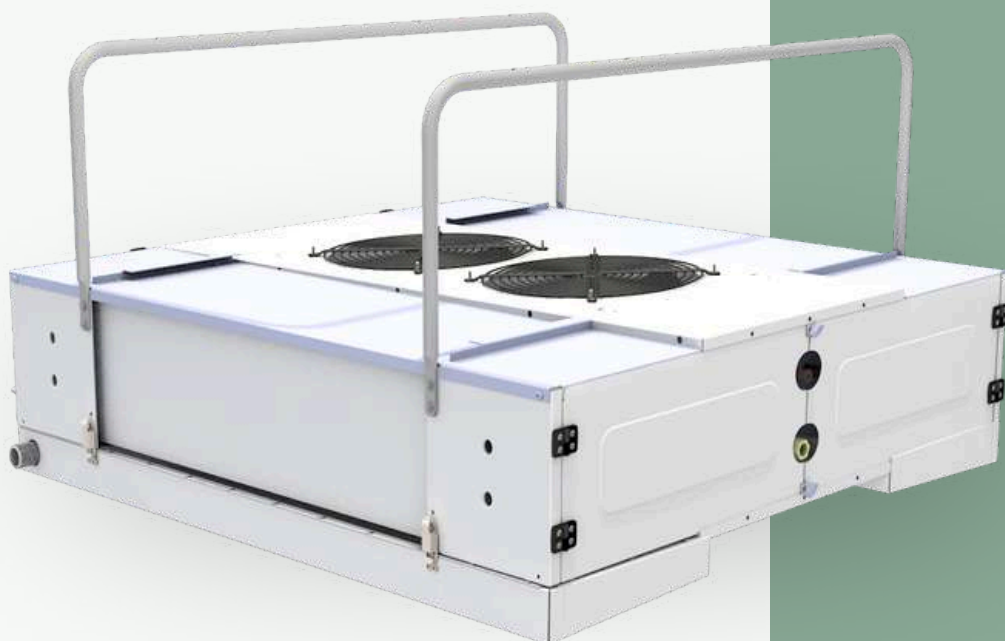
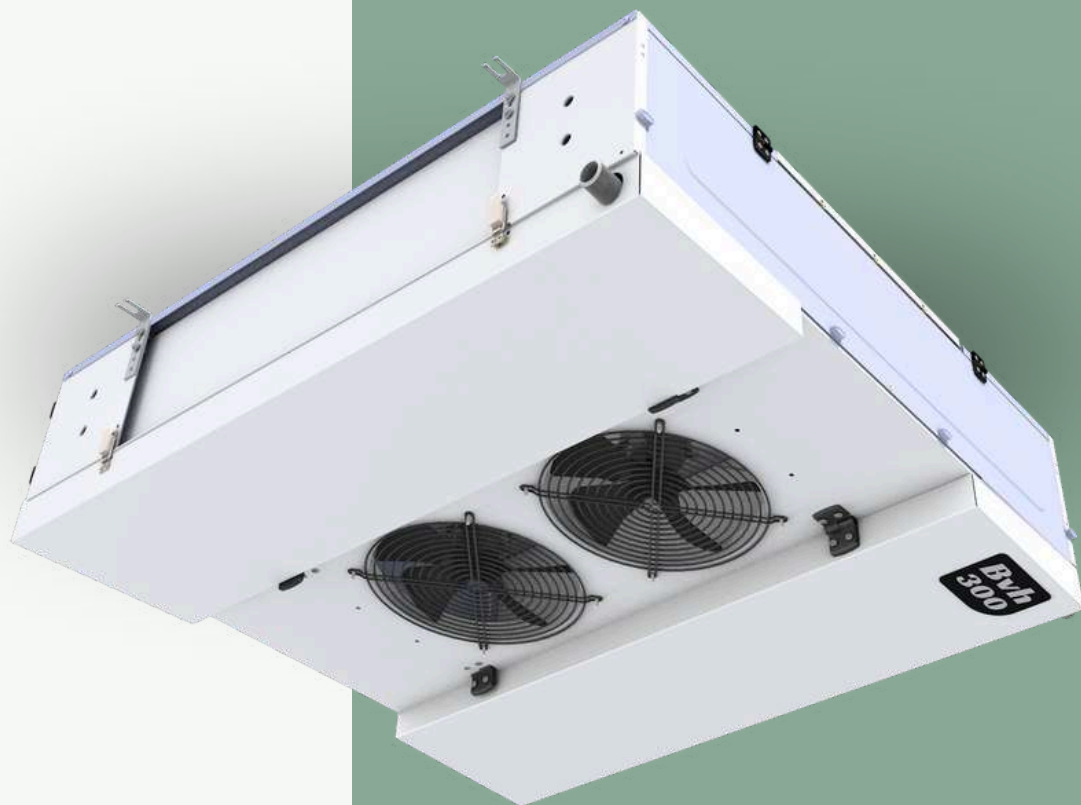


Dual



Low velocity forced
air evaporator

**Bvh
300**

4.630 a 37.800 Kcal/h
5.384 a 43.953 W



4.630 a 37.800 Kcal/h
5.384 a 43.953 W

Low-profile

forced air evaporator



Benefits

The BVH300 offers a range of benefits. Its primary function is to perform thermal exchange at low air velocity—a key feature of a low velocity forced air evaporator—which prevents drying of the exposed product and ensures the thermal comfort of the operator. The new generation adds ease of installation, speed, and convenience in cleaning, sanitization, and maintenance. All aspects of equipment operation are simplified, guaranteeing full performance throughout its service life. Another important benefit is noise reduction, especially when the fans are located at the top of the unit. The drain design with lateral outlets also prevents dripping and accumulation of debris.

Recommended applications

O evaporador Bvh 300 foi projetado especificamente para ambientes onde o produto está sempre exposto e há presença de operadores. Ele é indicado para:

- Process environments
- Climate-controlled rooms
- Production areas
- Cold rooms
- Preparation rooms

Innovations

- **Two versions**, featuring top or bottom air suction, for optimal installation performance
- **Exclusive hinged pan**: This pan greatly facilitates cleaning and sanitization of the equipment's interior.
- **Drains with lateral outlets**: This design allows the drainage piping to be installed on the side of the equipment
- **Standardized spring-loaded electrical connection system**: This system eliminates the need for preventive maintenance and simplifies installation.
- **Enclosure improvements**: The enhanced enclosure prioritizes internal access for cleaning and maintenance while maintaining a clean, innovative appearance.

Recommended environments

O BVH300 é recomendado para ambientes onde o produto **está exposto e operadores estão presentes, como ambientes de processo, salas climatizadas, áreas produtivas, câmaras frias e salas de preparo.** Ele é particularmente recomendado para ambientes com até **6m de altura.**

Adds value to the installation

- The new BVH300 line was designed to facilitate mechanical, electrical, and refrigeration installation on both models.
- Allows the drainage piping to pass through the sides of the equipment, facilitating installation and maintenance.
- Standardized spring-loaded electrical connectors also streamline installation while ensuring the recommended electrical safety.

Adds value to operation

- Ensures uniform temperature throughout the environment with high performance and efficiency, delivering constant thermal comfort under any operating condition
- Provides full access to all retractable internal components without tools, facilitating expansion valve adjustment, pressure reading, access to the electrical panel, reheating resistors, and drain pans.
- The versions of the BVH300 line optimize air distribution, ensuring uniform temperature throughout the environment and enhanced thermal comfort.

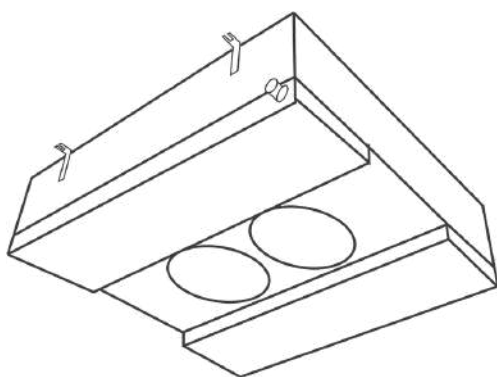
Adds value to maintenance

- The new generation of the BVH300 was designed with a focus on maintenance, offering easy access for inspections, adjustments, sanitization, replacements, and repairs with greater speed and convenience
- The condensate drains located laterally on the pans, combined with the hinged and removable design, facilitate access and make maintenance faster and more convenient
- The hinged and removable pans provide full access to the finned coil, streamlining maintenance and sanitization.
- Double insulated pans, developed to prevent external condensation and maintain thermal stability during operation.
- Hinged side covers provide quick and easy access to the electrical panel, the thermostatic valve, and the pressure port.



4.630 a 37.800 Kcal/h
5.384 a 43.953 W

Low-profile forced air evaporator



For chambers up to 6 m in height

Versão Standard

- 5/8" external diameter copper tubes
- 4 mm spacing between aluminum fins
- Smooth planed aluminum cabinet with epoxy electrostatic coating
- Double insulated pans

Applications



Dairy



Meat



Hospital



Agribusiness



Beverages



Wholesale
and Retail



Food



Industrial

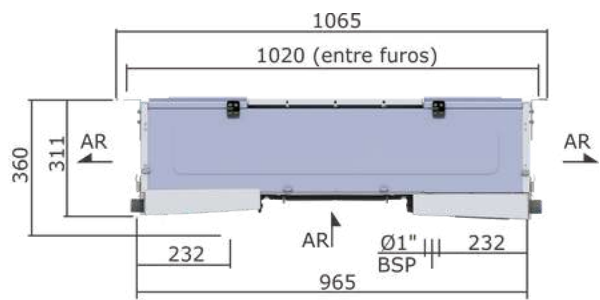
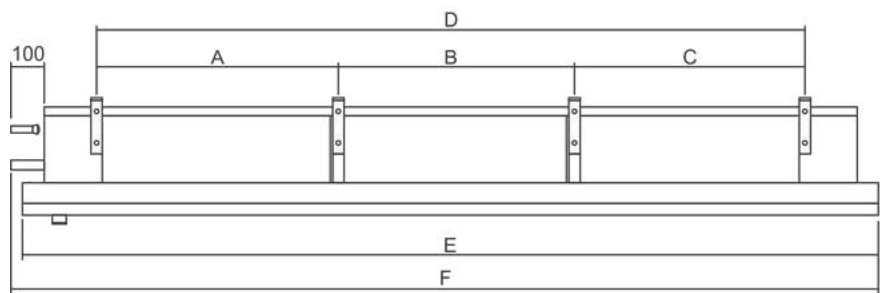
Benefits

- **Dual airflow:** temperature homogenization and uniform air distribution.
- **Bottom or top air suction:** optimization of airflow and temperature uniformity.
- **Double insulated and hinged pans:** easy access for cleaning and maintenance.
- **Clean-design lateral drains:** operational ease and enhanced equipment access
- **Standardized spring-loaded electrical connections:** secure and simplified installation
- **Fully hinged enclosure:** easy access for maintenance and sanitization
- **Sophisticated design:** visual integration in professional environments.

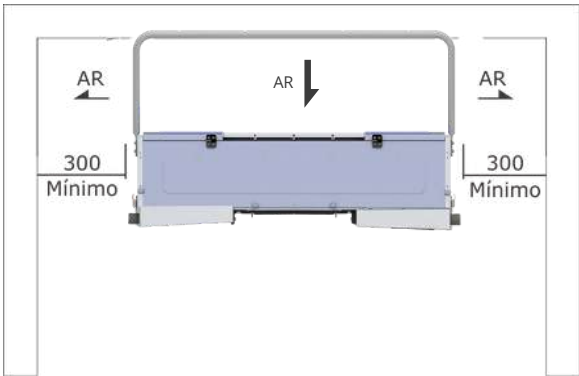
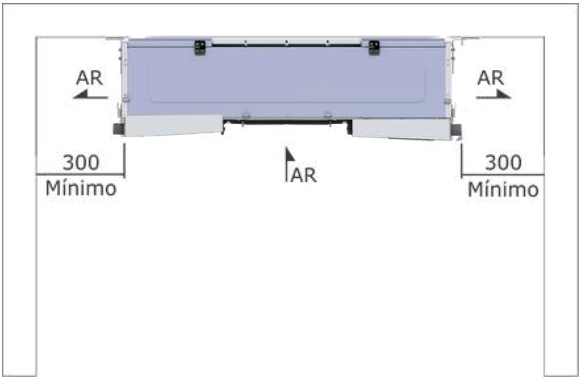
Optional

- Copper tubes and aluminum fins (Cu/Al) for CO₂
- Copper tubes and aluminum fins (Cu/Al) with circuits for chilled water and glycol solutions
- Stainless steel tubes and aluminum fins (Stainless steel/Al) for ammonia
- Aluminum tubes and aluminum fins (Al/Al) for ammonia
- Stainless steel cabinet
- Electrical heating resistors
-  Exclusive protection against aggressive environments

Dimensionals



Modelo				Dimensionais (mm)						R22		R717 Amônia		Propileno Glicol 15%		Peso (Kg)
				A	B	C	D	E	F	Ø E	Ø S	Ø E	Ø S	Ø E	Ø S	
0005	0007	0004	2	-	-	-	-	1126	1276	1/2"	5/8"	1/2"	1"	3/4"	3/4"	40
0010	0015	0008	4	778	-	-	1578	1926	2076	1/2"	7/8"	1/2"	1"	1"	1"	72
0016	0023	0018	6	778	1600	-	2378	2726	2876	1/2"	1 1/8"	3/4"	1 1/2"	1 1/4"	1 1/4"	104
0021	0031	0022	8	1578	1600	-	3178	3526	3676	1/2"	1 1/8"	3/4"	1 1/2"	1 1/2"	1 1/2"	136
0025	0037	0026	10	1578	800	1600	3978	4326	4476	5/8"	2 1/8"	1"	2"	1 1/2"	1 1/2"	168
0032	0046	0034	12	1578	1600	1600	4778	5126	5276	5/8"	2 1/8"	1"	2"	2"	2"	200

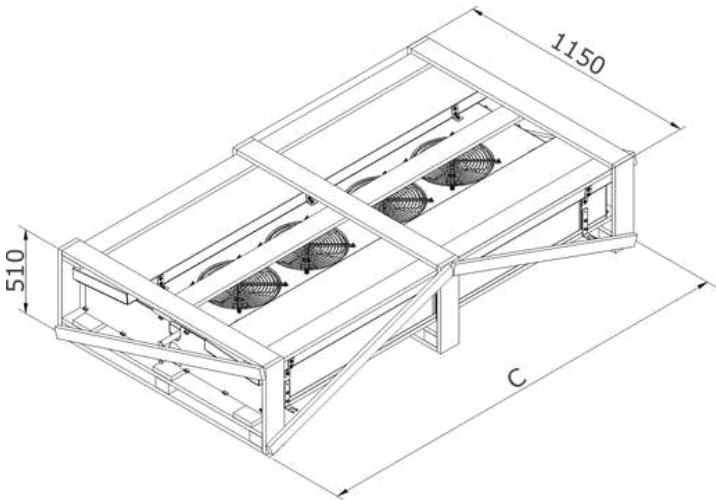


Airflow arrow



Air throw with a final velocity of 0.25 m/s. The final velocity is measured under open-field conditions. The air throw cannot be considered an absolute value, as numerous factors influence this distance

Packing



Modelo				(mm)	Peso (Kg)
				L	Bruto
0005	0007	0004	2	1310	52
0010	0015	0008	4	2240	84
0016	0023	0018	6	2940	126
0021	0031	0022	8	3740	168
0025	0037	0026	10	4540	210
0032	0046	0034	12	5340	252

Capacities • AC motor-fan

Kcal/h

															Propileno Glicol 15%				
										R717 Amônia					Temperatura da sala				
										Capacidades (DT=10,8°F/DTI=6°K)									
										Temperatura da sala									
Modelo		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	Modelo		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	Modelo		41 °F 5 °C	50 °F 10 °C	59 °F 15 °C	
5	2	4630	5020	5500	5970	6300	7	2	6000	6500	7000	7700	8400	4	2	4520	5170	5790	
10	4	9260	10040	11000	11940	12600	15	4	12000	13000	14000	15400	16800	8	4	9040	10340	11580	
16	6	13890	15060	16500	17910	18900	23	6	18000	19500	21000	23100	25200	18	6	13560	15510	17370	
21	8	18520	20080	22000	23880	25200	31	8	24000	26000	28000	30800	33600	22	8	18080	20680	23160	
25	10	23150	25100	27500	29850	31500	37	10	30000	32500	35000	38500	42000	26	10	22600	25850	28950	
32	12	27780	30120	33000	35820	37800	46	12	36000	39000	42000	46200	50400	34	12	27120	31020	34740	

Watts

R22							R717 Amônia							Propileno Glicol 15%				
Capacidades (DT=10,8°F/DTI=6°K)							Capacidades (DT=10,8°F/DTI=6°K)							Temperatura da sala				
Temperatura da sala							Temperatura da sala							Temperatura da sala				
Modelo		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	Modelo		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	Modelo		41 °F 5 °C	50 °F 10 °C	59 °F 15 °C
		E/S -5/-1	E/S 0/+4	E/S +5/+9														
5	2	5384	5837	6395	6942	7326	7	2	6977	7558	8140	8953	9767	4	2	5256	6012	6733
10	4	10767	11674	12791	13884	14651	15	4	13953	15116	16279	17907	19535	8	4	10512	12023	13465
16	6	16151	17512	19186	20826	21977	23	6	20930	22674	24419	26860	29302	18	6	15767	18035	20198
21	8	21535	23349	25581	27767	29302	31	8	27907	30233	32558	35814	39070	22	8	21023	24047	26930
25	10	26919	29186	31977	34709	36628	37	10	34884	37791	40698	44767	48837	26	10	26279	30058	33663
32	12	32302	35023	38372	41651	43953	46	12	41860	45349	48837	53721	58605	34	12	31535	36070	40395

(*) The above capacities are for 60 Hz – for 50 Hz multiply the values by 0.92 (for R404A, R507A, R407C, and R22). For other refrigerants, contact us.

Electrical characteristics • AC motor-fan

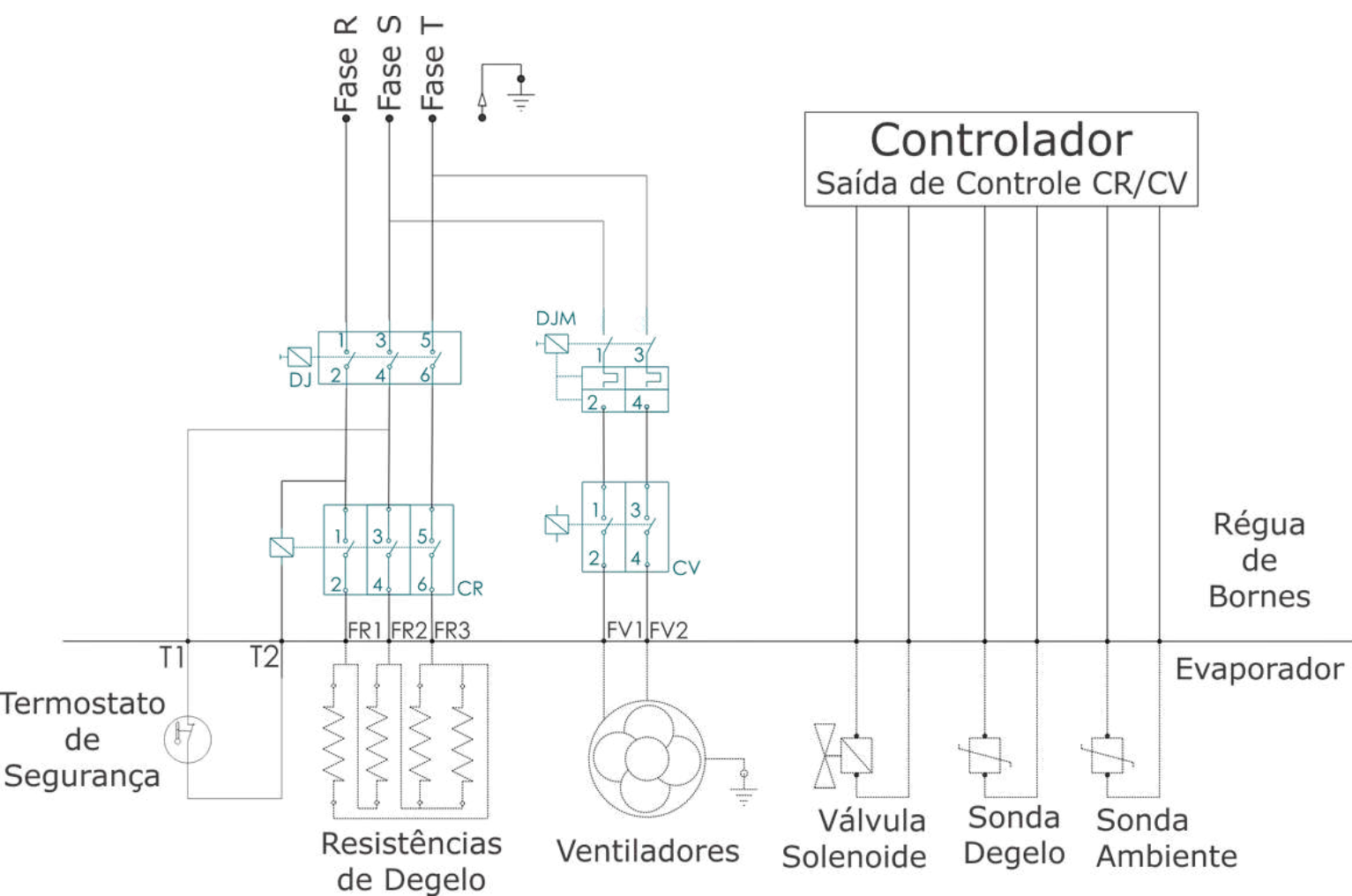
				S	R	V	C	N	Motor AC		Reaquecimento		
Modelo 				m²	m²/m²	dm³	Refr. Kg	Db(A) 1m	VAZÃO m³/h	1 ~ 220V		3~ 220V	
										W	A	W	A
0005	0007	0004	2	32	25	2,85	0,57	50	2 x 1250	240	0,56	4800	14,9d
0010	0015	0008	4	64	25	5,38	1,08	53	4 x 1250	480	1,12	9600	29,8d
0016	0023	0018	6	96	25	7,92	1,58	55	6 x 1250	720	1,68	14400	44,7d
0021	0031	0022	8	128	25	10,50	2,10	56	8 x 1250	960	2,24	19200	59,7d
0025	0037	0026	10	160	25	12,98	2,60	57	10 x 1250	1200	2,80	24000	74,6d
0032	0046	0034	12	192	25	15,52	3,10	58	12 x 1250	1440	3,36	28800	89,5d

Legendas

- S= Área total da superfície de troca térmica
- R= Relação superfície de troca térmica secundária/ superfície de troca térmica primária
- V = Volume interno
- C = Carga aproximada de refrigerante
- N= Nível de ruído obtido nas condições de campo aberto a uma distância de 1 metro.(O nível de ruído real depende de fatores como: construção da câmara, tipo de carga e número de aparelhos instalados)
- m³/h = Vazão de ar medida a densidade de 1,2 M³/Kg
- d = Consumo não equilibrado.

Modelo	Descrição	Opções Disponíveis
BVH	Evaporador de Ar Forçado baixa velocidade	
A	Espaçamento entre aletas	A • 4mm
A	Degelo	A • A ar E • Elétrico no núcleo e bandeja
0005	Modelo	0005 a 0032
C	Tubos	A • Alumínio B • Cobre para Co2 C • Cobre
A	Conexões e bandeja	A • Expansão Direta B • 2 Coletores C • 2 Coletores com Flanges D • 2 Coletores com Nipples E • 2 Coletores Roscados
0	Acessórios	00 • Sem acessórios 10 • 1 + 2 + 3 01 • Válvula de Expansão 11 • 1 + 2 02 • Válvula Solenóide 12 • 2 + 3 03 • Resistência de dreno 13 • 1 + 3
A	Acabamento	A • Gabinete de Alumínio B • Gabinete de alumínio e proteção N1 nas aletas C • Gabinete de alumínio e proteção N2 nas aletas D • Gabinete de alumínio protegido E • Gabinete de al. protegido e proteção N1 nas aletas F • Gabinete de al. protegido e proteção N2 nas aletas M • Gabinete de inox N • Gabinete de inox e proteção N1 nas aletas O • Gabinete de inox e proteção N2 nas aletas
MEC	Motor	MAC • Motoventilador AC MEC • Motoventilador EC
G	Tensão e Frequência	G • Motor = 230V/1F/50Hz N • Motor = 230V/1F/60Hz
1	Embalagem	1 • Caixa 2 • Engradado

Degelo 3~ 220V 50/60Hz • Ventilador 2~ 220V 50/60Hz



Atenção

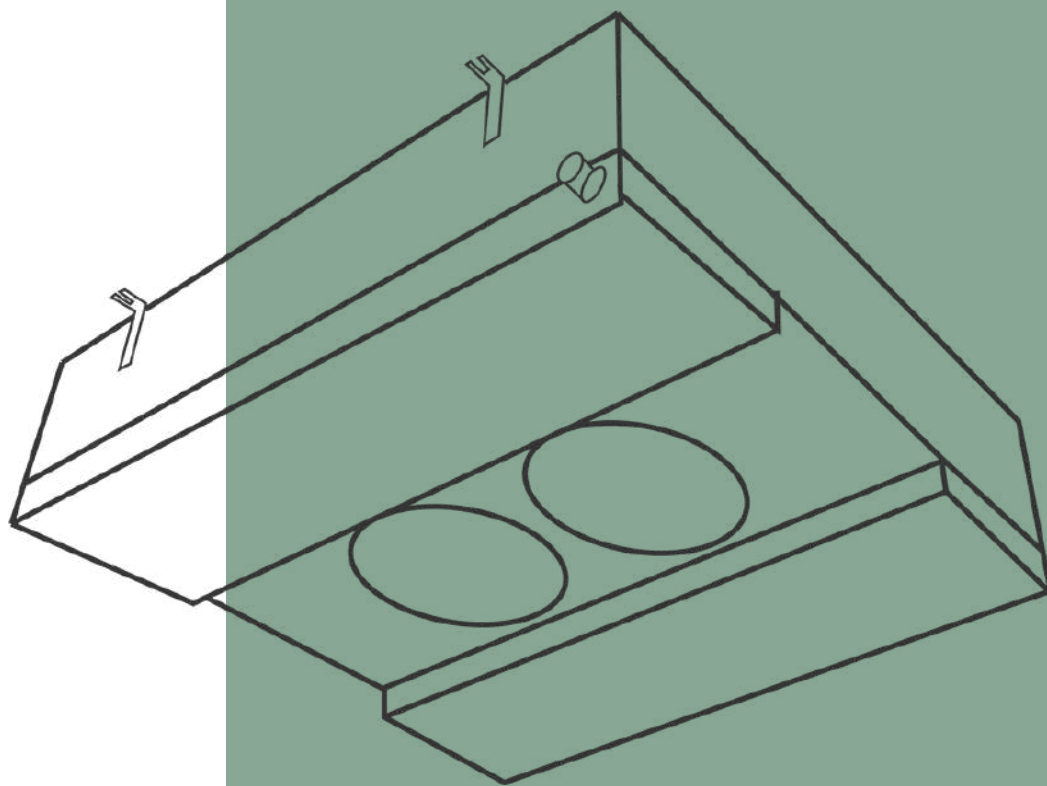
- Ao dimensionar componentes da instalação consulte a tabela de dados de catálogo.
- Para alterar alimentação de fábrica entre em contato com a engenharia Mipal.
- O termostato de segurança deverá ser ligado em série com a bobina da contatora.
- Utilize sempre o fio terra.

CR • Contatora Resistências
CV • Contatora Ventiladores
CJ • Disjuntor
DJM • Disjuntor Motor

Bvh 300



Access to product videos
and complementary
materials



 mipal.com.br

 [mipal_evaporadores](https://www.instagram.com/mipal_evaporadores)

 [mipaloficial](https://www.facebook.com/mipaloficial)

 [mipal](https://www.youtube.com/mipal)

 [mipal](https://www.linkedin.com/mipal)

 +55 11 4409-0515

 11 97617-5467

Av. Engenheiro Afonso Botti, 240
Pinhal • Cabreúva • 13315-000

MIPAL
Technology and Trust

A Mipal reserva-se o direito de alterar os dados apresentados neste catálogo sem prévio aviso.
As fotos apresentadas neste catálogo são meramente ilustrativas