

DURABILITY STARTS WITH THE MATERIAL

MANUFACTURER

OF REFRIGERATION MONOBLOCKS



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Save time and money with modern and proven refrigeration technology

AiCool monoblocks deliver efficient cooling while reducing energy costs, thanks to energy-efficient components. These plug & play units are ready for immediate operation, saving time and money.



Financial Benefits

No need to register units with national F-gas authorities or pay potential environmental fees – all models use R290 refrigerant

Energy-saving EC motors reduce power consumption by up to 55%

Heat recovery via the WATERLOOP system, e.g. for domestic water heating

Lower service costs thanks to remote diagnostics capability

Savings through condensate evaporation using condensing heat (AISI 316 coil)

Higher unit efficiency and lower operating costs due to polyurethane insulation of the evaporator housing

Reduced transport costs – made in Europe



Service benefits

Faster response time thanks to remote monitoring of operating parameters

Top-quality components from global manufacturers: EMBRACO, SECOP, FERROCOIL, DIXELL, CAREL, SANHUA

Accelerated service processes with 24/7 availability of our monoblock units

Spare parts available directly from our warehouse, with the option of delivery to the installation site



Ensure safety and reliability through durable solutions built to last

Durable construction, proven components, and intelligent control ensure long service life and product protection with minimal downtime.



Safety

Use safely within the range of -20°C to +43°C – available on special order. Refrigeration systems designed to operate in extreme outdoor conditions.

Monoblocks with WATERLOOP system – quieter and more efficient operation

We enhance operational safety by using ATEX-certified motors that meet the highest protection standards.

Automatic R290 charging station – Galileo Automation has increased the efficiency of the assembly line and raised safety standards when working with propane.



Reliability

Long-term tests in the testing chamber ensure reliability, quality, repeatability of parameters, and stable operation of the device throughout its entire service life.

Extended compressor warranty reduces the risk of unnecessary service costs.

Increased efficiency and reliability thanks to the HOT-GAS evaporator defrost system.

Enhanced corrosion resistance thanks to the stainless steel housing – especially important for outdoor equipment.

Structural components made of galvanized steel.

Components from leading global manufacturers.



Built for HEAVY DUTY and ease of use

AiCool monoblocks feature robust construction and modular design, ensuring quick installation and simple maintenance. Discover the construction advantages of our units.



Condenser(s) located at the bottom of the unit

Better natural airflow (chimney effect) improves condenser cooling efficiency.

Reduced risk of contamination extends the refrigeration system's lifespan.

Easy access for cleaning and inspection without removing the casing.

Condenser protected by a quick-release guard, shortening service time.



Evaporator design

Efficient multi-circuit evaporators ensure better refrigerant distribution, resulting in higher thermal efficiency and reduced pressure drops.

Evaporators coated with a cataphoretic layer provide protection against moisture and chemical exposure, ensuring long service life and reliable operation.



System operating with expansion valves

Superheat control. Expansion valves maintain the correct level of superheat, improving system stability and efficiency.

Better adaptation to changing operating conditions
The valve automatically adjusts refrigerant flow according to current thermal load.

Increased energy efficiency. Controlled refrigerant dosing enables higher energy performance, especially under variable load conditions.



Electrical components

Use of hermetically sealed enclosures and proper placement of control elements ensures protection against moisture and operational safety.



Controllers adapted for remote monitoring

Standard feature! Optional IoT gateway enables full control via external monitoring systems.



Long-term precise testing in the climatic chamber

We provide accurate performance measurements of monoblocks under extreme temperature and climatic conditions.

These tests enable reliable assessment of efficiency, parameter stability, and reliability of refrigeration systems.

Technical variants available for configuration

VERSION TYPE	STANDARD MODELS	OPTIONAL
OPERATING TEMPERATURE RANGE	+10°C to +43°C	+0°C to +43°C pressure switch (high pressure) or -20°C to +43°C high and low pressure switches and crankcase heater
REFRIGERATED VOLUME	3 – 60 m ³ (larger volumes for request)	
REFRIGERATION CAPACITY	0,5 – 3,9 kW (higher capacities)	
COMPRESSOR	on/off	Inverter compressor
POWER SUPPLY	230V / 50Hz	230V / 50-60Hz, 110-120V / 50-60Hz
EVAPORATOR	Corrosion protected	
MONITORING	Ready for remote monitoring	Additional IoT gateway
FANS ON HEAT EXCHANGERS	Energy-efficient EC motors	
CONDENSATE EVAPORATION	Coil made of AISI 316	
HOUSING	Stainless steel	
CONDENSING SYSTEM	Conventional – air-cooled	WATERLOOP – water cooling and heat recovery
AIR DISCHARGE	At the equipment installation site	With a damper – directed air discharge
COOLING SYSTEM	Single-range – refrigeration or freezing	Dual-Range – refrigeration and freezing in one unit
MOUNTING PANEL	60/80/100 mm PU panel	Any thickness of PU panel
LIGHTING	—	Integrated lighting with the monoblock



WALL-MOUNTED MONOBLOCK FOR COLD ROOMS

- already "plug&play" cooling or freezing system designed to wall mounting in cold rooms
- monoblocks designed for operation in sheltered spaces at external (ambient) temperatures of +10°C/+43°C (optionally +0°C/+43°C), on special order, possible -20°C/+43°C
- dual-range monoblock: refrigeration and freezing combined in one! (on request)
- condensate evaporation system
- automatic defrosting (hot gas)

TECHNICAL SPECIFICATION

WALL-MOUNTED MONOBLOCK FOR COLD ROOMS

MBP (-5°C / 0°C / +5°C)		OPERATING TEMPERATURE RANGE: +10°C / +43°C															
COLD-ROOM INTERNAL TEMP.		-5°C				0°C				+5°C				DISPLACEMENT	POWER SUPPLY	AIRFLOW CONDENSER	NET WEIGHT
SYMBOL	SIZE BY TABLE	EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE							
		43°C		32°C		43°C		32°C		43°C		32°C					
		m³	W	m³	W	m³	W	m³	W	m³	W	m³	W				
MBP-KOB-M04.SA	(1)	4	790	4,8	948	5,2	932	6,8	1118	8	1182	9,5	1400	14,3	230/1/50	850	46
MBP-KOB-M05.SA	(1)	5	930	5,9	1099	6,5	1136	8,3	1339	9,8	1373	11,3	1614	16,8		850	48
MBP-KOB-M07.SA	(2)	7	1045	8,5	1293	9,5	1320	10,8	1625	12,1	1637	13,5	1998	22,4		1700	60
MBP-KOB-M08.SA	(2)	8	1362	9,5	1638	10	1685	14,5	2028	15,9	2067	18,5	2482	27,8		1700	63
MBP-KOB-M09.SA	(2)	9	1580	10,8	1896	11,2	1864	16,5	2236	18,4	2364	23,4	2800	2x14,3		1700	75
MBP-KOB-M12.SA	(2)	12	1860	14,1	2198	15	2272	20,9	2678	24,5	2746	28	3228	2x16,8		1700	78
MBP-KOB-M18.SA	(3)	18	2090	23,1	2586	21,6	2640	32,6	3250	35	3274	43	3996	2x22,4		1700	90

PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT CONDENSATION=10K, ΔT EVAPORATION=10K;
SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 60 MM AND INSULATED FLOOR.

LBP (-25°C / -20°C / -15°C)		OPERATING TEMPERATURE RANGE: +10°C / +43°C															
COLD-ROOM INTERNAL TEMP.		-25°C				-20°C				-15°C				DISPLACEMENT	POWER SUPPLY	AIRFLOW CONDENSER	NET WEIGHT
SYMBOL	SIZE BY TABLE	EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE							
		43°C		32°C		43°C		32°C		43°C		32°C					
		m³	W	m³	W	m³	W	m³	W	m³	W	m³	W				
MBP-KOB-L03.SA	(1)	3	523	3,3	675	4	699	4,8	873	5,8	900	8	1109	27,8	230/1/50	850	56
MBP-KOB-L04.SA	(1)	4	716	4,5	876	5,5	926	6,3	1121	9,7	1171	11	1406	33,4		850	59
MBP-KOB-L08.SA	(2)	8	1064	9,3	1350	13	1398	17	1746	23,2	1800	28	2218	2x27,8		1700	90
MBP-KOB-L13.SA	(3)	13	1432	14,6	1752	18,9	1852	23,7	2242	34,6	2342	39	2812	2x33,4		1700	90

PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT CONDENSATION=10K, ΔT EVAPORATION=10K;
SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 100 MM AND INSULATED FLOOR.

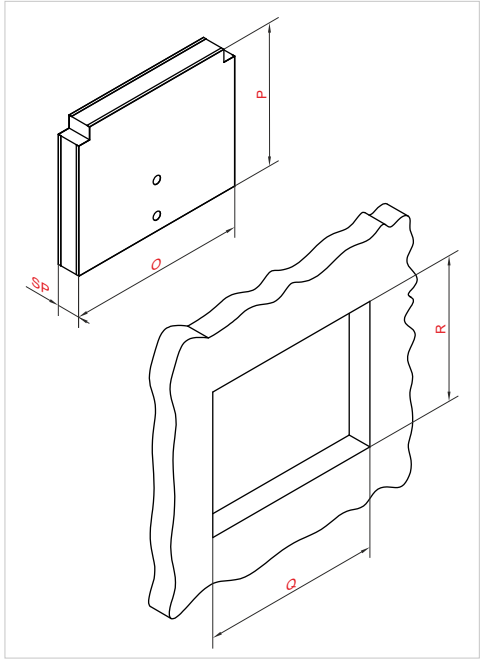
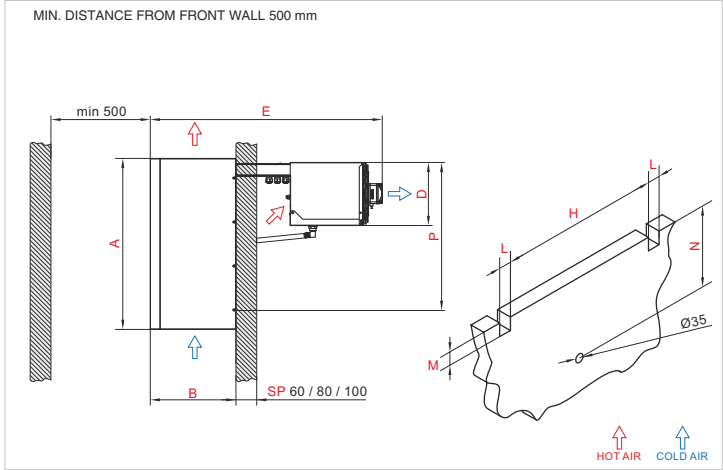
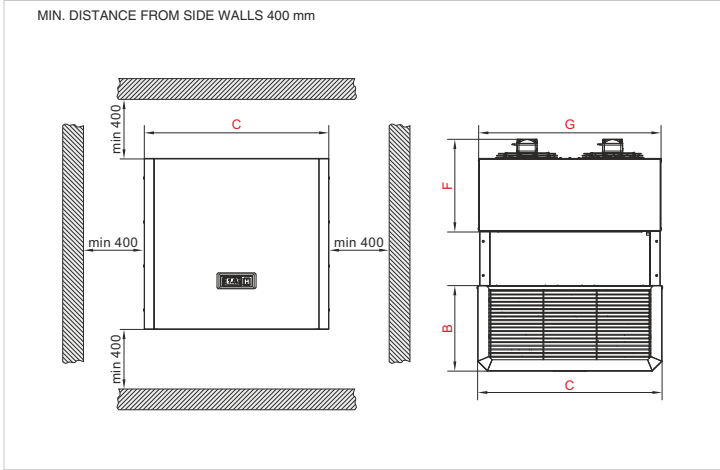


DIMENSIONAL SPECIFICATION

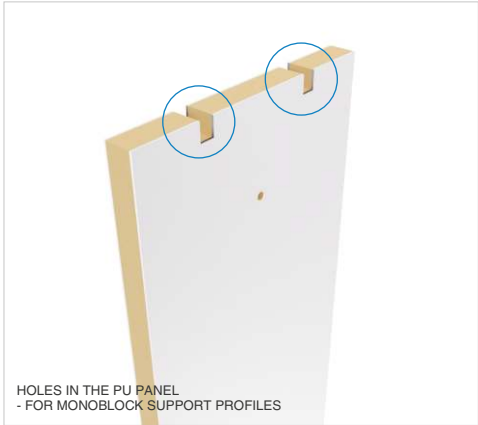
WALL-MOUNTED MONOBLOCK (HANGING AT PU PANEL)

MBP-KO...CH/MR

SIZE	DIMENSIONS [mm]														
	A	B	C	D	E	F	G	H	L	M	N	O	P	Q	R
(1)	700	350	455	255	950	375	445	350	50	55	330	455	600	460	610
(2)	700	350	755	255	950	375	745	650	50	55	330	755	600	760	610
(3)	800	420	755	420	1060	400	745	650	50	55	480	755	600	760	610



MOUNTING THE UNIT ONTO THE CHAMBER WALL





CEILING-MOUNTED MONOBLOCKS FOR COLD ROOMS

- already "plug&play" cooling or freezing system designed to ceiling mounting in cold rooms
- monoblocks designed for operation in sheltered spaces at external (ambient) temperatures of +10°C/+43°C (optionally +0°C/+43°C), on special order, possible -20°C/+43°C
- dual-range monoblock: refrigeration and freezing combined in one! (on request)
- condensate evaporation system
- automatic defrosting (hot gas)

TECHNICAL SPECIFICATION

CEILING-MOUNTED MONOBLOCKS FOR COLD ROOMS

MBP (-5°C / 0°C / +5°C)		OPERATING TEMPERATURE RANGE: +10°C / +43°C															
COLD-ROOM INTERNAL TEMP.		-5°C				0°C				+5°C				DISPLACEMENT	POWER SUPPLY	AIRFLOW CONDENSER	NET WEIGHT
SYMBOL	SIZE BY TABLE	EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE							
		43°C		32°C		43°C		32°C		43°C		32°C					
		m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	cm³	V~/Ph/Hz	m³/h	Kg
MBP-KOS-M04.SA	(1)	4	790	4,8	948	5,2	932	6,8	1118	8,0	1182	9,5	1400	14,3	230/1/50	850	53
MBP-KOS-M05.SA	(1)	5	930	5,9	1099	6,5	1136	8,3	1339	9,8	1373	11,3	1614	16,8		850	54
MBP-KOS-M07.SA	(2)	7	1045	8,5	1293	9,5	1320	10,8	1625	12,1	1637	13,5	1998	22,4		1200	75
MBP-KOS-M09.SA	(3)	9	1580	10,8	1869	11,2	1864	16,5	2236	18,4	2364	23,4	2800	2x14,3		1700	85
MBP-KOS-M12.SA	(3)	12	1860	14,1	2198	15	2272	20,9	2678	24,5	2746	28	3228	2x16,8		1700	100
MBP-KOS-M18.SA	(3)	18	2090	23,1	2586	21,6	2640	32,6	3250	35	3274	43	3996	2x22,4		2400	105

PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT CONDENSATION=10K, ΔT EVAPORATION=10K
SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 60 MM AND INSULATED FLOOR.

LBP (-25°C / -20°C / -15°C)		OPERATING TEMPERATURE RANGE: +10°C / +43°C															
COLD-ROOM INTERNAL TEMP.		-25°C				-20°C				-15°C				DISPLACEMENT	POWER SUPPLY	AIRFLOW CONDENSER	NET WEIGHT
SYMBOL	SIZE BY TABLE	EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE				EXTERNAL TEMPERATURE							
		43°C		32°C		43°C		32°C		43°C		32°C					
		m³	W	m³	W	m³	W	m³	W	m³	W	m³	W	cm³	V~/Ph/Hz	m³/h	Kg
MBP-KOS-L03.SA	(1)	3	532	3,3	675	4	699	4,8	873	5,8	900	8	1109	27,8	230/1/50	850	62
MBP-KOS-L04.SA	(1)	4	716	4,5	876	5,5	926	6,3	1121	9,7	1171	11	1406	33,4		850	63
MBP-KOS-L08.SA	(3)	8	1064	9,3	1350	13	1398	17	1746	23,2	1800	28	2218	2x27,8		1700	100
MBP-KOS-L13.SA	(3)	13	1432	14,6	1752	18,9	1852	23,7	2242	34,6	2342	39	2812	2x33,4	1700	105	
MBP-KOS-L15.SA	(4)	15	1596	18,5	2025	21,3	2097	26,8	2619	38,4	2700	48	3327	3x27,8	400/3/50	2550	148
MBP-KOS-L20.SA	(4)	20	2148	23,9	2628	28,5	2778	33,2	3363	50,0	3513	60	4218	3x33,4		2550	148

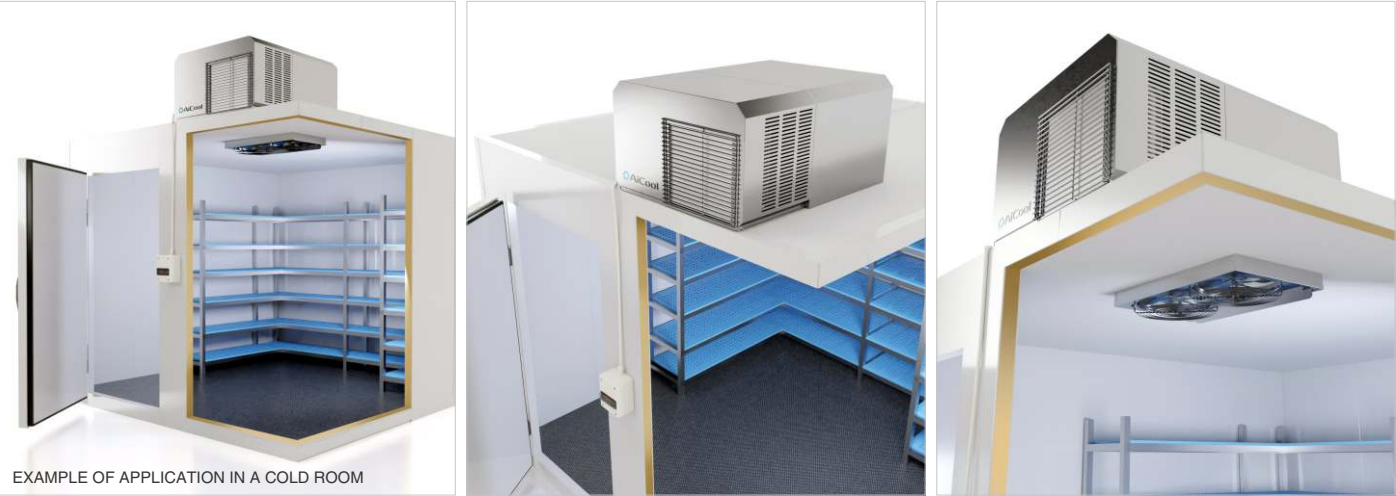
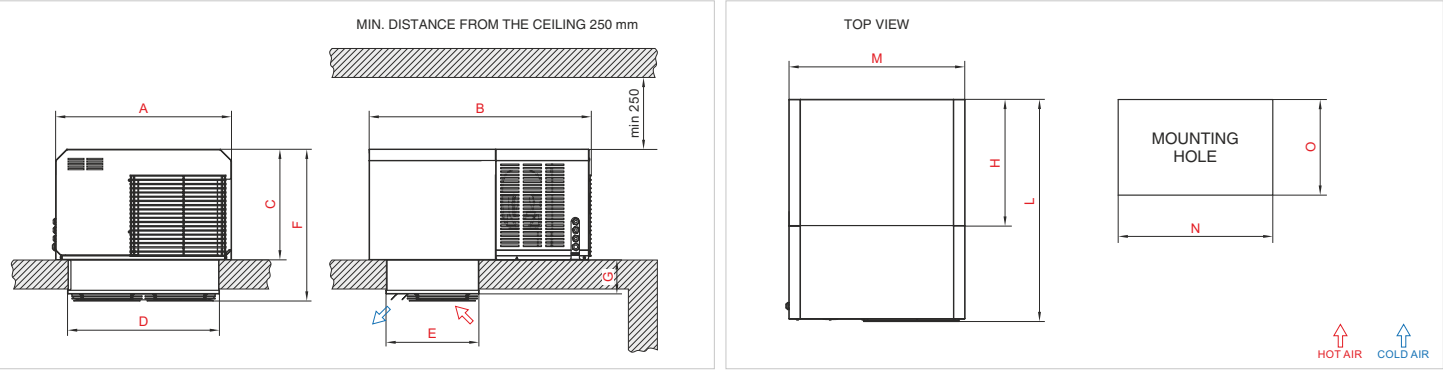
PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT CONDENSATION=10K, ΔT EVAPORATION=10K
SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 100 MM AND INSULATED FLOOR.



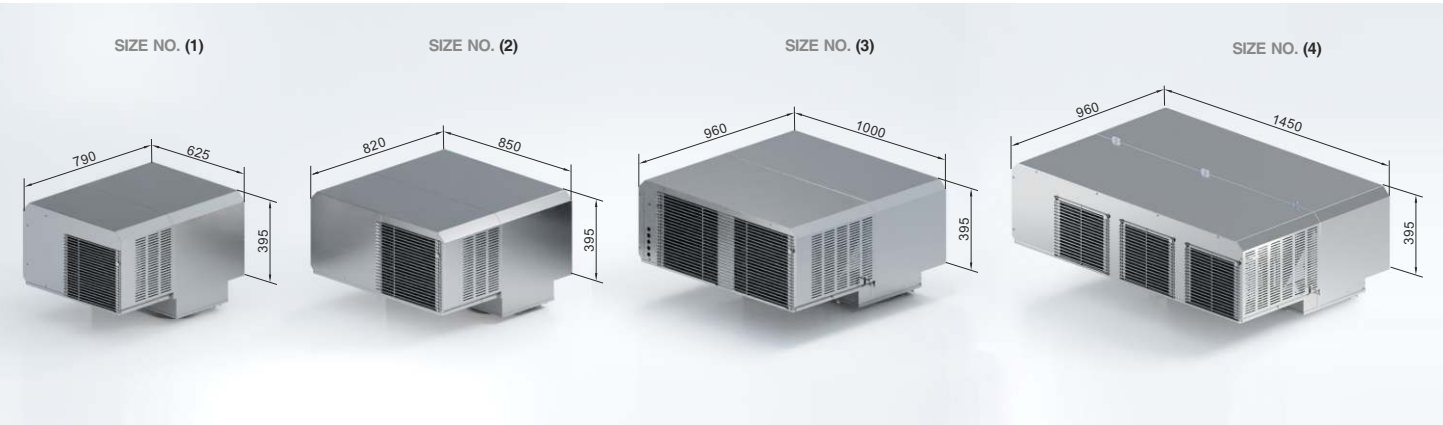
DIMENSIONAL SPECIFICATION

DIMENSIONS [mm] OF CEILING-MOUNTED MONOBLOCKS

		DIMENSIONS [mm]											MBP-KO...CH_SMR_S	
SYMBOL	SIZE	A	B	C	D	E	F	G	H	L	M	N	O	
COOLING	MBP-KOS-M04.SA	(1)	625	790	395	540	330	555	135	450	790	625	560	340
	MBP-KOS-M05.SA	(1)	625	790	395	540	330	555	135	450	790	625	560	340
	MBP-KOS-M07.SA	(2)	850	820	395	740	400	555	135	450	820	850	750	410
	MBP-KOS-M09.SA	(3)	1000	960	395	740	400	555	135	450	960	1000	750	410
	MBP-KOS-M12.SA	(3)	1000	960	395	740	400	555	135	450	960	1000	750	410
	MBP-KOS-M18.SA	(3)	1000	960	395	740	400	555	135	450	960	1000	750	410
FREEZING	MBP-KOS-L03.SA	(1)	625	790	395	540	330	555	155	450	790	625	560	340
	MBP-KOS-L04.SA	(1)	625	790	395	540	330	555	155	450	790	625	560	340
	MBP-KOS-L08.SA	(3)	1000	960	395	740	400	555	155	450	960	1000	750	410
	MBP-KOS-L13.SA	(3)	1000	960	395	740	400	555	155	450	960	1000	750	410
	MBP-KOS-L15.SA	(4)	1450	960	395	1200	400	555	155	450	960	1450	1210	410
	MBP-KOS-L20.SA	(4)	1450	960	395	1200	400	555	155	450	960	1450	1210	410



EXTERNAL DIMENSIONS




CEILING-MOUNTED MONOBLOCKS FOR COLD ROOMS - WATERLOOP

- cooling and freezer systems designed for ceiling installation in cold rooms
- monoblocks designed for operation in sheltered spaces at external (ambient) temperatures of +5°C/+43°C, on special order, possible -20°C/+43°C (only with glycol systems)
- thermostatic expansion valve, hermetic compressor
- condensate evaporation system using heat – AISI 316 coil
- automatic defrosting (hot gas)
- monoblocks equipped with a water-cooled condenser and condensing pressure control valve(s)
possibility of operation in installations equipped with flow balancing valves additional option to install shut-off valves

TECHNICAL SPECIFICATION
MONOBLOCS CEILING-MOUNTED WITH WATER-COOLED CONDENSER

MBP (-5°C / 0°C / +5°C)		WATERLOOP									OPERATING TEMPERATURE RANGE: +5°C / +43°C													
COLD-ROOM INTERNAL TEMP.		-5°C			0°C			+5°C			DISPLACEMENT	WATER FLOW	PRESSURE DROP	HEAT GAINS	POWER SUPPLY									
SYMBOL	SIZE BY TABLE	+48°C _{H20}		+37°C _{H20}		+5°C _{H20}		+48°C _{H20}		+37°C _{H20}						+5°C _{H20}								
		m ³	W	m ³	W	m ³	W	m ³	W	m ³						W	m ³	W	cm ³	l/h	kPa	W	V~/Ph/Hz	
MBP-KOS-M04.SW	(1)	4	790	4,8	948	5,5	990	5,2	932	6,8	1118	7,9	1240	8	1182	9,5	1400	10,5	1480	14,3	400	45	1700	230/1/50
MBP-KOS-M05.SW	(1)	5	930	5,9	1099	6,7	1202	6,5	1136	8,3	1339	9,5	1464	9,8	1373	11,3	1614	13	1763	16,8	450	50	2100	
MBP-KOS-M07.SW	(2)	7	1045	8,5	1293	10	1485	9,5	1320	10,8	1625	12,5	1848	12,1	1637	13,5	1998	15,8	2252	22,4	450	50	2450	
MBP-KOS-M09.SW	(3)	9	1580	10,8	1896	12,3	1980	11,2	1864	16,5	2236	19	2480	18,4	2364	23,4	2800	25,3	2960	2x14,3	800	50	3300	
MBP-KOS-M12.SW	(3)	12	1860	14,1	2272	18,5	2404	15	2272	20,9	2678	24,5	2928	24,5	2746	28	3228	32,5	3526	2x16,8	900	55	4100	
MBP-KOS-M18.SW	(3)	18	2090	23,1	2586	27,5	2970	21,6	2640	32,6	3250	36	3696	35	3274	43	3996	50	4504	2x22,4	900	35	4700	

PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT EVAPORATION=10K
 SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 60 MM AND INSULATED FLOOR. FOR CONDITIONS: T_{int}=0°C, T_{inH2O}=+37°C

LBP (-25°C / -20°C / -15°C)		WATERLOOP									OPERATING TEMPERATURE RANGE: +5°C / +43°C													
COLD-ROOM INTERNAL TEMP.		-25°C			-20°C			-15°C			DISPLACEMENT	WATER FLOW	PRESSURE DROP	HEAT GAINS	POWER SUPPLY									
SYMBOL	SIZE BY TABLE	+48°C _{H20}		+37°C _{H20}		+5°C _{H20}		+48°C _{H20}		+37°C _{H20}						+5°C _{H20}								
		m ³	W	m ³	W	m ³	W	m ³	W	m ³						W	m ³	W	cm ³	l/h	kPa	W	V~/Ph/Hz	
MBP-KOS-L03.SW	(1)	3	532	3,3	675	3,8	763	4	699	4,8	873	5,4	980	5,8	900	8	1109	10	1239	27,8	350	40	1700	230/1/50
MBP-KOS-L04.SW	(1)	4	716	4,5	876	5,1	972	5,5	926	6,3	1121	7	1240	9,7	1171	11	1406	12	1550	33,4	400	40	2100	
MBP-KOS-L08.SW	(3)	8	1064	9,3	1350	10,4	1526	13	1398	17	1746	19	1960	23,2	1800	28	2218	32	2478	2x27,8	700	50	3400	
MBP-KOS-L13.SW	(3)	13	1432	14,6	1752	16,2	1944	18,9	1852	23,7	2242	27	2480	34,6	2342	39	2812	43	3100	2x33,4	800	55	4000	
MBP-KOS-L15.SW	(4)	15	1596	18,5	2025	21	2289	21,3	2097	26,8	2619	33	2940	38,4	2700	48	3327	53	3717	3x27,8	1050	55	5100	400/3/50
MBP-KOS-L20.SW	(4)	20	2148	23,9	2628	28	2916	28,5	2778	33,2	3363	41	3720	50	3513	60	4218	67	4650	3x33,4	1200	55	6300	

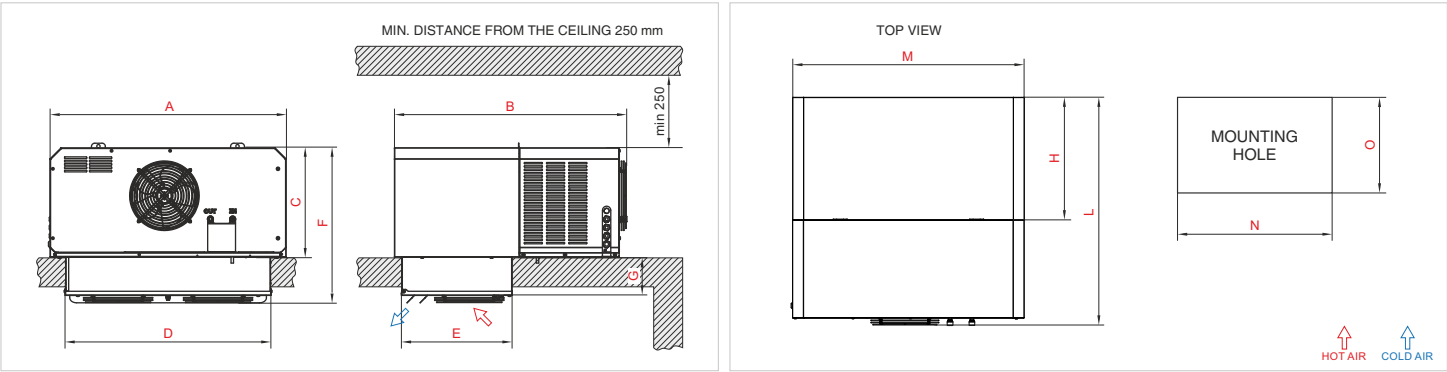
PARAMETERS CALCULATED ACCORDING TO EN 12900 FOR: ΔT EVAPORATION=10K
 SUGGESTED VOLUME CALCULATED FOR INSULATED PANELS WITH A THICKNESS OF 100 MM AND INSULATED FLOOR. FOR CONDITIONS: T_{int}=-20°C, T_{inH2O}=+37°C



DIMENSIONAL SPECIFICATION

DIMENSIONS [mm] OF CEILING-MOUNTED MONOBLOCKS - WATERLOOP

		DIMENSIONS [mm]											MBP-KO...CH_SW/MR_SW	
SYMBOL	SIZE	A	B	C	D	E	F	G	H	L	M	N	O	
COOLING	MBP-KOS-M04.SW	(1)	625	807,5	395	540	330	558	137	450	807,5	625	560	340
	MBP-KOS-M05.SW	(1)	625	807,5	395	540	330	558	137	450	807,5	625	560	340
	MBP-KOS-M07.SW	(2)	850	837,4	395	740	400	558	137	450	837,4	850	750	410
	MBP-KOS-M09.SW	(3)	1000	976,9	395	740	400	558	137	450	976,9	1000	750	410
	MBP-KOS-M12.SW	(3)	1000	976,9	395	740	400	558	137	450	976,9	1000	750	410
	MBP-KOS-M18.SW	(3)	1000	976,9	395	740	400	558	137	450	976,9	1000	750	410
FREEZING	MBP-KOS-L03.SW	(1)	625	807,5	395	540	330	558	155	450	807,5	625	560	340
	MBP-KOS-L04.SW	(1)	625	807,5	395	540	330	558	155	450	807,5	625	560	340
	MBP-KOS-L08.SW	(3)	1000	976,9	395	740	400	558	155	450	976,9	1000	750	410
	MBP-KOS-L13.SW	(3)	1000	976,9	395	740	400	558	155	450	976,9	1000	750	410
	MBP-KOS-L15.SW	(4)	1450	976,9	395	1190	400	558	155	450	976,9	1450	1210	410
	MBP-KOS-L20.SW	(4)	1450	976,9	395	1190	400	558	155	450	976,9	1450	1210	410

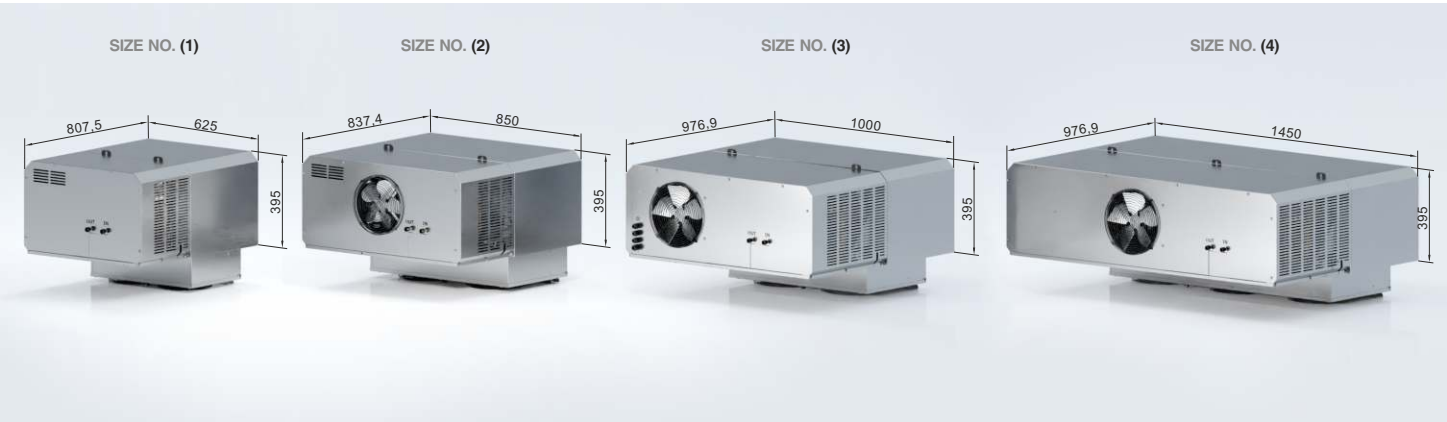


HEAT RECOVERY SYSTEM

MONOBLOCKS WITH A HEAT RECOVERY SYSTEM EQUIPPED WITH A WATER-COOLED CONDENSER (WATER LOOP)

hot water cold water

EXTERNAL DIMENSIONS





CENTRALLY MOUNTED MONOBLOCKS FOR COOLING TABLES

Advantages

- already "plug&play" cooling system - way to deal with the shortage of specialists
- high performance refrigeration systems
- gain more cooling space - central mounting in the refrigeration furniture
- even temperature distribution, 'top' type ventilation
- easy and quick assembly - 3 m connection cable as standard
- order starting from 1 piece
- support European producers - Made in Poland

Technical features

- housing made of stainless steel
- R290 eco refrigerant
- high efficiency hermetic compressor
- temperature controller and rocker switch included
- monoblocks made of durable components
- individual technical specification on request

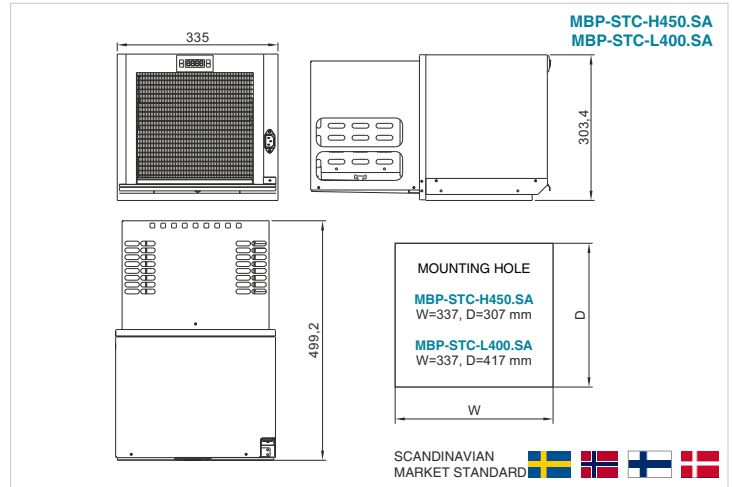
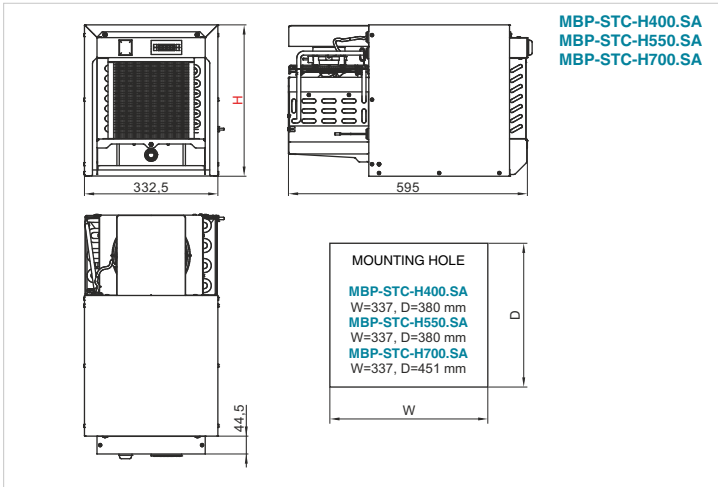
TECHNICAL SPECIFICATION

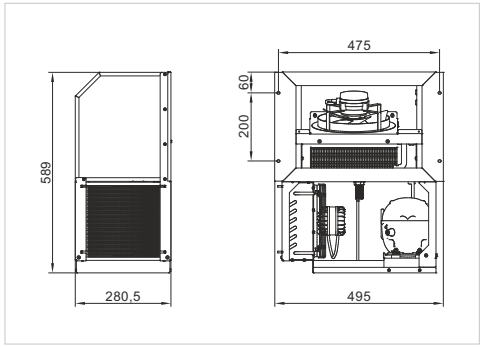
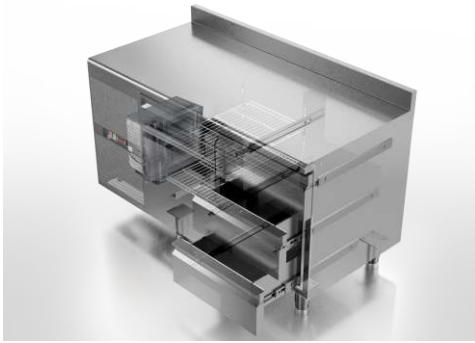
CENTRAL MOUNTED MONOBLOCKS FOR COOLING TABLES

HBP (+2°C / +8°C) / LBP (-25°C / -15°C)								
SYMBOL	POWER SUPPLY	OPERATING TEMP. RANGE	REFRIGERANT	DEFROST	COOLED VOLUME	CAPACITY	DIMENSION (H)	PCS/PALLET
MBP-STC-H400.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	400 L	360 W *	377,5 mm	16
MBP-STC-H550.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	550 L	550 W *	377,5 mm	16
MBP-STC-H700.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	700 L	700 W *	449 mm	16
MBP-STC-H450.SA SCANDI MARKET STANDARD	220-240V-50Hz	+2°C / +8°C	R290	compressor off	450 L	500 W *	303,4 mm	16
MBP-STC-L400.SA	220-240V-50Hz	-25°C / -15°C	R290	hot gas	400 L	300 W *	414,5 mm	16

*COMPRESSOR CAPACITY FOR ASHRAE CONDITIONS: EVAPORATING TEMP. -10°C, CONDENSING TEMP. +45°C
OTHER MODELS AND EFFICIENCIES ON REQUEST

DIMENSIONAL SPECIFICATION





SIDE-MOUNTED MONOBLOCKS FOR COOLING TABLES

Advantages

- already "plug&play" cooling system - way to deal with the shortage of specialists
- high performance refrigeration systems
- easy and quick assembly
- order starting from 1 piece
- left- or right-hand version available on request
- support European producers - Made in Poland

Technical features

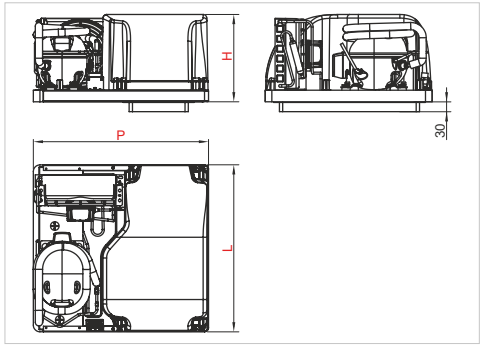
- housing made of galvanized steel
- R290 eco refrigerant
- high efficiency hermetic compressor
- monoblocks made of durable components
- the set does not include a temperature controller or a rocker switch
- power cable for monoblock on request
- individual technical specification on request

TECHNICAL SPECIFICATION

SIDE-MOUNTED MONOBLOCKS FOR COOLING TABLES

HBP (+2°C / +8°C)							
SYMBOL	POWER SUPPLY	OPERATING TEMP. RANGE	REFRIGERANT	DEFROST	COOLED VOLUME	CAPACITY	PCS/PALLET
MBP-STB-H400.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	400 L	360 W*	12
MBP-STB-H500.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	500 L	440 W*	12
MBP-STB-H600.SA	220-240V-50Hz	+2°C / +8°C	R290	compressor off	600 L	560 W*	12

*COMPRESSOR CAPACITY FOR ASHRAE CONDITIONS: EVAPORATING TEMP. -10°C, CONDENSING TEMP. +45°C
OTHER MODELS AND EFFICIENCIES ON REQUEST



MONOBLOCKS FOR COOLING AND FREEZING CABINETS

Advantages

- reduced installation costs, running costs and after-sales costs
- easy and quick assembly
- high performance refrigeration systems
- evaporator built into the unit so that no space in the refrigerating compartment is taken up
- immediate electrical wiring

Technical features

- power supply: 220-240 V / 50 Hz
- R290 eco refrigerant
- available refrigeration and freezer versions for capacities of 400, 700, 1400, and 2000 l
- forced ventilation
- climate class: 5

TECHNICAL SPECIFICATION

MONOBLOCKS FOR COOLING AND FREEZING CABINETS

HBP (+2°C / +8°C)		MBP (-2°C / +10°C)		LBP (-20°C / -15°C)			
SYMBOL	REFRIGERATED VOLUME	OPERATING TEMP. RANGE	COOLING CAPACITY	REFRIGERANT	DEFROSTING	DIMENSIONS	MOUNTING HOLE
MB-SZ-MBP-6PLR22/400H	400 l	-2/+10°C	256 W**	R290, 36g	heater	L=505 mm, P=530 mm, H=265 mm	435x190mm
MB-SZ-LBP-6NLV22/400G	400 l	-20/-15°C	272 W*	R290, 72g	hot gas	L=505 mm, P=530 mm, H=265 mm	435x190mm
MB-SZ-HBP-6PLX22/700N	700 l	+2/+8°C	342 W**	R290, 65g	compressor off	L=615 mm, P=690 mm, H=299 mm	510x385mm
MB-SZ-LBP-6NLV22 /700G	700 l	-20/-15°C	383 W*	R290, 70g	hot gas	L=615 mm, P=695 mm, H=330 mm	510x385mm
MB-SZ-HBP-6PHX22/1400N	1400 l	+2/+10°C	513 W**	R290, 62g	compressor off	L=615 mm, P=690 mm, H=295 mm	510x385mm
MB-SZ-LBP-6NHV22/1400G	1400 l	-20/-15°C	574 W**	R290, 95g	hot gas	L=615 mm, P=695 mm, H=330 mm	510x385mm
MB-SZ-MBP-6PEV22/2000G	2000 l	-2/+10°C	622 W**	R290, 125g	hot gas	L=615 mm, P=690 mm, H=295 mm	510x385mm

OTHER MODELS AND EFFICIENCIES ON REQUEST



MONOBLOCKS FOR VENDING MACHINES

Advantages

- monoblocks are designed and manufactured according to customer specifications
- easy installation - thoughtful design speeds up assembly and minimizes costs
- no MOQ – orders fulfilled starting from just one piece
- support European producers - Made in Poland
- fast lead time - from design to finished product, we need only 6 weeks
- local after-sales support – fast service and technical assistance tailored to the customer

Technical features

- aesthetic, corrosion-resistant, and durable in demanding conditions
- high-performance, energy-saving inverter compressor
- safe and energy-efficient EC fans – quiet operation with extended service life
- eco-friendly refrigerant R290 - zero environmental impact and high energy efficiency
- fully compatible electrical system - optimized for voltage and performance parameters
- high-quality components and optimized design minimize energy consumption
- individual technical specification on request

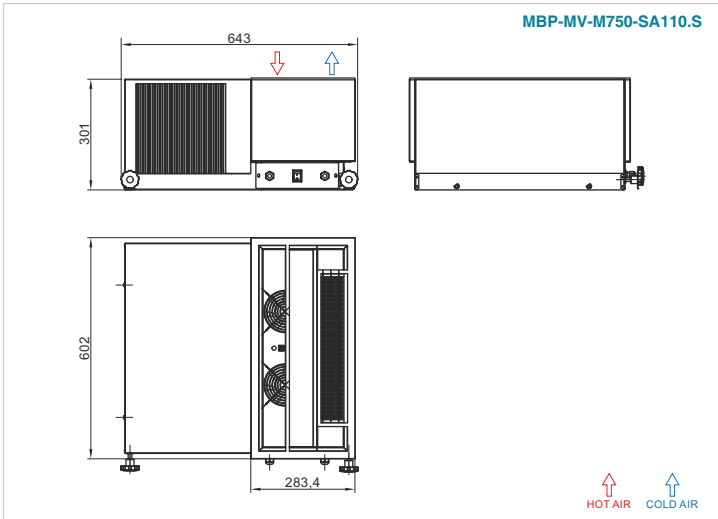
TECHNICAL SPECIFICATION

MONOBLOCKS FOR VENDING MACHINES

(+5°C / +8°C)						
SYMBOL	POWER SUPPLY	OPERATING TEMP. RANGE	REFRIGERANT	DEFROST	CAPACITY	PCS/PALLET
MBP-MV-M750-SA110.S	220-240V-50Hz	+5°C / +8°C	R290	compressor off	750 W *	8

*COMPRESSOR CAPACITY FOR ASHRAE CONDITIONS: EVAPORATING TEMP. -5°C, CONDENSING TEMP. +45°C
OTHER MODELS AND EFFICIENCIES ON REQUEST

DIMENSIONAL SPECIFICATION



VIEW OF THE MONOBLOCK APPLICATION IN VENDING MACHINE



VIEW OF THE MONOBLOCK APPLICATION WITH EXTENDED SLIDE-OUT CONTROLLER MODULE



MONOBLOCKS FOR DISPLAY COUNTERS

Advantages

- ready-to-use “plug & play” cooling system – ideal for locations with limited technical staff
- easy and quick assembly – minimizes installation time
- durable components from leading European suppliers
- efficient and energy-saving electrical components – EC motors
- quiet operation – suitable for front-of-store installations
- reliable defrost system – minimal maintenance and downtime
- support for European manufacturers – Made in Poland

Technical features

- eco-friendly refrigerant R290 - zero environmental impact and high energy efficiency
- high system cooling capacity: 700 W
- standard 3 m connection cable
- temperature controller and rocker switch included
- low noise level (<50 dB)
- CE and RoHS certifications

TECHNICAL SPECIFICATION

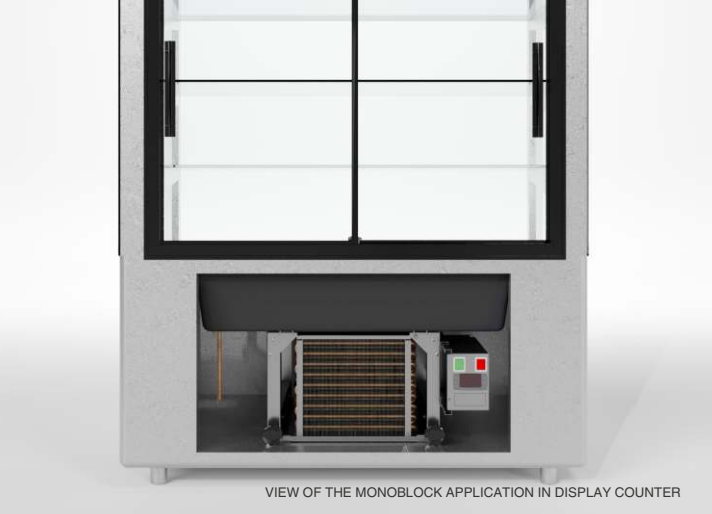
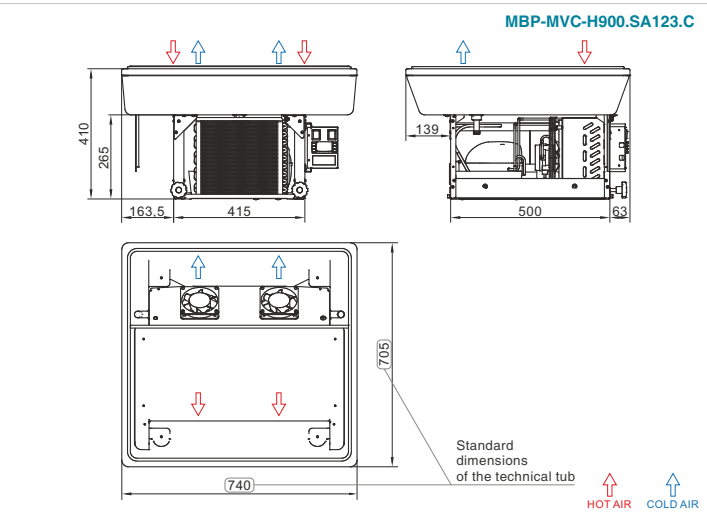
MONOBLOCKS FOR DISPLAY COUNTERS

HBP (+2°C / +8°C)

SYMBOL	POWER SUPPLY	OPERATING TEMP. RANGE	REFRIGERANT	DEFROST	DISPLAY COUNTER TYPE	CAPACITY	PCS/PALLET
MBP-MVC-H900.SA123.C	220-240V-50Hz	+2°C / +8°C	R290	compressor off	600-900	699 W *	4

*COMPRESSOR CAPACITY FOR ASHRAE CONDITIONS: EVAPORATING TEMP. -10°C, CONDENSING TEMP. +45°C
OTHER MODELS AND EFFICIENCIES ON REQUEST

DIMENSIONAL SPECIFICATION



VIEW OF THE MONOBLOCK APPLICATION IN DISPLAY COUNTER





MONOBLOCKS FOR THAI ROLLED ICE CREAM MACHINES

Advantages

- highly durable work surface, rapid achievement of operating temperature, and minimal cold loss
- easy installation – thoughtful design speeds up assembly and minimizes costs (plug-and-play)
- high reliability – the use of compressors and components from leading global manufacturers ensures long service life
- quiet operation – thanks to modern compressors and fans
- no MOQ – orders fulfilled starting from just one piece
- fast lead time – from design to finished product, we need only 6 weeks

Technical features

- stainless steel freezing plate – ergonomic and hygienic work surface
- eco-friendly refrigerant R290 – zero environmental impact and high energy efficiency
- fully compatible electrical system – optimized for voltage and performance parameters
- high-quality components and optimized design minimize energy consumption
- reezing plate dimensions and other parameters tailored to customer specifications, ensuring full integration with the equipment design

TECHNICAL SPECIFICATION

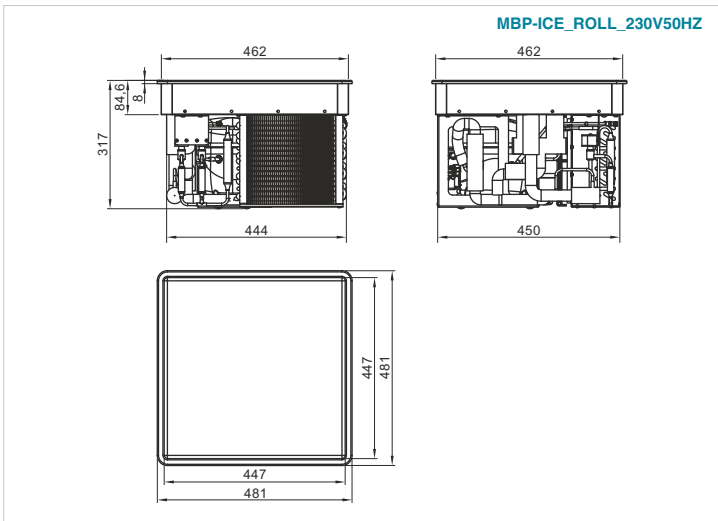
MONOBLOCKS FOR THAI ROLLED ICE CREAM MACHINES

LBP (-14°C / -30°C)

SYMBOL	POWER SUPPLY	OPERATING TEMP. RANGE	CAPACITY	REFRIGERANT
MBP-ICE_ROLL	230V-50Hz	-14°C / -30°C	907 W*	R290

*COMPRESSOR CAPACITY FOR ASHRAE CONDITIONS: EVAPORATING TEMP. -30°C, CONDENSING TEMP. +40°C
OTHER MODELS AND EFFICIENCIES ON REQUEST

DIMENSIONAL SPECIFICATION



MONOBLOCK APPLICATION IN ROLLED ICE CREAM MACHINES



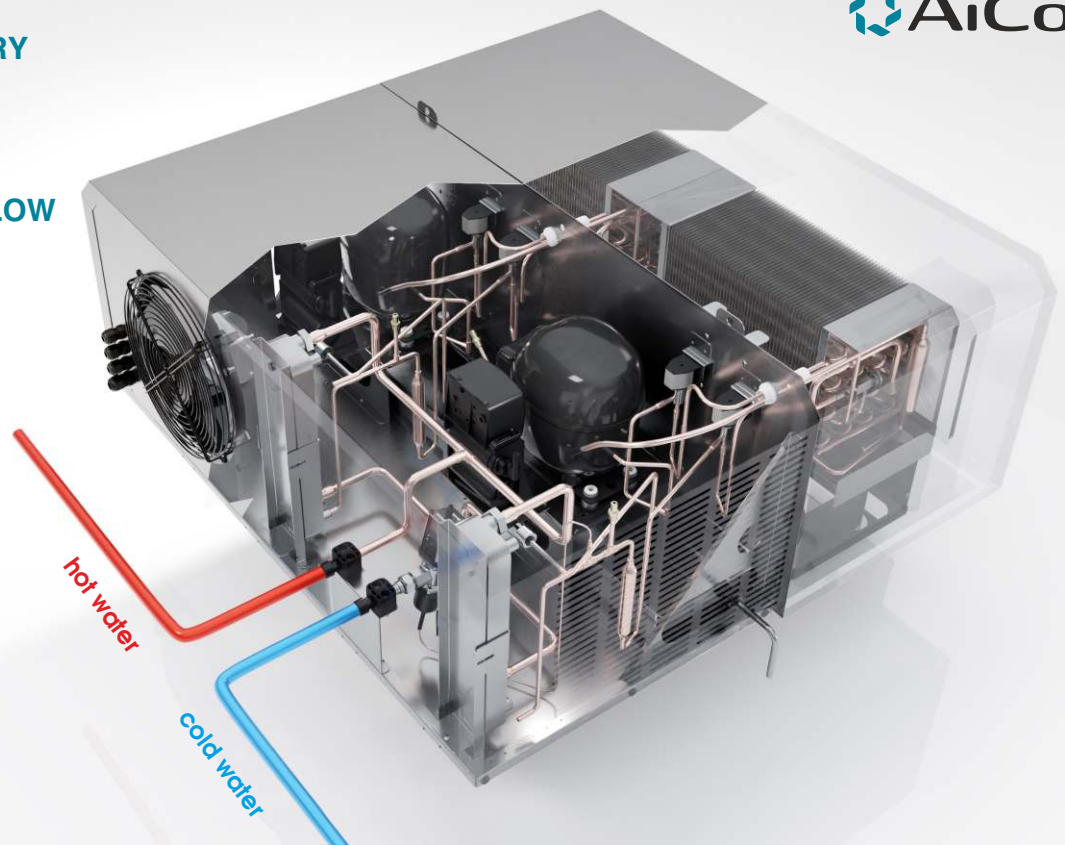
MONOBLOCK APPLICATION IN ROLLED ICE CREAM MACHINES – X-RAY VIEW



HEAT RECOVERY SYSTEM



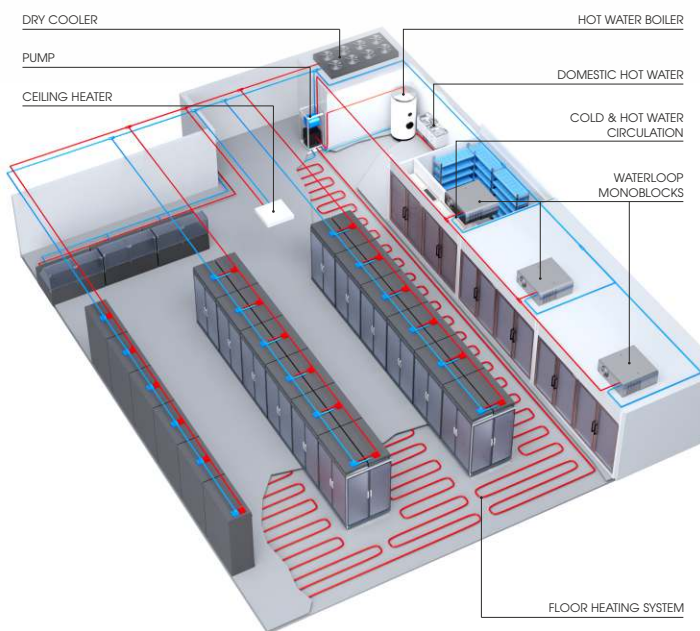
GREENFLOW LOOP



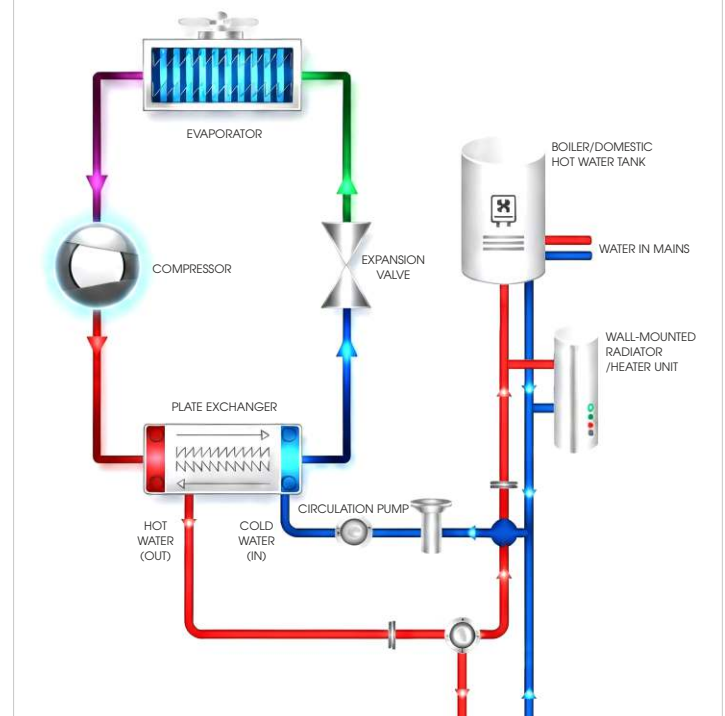
Waterloop monoblocks with plate condensers – efficient heat recovery and smart energy reuse.

Waterloop refrigeration systems are designed so that heat recovered from the cooling process can be used to heat domestic hot water or support space heating. This enhances the building’s energy efficiency and supports compliance with HACCP requirements.

SUPERMARKET WITH PLUG-IN UNITS – HOT WATER DISTRIBUTION EXAMPLE



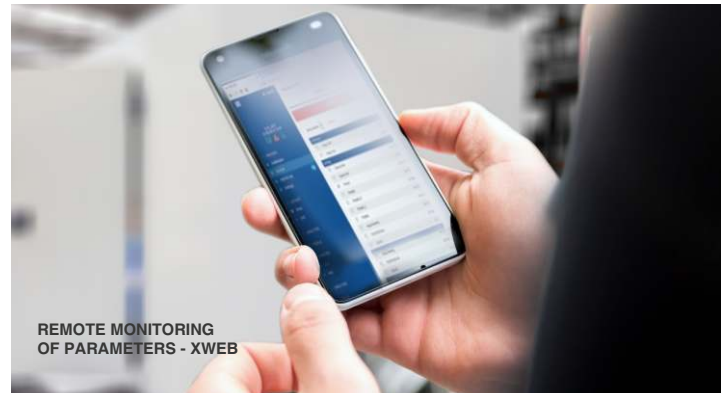
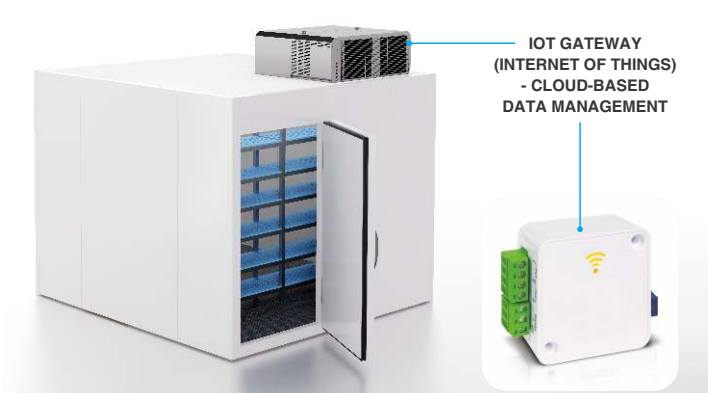
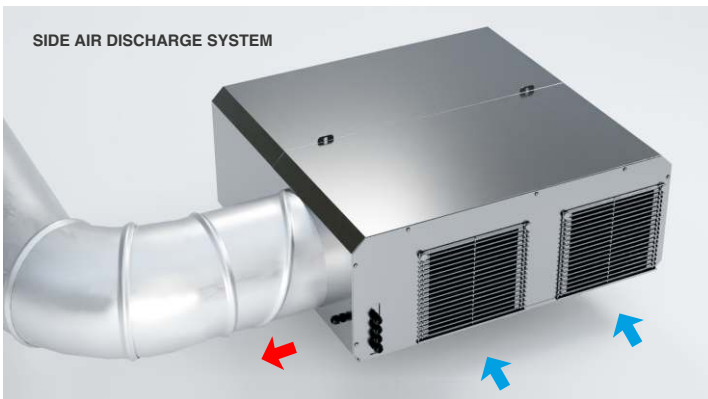
HEAT RECOVERY WATER LOOP – MONOBLOCK REFRIGERATION DIAGRAM





Engineering expertise and modern production line, enables us to deliver innovative and reliable solutions.

The dual-mode monoblock combines refrigeration and freezing in one unit, switchable with a single button. Inverter compressors, universal power supply, and modulated cooling make it an energy-efficient solution for global markets.





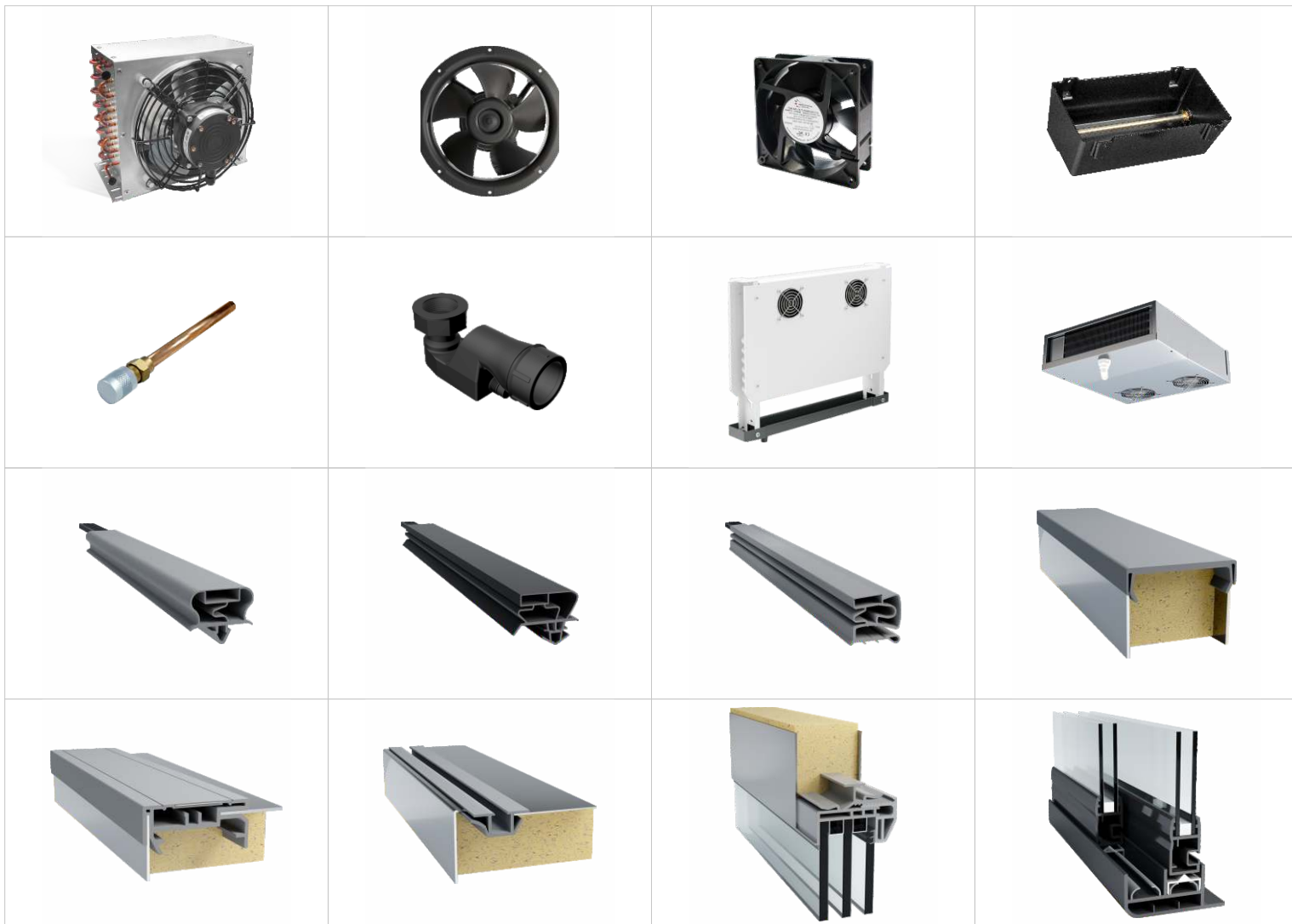
Production of refrigeration and freezer monoblocks in series and on individual request.

AiCool monoblocks are offered in standard series and fully customizable versions. Each unit can be adapted to specific customer needs, including cooling capacity, dimensions, and other technical parameters.



AiCool

POWERED BY AiFO



Discover more products from AiFO Components – www.aifo.pl

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