



Datasheet

Controller

Defrost	Automatic
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Option
USB Connection	Yes
Datalogging	Yes

Features

Lock	Yes
LED Light	Yes
Safety Thermostat	Option
Battery Backup for Controller, 48h	Option
Porthole	Yes
Dry Contact	Yes
Door	Standard: Solid Option: Glass
Door Features	Automatic Closure
Door Reversibility	Yes

Construction

Outer Dimensions, HxWxD	1919x595x638
Inner Dimensions, HxWxD	1587x518x460
Volume Gross/net, L	381 / 351
Weight Gross/Net, kg	101 / 99
Material Inner Cabinet	PVC
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	35
Insulation Type	Polyurethane with Cyclopentane
Refrigerant	R600a
Air Distribution	Forced Air
Mobility	Standard: Adjustable Feet Option: Castors

+20°C
+2°C



AKS 397

Biomedical Refrigerator



LOW NOISE



ENVIRONMENT
FRIENDLY



USER
FRIENDLY

Operation

Temperature Range, C°	+2 to +20
Noise, dB	41
Energy Consumption 24/h, kWh	Solid: 0,7
Frequency, Hz	50
Power Supply, V	220 / 240
Instant Power Consumption	N/A
K-Value	N/A
Heat Rejection	N/A

Storage

BioChill™ Shelves (Standard/max)	5 / 21
Half shelf (Standard/max)	1 / 1
Shelf material	Aluminum
Max Loading pr. Shelf, kg	20
BioChill™ Drawers Max. Fit	1
Drawer Material	Aluminum
Max Loading pr. Drawer, kg	18



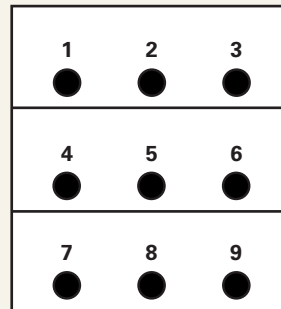
Temperature Mapping

Test overview

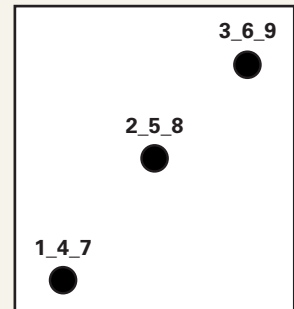
Test type	9-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensors used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

Sensor position

Front View



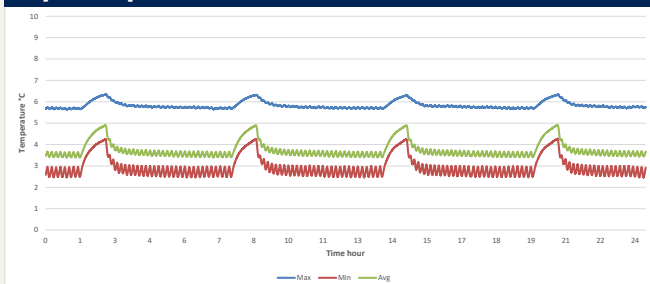
Top View



Sensor temperature

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

Cyclic operation



Warm up & Pull down

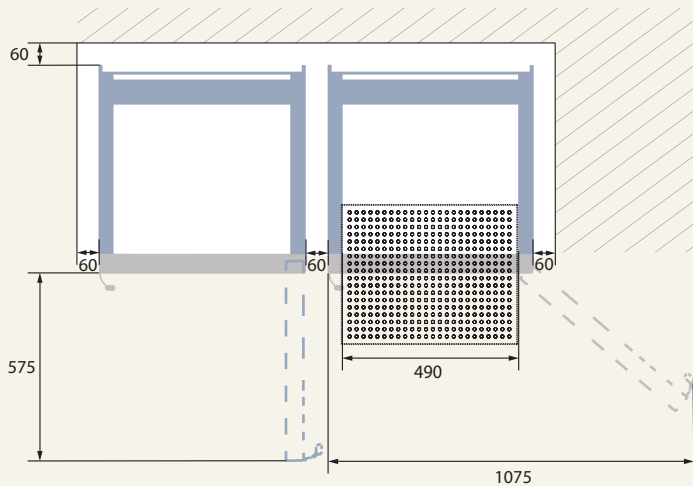


Typical Performance data

Avg. cabinet temperature	3,8°C
Peak variation from set-point	+2,5/-1,2°C
Stability in avg.	2,7°C
1 min. door open recovery to 6°C avg. temperature	15 min.
Cycle rate on/off	2,6/9,4 min.
Duty cycle	21,6%
Energy consumption	0,73 kWh/day
Pull down time to 6°C avg. temperature	50 min.
Hold over time from 5°C to 10°C	72 min.
Sample temperature does not exceed	8°C

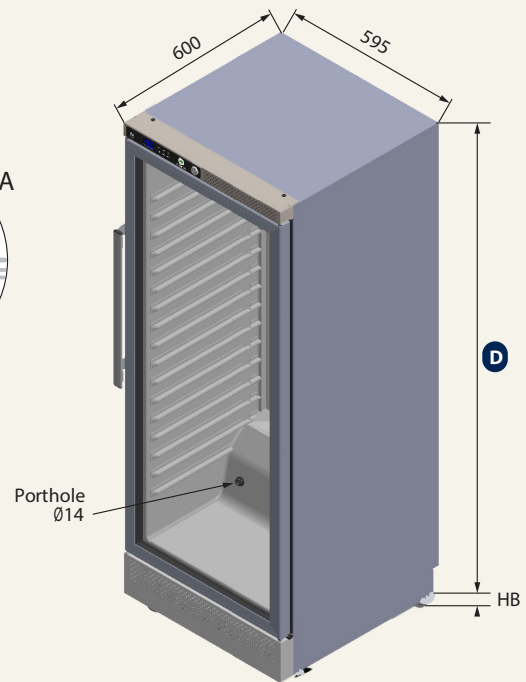
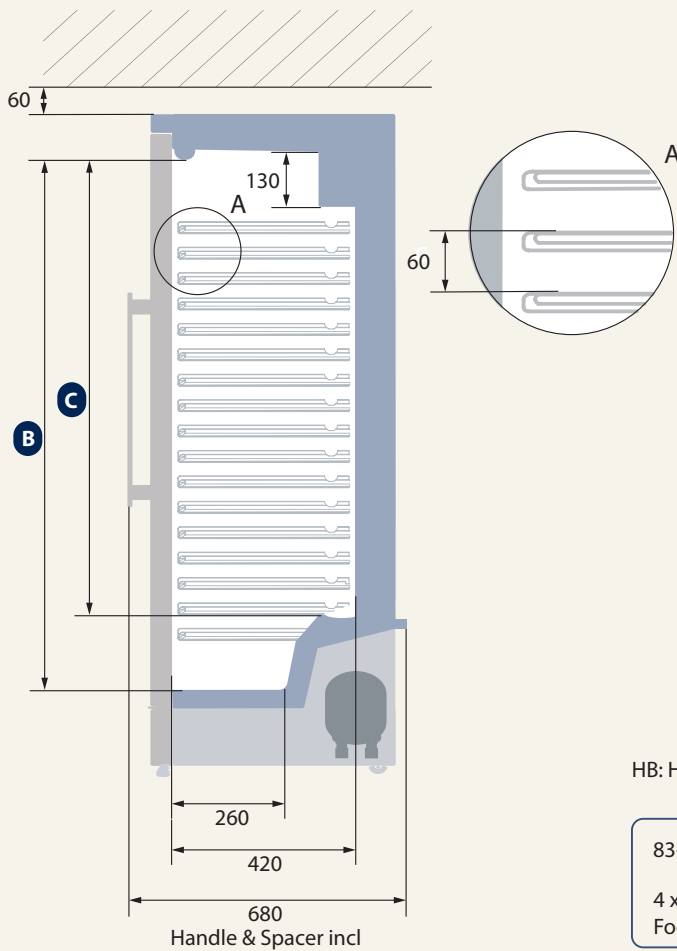


Dimensions



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

All measurements are in millimeters



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

13

Back:
2 x Castor

DIN 58345: 2007

We, Vestfrost Solutions A/S declare under sole responsibility that the following products:

Product category:

Pharmacy Refrigerator

Model no.:

337, 397

Is in compliance with DIN 58345.

DIN stands for "Deutsches Institut für Normung" (German Institute for Standardization). The Institute's specialist bodies define industry standards. DIN 58345 relates to pharmaceutical refrigerators that are used to store pharmaceuticals at an operating temperature of 2°C to 8°C. DIN 58345 currently reflects the latest technological refrigerators.

Basic requirements established by DIN 58345:

- Operating temperature: +2°C to +8°C
- Usable in ambient temperature: +10°C to +35°C
- Noise emissions: < 60dB(A)
- Visual and acoustic warning system for high and low temperatures
- Dry contact for external alarm systems
- Warning system active from min. 12 h in the event of a power cut
- Safety thermostat for preventing temperatures below +2°C
- Load bearing capacity at least 100 kg/m²
- Lockable door

	10.04.2019
SIGNATURE	DATE

AUTHORITY:
TAJ BERNTH, COO
A/S VESTFROST

8181XXX rev 01

VESTFROST
SOLUTIONS

Anexa 24. Frigider reactivi 400-600L

Vestfrost AKG 397

Parametri ceruti	Parametri oferiti
Frigider pentru reactivi cu usa transparenta 400-600L Descriere Frigidere proiectate pentru a stoca produse de laborator, culturi și probe la temperaturi de obicei între 2 și 8 grade Celsius. Aceste frigider constau în mod obișnuit dintr-o cameră cu un interior rezistent la coroziune (oțel inoxidabil de obicei), minimizarea riscului de alterare, contaminare și / sau coroziune a conținutului. Parametrul Specificația Configurație mobil Capacitatea 400-600L da Număr de rafturi ≥ 4 Ușa Număr 1 - 2 Transparentă da Mecanism blocare cu cheie Roți da Frîne da Lumină interior da Construcție interioară rezistent la soluții de curățare / prelucrare Construcție exterioară cu acoperire anticorozivă Afisaj temperatură digital Alarmer acustică vizuală Răcire ventilată Temperatura reglabilă 2 ... +8 °C Alimentare 220 V, 50 Hz Refrigerent R 600a Zgomot < 50 dB Accesorii coșuri tip sertar, da divizoare pentru sertar, da "înregistrare permanentă a temperaturii și generarea raportului în format PDF" da	Frigider pentru reactivi cu usa transparenta 400-600L Descriere Frigidere proiectate pentru a stoca produse de laborator, culturi și probe la temperaturi de obicei între 2 și 8 grade Celsius. Aceste frigider constau în mod obișnuit dintr-o cameră cu un interior rezistent la coroziune (oțel inoxidabil de obicei), minimizarea riscului de alterare, contaminare și / sau coroziune a conținutului. Parametrul Specificația Configurație mobil Capacitatea 381L da Număr de rafturi 5 Ușa Număr 1 Transparentă da Mecanism blocare cu cheie Roți da Frîne da Lumină interior da Construcție interioară rezistent la soluții de curățare / prelucrare Construcție exterioară cu acoperire anticorozivă Afisaj temperatură digital Alarmer acustică vizuală Răcire ventilată Temperatura reglabilă 2 ... +8 °C Alimentare 220 V, 50 Hz Refrigerent R 600a Zgomot 41 dB Accesorii coșuri tip sertar, da divizoare pentru sertar, da "înregistrare permanentă a temperaturii și generarea raportului în format PDF" da



CERTIFICATE

NÜVE SANAYİ MALZEMELERİ İMALAT VE TİCARET ANONİM ŞİRKETİ

SARACALAR MAHALLESİ SARACALAR KÜMEEVLERİ NO:4/2
AKYURT – ANKARA – TÜRKİYE

LABORATUVAR VE STERİLİZASYON CİHAZLARI TASARIMI,
ÜRETİMİ, SATIŞ VE SATIŞ SONRASI SERVİS HİZMETLERİ

kapsamında

ISO 9001:2015

Uluslararası kalite sistem standardına uygun
bir kalite yönetim sistem kurmuştur.

"Standardın aşağıda verilen maddeleri hariç tutulmuştur"

"Hariç tutma yoktur."

Sertifika No	: M 8215
İlk Belgelendirme Tarihi	: 28 Nisan 2010
Sertifika Tarihi	: 19 Şubat 2019
Son Geçerlilik Tarihi	: 18 Şubat 2022



Genel Müdür

Kiwa Belgelendirme Hizmetleri A.Ş.
ITOSB 9. Cadde No. 15 Tepeören Tuzla - İstanbul - Türkiye
Tel: + 90 216 593 25 75 Faks : + 90 216 593 25 74
Web: www.kiwa.com.tr E-mail: info@kiwa.com.tr

Sertifikalar periyodik ara denetimlerin başarılı ile tamamlanması kaydıyla geçerlidir.
Detaylı bilgi için yukarıdaki numaralara başvurulabilir.

Sertifika Son Güncelleme Tarihi : 19 Şubat 2019 - R 05



TÜRKAK BDS NO
YS-4AF4-45D4

NÜVE SANAYİ MALZEMELERİ İMALAT VE TİCARET ANONİM ŞİRKETİ

SARACALAR MAHALLESİ SARACALAR KÜMEEVLERİ NO:4/2
AKYURT – ANKARA – TURKEY

with a scope of

**DESIGN, MANUFACTURE, SALES AND AFTER SALES
SERVICES OF LABORATORY AND STERILIZATION EQUIPMENTS**

Has established a quality management system in accordance
with international standard.

“ Following elements of the standard are excluded “

“None“

ISO 9001:2015

Certificate No : M 8215
Initial Certification Date : 28 April 2010
Certification Date : 19 February 2019
Expiration Date : 18 February 2022



General Manager

Kiwa Certification Services Inc.
ITOSB 9. Cadde No. 15 Tepeören Tuzla - Istanbul - Turkey
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Web: www.kiwa.com.tr E-mail: info@kiwa.com.tr

Certificate is valid till expiration date, subject to successful completion of periodical surveillance audits.

Please contact above numbers for detailed information.



CERTIFICATE

NÜVE SANAYİ MALZEMELERİ İMALAT VE TİCARET ANONİM ŞİRKETİ

SARACALAR MAHALLESİ SARACALAR KÜMEEVLERİ NO:4/2
AKYURT – ANKARA – TÜRKİYE

LABORATUVAR VE STERİLİZASYON CİHAZLARI
TASARIMI, ÜRETİMİ VE SATIŞ SONRASI SERVİS HİZMETLERİ

kapsamında

EN ISO 13485:2016

Tıbbi Cihazlar - Kalite yönetim sistemleri – Düzenleyici amaçlar için gereklilikler

"Standardın aşağıda verilen maddeleri hariç tutulmuştur"

" 7.5.5 " " 7.5.7 " " 7.5.9.2 "

Sertifika No	: M 8216
İlk Belgelendirme Tarihi	: 28 Nisan 2010
Sertifika Tarihi	: 19 Şubat 2019
Son Geçerlilik Tarihi	: 18 Şubat 2022



Medikal Cihazlar K.Y.S.
TS EN ISO/IEC 17021-1

AB-0006-YS



TÜRKAK BDS NO
YS-4DCF-FE40

Genel Müdür

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Detaylı bilgi için yukarıdaki numaralara başvurulabilir.

Sertifika Son Güncelleme Tarihi : 19 Şubat 2019 - R 04



CERTIFICATE

NÜVE SANAYİ MALZEMELERİ İMALAT VE TİCARET ANONİM ŞİRKETİ

SARACALAR MAHALLESİ SARACALAR KÜMEEVLERİ NO:4/2
AKYURT – ANKARA – TURKEY

with a scope of

DESIGN, MANUFACTURE AND AFTER SALES SERVICES OF LABORATORY AND STERILIZATION EQUIPMENTS

Medical devices - Quality management systems - Requirements for
regulatory purposes

"Following elements of the standard are excluded"

" 7.5.5 " " 7.5.7 " " 7.5.9.2 "

EN ISO 13485:2016

Certificate No : M 8216
Initial Certification Date : 28 April 2010
Certification Date : 19 February 2019
Expiration Date : 18 February 2022



Medical Device Q.M.S.
TS EN ISO/IEC 17021-1

AB-0006-YS



TÜRKAK BDS NO
YS-4DCF-FE40

General Manager

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