

**Information requirements
(air-to-air air conditioners)**

Model(s):ASGE-60B12-3 , ASF-60B12							
Outdoor side heat exchanger of air conditioner	air						
Indoor side heat exchanger of air conditioner	air						
Type	compressor driven vapour compression						
If applicable: driver of compressor	electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	16.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	235.5	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27 ° /19 °C (dry/wet bulb)				Declared energy efficiency ratio for part load at given outdoor temperatures T_j			
$T_j = +35$ °C	P_{dc}	15.52	kW	$T_j = +35$ °C	EER_d	2.80	-
$T_j = +30$ °C	P_{dc}	10.67	kW	$T_j = +30$ °C	EER_d	4.30	-
$T_j = +25$ °C	P_{dc}	7.12	kW	$T_j = +25$ °C	EER_d	6.36	-
$T_j = +20$ °C	P_{dc}	3.72	kW	$T_j = +20$ °C	EER_d	12.16	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{off}	0.00499	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.00767	kW	Standby mode	P_{SB}	0.00499	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5500	m^3/h
Sound power level, indoor/outdoor	L_{WA}	67/72	dB				
If engine driven: Emissions of nitrogen oxides	$NOx(**)$	—	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: Tel: +420 541 590 140 Fax: +420 541 590 124 E-mail: info@sinclair-solutions.com				Name of manufacturer: SINCLAIR CORPORATION Ltd., 16 Great Queen St., London, UK			
(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25. (**) From 26 September 2018. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

**Information requirements
(heat pump)**

Model(s): ASGE-60BI2-3 , ASF-60BI2							
Outdoor side heat exchanger of heat pump			air				
Indoor side heat exchanger of heat pump			air				
Indication if the heater is equipped with a supplementary heater			no				
If applicable: driver of compressor			electric motor				
Parameters declared for			Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit
Rated heating capacity	$P_{rated,h}$	17.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	153.9	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance for part load at given outdoor temperatures T_j			
$T_j = -7$ °C	P_{dh}	10.48	kW	$T_j = -7$ °C	COP_d	2.49	-
$T_j = +2$ °C	P_{dh}	6.62	kW	$T_j = +2$ °C	COP_d	3.78	-
$T_j = +7$ °C	P_{dh}	4.43	kW	$T_j = +7$ °C	COP_d	5.43	-
$T_j = +12$ °C	P_{dh}	2.50	kW	$T_j = +12$ °C	COP_d	5.58	-
$T_{biv} =$ bivalent temperature	P_{dh}	10.48	kW	$T_{biv} =$ bivalent temperature	COP_d	2.49	-
$T_{OL} =$ operation limit	P_{dh}	10.94	kW	$T_{OL} =$ operation limit	COP_d	2.36	-
$T_j = -15$ °C (if $TOL < -20$ °C)	P_{dh}	NA	kW	$T_j = -15$ °C (if $TOL < -20$ °C)	COP_d	NA	-
Bivalent temperature	T_{biv}	-7.00	°C	Operation limit temperature	T_{ol}	-10.00	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.00499	kW	Back-up heating capacity (*)	elbu	1.400	kW
Thermostat-off mode	P_{TO}	0.01719	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.00499	kW
Other items							
Capacity control	variable			air flow rate, outdoor measured	—	5500	m ³ /h
Sound power level, indoor/outdoor measured	L_{WA}	68/74	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(***)$	—	mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat exchanger	—	—	m ³ /h
GWP of the refrigerant	675		kg CO ₂ eq (100 years)				
Contact details: Tel: +420 541 590 140 Fax: +420 541 590 124 E-mail: info@sinclair-solutions.com				Name of manufacturer: SINCLAIR CORPORATION Ltd., 16 Great Queen St., London, UK			
(*) (**) If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							



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