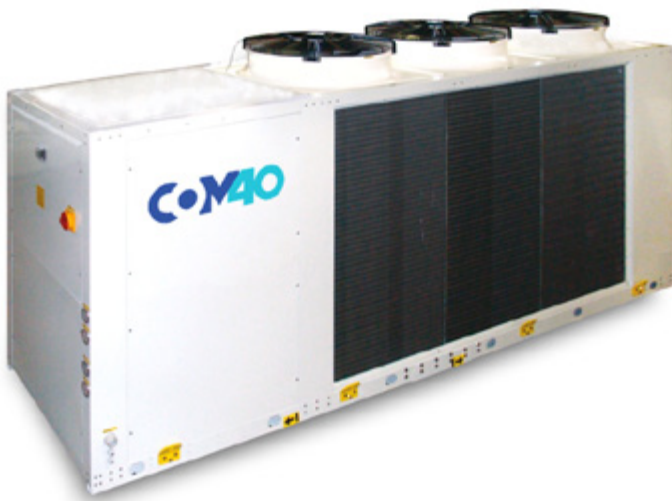




GALAXY EC CONDENSING UNITS

Air cooled condensing units



- **Compact dimensions**
- **Low noise level**
- **Load-bearing and robust structure**
- **Available in a MCS or SUPERSILENT (MCL) version**

The GALAXY EC MCS/MCL is an Air cooled condensing unit for outdoor installation complete with microprocessor control device. Packaged unit assembled in a polyester powder painted galvanised steel frame.

Scroll compressors R410A. Condensing coil with copper pipes mechanically expanded into aluminium fins. Axial fan with rotating stator blades.

The use of EC fans with a brushless motor, and the appropriate rotation speed control, according to the environmental conditions in which the unit operates, optimize the average seasonal efficiency and reduce considerably the noise emissions, particularly when operating at partial loads, that is the condition in which the units mainly operate.

Refrigeration circuit complete with filter drier and liquid/moisture indicator. Microprocessor regulation to control all the working parameters and active components in the

circuit. Fan speed control (by temp. sensor) and condensing coil protection grills supplied as standard. The standard units are equipped with a control panel assembled into steel box and wired. It includes a microprocessor control device which control the compressor working according to a free voltage signal coming from any control device located into the room (p.e room thermostat or duct thermostat). The microprocessor devices manages all the inputs coming from the safety devices on board and the compressor timing. A display screen shows the compressor status and the alarm code when arised. Available versions: MCS and MCL.

The MCL version provides for the use of capacitors with an increased exchange surface, lower fan rotation speed and sound-insulated compressor section.

CUSTOMIZING POSSIBLE FOR DIMENSIONS, CAPACITIES AND TEMPERATURE CONDITIONS.



Accessories

Refrigerants gauges
Compressor crankcase heater
Compressor magnetothermal protection
Rubber antivibration mountings std
Coils with prevarnished fins
Modulating fan speed control



Galaxy EC MCS Technical Data

GALAXY EC MC Standard		082A	102A	122A	152A	123A	133A	153A	134A	154A	126A
Cooling capacity	kW	41,8	52,6	61,9	80,5	89,5	99,7	119,5	124,4	161	183
Power input	kW	16,1	19,7	23	29,5	34,5	37,2	42,8	53	58,7	68,3
Scroll Compressors	n°	2	2	2	2	3	3	3	4	4	6
Refrigerant Circuits	n°	1	1	1	1	1	1	1	2	2	2
Capacity steps	%	2	2	2	2	3	3	3	4	4	6
Supply voltage	V/Ph/Hz	400/3/50									
Max current *	A	36	40,6	48,8	65,8	75,3	84	94,5	109,2	127,4	146,4
Current at start *	A	112,8	131,1	142,2	172,5	166,4	166,4	201,2	188,7	231,8	235,2
FAN SECTION											
Fans	n°	1	1	1	2	2	2	2	2	3	3
Total air flow	m³/s	6,05	5,88	5,88	12,33	12,33	12,33	12,05	11,77	18,33	17,38
Rotation speed	min ⁻¹	880	880	880	880	880	880	880	880	880	880
Power input (single fan)	kW	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9
Current input (single fan)	A	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2
NOISE DATA											
Sound power LwA	dB(A)	79,5	79,5	79,5	83	82,2	82,2	83,7	82,5	85,2	84,3
Sound pressure LpA (2)	dB(A)	47,8	47,8	47,8	51,1	50,3	50,3	51,8	50,7	53,2	52,3
SIZES AND WEIGHT											
Length	mm	1955	1955	1955	3005	3005	3005	3005	3005	4255	4255
Depth	mm	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123
Height	mm	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954
Indicative weight	Kg	528	553	559	701	778	780	832	941	1065	1270

Operating conditions: ambient temp. 35 °C - condensing temp. +5°C D.P.

(2) Measured in free field condition at 10 m distance.



Galaxy EC MCL Technical Data

GALAXY EC MC Low noise		082A	102A	122A	152A	123A	133A	153A	134A	154A	126A
Cooling capacity	kW	40,9	50,6	62,5	77,5	90,4	99,1	116,2	135,1	155,5	170,3
Power input	kW	15,7	19,9	23,6	29,4	33	35,9	42,7	47,8	58,7	69,2
Scroll Compressors	n°	2	2	2	2	3	3	3	4	4	6
Refrigerant Circuits	n°	1	1	1	1	1	1	1	2	2	2
Capacity steps	%	2	2	2	2	3	3	3	4	4	6
Supply voltage	V/Ph/Hz	400/3/50									
Max current *	A	36	40,6	48,8	65,8	75,3	84	94,5	109,2	127,4	146,4
Current at start *	A	112,8	131,1	142,2	172,5	166,4	166,4	201,2	188,7	231,8	235,2
FAN SECTION											
Fans	n°	1	1	2	2	2	2	2	3	3	3
Total air flow	m³/s	4,94	4,66	9,72	9,72	9,33	9,33	9,27	13,77	13,22	13,22
Rotation speed	min ⁻¹	690	690	690	690	690	690	690	690	690	690
Power input (single fan)	kW	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Current input (single fan)	A	2	2	2	2	2	2	2	2	2	2
NOISE DATA											
Sound power LwA	dB(A)	76,4	76,4	78,8	80	79,1	79,1	80,8	80,8	82,3	81,2
Sound pressure LpA (2)	dB(A)	44,7	44,7	546,9	48,2	47,2	47,2	48,9	48,7	50,3	49,1
SIZES AND WEIGHT											
Length	mm	1955	1955	3005	3005	3005	3005	3005	4255	4255	4255
Depth	mm	1123	1123	1123	1123	1123	1123	1123	1123	1123	1123
Height	mm	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954
Indicative weight	Kg	545	570	687	709	795	797	850	1066	1089	1293

Operating conditions: ambient temp. 35 °C - condensing temp. +5°C D.P.

(2) Measured in free field condition at 10 m distance.