



PROPANE (R290) RANGE < 150 g CEILING MONOBLOCK UNITS



Milestones:

Designed to UL 471 standards with pending ETL certification
Low gas charge (<150gr) following norm EN 378

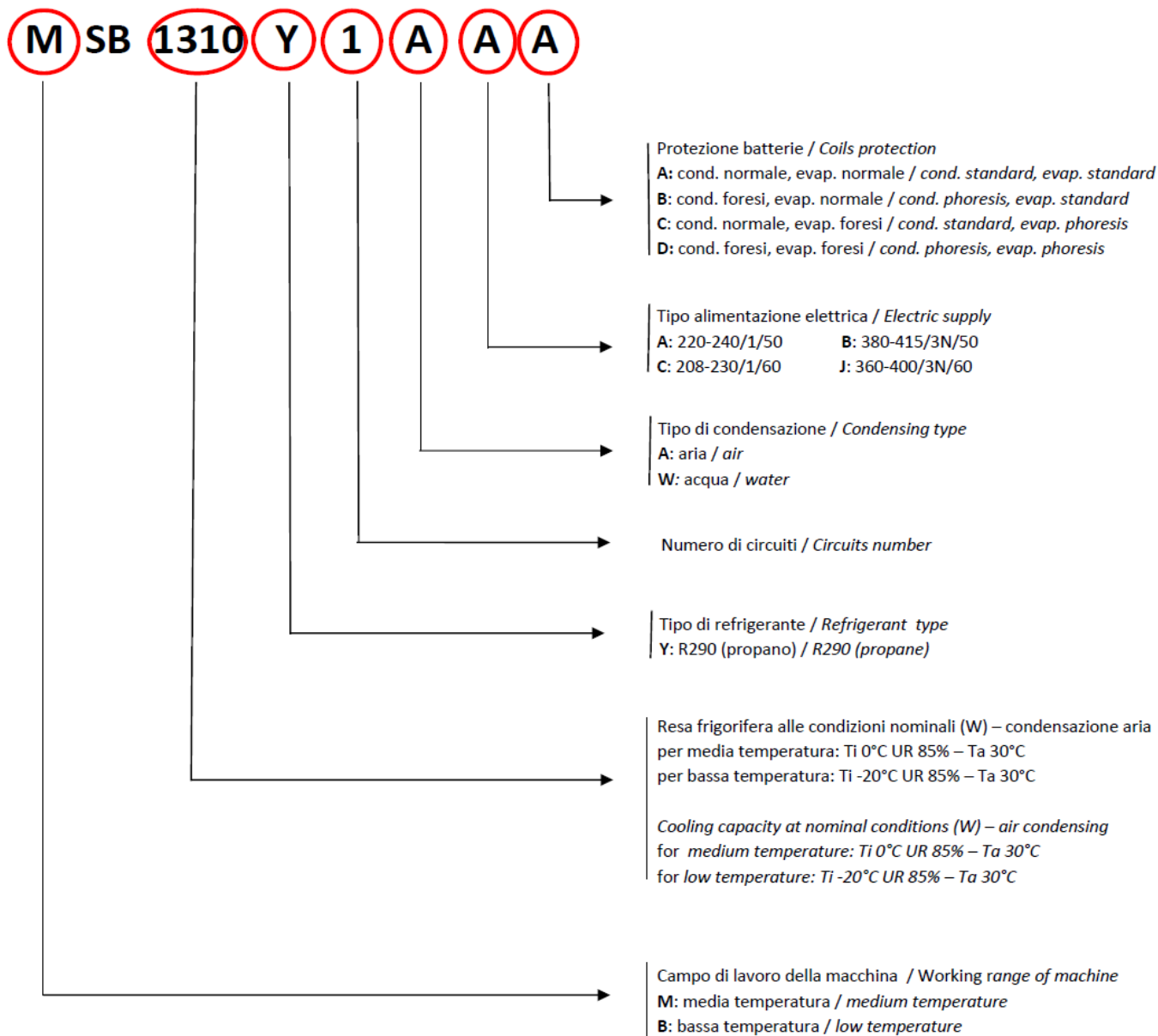
Construction Features:

- Frame and panels in prepainted galvanized steel
- Indoor installation Ambient: Tmin 50°F ↔ Tmax 113°F
- Hermetic piston compressor(s)
- Multiple independent but harmonious refrigeration circuits for larger capacities
- Max refrigerant charge 150 g / circuit
- Air or water cooled evaporator (condenser plates and water solenoid valve)
- Expansion by capillary for air condensation and TXV for water condensation
- Electronic controller Dixell XM670K with sealed relays and contactors
- Serial output, XWEB compatible
- Up to 8 slave machines per master
- Plug connectors for electrical, and accessory cables on multi-circuit models
- HP and LP pressure switches with sealed contacts
- ATEX power relays to the compressors
- Fans with sealed components
- No evaporating water tray → direct drain over the cold room
- Hot gas defrost
- SAE sized pipe connections for water cooled condenser
- No lamp
- Single circuit models available with remote keypad and cable with plug for power
- Cables for: light on evaporator, alarm, micro-switch, door heater cable
- Electric supply available: 208-230/1ph/60hz, 230/3ph/60hz, 360-400/3N/60hz

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COME LEGGERE IL CODICE / HOW TO READ THE CODE



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SB R290 RANGE<150g CATALOGUE

TECHNICAL DATA

Model		MSB1310Y1_AC	MSB2180Y1_AC	MSB3370Y2_AC	MSB5820Y3_AE	BSB0870Y1_AC	BSB1710Y2_AC	BSB2650Y3_AE
electrical	V/ph/hz	220/1/60hz	220/1/60hz	220/1/60hz	230/3/60hz	220/1/60hz	220/1/60hz	230/3/60hz
temp range	°F	23 to 50	23 to 50	23 to 50	23 to 50	-13 to 5	-13 to 5	-13 to 5
nominal cooling capacity	BTU	4,450	7,412	11,491	19,846	3,000	5,831	9,000
Max electrical Power	kW	0.94	1.58	2.51	4.66	1.26	2.49	3.83
Max operating current	A	5.25	7.47	11.32	8.47	6.29	12.02	7.12
Starting current (locked rotor)	A	30.88	40.2	53.66	41.2	37.88	75.2	38.71
Refrigerant		R290	R290	R290	R290	R290	R290	R290
charge	g	140	150	150	150	140	150	150
# circuits		1	1	2	3	1	2	3
PED cataogry		art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3
Compressor								
Compressor type		Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic
starting type		direct	direct	direct	direct	direct	direct	direct
Defrost								
defrost type		hot gas	hot gas	hot gas	hot gas	hot gas	hot gas	hot gas
Electrical Defrost power	kW	0.8	1.4	2.1	4.2	1.2	2.3	3.5
Condenser - Air								
air volume	CFM	358	670	980	1620	358	670	1123
external surface	cubic feet	62	82	116	211	62	82	69
Condenser - Water								
water flow	GPM	1.50	2.47	5.28	9.11	1.23	2.47	3.70
pressure drop	Kpa	9	20	16	33	7	18	35
Evaporator								
air volume	CFM	341	681	838	2011	436	737	1430
external surface	cubic feet	46	72	125	114	50	61	191
air throw	feet	13.12	13.12	32.8	32.8	13.12	13.12	32.8
Dimensions								
Weight	lbs	130	165	225	440	152	225	440
(A x B x C)	mm	719 x 620 x 340	809 x 820 x 360	1044 x 1300 x 410	1044 x 1300 x 520	719 x 620 x 340	924 x 1075 x 360	1044 x 1300 x 520
(D x E x F)	mm	150 x 332 x 382	150 x 332 x 382	242 x 451 x 502	242 x 451 x 502	150 x 332 x 382	143 x 332 x 382	242 x 451 x 502
(G x H x I)	mm	337 x 620 x 620	427 x 820 x 820	542 x 1300 x 820	542 x 1300 x 1075	337 x 620 x 620	542 x 1075 x 820	542 x 1300 x 1075
(Lx M)	mm	550 x 337	750 x 337	750 x 458	962 x 458	550 x 337	750 x 337	962 x 458
Water Pipe	inches	½" G threaded male	½" G threaded male	¾" G threaded male	¾" G threaded male	½" G threaded male	¾" G threaded male	¾" G threaded male

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M $T_i = 23 \text{ to } 50 \text{ }^\circ\text{F}$ / AIR CONDENSING

TECHNICAL DATA

Model		MSB1310Y1AAC	MSB2180Y1AAC	MSB3370Y2AAC	MSB5820Y3AAE
electrical	V/ph/hz	220/1/60hz	220/1/60hz	220/1/60hz	230/3/60hz
temp range	°F	23 to 50	23 to 50	23 to 50	23 to 50
nominal cooling capacity	BTU	4,450	7,412	11,491	19,846
Max electrical Power	kW	0.94	1.58	2.51	4.66
Max operating current	A	5.25	7.47	11.32	8.47
Starting current (locked rotor)	A	30.88	40.2	53.66	41.2
Refrigerant		R290	R290	R290	R290
charge	g	140	150	150	150
# circuits		1	1	2	3
PED cataogy		art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3
Compressor					
Compressor type		Hermetic	Hermetic	Hermetic	Hermetic
starting type		direct	direct	direct	direct
Defrost					
defrost type		hot gas	hot gas	hot gas	hot gas
Electrical Defrost power	kW	0.8	1.4	2.1	4.2
Condenser - Air					
air volume	CFM	358	670	980	1620
external surface	cubic feet	62	82	116	211
Evaporator					
air volume	CFM	341	681	838	2011
external surface	cubic feet	46	72	125	114
air throw	feet	13	13	33	33
Dimensions					
Weight	lbs	130	165	225	440
(A x B x C)	mm	719 x 620 x 340	809 x 820 x 360	1044 x 1300 x 410	1044 x 1300 x 520
(D x E x F)	mm	150 x 332 x 382	150 x 332 x 382	242 x 451 x 502	242 x 451 x 502
(G x H x I)	mm	337 x 620 x 620	427 x 820 x 820	542 x 1300 x 820	542 x 1300 x 1075
(Lx M)	mm	550 x 337	750 x 337	750 x 458	962 x 458
Water Pipe	inches	½" G threaded male	½" G threaded male	¾" G threaded male	¾" G threaded male

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B Ti = -13 to 5 °F / AIR CONDENSING

TECHNICAL DATA

Model		BSB0870Y1AAC	BSB1710Y2AAC	BSB2650Y3AAE
electrical	V/ph/hz	220/1/60hz	220/1/60hz	230/3/60hz
temp range	°F	-13 to 5	-13 to 5	-13 to 5
nominal cooling capacity	BTU	3,000	5,831	9,000
Max electrical Power	kW	1.26	2.49	3.83
Max operating current	A	6.29	12.02	7.12
Starting current (locked rotor)	A	37.88	75.2	38.71
Refrigerant		R290	R290	R290
charge	g	140	150	150
# circuits		1	2	3
PED cataogry		art.4 par.3	art.4 par.3	art.4 par.3
Compressor				
Compressor type		Hermetic	Hermetic	Hermetic
starting type		direct	direct	direct
Defrost				
defrost type		hot gas	hot gas	hot gas
Electrical Defrost power	kW	1.2	2.3	3.5
Condenser - Air				
air volume	CFM	358	670	1123
external surface	cubic feet	62	82	69
Evaporator				
air volume	CFM	436	737	1430
external surface	cubic feet	50	61	191
air throw	feet	13	13	33
Dimensions				
Weight	lbs	152	225	440
(A x B x C)	mm	719 x 620 x 340	924x1075x360	1044 x 1300 x 520
(D x E x F)	mm	150 x 332 x 382	143 x 332 x 382	242 x 451 x 502
(G x H x I)	mm	337 x 620 x 620	542 x 1075 x 820	542 x 1300 x 1075
(Lx M)	mm	550 x 337	750 x 337	962 x 458
Water Pipe	inches	½" G threaded male	¾" G threaded male	¾" G threaded male

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M_{Ti} = 23 to 50 °F / WATER CONDENSING

TECHNICAL DATA

Model		MSB1310Y1WAC	MSB2180Y1WAC	MSB3370Y2WAC	MSB5820Y3WAE
electrical	V/ph/hz	220/1/60hz	220/1/60hz	220/1/60hz	230/3/60hz
temp range	°F	23 to 50	23 to 50	23 to 50	23 to 50
nominal cooling capacity	BTU	4,450	7,412	11,491	19,846
Max electrical Power	kW	0.94	1.58	2.51	4.66
Max operating current	A	5.25	7.47	11.32	8.47
Starting current (locked rotor)	A	30.88	40.2	53.66	41.2
Refrigerant		R290	R290	R290	R290
charge	g	140	150	150	150
# circuits		1	1	2	3
PED cataogy		art.4 par.3	art.4 par.3	art.4 par.3	art.4 par.3
Compressor					
Compressor type		Hermetic	Hermetic	Hermetic	Hermetic
starting type		direct	direct	direct	direct
Defrost					
defrost type		hot gas	hot gas	hot gas	hot gas
Electrical Defrost power	kW	0.8	1.4	2.1	4.2
Condenser - Water					
water flow	GPM	1.49668	2.46512	5.2824	9.11214
pressure drop	Kpa	9	20	16	33
Heat Rejection @ 32F / 68-72 °F water	kW	2.0	3.0	5.0	8.7
Evaporator					
air volume	CFM	340.746	681.492	837.9	2010.96
external surface	cubic feet	46	72	125	114
air throw	feet	13.12	13.12	32.8	32.8
Dimensions					
Weight	lbs	130	165	225	440
(A x B x C)	mm	719 x 620 x 340	809 x 820 x 360	1044 x 1300 x 410	1044 x 1300 x 520
(D x E x F)	mm	150 x 332 x 382	150 x 332 x 382	242 x 451 x 502	242 x 451 x 502
(G x H x I)	mm	337 x 620 x 620	427 x 820 x 820	542 x 1300 x 820	542 x 1300 x 1075
(Lx M)	mm	550 x 337	750 x 337	750 x 458	962 x 458
Water Pipe	inches	½" G threaded male	½" G threaded male	¾" G threaded male	¾" G threaded male

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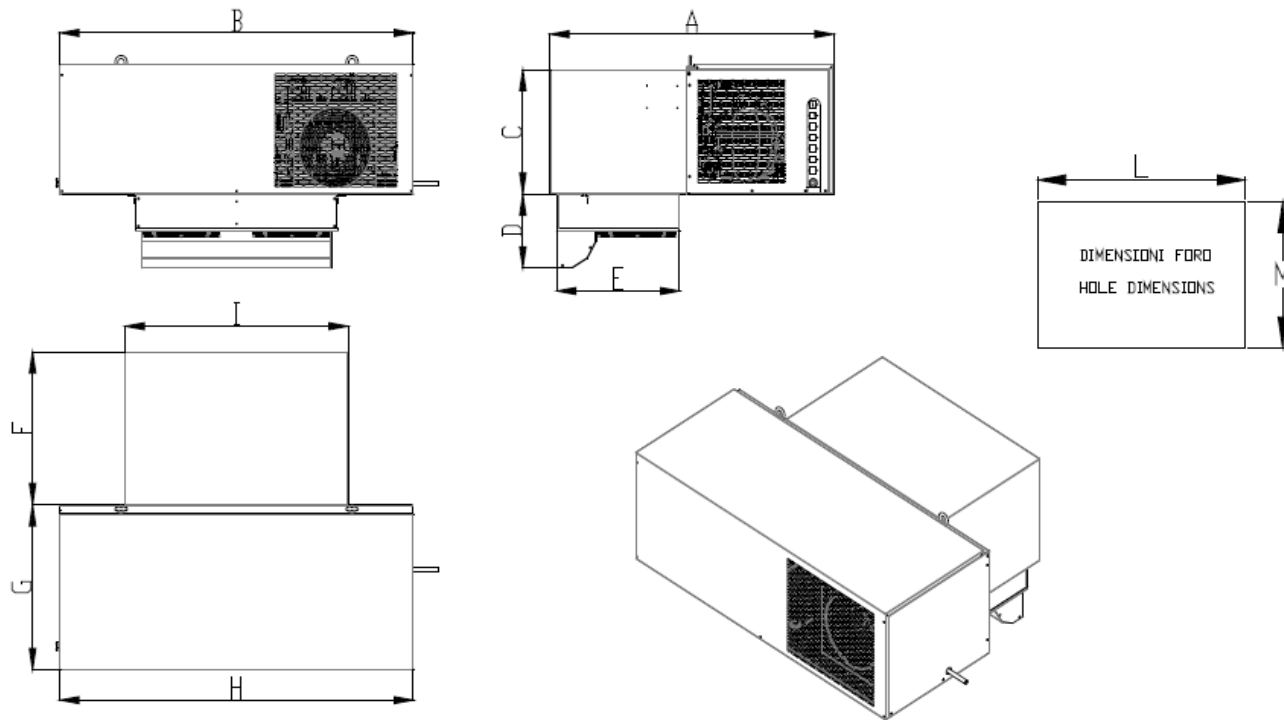
B_{Ti} = -13 to 5 °F / WATER CONDENSING

TECHNICAL DATA

Model		BSB0870Y1WAC	BSB1710Y2WAC	BSB2650Y3WAE
electrical	V/ph/hz	220/1/60hz	220/1/60hz	230/3/60hz
temp range	°F	-13 to 5	-13 to 5	-13 to 5
nominal cooling capacity	BTU	3,000	5,831	9,000
Max electrical Power	kW	1.26	2.49	3.83
Max operating current	A	6.29	12.02	7.12
Starting current (locked rotor)	A	37.88	75.2	38.71
Refrigerant		R290	R290	R290
charge	g	140	150	150
# circuits		1	2	3
PED cataogry		art.4 par.3	art.4 par.3	art.4 par.3
Compressor				
Compressor type		Hermetic	Hermetic	Hermetic
starting type		direct	direct	direct
Defrost				
defrost type		hot gas	hot gas	hot gas
Electrical Defrost power	kW	1.2	2.3	3.5
Condenser - Water				
water flow	GPM	1.23	2.47	3.70
pressure drop	Kpa	7	18	35
Heat Rejection @ 0F / 68-72 °F water	kW	1.7	3.4	5.1
Evaporator				
air volume	CFM	436	737	1430
external surface	cubic feet	50	61	191
air throw	feet	13	13	33
Dimensions				
Weight	lbs	152	225	440
(A x B x C)	mm	719 x 620 x 340	924x1075x360	1044 x 1300 x 520
(D x E x F)	mm	150 x 332 x 382	143 x 332 x 382	242 x 451 x 502
(G x H x I)	mm	337 x 620 x 620	542 x 1075 x 820	542 x 1300 x 1075
(Lx M)	mm	550 x 337	750 x 337	962 x 458
Water Pipe	inches	½" G threaded male	¾" G threaded male	¾" G threaded male

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