VESTFROST SOLUTIONS

Biomedical

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Pharmacy Refrigerator

The pharmacy refrigerator ensures reliable storage of medicine. The Model is equipped with external digital temperature display and fully electronic temperature control that ensures a correct set temperature between +2°C to +20°C. It features; Open door, high/low alarm, contact for remote alarm, porthole for external monitoring systems, dual ventilators for optimal uniformity in temperatures and for the Extra hardware version power failure alarm.

- **Energy Effecient**
- **Very Low Noise**
- **Stable and Uniform Temperature**
- **ETR-system™**

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Construction	Value
Dimension	1550x595x638 mm
Dimension inner	1287x518x460 mm
Weight	82 / 80 gross/net
Package weight	2 kg
Material inner cabinet	PVC Kg. gross/net
Material outer cabinet	Painted steel Kg. gross/net
Insulation type	Polyurethane with cyclopentane
Insulation thickness	35 mm
Type of packaging	Plastic with EPS
Mobility	2 x Feet 2 x Rollers

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Storage	Value
Volume	306 / 281
Shelves	4
Half shelf	1

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Features	Value
Safety thermostat	Optional
Lock	✓
LED light	✓
Battery backup	Optional
Porthole	✓
Porthole size	14,8 mm
Dry contact	✓
Reference bottle	✓
Door closure	–
Door reversibility	✓
Automatic hold 90°	–

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Alarms	Value
High / Low temperature	✓
Open door	✓
Power failure	—
Probe failure	✓

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Test	Value
Voltage	220-240 V
Frequence	50 Hz
Max ambient	32 °C
Max Humidity	65 %
Test condition	20

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Operation	Value
Unifromity in performance	1,3 / -1,5 °C
Pull dowm time (from test condition to fabric setpoint)	48 Minutes
Hold over time (from fabric SP to 10) empty	70 Minutes
Noise	41 dB
Energy 24 hours	0,5 kWh/24h
Instant Power Consumption	N/A kW
Heat Rejection	N/A W
K-Value	N/A W/m^2k

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Cooling components	Value
Refrigerant/amount	R600a / 50g Type & gram
Number of compressors	1
Internal air distribution (Type)	Dynamic
Number of probes	5
Defrost	✓

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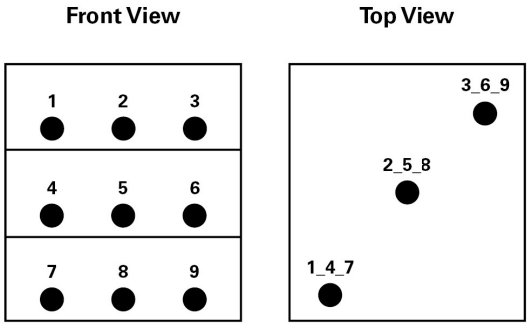
Controller	Value
Controller	Dixell
Controller type	XW737K
USB Connection	Yes
Data connection	MODBUS
Controller abilities	Logging of data & alarms
Controller languages	Digits
Log numbers	35000
Temperature graph in controller	—

Temperature mapping

Test overview	
Test type	9-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensors used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

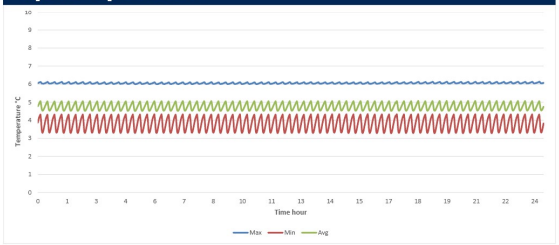
Sensor position



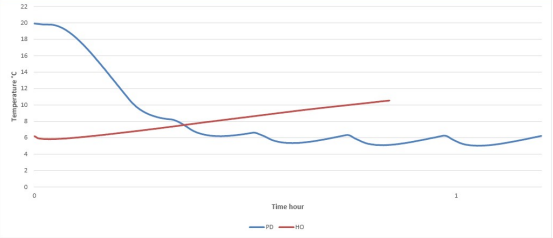
Sensor temperature

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9
Max.	6,1	5,3	5,7	4,8	4,4	4,3	5,3	4,7	5
Avg.	6,1	5,2	5,4	4,5	3,8	3,9	5	4,4	4,6
Min.	6	5,1	5,2	4,3	3,3	3,5	4,8	4,1	4,3

Cyclic operation



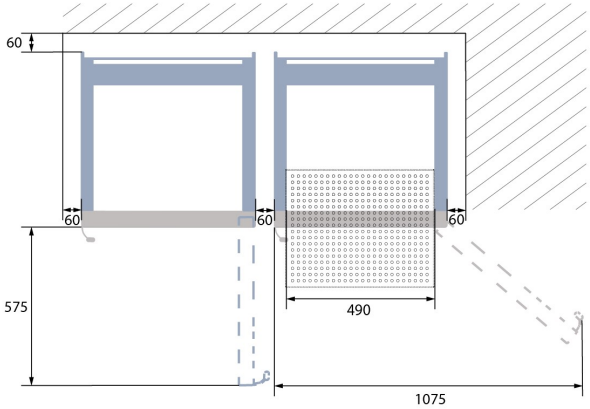
Warm up & Pull down



Typical Performance data

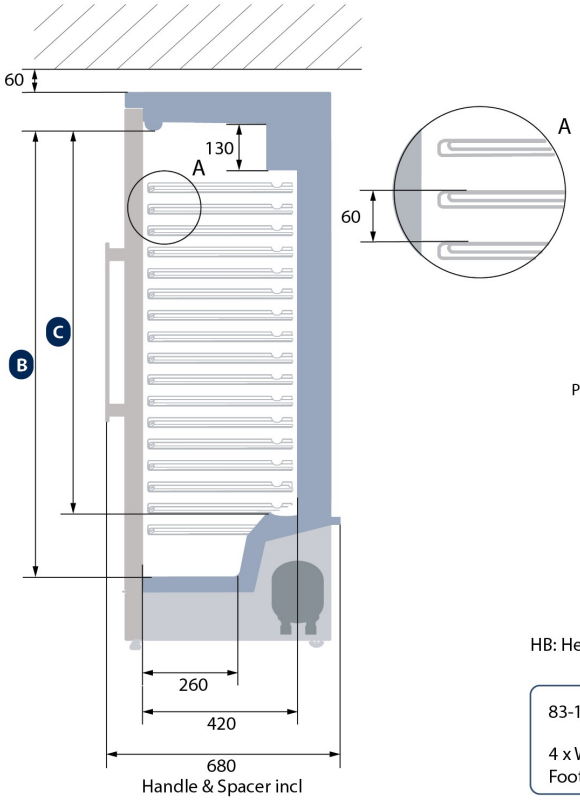
Avg. cabinet temperature	4,8°C
Peak variation from set-point	+1,3/-1,5°C
Stability in avg.	1,7°C
1 min. door open recovery to 6°C avg. temperature	12 min.
Cycle rate on/off	3,1/17 min.
Duty cycle	15,4%
Energy consumption	0,56 kWh/day
Pull down time to 6°C avg. temperature	48 min.
Hold over time from 5°C to 10°C	70 min.
Sample temperature does not exceed	8°C

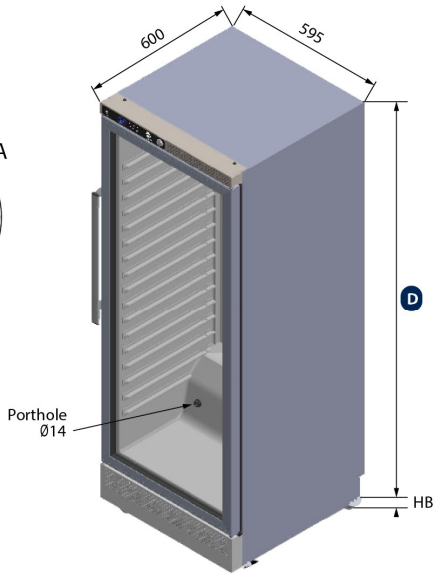
Dimensions



Model	B	C	D
AKS 337	1260	965	1535
AKS 397	1570	1175	1835

All measurements are in milimeters





HB: Height of base (HB is ajustastable when given value is xx-xxx)

83-101
4 x Wheel with Footmaster

20-58
Front:
2 x Ajustable foot

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Back:
2 x Castor

Version 1.03