



HIGH
SPEED
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation for our **Dynamicroll Frigo 1**: the complete high-speed door for the outer shell of the slightly cooled cold room. In this accompanying letter, we would like to briefly inform you about the door. More importantly, we want to convey that you can contact us for a custom specification if the standard one does not meet your requirements.

The Dynamicroll Frigo 1 door is suitable for internal application thanks to the 18mm insulating curtain, in the outer shell of a freezer where the temperature does not drop below -5°C . Thus, in places where positive and negative temperatures are encountered.

Furthermore, it is fully self-sanitizing and equipped with a flexible bottom bar. Hence, there are no rigid parts in the door panel, greatly enhancing safety. Performance in terms of wind resistance, air permeability, thermal insulation, and durability is high.

This results in a very low total cost of ownership for this door.

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

The attached specification text describes a standard door for cold rooms and/or freezers. Of course, many options are available. For these, please refer to the attached options sheet. Please contact us for a custom specification.

Best regards,
BMP HIGH SPEED DOORS

The team

All our deliveries/services are subject to the General Sales Conditions. The General Conditions have been filed with the Chamber of Commerce and are available at our office upon request.



Standards and Classifications

Applicable regulations and essential characteristics:

- EN 13241 Standard
- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EC
- Low Voltage Directive 2014/35/EC

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

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

Thermal transmittance coefficient $U = W/m^2.K$: 2.2, according to EN 12428 standard.

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

Safety during vertical movement opening compliant with EN 12453 standard, tested according to EN 12445 standard.

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

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



30.63.11 FLEXIBLE DOOR.

0. FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll Frigo 1 High-Speed Roll-up Door.

Position: Internal door.

High-speed roll-up door with 18 mm insulated PVC curtain for application in the shell of cold rooms and freezers up to -5°C.

- Opening Speed: Adjustable, maximum 1.0 m/s.
- Closing Speed: Adjustable, 0.6 m/s.
- Resistant to overpressure and underpressure.
- Width (mm): As indicated in the specification drawings.
- Height (mm): As indicated in the specification drawings.

Door Leaf

- PVC curtain, extra thick insulated with 18 mm, $U = 2.2 \text{ W/m}^2\text{K}$, in RAL ... (see options sheet).

Windows

- No windows.

Door Frame

- Galvanized base frame;
- Covers above the roll, motor, and columns, standard galvanized or coated in RAL 9010.

Guides

- Cross-linked polyethylene, PEHD 500;
- Self-lubricating (no lubricant).

Roll-up Shaft

- Aluminum.

Anti-crash

- Flexible and soft bottom bar;
- Zip attachment;
- Reintroduction slots in the guides.

Operation

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

Control

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

Safety

- Photocells, integrated in the door posts and crossing the curtain;
- Overload sensor;
- Anti-pinch safety device.
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**Motor**

- Variable frequency electric motor with reducer, specifically designed for this type of door, speed, and dimensions;
- Progressive start and stop.

Control

- Powder-coated steel control box, RAL 7016, IP54;
- Frequency regulator;
- Main switch;
- Emergency stop;
- Adjustment of time before automatic closing;
- Interlock function between two doors.

Accessories

- Wiring;
- Absolute encoder;
- Emergency control via crank.

Wind resistance

- < L 2800 mm x H 2800 mm class 4, EN 12424;

Air permeability

- Class 1, EN 12426.

Expected lifespan

- 1,000,000 cycles, EN 12604.



Options Sheet

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

[Contact | BMP HIGH SPEED DOORS](#)

Possible door colors, at no additional cost, approximate:

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

Control:

- PVC control box, IP65;
- Stainless steel 304 control box, IP66;

Control Components:

- Via radar impulse, BEA Falcon type, bi-directional or uni-directional.
- Via radar impulse, BEA Condor type (with stop detection), bi-directional or uni-directional.
- Via pull switch, including 4-meter cable, bi-directional or uni-directional.
- Via spot TOF radar, (6m range), bi-directional or uni-directional.
- 1-channel transmitter, button type, including remote control receiver.
- 2-channel transmitter, including remote control receiver.
- 4-channel transmitter, including remote control receiver.

Safety Components:

- Safety light curtain, integrated in the door posts and crossing the curtain.
- Safety light curtain, integrated in the door posts and crossing the curtain, in combination with anti-pinch safety device.

Frame:

- Galvanized base frame, covers coated in a non-standard RAL color: RAL
- Base frame and covers coated in a non-standard RAL color: RAL
- Stainless steel 441, including covers above the roll, motor, and posts.
- Stainless steel 304, including covers above the roll, motor, and posts.
- Stainless steel 316, including covers above the roll, motor, and posts.



Additional Stainless Steel Components:

- Roll-up shaft, stainless steel 304.
- Brake, stainless steel 304.

Emergency Control:

- Emergency control via UPS including batteries.

Heating Elements

(applicable in a continuous environment with temperature below 0°C):

- Heating tape near the motor. Heating tape in the guides.