

# Interklima®

AIR COOLED

WATER

CHILLERS

Technology  
& design



ISO 9001

AIR-TO WATER

HEAT

PUMPS

**Series MPCA 44kW-176kW**

# TECHNICAL DATA TABLE

Type		MPCA-044		MPCA-053		MPCA-060		MPCA-070		MPCA-088	
		R407c	R22	R407c	R22	R407c	R22	R407c	R22	R407c	R22
Nominal cooling capacity	kw	42,2	44	50,7	52,8	59,1	61,6	67,6	70,4	84,5	88
	RT	12	12,5	14,4	15	16,8	17,5	19,2	20	24	25
	Btu/h	144000	150000	173000	180000	201700	210000	230700	240000	288300	300000
Nominal heating capacity	kw	49,3	51,4	58,5	62,2	69,1	72,0	79,2	82,5	100,3	104,5
	kcal/h	42.398	44.204	50.310	53.492	59.426	61.920	68.112	70.950	86.258	89.870
Construction	Material/Color	Galvanized steel/Ligth grey-beige(RAL 9002)									
Compressor		HERMETIC(SCROLL/RECIPROCATING)									
Quantity	pcs	2		2		2		2		2	
Capacity steps		2		2		2		2		2	
Absorbed power (cooling/heating)	kw	14,9/16,5		18,2/19,6		21,6/22,8		25,0/26,2		31,4/33,5	
Nominal operating current	A	22,0/23,7		27,4/28,9		31,8/33,2		33,3/34,7		44,9/47,4	
Maximum operating current	A	27,8		35,8		38,4		51,2		55,6	
Condenser		High capacity cross finned coil with internally finned tubes and louver fins									
Evaporator		Shell and Tube									
Quantity	pcs	1									
Water content	lit	8,0		9,7		11,4		17,8		16,1	
Max. Operating pressure	water side bar	10									
	Refrigerant side bar	24,5									
Connections		1 1/2"		2 1/2"		2 1/2"		2 1/2"		2 1/2"	
Nominal water flow	lit/h	7.568		9082		10.595		12.109		15.136	
Water pressure drop	kpa	32,6		37,9		37,7		20,9		28,5	
Minimum system water contact	lit	200		240		280		320		400	
Fan											
Quantity		2		2		2		2		2	
Speed	rpm	800									
Total air flow	m <sup>3</sup> /h	17.600		17.200		16.400		16.400		25.000	
Absorbed power	kw	1,0		1,0		1,0		1,0		1,5	
Nominal operating current	A	1,8		1,8		1,8		1,8		2,7	
Maximum operating current	A	2,4		2,4		2,4		2,4		3,6	
Electrical characteristics		Electric network 380-415 V/3Ph/50Hz									
Total absorbed power (cooling/heating)	kw	15,9/17,5		19,2/20,6		22,6/23,8		26,0/27,2		32,9/35,0	
Nominal operating current	A	23,8/25,5		29,2/30,7		33,6/35,0		35,1/36,5		47,6/50,1	
Maximum operating current	A	30,2		38,2		40,8		53,6		59,2	
Compressor carter resistance power	water side bar	70		140		140		140		140	
Power cables cross section	mm <sup>2</sup>	10		10		16		25		25	
Fuses	A	3x40		3x63		3x63		3x80		3x80	
Voltage operating limits	V	350-450V									
Refrigerant circuit											
Number of circuits		2		2		2		2		2	
Expansion device		Restrictor								Ther.Exp.Val.	
Refrigerant type		R22 or R407C									
Noise level at 3m	dbA	62		62		62		62		65	
Dimensions	Width	mm 1.100		mm 1.100		mm 1.100		mm 1.100		mm 1.100	
	Length	mm 2.362		mm 2.362		mm 2.362		mm 2.362		mm 3.168	
	Height	mm 1325		mm 1326		mm 1325		mm 1326		mm 1325	
Shipping weight	kg	676		688		695		725		828	

Cooling conditions:

Ambient temperature 35°C DB

Water temperature 7°C/12°C DB

Heating conditions:

Air temperature 7°C DB.Relative humidity 85%

Water temperature 45°C/40°C.

## TECHNICAL DATA TABLE

Type		MPCA-105		MPCA-123		MPCA-141		MPCA-158		MPCA-176	
		R407c	R22	R407c	R22	R407c	R22	R407c	R22	R407c	R22
Nominal cooling capacity	kw	101,4	105,6	118,3	123,2	135,2	140,8	152,1	158,4	169	176
	RT	28,8	30	33,6	35	38,5	40	43,2	45	48	50
	Btu/h	346000	360000	403700	420000	461300	480000	519000	540000	576600	600000
Nominal heating capacity	kw	115,2	120,0	133,2	138,8	157,4	164,0	179,0	186,5	199,5	207,8
	kcal/h	99.072	103.200	114.552	119.368	135.364	141.040	153.940	160.390	171.570	178.708
Construction	Material/Color	Galvanized steel/Ligth grey-beige(RAL 9002)									
Compressor		ACCESSIBLE HERMETIC or SCROLL									
Quantity		2		2		2		2		2	
Capacity steps		4		4		4		4		4	
Absorbed power (cooling/heating)	kw	35,2/35,6		42,0/42,4		50,2/49,9		54,6/51,4		63,5/65,1	
Nominal operating current	A	50,9/51,3		63,6/64,0		73,6/73,0		80,0/75,2		113,4/115,8	
Maximum operating current	A	65,4		82		96		96		131	
Condenser		High capacity cross finned coil with internally finned tubes and louver fins									
Evaporator		Shell and Tube									
Quantity		1									
Water content	lit	16,1		20,4		30,1		40,8		34,3	
Max. Operating pressure	water side bar	10									
	Refrigerant side bar	24,5									
Connections		3"		3"		3"		DN 100		DN 100S	
Nominal water flow	lit/h	18.163		21.190		24.218		27.245		30.272	
Water pressure drop	kpa	39,5		42,8		20,3		17,9		26,9	
Minimum system water connect	lit	470		550		640		710		780	
Fan											
Quantity		4		6		6		6		6	
Speed	rpm	800									
Total air flow	m3/h	31.800		48.000		45.600		44.000		41.500	
Absorbed power	kw	2,0		3,0		3,0		3,0		3,0	
Nominal operating current	A	3,6		5,4		5,4		5,4		5,4	
Maximum operating current	A	4,8		7,2		7,2		7,2		7,2	
Electrical characteristics		Electric network 380-415 V/3Ph/50Hz									
Total absorbed power (cooling/heating)	kw	37,2/37,6		45,0/45,4		53,2/52,9		57,6/54,4		60,5/68,1	
Nominal operating current	A	54,5/54,9		69,0/69,4		79,0/78,4		85,4/80,6		118,4/121,2	
Maximum operating current	A	70,2		89,2		103,2		103,2		138,2	
Compressor carter resistance power	W	200		200		200		200		200	
Power cables cross section	mm2	25		25		35		35		70	
Fuses	A	3X100		3X125		3X125		3X125		3X160	
Voltage operating limits	V	350-450V									
Refrigerant circuit											
Number of circuits		2		2		2		2		2	
Expansion device		Thermal expansion valve									
Refrigerant type		R22 or R407C									
Noise level at 3m	dbA	66		67		67		67		67	
Dimensions	Width	mm 1.910		mm 1.910		mm 1.910		mm 1.910		mm 1.910	
	Length	mm 2.600		mm 3.406		mm 3.406		mm 3.406		mm 3.406	
	Height	mm 1.650		mm 1.650		mm 1.650		mm 1.650		mm 1.650	
Shipping weight	kg	1.149		1.319		1.432		1.441		1.537	



All specification and data subject to change without notice.

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**Interklima S.A.**  
MANUFACTURERS OF AIR CONDITIONING EQUIPMENT

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