

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

Model(s):ASGE-48BI2-3 , ASD-48BI2							
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	$P_{rated,c}$	13,4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	245,4	%
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			
$T_j = + 35 \text{ }^\circ\text{C}$	P_{dc}	13,46	kW	$T_j = + 35 \text{ }^\circ\text{C}$	EER_d	3,01	-
$T_j = + 30 \text{ }^\circ\text{C}$	P_{dc}	9,96	kW	$T_j = + 30 \text{ }^\circ\text{C}$	EER_d	4,54	-
$T_j = + 25 \text{ }^\circ\text{C}$	P_{dc}	6,08	kW	$T_j = + 25 \text{ }^\circ\text{C}$	EER_d	6,93	-
$T_j = + 20 \text{ }^\circ\text{C}$	P_{dc}	2,74	kW	$T_j = + 20 \text{ }^\circ\text{C}$	EER_d	11,02	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0,25	—				-
Power consumption in modes other than ‘active mode’							
Off mode	P_{OFF}	0,008	kW	Crankcase heater mode	P_{CK}	0,000	kW
Thermostat-off mode	P_{TO}	0,007	kW	Standby mode	P_{SB}	0,008	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5200	m^3/h
Sound power level, indoor/outdoor	L_{WA}	66/75	dB				
If engine driven: Emissions of nitrogen oxides	$\text{NO}_x(**)$	-	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			
<p>(*) 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.</p>							

**Information requirements
(heat pump)**

Model(s):ASGE-48BI2-3 , ASD-48BI2							
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	$P_{rated,h}$	15,5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157,4	%
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			
$T_j = -7\text{ °C}$	P_{dh}	8,88	kW	$T_j = -7\text{ °C}$	COP_d	2,48	-
$T_j = +2\text{ °C}$	P_{dh}	5,89	kW	$T_j = +2\text{ °C}$	COP_d	4,01	-
$T_j = +7\text{ °C}$	P_{dh}	3,27	kW	$T_j = +7\text{ °C}$	COP_d	5,40	-
$T_j = +12\text{ °C}$	P_{dh}	1,57	kW	$T_j = +12\text{ °C}$	COP_d	4,81	-
$T_{biv} = \text{bivalent temperature}$	P_{dh}	8,88	kW	$T_{biv} = \text{bivalent temperature}$	COP_d	2,48	-
$T_{OL} = \text{operation limit}$	P_{dh}	9,49	kW	$T_{OL} = \text{operation limit}$	COP_d	2,22	-
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	NA	kW	$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	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}	0,008	kW	Back-up heating capacity (*)	e_{lbu}	0,510	kW
Thermostat-off mode	P_{TO}	0,019	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0,000	kW	Standby mode	P_{SB}	0,008	kW
Other items							
Capacity control	variable			air flow rate, outdoor measured	—	5200	m^3/h
Sound power level, indoor/outdoor measured	L_{WA}	67/72	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.							