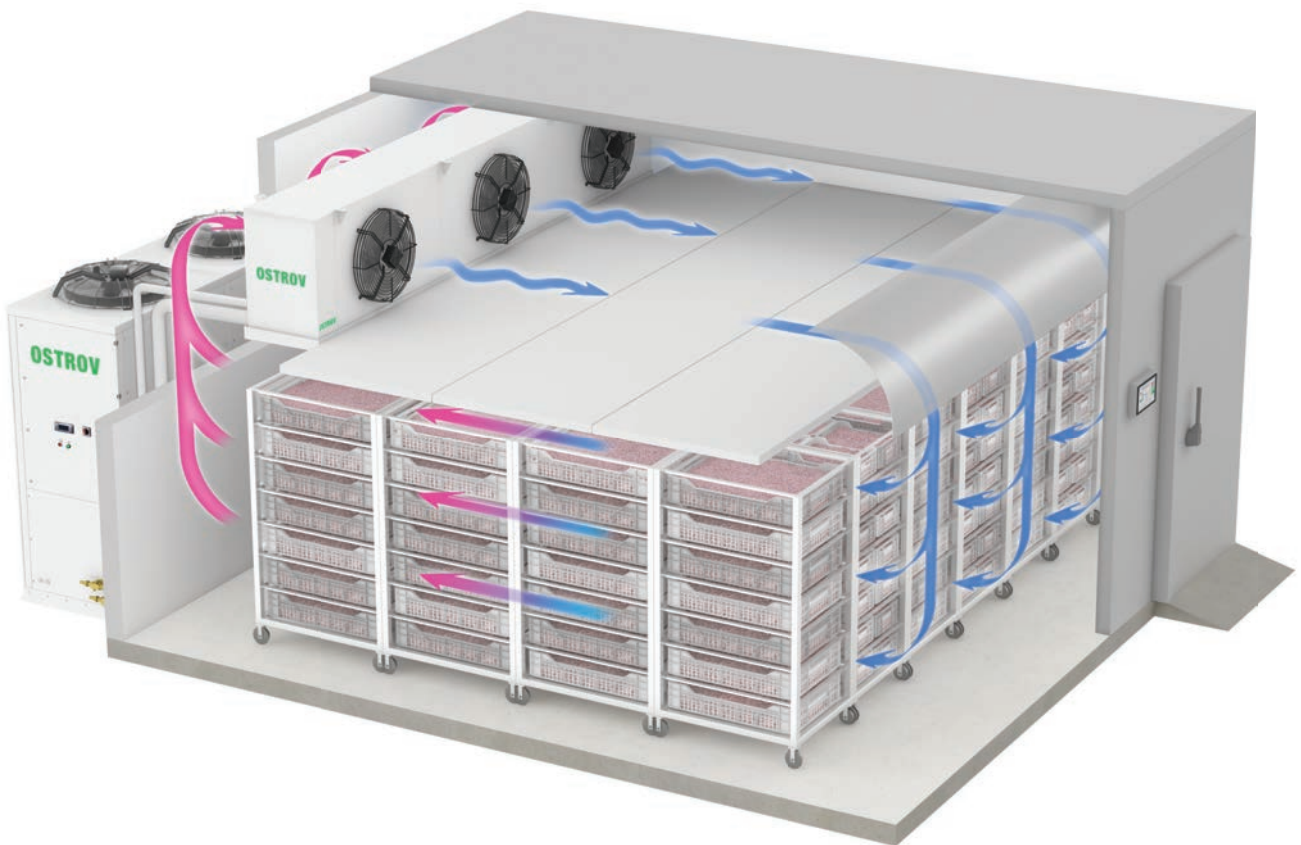


OSTROV

refrigeration

BLAST FREEZING ROOMS





Berries



Poultry



Prepared foods



Fruits & vegetables



Meat



Baked goods



Mushrooms



Fish



Seafood

Complete solution



Quick assembly freezing room



Low temperature refrigeration system

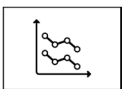


Control system with integrated software

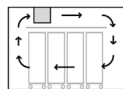


Installation & operation manuals

Advantages



Optimal freezing conditions



Effective air distribution



Energy efficient and environmentally friendly



Optimized internal volume



Suitable for use of trolleys / pallets



Easy and quick installation

Quality



Ostrov production is certified according to EN ISO 9001:2009



Compliance with EU directives



Compliance with Customs Union directives

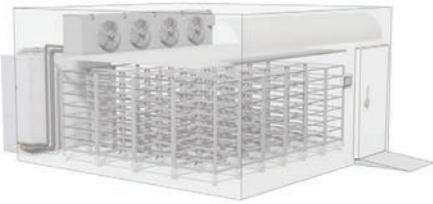
| PARAMETERS | | BFR-12 | | BFR-16 | | BFR-20 | | BFR-24 | |
|--|-------------------|------------------------------|-------|-----------------------------|-------|-----------------------------|-------|-----------------------------|-------|
| Maximum load | kg | 3000 | | 4000 | | 5000 | | 6000 | |
| Design temperature in freezing room | °C | -30 | | | | | | | |
| Design ambient temperature | °C | +32 | | | | | | | |
| Refrigerant | — | R404A | R449A | R404A | R449A | R404A | R449A | R404A | R449A |
| Cooling capacity | kW | 10.4 | 9.3 | 13.3 | 12.3 | 19.7 | 18.2 | 26.5 | 25.0 |
| Power consumption | kW | 9.9 | 8.5 | 14.1 | 12.7 | 20.3 | 18.4 | 30.3 | 27.1 |
| Power supply | — | ~3 – 400V – 50Hz | | | | | | | |
| Maximum operating current | A | 36.5 | | 48.7 | | 66.4 | | 98.8 | |
| Refrigerant charging ⁽¹⁾ | kg | 18 | 18.8 | 21.4 | 22.4 | 33.9 | 35.3 | 40.0 | 41.9 |
| FREEZING ROOM | | ISO 120-25 | | ISO 120-35 | | ISO 120-45 | | ISO 120-55 | |
| Overall dimensions (L x D x H) | mm | 2400 x 5100 x 2800 | | 3000 x 5100 x 2800 | | 3900 x 5100 x 2800 | | 4800 x 5100 x 2800 | |
| Number of trolleys | pcs | 12 | | 16 | | 20 | | 24 | |
| Internal volume | m ³ | 26.9 | | 34.3 | | 45.5 | | 56.7 | |
| Door opening (W x H) | mm | 1000 x 1900 | | | | | | | |
| Door | — | Hinged, right | | | | | | | |
| Suspended ceiling level | mm | 1700 | | | | | | | |
| Loading ramp (L x D x H) | mm | 1000 x 1200 x 120 | | | | | | | |
| Trolley (L x D x H) | mm | 650 x 850 x 1600 | | | | | | | |
| Maximum trolley loading | kg | 250 | | | | | | | |
| Lighting | kW | 0.10 | | | | | | | |
| Door's perimeter electrical heating | kW | 0.12 | | | | | | | |
| Pressure compensation valve electrical heating | kW | 0.02 | | | | | | | |
| Thermal insulation of ceiling, walls, floor ⁽²⁾ | mm | 120 polyurethane | | | | | | | |
| Thermal insulation of door | mm | 120 polyurethane | | | | | | | |
| Suspended ceiling | mm | 60 polyurethane | | | | | | | |
| Wall / ceiling sandwich panels | — | galvanized steel 0.7 mm | | | | | | | |
| Sandwich panels color | — | RAL9010 | | | | | | | |
| Floor surface in freezing room | — | corrugated aluminum sheet | | | | | | | |
| Net weight | kg | 1600 | | 1900 | | 2200 | | 2500 | |
| CONDENSING UNIT | | 0A153-LS-E149-BFR | | 0A153-LS-E233-BFR | | 0A153-LS-E338-BFR | | 0A153-LS-E439-BFR | |
| Compressor type | — | semi-hermetic reciprocating | | | | | | | |
| Capacity control | — | frequency inverter 35...100% | | | | | | | |
| Compressor starting current | A | 42.6 | | 58.7 | | 84.5 | | 133.1 | |
| Refrigerant | — | R404A | R449A | R404A | R449A | R404A | R449A | R404A | R449A |
| Power consumption | kW | 9.0 | 7.5 | 12.7 | 11.2 | 18.2 | 16.3 | 27.5 | 24.2 |
| Fans | — | EC | | | | | | | |
| Number and diameter of fans | N x mm | 2 x 500 | | 2 x 500 | | 2 x 630 | | 2 x 630 | |
| Fans air flow | m ³ /h | 12700 | | 12700 | | 19600 | | 19600 | |
| Sound pressure level ⁽³⁾ | dB(A) | 56 | | 54 | | 59 | | 63 | |
| Overall dimensions (L x D x H) | mm | 1750 x 610 x 1700 | | 1750 x 610 x 1700 | | 2225 x 795 x 2090 | | 2225 x 795 x 2090 | |
| Net weight | kg | 456 | | 507 | | 704 | | 743 | |
| UNIT COOLER | | 0H201-245S1-G100-BFR | | 0H201-250S1-G100-BFR | | 0H201-350S1-G100-BFR | | 0H201-450S1-G100-BFR | |
| Fin spacing | mm | 10.0 | | 10.0 | | 10.0 | | 10.0 | |
| Fans | — | AC, 4P | | | | | | | |
| Number and diameter of fans | N x mm | 2 x 450 | | 2 x 500 | | 3 x 500 | | 4 x 500 | |
| Fans power consumption | N x kW | 2 x 0.5 | | 2 x 0.7 | | 3 x 0.7 | | 4 x 0.7 | |
| Air flow | m ³ /h | 9900 | | 13800 | | 20700 | | 27500 | |
| Air throw | m | 27 | | 35 | | 37 | | 38 | |
| Sound pressure level ⁽³⁾ | dB(A) | 57 | | 57 | | 58 | | 59 | |
| Internal volume | l | 15.9 | | 22.9 | | 34.6 | | 45.5 | |
| Electrical defrost of coils | kW | 9.3 | | 12.8 | | 19.2 | | 28.0 | |
| Electrical defrost of drip tray | kW | 1.2 | | 1.6 | | 2.4 | | 2.8 | |
| Fan ring heaters | kW | 0.6 | | 0.8 | | 1.2 | | 1.6 | |
| Drain line heater | kW/m | 0.05 | | 0.05 | | 0.05 | | 0.05 | |
| Drain | inch | 1 1/4 | | 1 1/4 | | 1 1/4 | | 1 1/4 | |
| Overall dimensions (L x D x H) | mm | 1730 x 615 x 790 | | 2130 x 625 x 840 | | 2980 x 625 x 840 | | 3830 x 625 x 840 | |
| Net weight | kg | 101 | | 117 | | 173 | | 222 | |

(1) Refrigerant charging for pipeline lengths of not more than 10 m

(2) Thermal conductivity coefficient 0.022 W/m*K

(3) Sound pressure level in accordance with EN13487

Overall dimensions



| | Freezing room | Length | Depth | Height |
|---------------|---------------|--------|-------|--------|
| BFR-12 | ISO 120-25 | 2400 | 5100 | 2800 |
| BFR-16 | ISO 120-35 | 3000 | 5100 | 2800 |
| BFR-20 | ISO 120-45 | 3900 | 5100 | 2800 |
| BFR-24 | ISO 120-55 | 4800 | 5100 | 2800 |

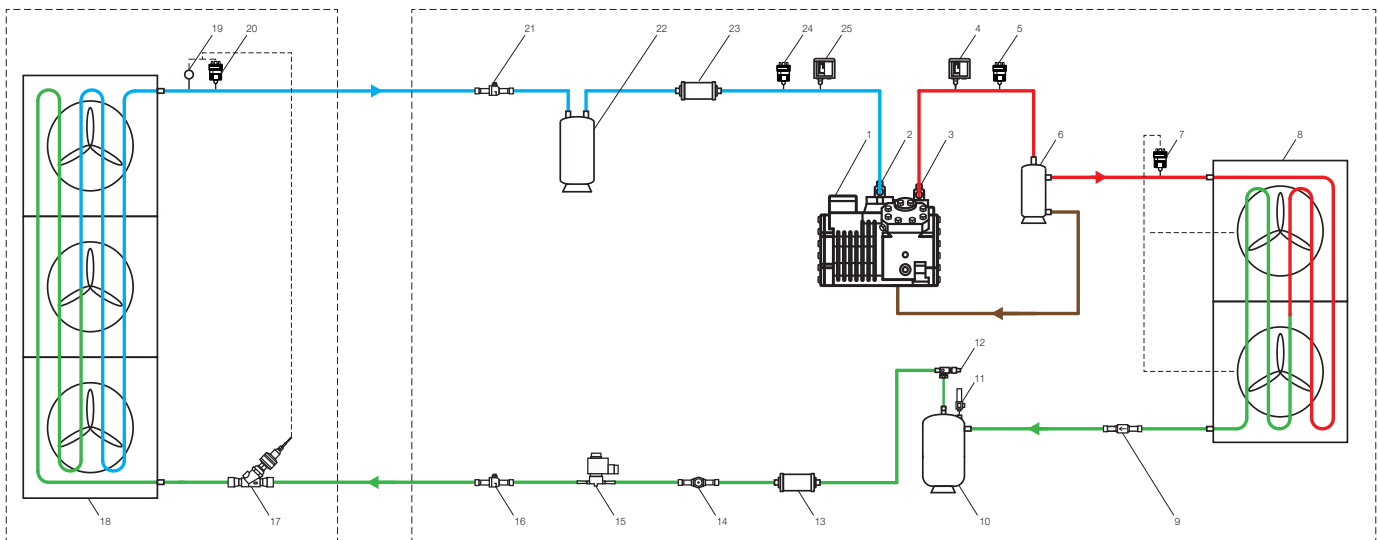


| | Condensing unit | Length | Depth | Height |
|---------------|-------------------|--------|-------|--------|
| BFR-12 | OA153-LS-E149-BFR | 1750 | 610 | 1700 |
| BFR-16 | OA153-LS-E233-BFR | 1750 | 610 | 1700 |
| BFR-20 | OA153-LS-E338-BFR | 2225 | 795 | 2090 |
| BFR-24 | OA153-LS-E439-BFR | 2225 | 795 | 2090 |



| | Unit cooler | Length | Depth | Height |
|---------------|-----------------------|--------|-------|--------|
| BFR-12 | OH201-245S1A-G100-BFR | 1730 | 615 | 790 |
| BFR-16 | OH201-250S1A-G100-BFR | 2130 | 625 | 840 |
| BFR-20 | OH201-350S1A-G100-BFR | 2980 | 625 | 840 |
| BFR-24 | OH201-450S1A-G100-BFR | 3830 | 625 | 840 |

Piping and instrumentation diagram



- 1 Compressor
- 2 Suction line shut-off valve
- 3 Liquid line shut-off valve
- 4 High pressure switch
- 5, 7 High pressure sensor
- 6 Oil separator
- 8 Air cooled condenser
- 9 Check valve
- 10 Refrigerant receiver
- 11 Safety valve
- 12 Receiver outlet shut-off valve
- 13 Filter drier
- 14 Sight glass with moisture indicator
- 15 Solenoid valve
- 16, 21 Shut-off valve
- 17 Electronic expansion valve
- 18 Unit cooler
- 19 Temperature sensor
- 20, 24 Low pressure sensor
- 22 Liquid separator
- 23 Suction line filter
- 25 Low pressure switch

| EQUIPMENT | Price, EUR without VAT | | | | | | | |
|---|------------------------|------------|------------|------------|--|--|--|--|
| | BFR-12 | BFR-16 | BFR-20 | BFR-24 | | | | |
| FREEZING ROOM | | | | | | | | |
| Quickly assembled cell with cam locks | 12680 | 13520 | 16080 | 18400 | | | | |
| Hinged right door with lever-type locking handle | | | | | | | | |
| Door's perimeter electrical heating | | | | | | | | |
| Suspended ceiling (polyurethane sandwich panels) | | | | | | | | |
| Air flow deflector | | | | | | | | |
| Pressure compensation valve with electrical heating | | | | | | | | |
| Lighting system | | | | | | | | |
| Ceiling frame for unit cooler fixing | | | | | | | | |
| Loading ramp (corrugated aluminum sheet) | | | | | | | | |
| Mounting kit | | | | | | | | |
| OPTIONS | | | | | | | | |
| Stainless steel sheet floor surface, 1.5 mm thickness, "standard" version | 1680 | 2100 | 2730 | 3360 | | | | |
| Stainless steel sheet floor surface, 2.0 mm thickness, "bath" version | 3480 | 4120 | 5160 | 6170 | | | | |
| REFRIGERATION SYSTEM | | | | | | | | |
| CONDENSING UNIT | | | | | | | | |
| Ergonomic, durable housing made of powder-coated galvanized steel | 15220 | 16490 | 22540 | 28240 | | | | |
| Additional sound insulation of the compressor compartment | | | | | | | | |
| Compressor with frequency inverter | | | | | | | | |
| Control and protection devices | | | | | | | | |
| Suction line filter | | | | | | | | |
| Liquid separator | | | | | | | | |
| Oil separator | | | | | | | | |
| Air cooled condenser | | | | | | | | |
| Refrigerant receiver | | | | | | | | |
| Liquid line with filter-drier and sight glass | | | | | | | | |
| Winter package | | | | | | | | |
| UNIT COOLER | | | | | | | | |
| Durable aluminium casing with mounting brackets in stainless steel and easily removable side panels | | | | | | | | |
| Cooling coil with optimized geometry and extended heat exchanging surface | | | | | | | | |
| AC fans | | | | | | | | |
| Fans ring heaters | | | | | | | | |
| Electrical defrost of coils and drip tray | | | | | | | | |
| Insulated drip tray | | | | | | | | |
| Drain line heater | | | | | | | | |
| Solenoid valve | | | | | | | | |
| Electronic expansion valve | | | | | | | | |
| CONTROL SYSTEM | | | | | | | | |
| Touch screen panel | | | | | | | | |
| OPTIONS | | | | | | | | |
| Refrigerant R449A. Liquid injection system | 910 | 940 | 940 | 1160 | | | | |
| Mounting kit. ⁽¹⁾ Pipes, fittings, cables | 1240 | 1400 | 1740 | 1990 | | | | |
| TECHNOLOGICAL EQUIPMENT SET | | | | | | | | |
| Trolleys, boxes | on request | on request | on request | on request | | | | |

(1) Mounting kit cost for pipelines with a length of not more than 10 m.

Documentation

Welcome to our website ostrov.com



Data sheets



Drawings



Installation and operation manuals

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