

ARCTIC

MONOBLOCK

by MB FRIGO



R290

models and technical specifications



ARCTIC MONOBLOCK

FEATURES

- compact design
- "all in one" solution for coldrooms up to 20 m³
- coldroom wall thickness up to do 120 mm
- simple installation
- light and cooling switch
- hot gas defrost
- CE ("declaration of conformity")
- R290 natural refrigerant (except some models)

EQUIPMENT

- hermetic compressor
- electrical cabinet with electronic controller
- housing with anticorrosive protection
- air cooled condenser
- dynamic evaporator
- solenoid valve for hot gas defrost
- capillary tube/TXV
- filter drier
- protective pressure switch HP/LP
- condensate pipe heater
- condensate collector with overflow pipe

PREINSTALLED CABLING

- for coldroom light
- for door switch
- for door hinge heater (LT models)

MODELS

MT			LT		
opera code	type	refrigerant	opera code	type	refrigerant
64001	SCR012	R290	64189	SCK150	R290
64187	SCR058	R290	64191	SCL150	R452A
64188	SCR034	R290	64190	ACK210	R290
64000	ACR100	R290	64192	ACL220	R452A
-	-	-	64193	ACL300	R452A

TECHNICAL SPECIFICATIONS

			MT		
			SCR012	SCR058	SCR034
Unit	Power supply	(Volt/ph/Hz)	230/1/50		
	Power input	(W)	730	920	1160
	Compressor	(m ³ /h)	2,11	2,49	3,03
	Comp. type	-	hermetic		
	Refrigerant	-	R290		
	Defrost	(el./hot gas)	hot gas		
	Defrost draw	(W)	/		
Condenser	Fans	(nxΦ)	1x254		
	Airflow	(m ³ /h)	1050		
Evaporator	Fans	(nxΦ)	1x200		
	Airflow	(m ³ /h)	550		
	Air throw	(m)	5		

SELECTION TABLE

			MT		
			SCR012	SCR058	SCR034
Tamb 20°C	Tc 5°C	W	1065	1295	1495
		m ³	11	15	17
	Tc 0°C	W	860	1100	1270
		m ³	8,4	11,5	14
	Tc -5°C	W	725	855	1060
		m ³	6	7,5	9,4
Tamb 32°C	Tc 5°C	W	970	1070	1265
		m ³	9	11	13,2
	Tc 0°C	W	785	855	980
		m ³	6,5	7,5	9,6
	Tc -5°C	W	660	755	845
		m ³	4,8	5,8	7,2
Tamb 43°C	Tc 5°C	W	710	880	1040
		m ³	5,8	7	8,8
	Tc 0°C	W	625	690	835
		m ³	3,6	4,2	5,2
	Tc -5°C	W	495	545	670
		m ³	3	3,4	4,3

*selection table for 100 mm wall thickness, for 80 mm wall thickness use 0.8 coefficient



TECHNICAL SPECIFICATIONS

			LT	
			SCK150	SCL150
Unit	Power supply	(Volt/ph/Hz)	230/1/50	
	Power input	(W)	1350	1350
	Compressor	(m ³ /h)	4,84	4,84
	Comp. type	-	hermetic	
	Refrigerant	-	R290	R452A
	Defrost	(el./hot gas)	hot gas	
	Defrost draw	(W)	/	
Condenser	Fans	(nxΦ)	1x254	
	Airflow	(m ³ /h)	1050	
Evaporator	Fans	(nxΦ)	1x200	
	Airflow	(m ³ /h)	550	
	Air throw	(m)	5	

SELECTION TABLE

			LT	
			SCK150	SCL150
Tamb 20°C	Thl -18°C	W	950	1295
		m ³	10,2	13
	Thl -22°C	W	820	1084
		m ³	8,2	10,9
Tamb 32°C	Thl -18°C	W	810	948
		m ³	6,6	8,2
	Thl -22°C	W	620	780
		m ³	4,8	5,4
Tamb 43°C	Thl -18°C	W	640	710
		m ³	5	6,1
	Thl -22°C	W	495	538
		m ³	3,8	3,9
Thl -25°C	W	455	443	
	m ³	3	3	

*selection table for 100 mm wall thickness, for 80 mm wall thickness use 0.8 coefficient



TECHNICAL SPECIFICATIONS

MT

ACR100

Unit	Power supply	(Volt/ph/Hz)	230/1/50
	Power input	(W)	1410
	Compressor	(m ³ /h)	3,89
	Comp. type	-	hermetic
	Refrigerant	-	R290
	Defrost	(el./hot gas)	hot gas
	Defrost draw	(W)	/
Condenser	Fans	(nxΦ)	2x254
	Airflow	(m ³ /h)	2100
Evaporator	Fans	(nxΦ)	2x200
	Airflow	(m ³ /h)	1100
	Air throw	(m)	5

SELECTION TABLE

MT

ACR100

Tamb 20°C	Thl 5°C	W	2400
		m ³	26,1
	Thl 0°C	W	2026
		m ³	19,71
	Thl -5°C	W	1715
		m ³	14,7
Tamb 32°C	Thl 5°C	W	1953
		m ³	19,6
	Thl 0°C	W	1629
		m ³	14,9
	Thl -5°C	W	1381
		m ³	11
Tamb 43°C	Thl 5°C	W	1660
		m ³	14,5
	Thl 0°C	W	1357
		m ³	10,1
	Thl -5°C	W	1173
		m ³	7,9

*selection table for 100 mm wall thickness, for 80 mm wall thickness use 0.8 coefficient



TECHNICAL SPECIFICATIONS

			LT		
			ACK210	ACL220	ACL300
Unit	Power supply	(Volt/ph/Hz)	230/1/50		400/3/50
	Power input	(W)	1460	1810	2400
	Compressor	(m ³ /h)	5,99	9,29	12,96
	Comp. type	-	hermetic		
	Refrigerant	-	R290	R452A	
	Defrost	(el./hot gas)	hot gas		
	Defrost draw	(W)	/		
Condenser	Fans	(nxΦ)	2x254		1x300
	Airflow	(m ³ /h)	2100		1610
Evaporator	Fans	(nxΦ)	2x200		1x300
	Airflow	(m ³ /h)	1100		1770
	Air throw	(m)	5		7,5

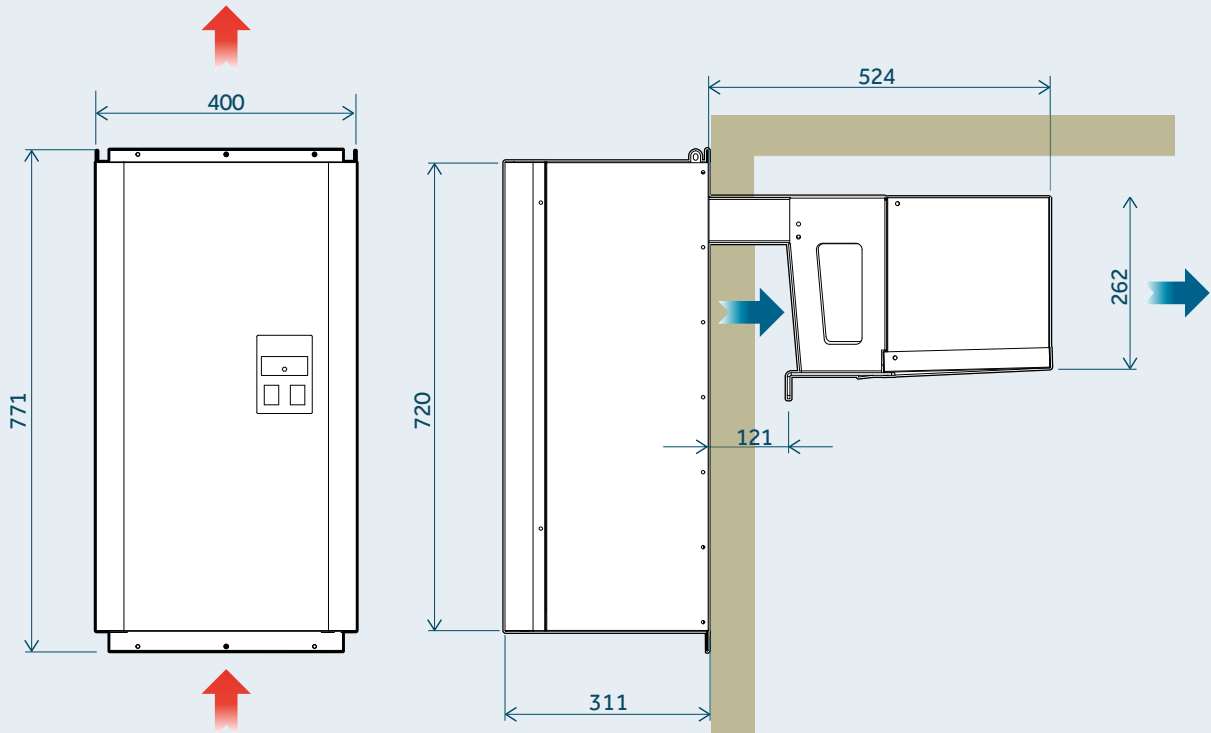
SELECTION TABLE

			LT		
			ACK210	ACL220	ACL300
Tamb 20°C	Thl -18°C	W	1210	2022	3110
		m ³	13,4	21,3	38,8
	Thl -22°C	W	950	1720	2652
		m ³	9,4	16,9	30,8
	Thl -25°C	W	865	1511	2334
		m ³	8,5	14	24,8
Tamb 32°C	Thl -18°C	W	1020	1566	2535
		m ³	10	14,2	27,7
	Thl -22°C	W	810	1310	2125
		m ³	7	10,6	21,2
	Thl -25°C	W	690	1133	1887
		m ³	5,2	8,6	17
Tamb 43°C	Thl -18°C	W	710	1215	2037
		m ³	6,6	10,1	20,7
	Thl -22°C	W	570	994	1687
		m ³	4,4	7,5	15,5
	Thl -25°C	W	510	844	1455
		m ³	3,6	5,8	12,7

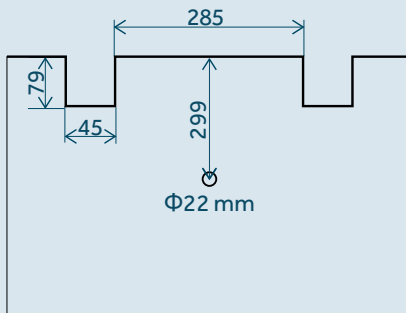
*selection table for 100 mm wall thickness, for 80 mm wall thickness use 0.8 coefficient



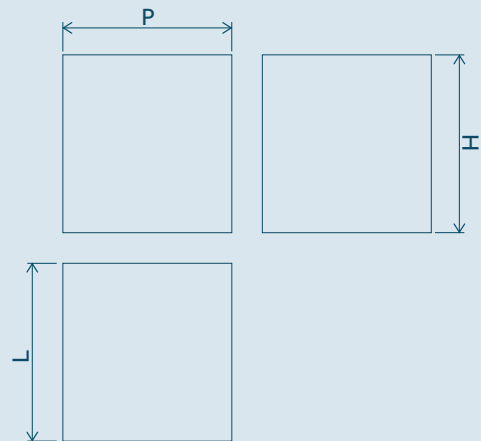
DIMENSIONS



MOUNTING

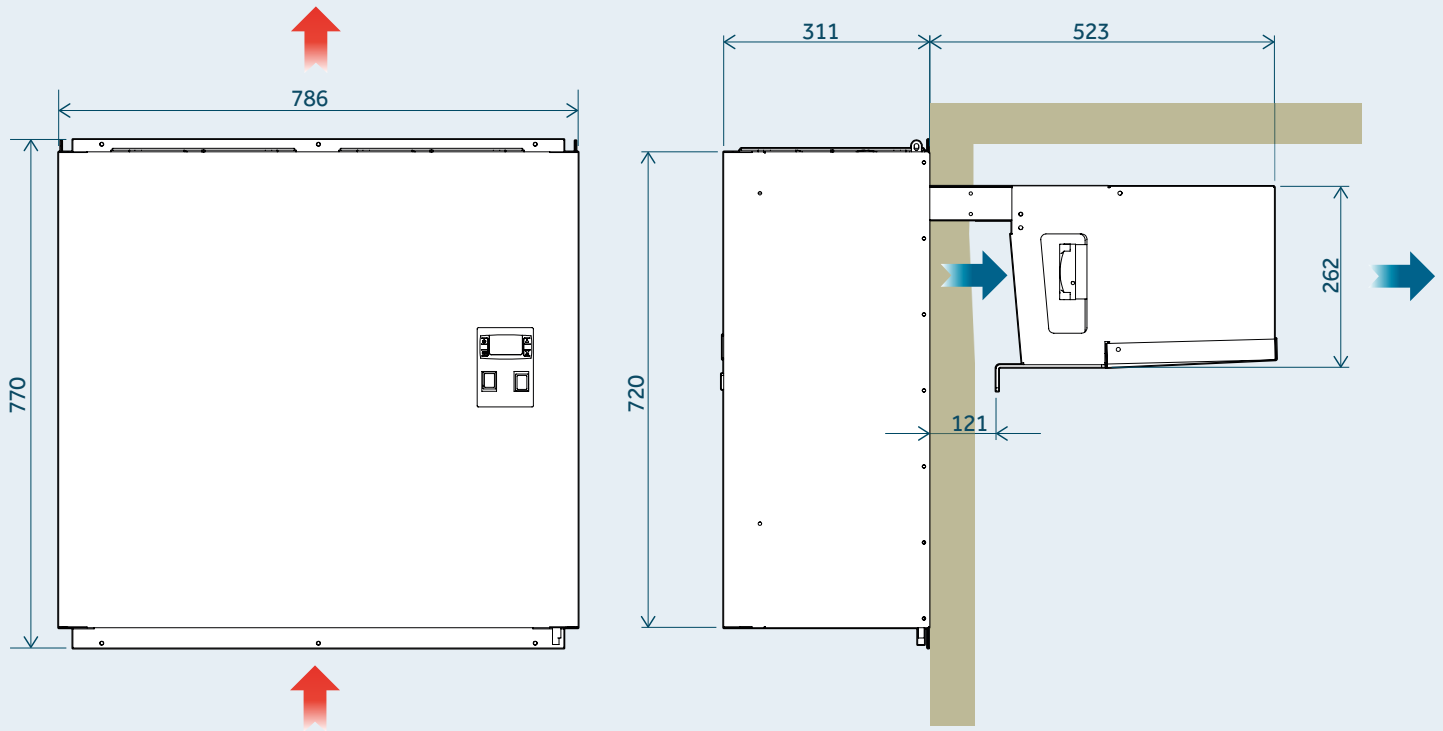


PACKAGING DIMENSIONS

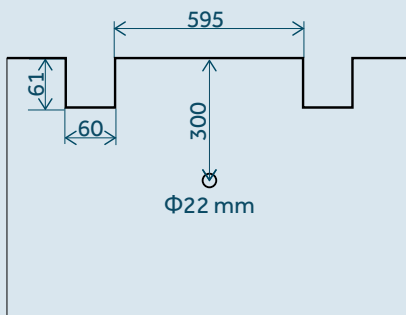


	SCR012	SCR058	SCR034	SCK150	SCL150
PxLxH (m)	450x900x920				
Mass nett (kg)	44		48		52
Mass gross (kg)	53		57		61

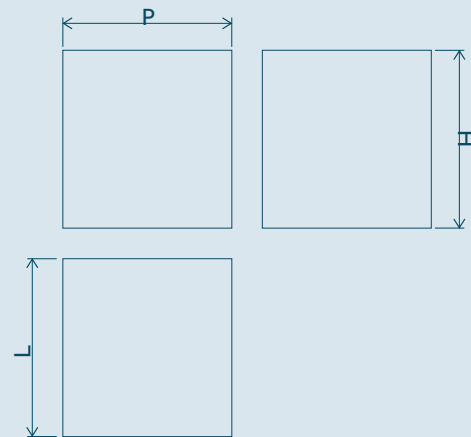
DIMENSIONS



MOUNTING



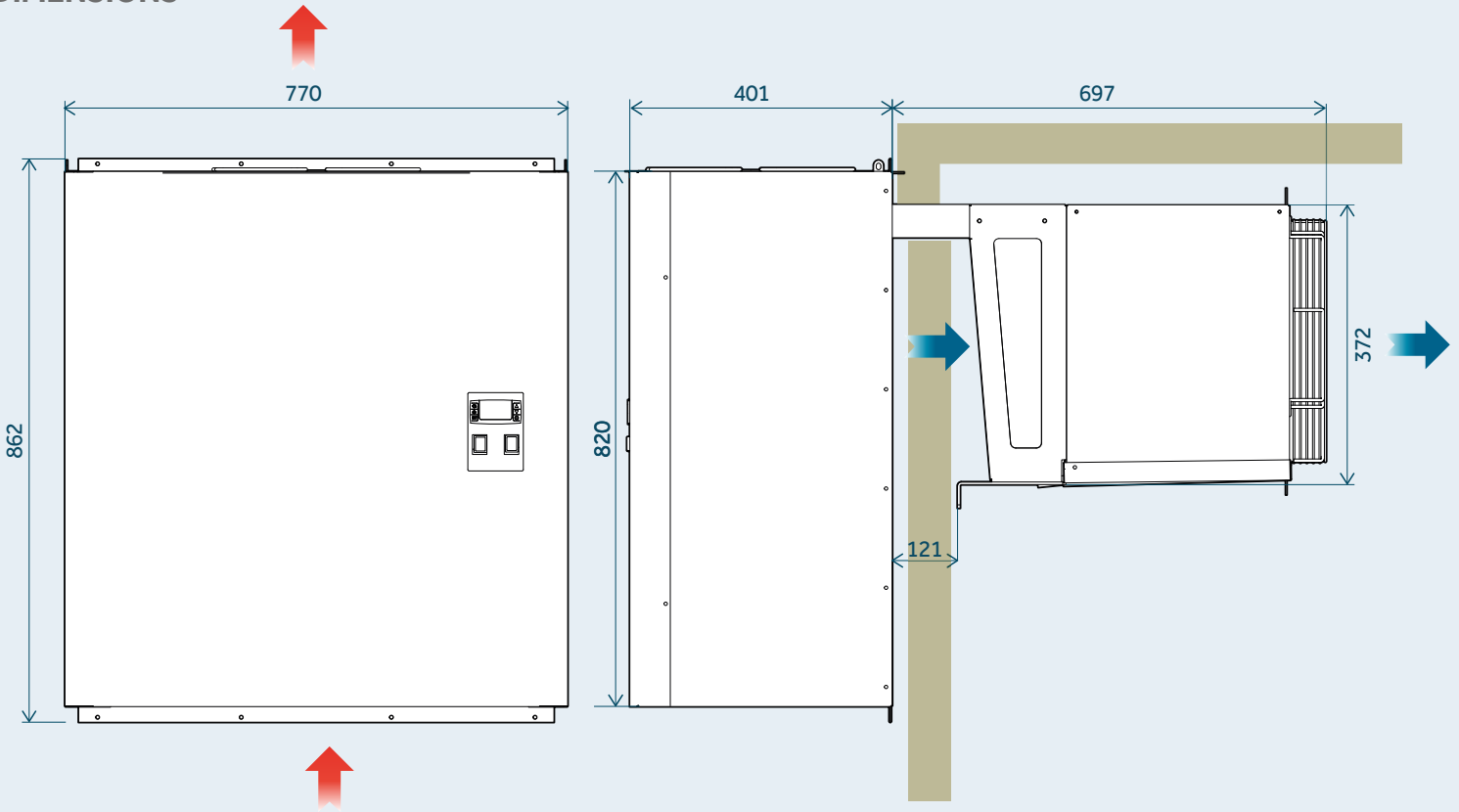
PACKAGING DIMENSIONS



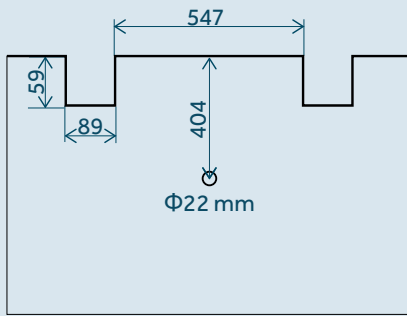
	ACR100	ACK210	ACL220
PxLxH (m)	830x900x920		
Masa neto (kg)	73		83
Masa bruto (kg)	85		95

ACL300

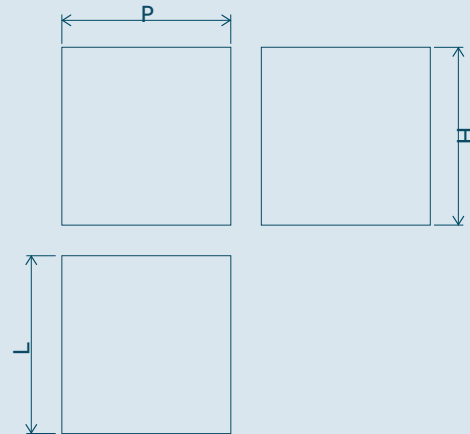
DIMENSIONS



MOUNTING



PACKAGING DIMENSIONS



ACL300	
PxLxH (m)	840x1160x1030
Mass nett (kg)	93
Mass gross (kg)	129

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