ● | ● | ● | | | | | | |
| | | | 21 m | M | ● | ● | ● | ● | | | | | |
| | | | 24 m | M | ● | ● | ● | ● | | | | | |

● Base element 6 m long, ● Middle element 6 m long, ● Middle element 3 m long, ● Base element 3 m long (single element)

- Wash rates: 60 l/min per m² top surface for CELdek, 120 l/min per m² top surface for RCP
- Max weight per unit length = 85 kg/m (+25% of the structural robustness for suspended installations)

Load capacity

| | MPG elements - 6 m long |
|------------------|-------------------------|
| 20' container | 192 m (32 boxes) |
| 40' container | 576 m (96 boxes) |
| 40' HC container | 720 m (120 boxes) |

The load capacities shown are approximate and valid only for 6-meter long elements. Please contact your sales representative for actual values.

