Dear Sir/Madam,

Thank you for downloading the documentation regarding our **Dynamicroll Frigo 2** high-speed door, the comprehensive solution for the outer shell of your cold room. We would like to briefly inform you about the door and let you know that we are available for any modifications to the specifications, should they be necessary to meet your needs.

The Dynamicroll Frigo 2 is designed to be used within the outer shell of a cold room, where both positive and negative temperatures occur. This door prevents ice formation on the fabric thanks to a double sheet with a spacing of 200 mm, through which warm air circulates. Additionally, the door is self-repairing and equipped with a flexible bottom bar, ensuring excellent performance in terms of air permeability, thermal insulation, and durability. This translates to a very low total cost of ownership.

The door is equipped with a photoelectric sensor and an anti-pinch safety device, and the curtain is available in sixteen colors. The electrical panel is provided with a control button, an emergency button, and a main switch, and a closing button for the opposite side is also provided.

The text of the specifications included describes a door for standard cold rooms, but numerous options are available. For further information, please refer to the options sheet included. Feel free to contact us for a customized specification that meets your specific requirements

Best Regards,
BMP HIGH SPEED DOORS

The team

BMP EUROPE HIGH SPEED DOORS
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Standards and Classifications

Applicable Regulations and Essential Characteristics:
- EN 13241 Standard
- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU

Water tightness class 1 compliant with EN 12425, tested according to EN 12489.

Wind load resistance up to class 4 compliant with EN 12424, tested according to EN 12444.

Thermal transmittance coefficient U = 2.2 W/m².K, according to EN 12428.

Air permeability class 1 compliant with EN 12426, tested according to EN 12427.

Safety of vertical moving opening compliant with EN 12453, tested according to EN 12445.

Mechanical aspects - Requirements and test methods compliant with EN 12604, tested according to EN 12605.

Mechanical operational reliability according to EN 12604: 1,000,000 cycles, tested according to EN 12605.

30.63.11 FLEXIBLE DOOR.
Manufacturer: BMP HIGH SPEED DOORS.
Type: Dynamicroll Frigo 2 high-speed roll-up door
Location: Internal door, outer shell of the cold room.

- Opening speed: adjustable, maximum 1.8 m/s..
- Closing speed: adjustable, 0.8 m/s.
- Resistant to overpressure and vacuum.
- Door width (mm): as indicated in the design drawings.
- Door height (mm): as indicated in the design drawings.

Door Leaf
- Two PVC curtains, opaque, 900 grams/m2 in RAL .... (see options sheet);
- Internal space of 200 mm.

Windows
- No windows.

Door Frame
- Galvanized base frame;
- Cover caps on the rollers, motor, blower, and uprights, galvanized.

Guides
- Hardened polyethylene, PEHD 500;
- Self-lubricating (do not contain lubricants).

Motor Shaft
- 2 shafts, aluminum.

Anti-crash
- Flexible and soft bottom bar;
- Hinge attachment;
- Reintroduction grooves in the guides.

Operation
- Automatic opening, electrically operated;
- Automatic closing, gravity.

Operability
- Via 1 button on the control box, plus 1 emergency button (on the opposite side).

Safety
- Photocells, crossing the door frame;
- Winding sensor.

Guide
- Electric motor with adjustable frequency and reducer, specific for this type of door, speed, and dimensions;;
- Chain transmission;
- Gradual start and stop.

Control
- Powder-coated steel control box, RAL 7016, IP54;
- Frequency regulator;
- Thermal protection;
- Main switch;
- Emergency stop;
- Adjustable time setting before automatic closing;
- Interlock function between two doors.

Accessories
- Blower (air circulation in the internal space);
- Heating element;
- Wiring;
- Absolute encoder;
- Emergency manual crank operation.

Wind resistance
- < L 2850 mm x H 2850 mm class 4, EN 12424

Air permeability
- Class 1, EN 12426..

Expected service life
- 1,000,000 cycles, EN 12604.

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Options Sheet

If you wish to implement any options, please contact us to obtain a customized technical data sheet:

Contact | BMP HIGH SPEED DOORS

Possible door colors, at no additional cost, approximate:

- RAL 1003 (signal yellow)
- RAL 1015 (light ivory)
- RAL 2004 (pure orange)
- RAL 3002 (ermine red)
- RAL 5002 (ultramarine blue)
- RAL 5010 (gentian blue)
- RAL 5012 (light blue)
- RAL 6018 (yellow green)
- RAL 6026 (opal green)
- RAL 7016 (anthracite grey)
- RAL 7035 (light grey)
- RAL 7037 (dust grey)
- RAL 7042 (traffic grey A)
- RAL 8017 (chocolate brown)
- RAL 9005 (jet black)
- RAL 9010 (pure white)

Air permeability:
- Class 4, EN 12426.

Controls:
- Stainless steel 304 control box, IP66;

Control components:
- Via radar impulse, BEA Falcon type, bidirectional or unidirectional..
- Via radar impulse, BEA Condor type (with stop detection), bidirectional or unidirectional.
- Tramite interruttore a cavo, incluso cavo da 4 metri, bidirezionale o monodirezionale.
- Via Tof-spot radar (range 6m), bidirectional or unidirectional.
- Single-channel transmitter, button type, including remote control receiver..
- Trasmettitore manuale bidirezionale a 2 canali, incluso ricevitore per telecomando.
- Four-channel manual bidirectional transmitter, including remote control receiver.

Frame:
- Galvanized base frame, coverings coated in a non-standard RAL color: RAL .....
- Base frame and coverings coated in a non-standard RAL color: RAL ....
- Stainless steel 441, including covers on the rollers, motor, and uprights..
- Stainless steel 304, including covers on the rollers, motor, and uprights.
- Stainless steel 316, including covers on the rollers, motor, and uprights.

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Safety components:
- Safety light curtain in the door uprights with anti-unwinding protection..

Other stainless steel components:
- Roller shaft, stainless steel 304.
- Brake, stainless steel 304.

Emergency control:
- Emergency control via UPS, including batteries.

Heating elements
(used in environments with continuous temperature below 0 °C):
- Heating tape near the motor.

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