TECHNICAL MANUAL - Translation of the original

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4.1 SM TORINO 205/225

Climatic Class 3 ta: +25 ℃ / 60% U.R. (EN 441)

Dimensional characteristics

Description	U.m.	TORINO BT 205 *Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*				TORINO BT 225 *Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*			
		2P	3P	4P	5P	2P	3P	4P	5P
Lenght without side walls	mm	1564	2341	3120	3899	1564	2341	3120	3899
Lenght with side walls		1734	2511	3290	4069	1734	2511	3290	4069
Couple side walls thickness		170				170			
Height		2072				2272			
Shelves' rows	N°	4				5			
Shelves depth	mm	600				600			
Display area	m²	4,61	6,91	9,20	11,50	5,55	8,31	11,08	13,84
Refrigerated Volume	dm³	1292	1934	2577	321	1498	2243	2989	3735
Evaporator fans	N°xW	2X10/43	3x10/43	4x10/43	5x10/43	2X10/43	3x10/43	4x10/43	5x10/43

Electrical characteristics

Description	U.m.	TORINO BT 205				TORINO BT 225			
		Product class L1 *-18 ℃ (-23 ℃ ÷ -25 ℃)*				*Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*			
		2P	3P	4P	5P	2P	3P	4P	5P
Defrosting	type	Electric				Electric			
N°cycle / 24 h - minimum time	min.	N°3 x ca. 20 minutes				N°3 x ca. 20 minutes			
Defrost heater	N°xWatt	4X500+1X125	4X750+X185	4X100 0+1X250	4X1250+1X310	4X500+1X125	4X750+X185	4X1000+1X 250	4X1250+1X310
Door - Frame Defrosting	Wat	550	750	1000	1250	600	900	1100	1350
Lighting	N°Watt	3x58	4x58	5x58	6x58	3x58	4x58	5x58	6x58
Nominal power[1]	Watt	3050	4450	5900	7350	3100	4600	6000	7450
DEC[2]	kWh/24h	21,0	29,0	38,0	47,0	22,5	32,5	41,0	50,0
Supply	Volt / Hz / Ph	400V 50 Hz (III+N) / 230V 50Hz (III+N)				400V 50 Hz (III+N) / 230V 50Hz (III+N)			
Deducted electric power with hot gas	W	-2000	-3000	-4000	-5000	-2000	-3000	-4000	-5000
Deducted electric power with electronic fans	W	-50	-75	-100	-125	-50	-75	-100	-125
Deducted electric power with electronic ballasts	W	-100	-130	-160	-200	-100	-130	-160	-200

Refrigeration characteristics

Description	U.m.	TORINO BT 205				TORINO BT 225			
		Product class L1 *-18 ℃ (-23 ℃ ÷ -25 ℃)*				*Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*			
		2P	3P	4P	5P	2P	3P	4P	5P
Pressure/Temp. evaporation	bar / ℃	0,6 / -35 R404A				0,6 / -35 R404A			
Refrigerant	type								
Thermostatic Valve (Danfoss)		TES 2-06 (or.02)	TES 2-06 (or.03)	TES 2-12 (or.03)	TES 2-17 (or.04)	TES 2-06 (or.02)	TES 2-06 (or.03)	TES 2-12 (or.03)	TES 2-17 (or.04)
Electron tube		AKV 10.3	AKV 10.4	AKV 10.4	AKV 10.5	AKV 10.3	AKV 10.4	AKV 10.4	AKV 10.5
End defrosting thermostat		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic

Refrigeration load

Operating temperature [℃]	Average evaporation temperature *[℃]*	*Refrigerator absorbtion per m/l*	U.m.	TORINO BT 205				TORINO BT 225			
				Heat extraction for cabinet length (EN ISO 23953 part 2)				*Heat extraction for cabinet length (EN ISO 23953 part 2)*			
				2P	3P	4P	5P	2P	3P	4P	5P
-20 / -22	- 35	750	W/m	1170	1750	2340	2930				
-20 / -22	- 35	880	W/m					1380	2060	2750	3440

1) Nominal power included defrosting strengths, but excluded side walls
2) Electrical consumption with defrosting strengths, but excluded side walls (20 min x defrosting)
**The manufacturing Company reserves the right to modify the data contained in this table*

1 - The absorbtion provided on the above table relate to the mobile installed on a range of a centralized installation where doesn't work simultaneously more than 75% of cabinets. In the case of a single cabinet or maximum installed in line with two other cabinets, the indicated values should be increased by 30%.

4.2 SM MILANO WITH TWO EVAPORATORES - body

Climatic Class 3 ta: +25 ℃ / 60% U.R. (EN 441)

Dimensional characteristics

Description	U.m.	BODY MILANO BT *Product class L1* *-18* ℃ (-23 ℃ ÷ -25 ℃)		
		1875	2500	3750
Lenght without side walls	mm	1875	2500	3750
Lenght with side walls		2060	2685	3935
Couple side walls thickness		185		
Height		890		
Load height		270		
Depth		840		
Net weight (without side walls)	kg	203	270	405
Net weight side walls		60		
Display area	m²	1,58	2,10	3,15
Refrigerated Volume	dm³	425	567	851
Evaporator fans	N°xW	3x6 W	4x6 W	6x6 W

Electrical characteristics

Description	U.m.	**BODY MILANO BT** *Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750

Fun	type	4715 MS23 TB10 A00		
Defrosting	type	Electric		
N°cycle / 24 h - minimum time	N°/ min.	N°3 x ca. 25 minutes		
Defrost heater	N°xWatt	3x610+2x187	3x812+2x250	3x12 20+2x375
Anti-mist heater inferior glass	N°x'Watt	2x67W	2x91W	2x138W
Anti-mist out air		1x55W	1x74W	1x112W
Anti-mist handrail		2x36W	2x45W	2x62W
Anti-mist for 1 inferior side glass		1x27W	1x27W	1x27W
Anti-mist for 1 side handrail		1x17W	1x17W	1x17W
Supply	Volt / Hz	400V 50 Hz (III+N) / 230V 50Hz (III+N)		
Nominal power[1]	Watt	2380	33170	4758
DEC[2]	kWh/24h	6,6	8,7	13,00

Refrigeration characteristics

Description	U.m.	**BODY MILANO BT**		
		Product class L1		
		-18 ℃ (-23 ℃ ÷ -25 ℃)		
		1875	2500	3750

Pressure/Temp. evaporation	bar / ℃	bar 0,6 / -35 ℃		
Refrigerant	type	R404A		
Thermostatic Valve (Danfoss)		TES 2 (or.01)	TES 2 (or.02)	TES 2 (or.03)
Electron tube		AKV 10.2	AKV 10.3	AKV 10.4
Thermostat		Electronic		

Refrigeration load

Operating temperature [℃]	Average evaporation temperature *[℃]*	*Refrigerator absorbtion per m/l*	U.m.	**BODY MILANO BT**		
				Heat extraction for cabinet length (EN ISO 23953 part 2)		
				1875	2500	3750
-20 / -22	- 35	516	W/m	968	1290	1613

1) Nominal power included defrosting strengths, but excluded side walls
2) Electrical consumption with defrosting strengths, but excluded side walls (20 min x defrosting)
* *The manufacturing Company reserves the right to modify the data contained in this table*

1 - The absorbtion provided on the above table relate to the mobile installed on a range of a centralized installation where doesn't work simultaneously more than 75% of cabinets. In the case of a single cabinet or maximum installed in line with two other cabinets, the indicated values should be increased by 30%.

4.3 SM MILANO WITH TWO EVAPORATORES - lift

Climatic Class 3 ta: +25 ℃ / 60% U.R. (EN 441)

Dimensional characteristics

Description	U.m.	**LIFT MILANO BT 205** *Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*			**LIFT MILANO BT 225** *Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750	1875	2500	3750
Lenght without side walls	mm	1875	2500	3750	1875	2500	3750
Lenght with side walls		2060	2685	3935	2060	2685	3935
Couple side walls thickness		185			185		
Height		2068			2068		
Load height		400			400		
Shelves' rows	n°	2			3		
Shelves depth	mm	400			400		
Display area	m²	2,19	2,94	4,39	2,94	3,93	5,89
Refrigerated Volume	dm³	633	844	1266	785	1046	1569
Evaporator fans	N°xW	3x6	4x6	6x6	3x6	4x6	6x6

Electrical characteristics

Description	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
		Product class L1 *-18 ℃ (-23 ℃ ÷ -25 ℃)*			*Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750	1875	2500	3750
Defrosting	type	Electric			Electric		
N°cycle / 24 h - minimum time	min.	N°3 x ca. 25 minutes			N°3 x ca. 25 minutes		
Defrost heater	N°xWatt	2X610+1X187	2X812+1X250	2X12 20+1X375	2X610+1X187	2X812+1X250	2X1220+1X375
Door – Frame Defrosting	Wat	434	577	862	485	635	955
Lighting	Watt	190	240	350	250	315	450
Nominal power[1]	Watt	2353	3127	4655	2464	3260	4848
DEC[2]	kWh/24h	18,6	24,6	36,4	20,6	26,9	39,6
Supply	Volt / Hz / Ph	400V 50 Hz (III+N) / 230V 50Hz (III+N)			400V 50 Hz (III+N) / 230V 50Hz (III+N)		
Anti-condensation heater bottom lift	Watt	166,5	220	316	166,5	220	316
Heater anti-condensation airy lift	Watt	137,5	192	276	137,5	192	276

Refrigeration characteristics

Description	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
		Product class L1			*Product class L1*		
		-18 ℃ (-23 ℃ ÷ -25 ℃)			*-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750	1875	2500	3750
Pressure/Temp. evaporation	bar / ℃	0,6 / -35			0,6 / -35		
Refrigerant	type	R404A			R404A		
Thermostatic Valve (Danfoss)		TES 2 (or.01)	TES 2 (or.02)	TES 2 (or.03)	TES 2 (or.02)	TES 2 (or.03)	TES 2 (or.03)
Electron tube		AKV 10.2	AKV 10.3	AKV 10.4	AKV 10.2	AKV 10.3	AKV 10.4
End defrosting thermostat		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic

Refrigeration load

Operating temperature [℃]	Average evaporation temperature *[℃]*	*Refrigerator absorbtion per m/l*	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
				Heat extraction for cabinet length (EN ISO 23953 part 2)			*Heat extraction for cabinet length (EN ISO 23953 part 2)*		
				1875	2500	3750	1875	2500	3750
-20 / -22	- 35	480	W/m	900	1200	1800			
-20 / -22	- 35	640	W/m				1200	1600	2400

1) Nominal power included defrosting strengths, but excluded side walls
2) Electrical consumption with defrosting strengths, but excluded side walls (20 min x defrosting) and with standard light 12 h ON e 12 h OFF
**The manufacturing Company reserves the right to modify the data contained in this table*

1 - The absorbtion provided on the above table relate to the mobile installed on a range of a centralized installation where doesn't work simultaneously more than 75% of cabinets. In the case of a single cabinet or maximum installed in line with two other cabinets, the indicated values should be increased by 30%.

4.4 SM MILANO WITH ONE EVAPORATORE

Climatic Class 3 ta: +25 ℃ / 60% U.R. (EN 441)

Dimensional characteristics

Description	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
		Product class L1			*Product class L1*		
		-18 ℃ (-23 ℃ ÷ -25 ℃)			*-18* ℃ (-23 ℃ ÷ -25 ℃)		
		1875	2500	3750	1875	2500	3750
Lenght without side walls	mm	1875	2500	3750	1875	2500	3750
Lenght with side walls		2060	2685	3935	2060	2685	3935
Couple side walls thickness		120			120		
Height		2068			2068		
Load height		300			300		
Shelves' rows	n°	2			3		
Display area	m²	3,97	5,30	7,95	4,74	6,32	9,48
Refrigerated Volume	dm³	1000	1350	2000	1150	1550	2300
Evaporator fans	W	110	146	220	110	146	220

Electrical characteristics

Description	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
		Product class L1 *-18 ℃ (-23 ℃ ÷ -25 ℃)*			*Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750	1875	2500	3750
Defrosting	type	Automatico/Elettric			Automatico/Elettric		
N°cycle / 24 h - minimum time	min.	N°2 x ca. 30 minuti			N°2 x ca. 30 minuti		
Defrost heater	Watt	3375	4500	6750	3375	4500	6750
Door – Frame Defrosting	Wat	55	83	138	70	100	175
Lighting	Watt	170	210	300	220	270	380
Nominal power[1]	Watt	4262	5663	8482	4363	5781	8655
DEC[2]	kWh/24h	23,9	31,5	47,2	25,5	33,5	50,1
Supply	Volt / Hz / Ph	400V 50 Hz (III+N) / 230V 50Hz (III+N)			400V 50 Hz (III+N) / 230V 50Hz (III+N)		
Glass doors resistance	Watt	195	260	390	220	295	440
Door - Frame Defrosting	Watt	55	83	138	70	100	175
Frame Defrosting	Watt	184	234	334	195	240	340
Anti-mist out air	Watt	67	91	138	67	91	138
Anti-mist handrail	Watt	180	240	360	180	240	360
Anti-mist handrail		36	45	72	36	45	72
laterale Anti-mist for 1 inferior side glass		27	27	27	27	27	27
Anti-mist for 1 side handrail		17	17	17	17	17	17

Refrigeration characteristics

Description	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
		Product class L1 *-18 ℃ (-23 ℃ ÷ -25 ℃)*			*Product class L1* *-18 ℃ (-23 ℃ ÷ -25 ℃)*		
		1875	2500	3750	1875	2500	3750

Pressure/Temp. evaporation	bar / ℃	-35			-35		
Refrigerant	type	R404A			R404A		
Thermostatic Valve (Danfoss)	R404A	TES 2 - (or.03)	TES 2- (or.03)	TES 2- (or.04)	TES 2 - (or.03)	TES 2- (or.03)	TES 2- (or.04)
	R 22	TEX 2-(or.02)	TEX 2-(or.03)	TEX 2-(or.04)	TEX 2-(or.02)	TEX 2-(or.03)	TEX 2-(or.04)
	R 134A	Ten 2- (OR.03)	Ten 2- (OR.04)	Ten 2- (OR.05)	Ten 2- (OR.03)	Ten 2- (OR.04)	Ten 2- (OR.05)
Eletronic Valve (Danfoss)	R 404A	AKV 10-3	AKV 10-4	AKV 10-5	AKV 10-3	AKV 10-4	AKV 10-5
	R 22	AKV 10-3	AKV 10-4	AKV 10-4	AKV 10-3	AKV 10-4	AKV 10-4

Refrigeration load

Operating temperature [℃]	Average evaporation temperature *[℃]*	U.m.	LIFT MILANO BT 205			LIFT MILANO BT 225		
			Heat extraction for cabinet length (EN ISO 23953 part 2)			*Heat extraction for cabinet length (EN ISO 23953 part 2)*		
			1875	2500	3750	1875	2500	3750
-20 / -22	- 35	W/m	1475	1970	2960			
-20 / -22	- 35	W/m				1555	2075	3115

1) Nominal power included defrosting strengths, but excluded side walls
2) Electrical consumption with defrosting strengths, but excluded side walls (20 min x defrosting) and with standard light 12 h ON e 12 h OFF
**The manufacturing Company reserves the right to modify the data contained in this table*

1 - The absorbtion provided on the above table relate to the mobile installed on a range of a centralized installation where doesn't work simultaneously more than 75% of cabinets. In the case of a single cabinet or maximum installed in line with two other cabinets, the indicated values should be increased by 30%.