Pharmacy Refrigerator DIN 13277 Advance Line

Modelo · *Model*

MPRA 450 G

Ref.

800906V2000

EAN

5601359906200

HSCODE

84185019

W 600
D 700
H 1875

L	KG	°C
416	105	+2/+8

Descrição

Equipamento desenvolvido para utilização em farmácia para conservação de fármacos e vacinas, de acordo com a normativa DIN 13277.

Excelente estabilidade, uniformidade e precisão de temperatura, garantida através do isolamento de 50 mm em poliuretano Base Água, sistema de refrigeração com frio ventilado e descongelação automática, bem como uma rápida recuperação de temperatura após abertura de porta. O setpoint definido de fábrica é de +5ºC, podendo facilmente ser ajustado no intervalo entre +2ºC a +8ºC. O interior e exterior em chapa especial plastificada evita o aparecimento de corrosão com a utilização.

De serie com fechadura para evitar acessos indevidos, 5 prateleiras amovíveis em aço plastificado para evitar corrosão e cesto no fundo, porta de vidro duplo temperado baixo emissivo com sistema anti-embaciamento, reversível e com retorno automático à posição de fechada, iluminação led, puxador de design ergonómico e fácil limpeza, e 4 deslizadores com dois pés niveladores para fácil movimentação do equipamento.

Title Pres.

Equipment developed for use in pharmacy, for the conservation of drugs and vaccines, in accordance with normative DIN 13277.

Excellent stability, uniformity and temperature accuracy, guaranteed through the 50 mm water-based polyurethane insulation, refrigeration system with ventilated cold and automatic defrosting, as well as a quick temperature recovery after opening the door. The factory setpoint is +5°C, which can easily be adjusted in the range between +2°C and +8°C. The interior and exterior in special plasticized steel prevents the appearance of corrosion with use.

Standard with lock to prevent unauthorized access, 5 removable shelves in plastic coated steel to prevent corrosion and basket on bottom, double tempered low-emission glass door with no condensation system, reversible and with automatic return to the closed position, led lighting, handle with ergonomic design and easy cleaning, and 4 rollers with 2 levellers for easy equipment movement.

Características técnicas e de construção sujeitas a variações sem aviso prévio.
Technical and construction features are subject to change without notice.

Características
Advance line

Termostato Advance
Advance Controller

Características	*Features*
Fácil e intuitivo **Gestão simplificada do equipamento**	***Easy and intuitive*** ***Simplified equipment management***
Controlo preciso **Sonda NTC com precisão de 0,1 ºC**	***Precise control*** ***NTC probe with a precision 0,1°C***
Display interativo **Com bloqueio de teclado**	***Interactive Display*** ***with keyboard lock.***
Alarmes visíveis e sonoros **Temperatura alta** **Temperatura baixa** **Porta aberta** **Falha na sonda** **Falha de corrente**	***Audible and visible alarms*** ***High temperature*** ***Low temperature*** ***Open door*** ***Probe failure*** ***Power failure***
Teste de Alarmes ***Verificação de funcionalidade dos alarmes***	***Alarm Test*** ***Test of the functionality of the alarms***
Termostato de segurança **Dupla segurança para evitar que a temperatura baixe dos +2°C**	***Safety controller*** ***Double safety to prevent the temperature from dropping from +2°C***
Relógio tempo real **Definição de ano, mês, hora, minutos e segundos para gravação de dados**	***Real time clock*** ***Year, month, hour, minutes and seconds for data recording definition.***
Identificação de equipamento **Definição de número de série do equipamento no termostato para controlo de registos**	***Equipment identification*** ***Definition of the equipment serial number in the thermostat for register control.***
Controlo de humidade (OPCIONAL) **Se ativo, permite monitorizar a humidade no interior do equipamento**	***Humidity control (OPTIONAL)*** ***If active, it allows monitoring the humidity in the inside the equipment***
Datalogger **Consulta de temperatura máxima/mínima e últimos alarmes no display.**	***Datalogger*** ***Query maximum/minium temperatures and last alarms in display.***
Sonda de produto **Sonda adicional com simulador de massa, permitindo simular a temperatura do produto em qualquer parte do equipamento.**	***Product probe*** ***Probe with mass simulator, allowing to simulate the product temperature in any part of the equipment.***
USB **Para download dos registos em ficheiro PDF, garantindo assim que os dados não podem ser mudados.**	***USB*** ***Records are downloaded as PDF file, thus ensuring that the data cannot be changed.***
Registos **Registo gráfico e em tabela dos seguintes dados: Temperatura Sonda 1; Temperatura sonda 2 (simulador de massa); Alarmes; humidade (se ativa a função). *com leituras de 10 em 10 minutos e com capacidade para 2 anos de dados.**	***Records*** ***Graphical and tabular record of the following data: Probe 1 Temperature; Temperature Probe 2 (mass simulator); Alarms; Humidity (if you activate the function).*with readings every 10 minutes and with a capacity for 2 years of data.***
Bateria **Em caso de falha de energia. Com capacidade para manter alarmes e registos ativos por um período até 26 horas.**	***Battery*** ***In case of power failure. Capable of keeping alarms and logs active for up to 26 hours.***
Saída Alarme remoto e RS 485 **Contacto livre de potencial para ligação aos alarames externos e saída RS 485 para ligação a sistemas de gestão de edifícios.**	***Remote alarm output and RS 485*** ***Tension free contact for connection to external alarms and RS 485 for connection to building management systems***
Orifício para sonda externa **Diâmetro 12 mm para passagem de sonda de dispositivo de monitorização externo.**	***Hole for external probe*** ***Diameter 12 mm to pass the probe from external monitoring system***

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Características
Advance line

Registo gerado pelo Termostato Advance · *Data report generated by Advance controller*

Dados do equipamento · *Equipment data*

02

01 ALARM

File Created Date: 2020-08-05/14:14:21

Data Report

Device Information

Device Type: DR-830EN-Olitrem	Storage: 85196	Device Version: V1.0
03 Device Number:451		

Record Information

Log Interval: 00d00h01m00s 04	Temperature Type: °C	Probe Type: External
Work Mode: Running	Start Time: 2020-08-05/09:16:01	Data Points: 276
05 Temperature1 High Limit : 8.0°C	Temperature1 Low Limit : 2.0°C	
06 Temperature2 High Limit : 8.0°C	Temperature Low Limit : 2.0°C	
07 Humidity High Limit : 99.9 %RH	Humidity Low Limit : 0.0 %RH	

Temperature1 Information

08 Alarm: Yes	Max: 25.5°C	Min: 4.0°C

Temperature2 Information

09 Alarm: Yes	Max: 21.7°C	Min: 2.4°C

Humidity Information

10 Alarm: No	Max: 79.7 %RH	Min: 27.7 %RH

01 **Vermelho - Registo com alarmes**
Red - Log with alarms

02 **Verde - Não foram registados alarmes**
Green - No alarms were logged

03 **Número de série**
Serial number

04 **Tempo de recolha de dados**
Data collection time

05 **Limite superior e inferior de temperatura Sonda t1**
Upper and lower temperature limit Probe t1

06 **Limite superior e inferior de temperatura Sonda t2**
Upper and lower temperature limit Probe t2

07 **Limite superior e inferior de humidade relativa**
Upper and lower relative humiditv limit

08 **Existência de Alarme t1**
Existence of Alarm t1

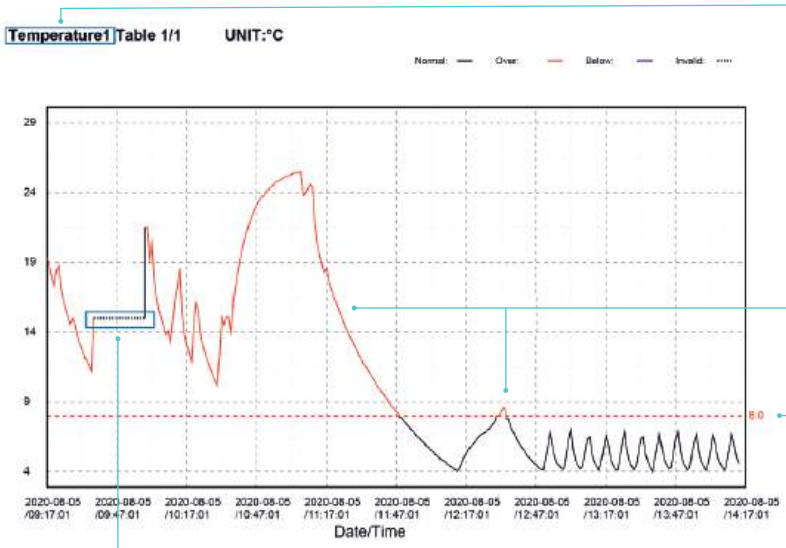
09 **Existência de Alarme t2**
Existence of Alarm t2

10 **Existência de Alarme Humidade**
Existence of Alarm Humidity

Características
Advance line

Registo gerado pelo Termostato Advance · *Data report generated by Advance controller*

3 Gráficos gerados · *3 Generated graphics*



Sonda t1 (Temperatura interna)
Probe t1 (Internal temperature)

Sonda t2 (Simulador de massa)
Probe t2 (Mass simulator)

Humidade
Humidity

Alarme de alta temperatura
High temperature alarm

Limite superior alarme
Upper alarm limit

Corte total de energia
Total energy cut

Dados recolhidos · *Collected data*

Sonda t1
Probe t1

Sonda t2
Probe t2

Código Alarme
Alarm codes

Date	Time	°C	°C	%RH	code	Date	Time	°C	°C	%RH code	Date	Time	°C	°C	%RH code
2020-08-05/09:17:01		19.3	21.7	33.4	H1	2020-08-05/11:19:01		17.1	17.2	32.6	H1	2020-08-05/12:59:01		4.2	3.8	31.1
2020-08-05/09:18:01		18.8	21.5	37.1	H1	2020-08-05/11:20:01		16.6	16.9	31.6	H1	2020-08-05/13:00:01		5.2	3.8	32.1
2020-08-05/09:19:01		18.0	21.2	31.5	H1	2020-08-05/11:21:01		16.2	16.6	30.6	H1	2020-08-05/13:01:01		6.3	3.9	32.9
2020-08-05/09:20:01		17.3	21.0	30.1	H1	2020-08-05/11:22:01		15.7	16.4	29.7	H1	2020-08-05/13:02:01		7.0	4.0	35.0
2020-08-05/09:21:01		18.4	20.8	63.9	H1	2020-08-05/11:23:01		15.3	16.1	28.7	H1	2020-08-05/13:03:01		5.5	4.0	35.6
2020-08-05/09:22:01		18.8	20.8	50.2	H1	2020-08-05/11:24:01		14.9	15.9	28.2	H1	2020-08-05/13:04:01		4.8	3.9	33.1
2020-08-05/09:23:01		17.1	20.6	35.8	H1	2020-08-05/11:25:01		14.4	15.8	27.9	H1	2020-08-05/13:05:01		4.4	3.8	31.6
2020-08-05/09:24:01		16.3	20.4	31.6	H1	2020-08-05/11:26:01		14.1	15.3	27.7	H1	2020-08-05/13:06:01		4.2	3.6	30.8
2020-08-05/09:25:01		15.7	20.1	29.8	H1	2020-08-05/11:27:01		13.7	15.1	27.8	H1	2020-08-05/13:07:01		4.4	3.5	31.1
2020-08-05/09:26:01		15.1	19.9	28.8	H1	2020-08-05/11:28:01		13.4	14.9	27.8	H1	2020-08-05/13:08:01		5.3	3.6	31.8
2020-08-05/09:27:01		14.6	19.6	28.2	H1	2020-08-05/11:29:01		13.0	14.6	27.8	H1	2020-08-05/13:09:01		6.3	3.6	32.7
2020-08-05/09:28:01		15.0	19.4	63.9	H1	2020-08-05/11:30:01		12.7	14.4	27.9	H1	2020-08-05/13:10:01		6.5	3.7	35.6
2020-08-05/09:29:01		14.5	19.2	38.7	H1	2020-08-05/11:31:01		12.3	14.1	27.9	H1	2020-08-05/13:11:01		5.3	3.7	34.5
2020-08-05/09:30:01		13.7	19.0	32.6	H1	2020-08-05/11:32:01		12.1	13.9	27.9	H1	2020-08-05/13:12:01		4.7	3.6	32.1
2020-08-05/09:31:01		13.2	18.7	30.3	H1	2020-08-05/11:33:01		11.7	13.7	28.0	H1	2020-08-05/13:13:01		4.4	3.5	30.8
2020-08-05/09:32:01		12.8	18.5	29.2	H1	2020-08-05/11:34:01		11.5	13.5	28.0	H1	2020-08-05/13:14:01		4.1	3.4	29.9
2020-08-05/09:33:01		12.3	18.3	28.6	H1	2020-08-05/11:35:01		11.2	13.3	28.1	H1	2020-08-05/13:15:01		4.7	3.3	30.6
2020-08-05/09:34:01		12.0	18.1	28.4	H1	2020-08-05/11:36:01		10.9	13.0	28.1	H1	2020-08-05/13:16:01		5.6	3.3	31.2
2020-08-05/09:35:01		11.6	17.8	28.5	H1	2020-08-05/11:37:01		10.7	12.8	28.1	H1	2020-08-05/13:17:01		6.6	3.4	32.2
2020-08-05/09:36:01		11.2	17.6	28.5	PF	2020-08-05/11:38:01		10.4	12.6	28.1	H1	2020-08-05/13:18:01		6.0	3.5	35.3
2020-08-05/09:59:40		Power on				2020-08-05/11:39:01		10.1	12.4	28.2	H1	2020-08-05/13:19:01		5.0	3.4	33.2
2020-08-05/10:00:01		21.5	18.1	65.1		2020-08-05/11:40:01		9.9	12.2	28.1	H1	2020-08-05/13:20:01		4.5	3.3	31.0
2020-08-05/10:01:01		19.2	18.1	63.8	H1	2020-08-05/11:41:01		9.6	12.0	28.2	H1	2020-08-05/13:21:01		4.2	3.2	30.1
2020-08-05/10:02:01		20.4	18.1	64.3	H1	2020-08-05/11:42:01		9.4	11.8	28.2	H1	2020-08-05/13:22:01		4.1	3.1	29.6
2020-08-05/10:03:01		17.8	18.0	48.5	H1	2020-08-05/11:43:01		9.2	11.5	28.2	H1	2020-08-05/13:23:01		5.0	3.1	30.4
2020-08-05/10:04:01		16.5	17.7	40.7	H1	2020-08-05/11:44:01		8.9	11.4	28.3	H1	2020-08-05/13:24:01		6.0	3.2	31.4
2020-08-05/10:05:01		15.6	17.5	35.3	H1	2020-08-05/11:45:01		8.7	11.2	28.3	H1	2020-08-05/13:25:01		6.9	3.2	33.0
2020-08-05/10:06:01		15.0	17.2	32.4	H1	2020-08-05/11:46:01		8.5	11.0	28.2	H1	2020-08-05/13:26:01		5.6	3.3	34.7
2020-08-05/10:07:01		14.4	17.0	30.8	H1	2020-08-05/11:47:01		8.3	10.7	28.2	H1	2020-08-05/13:27:01		4.8	3.2	32.2
2020-08-05/10:08:01		13.8	16.7	29.7	H1	2020-08-05/11:48:01		8.1	10.6	28.3	H1	2020-08-05/13:28:01		4.4	3.1	30.3
2020-08-05/10:09:01		14.1	16.5	39.4	H1	2020-08-05/11:49:01		7.9	10.4	28.4		2020-08-05/13:29:01		4.1	3.0	29.5
2020-08-05/10:10:01		13.3	16.3	33.1	H1	2020-08-05/11:50:01		7.7	10.2	28.2		2020-08-05/13:30:01		4.4	2.9	29.7
2020-08-05/10:11:01		14.8	16.1	72.2	H1	2020-08-05/11:51:01		7.5	10.0	28.1		2020-08-05/13:31:01		5.3	2.9	30.3
2020-08-05/10:12:01		16.4	16.5	73.6	do	2020-08-05/11:52:01		7.3	9.8	28.1		2020-08-05/13:32:01		6.3	3.0	31.2
2020-08-05/10:13:01		17.4	16.7	73.1	do	2020-08-05/11:53:01		7.1	9.6	28.1		2020-08-05/13:33:01		6.5	3.1	34.2
2020-08-05/10:14:01		18.6	17.0	63.6	H1	2020-08-05/11:54:01		6.9	9.4	28.2		2020-08-05/13:34:01		5.3	3.1	33.6
2020-08-05/10:15:01		15.4	16.7	45.6	H1	2020-08-05/11:55:01		6.7	9.2	28.3		2020-08-05/13:35:01		4.7	3.0	31.2
2020-08-05/10:16:01		13.9	16.4	40.0	H1	2020-08-05/11:56:01		6.5	9.0	28.4		2020-08-05/13:36:01		4.3	2.9	29.8
2020-08-05/10:17:01		13.1	16.0	35.5	H1	2020-08-05/11:57:01		6.4	8.8	28.2		2020-08-05/13:37:01		4.0	2.8	29.2
2020-08-05/10:18:01		12.5	15.7	33.6	H1	2020-08-05/11:58:01		6.2	8.6	28.3		2020-08-05/13:38:01		4.9	2.8	29.9

ALARM CODES

- LoF - data logger (must be restarted)
- H1 - high temperature (red)
- L1 - low temperature (blue)
- E1 - probe t1 interior failure
- E2 - product t2 probe failure
- E3 - defrost probe T3 failure
- E4 - humidity probe failure
- EE - display connection failure
- Er - data logger connection failure
- on - PENDRIVE inserted
- End - data logging finished
- do - open door
- PF - energy failure
- BL - dead battery
- Eb - battery connection failure

Pharmacy Refrigerator DIN 13277

Advance Line

Modelo · *Model*
MPRA 450 G

Ref.
800906V2000

Características · *Characteristics*

01 Termostato Linha Advance
Advance Line controller

02 Furo para sonda externa
Hole for external probe

03 Cesto para interior
Internal basket

04 Sonda adicional para produto (simulador de massa)
Additional probe for product temperature (mass simulator)

05 Gavetas para Séries 150 / 350 / 450
Sliding drawers for Series 150 / 350 / 450

06 USB para retirar dados
USB port for data

07 Alarme remoto e Termostato de segurança
Remote alarm and Safety controller

Design for precision

Medgree Marecos

Pharmacy Refrigerator DIN 13277

Advance Line

Modelo · *Model*: MPRA 450 G

Ref.: 800906V2000

Características Técnicas	*Technical Features*		
Largura interior	*Internal width*	480 mm	
Profundidade interior	*Internal depth*	500 mm	
Altura interior	*Internal height*	1724 mm	
Isolamento	*Insulation*	50 mm	
Tipo de isolamento	*Insulation type*	Poliuretano de alta densidade com base de água 42Kg/m³ *High density water base polyurethane 42Kg/m³*	
Volume bruto	*Gross volume*	416 Lts	
Volume líquido	*Liquid volume*	361 Lts	
Peso líquido	*Net weight*	105 Kg	
Peso com embalagem	*Weight with packaging*	115 Kg	
Material interior	*Interior material*	Chapa Plastificada Branca (Skinplate) *White Coated Steel*	
Material exterior	*Exterior material*	Chapa Plastificada Branca (Skinplate) *White Coated Steel*	
Material traseiro	*Back material*	Poliestireno de Alta densidade *High Density Polystyrene*	
Prateleiras	*Shelves*	5x(475x470) em Aço Plastificado + Cesto (455x350x200) *5x(475x470) in Plasticized Steel + Basket (455x350x200)*	
Peso max. / Prateleira	*Max. weight / Shelves*	18,3 Kg	
Nº gavetas (Standart / Max)	*Nº drawers (Standart / Max)*	—— / 14	
Peso max. / Gaveta	*Max. weight / Drawer*	18,3 Kg	
Material gaveta	*Drawer material*	Aluminio *Aluminum*	
Tipo de rodas / Pés	*Wheel type / Feet*	4 Deslizadores + 2 Niveladores *4 Rollers + 2 Levelers*	
Porta	*Door*	○ Opaca · *Solid*	● Vidro · *Glass*
Porta reversível	*Reversible door*	● SIM · *YES*	○ NÃO · *NO*
Fechadura	*Lock*	● SIM · *YES*	○ NÃO · *NO*
Descongelação	*Defrost*	● Automática · *Automatic*	○ Manual · *Manual*
Condensador	*Condenser*	○ Ventilado · *Ventilated*	● Estático · *Static*
Evaporador	*Evaporator*	● Ventilado · *Ventilated*	○ Estático · *Static*
Iluminação	*Lighting*	● SIM · *YES*	○ NÃO · *NO*
Buraco Sonda Externa	*External probe hole*	● SIM · *YES*	○ NÃO · *NO*
Potência | Potência Frigorífica	*Power | Cooling Capacity*	220 W | 337 W	
Tensão | Freq.	*Tension | Freq.*	230V/50 Hz	
Comprimento cabo de alimentação	*Power suply lenght*	2,5 m	
Consumo	*Consumption*	965 Kwh/ano *965 Kwh/year*	
Nível de Ruído	*Noise Level*	< 50 dBa	
Termostato	*Controller*	Digital | ADVANCE	
Gás	*Gas*	R600a	
Carga de gás	*Gas load*	52 g	

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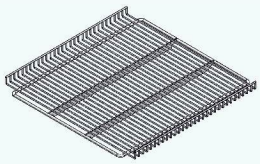
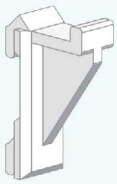
MPRA 450 G	800906V2000

Acessórios · *Accessories*



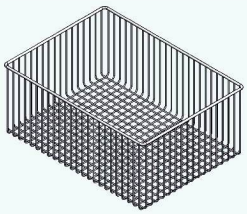
Prateleira · *Shelf*
Cód. 007122

Prateleira Inox · *Inox Shelf*
Cód. 108666



Dentel - Suporte Prateleira · *Shelf Holder*
Cód. 004042_002

Interior Inox · *Inside Inox*
Cód. 129045_2



Cesto · *Basket*
Cód. 003356_100

Kit Gaveta · *Drawer Kit*
Cód. 129043_1

Kit Separador Gaveta · *Separator Drawer Kit*
Cód. 129044

Embalagem Madeira · *Wood Package*

Pharmacy Refrigerator DIN 13277

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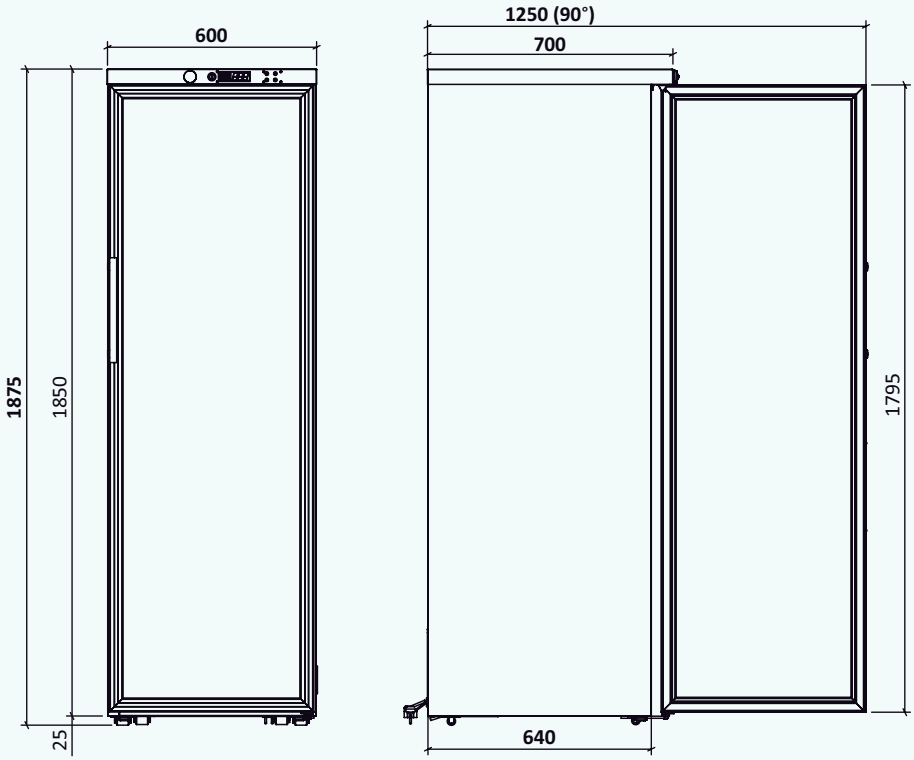
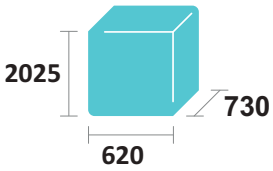
Desenho Técnico · Technical Drawing

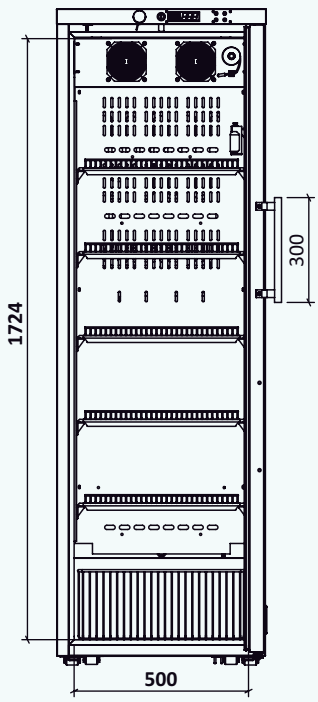


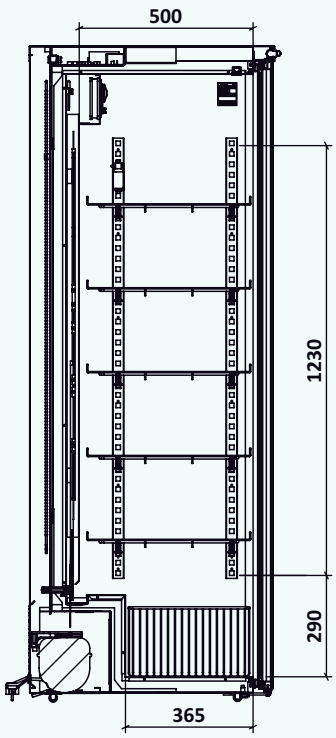
Dimensões embalagem (mm)
Package dimensions (mm)

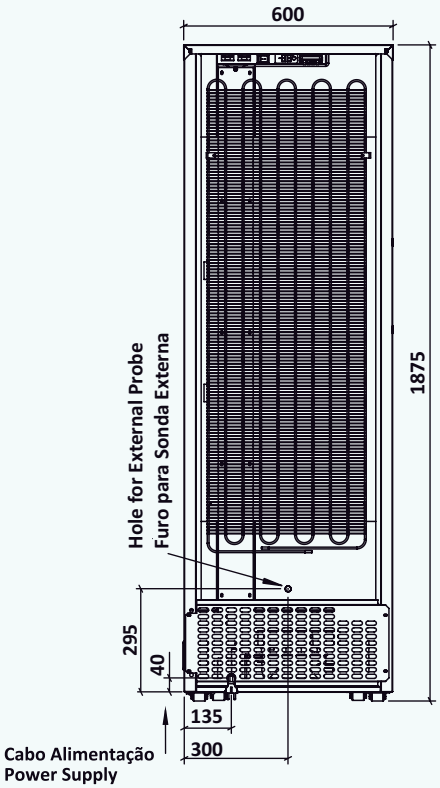


Capacidade de Carga (unid)
Load Capacity (unit)

TIR	20”	40”
63	27	57







Características técnicas e de construção sujeitas a variações sem aviso prévio.
Technical and construction features are subject to change without notice.