

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

Model(s):ASGE-48BI ASF-48BI							
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	$\eta_{s,c}$	246.6	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = + 35\text{ °C}$	$P_{dc}$	13.40	kW	$T_j = + 35\text{ °C}$	$EER_d$	3.02	-
$T_j = + 30\text{ °C}$	$P_{dc}$	9.76	kW	$T_j = + 30\text{ °C}$	$EER_d$	4.49	-
$T_j = + 25\text{ °C}$	$P_{dc}$	6.36	kW	$T_j = + 25\text{ °C}$	$EER_d$	7.03	-
$T_j = + 20\text{ °C}$	$P_{dc}$	3.00	kW	$T_j = + 20\text{ °C}$	$EER_d$	10.93	-
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	—				-
Power consumption in modes other than ‘active mode’							
Off mode	$P_{OFF}$	0.0016	kW	Crankcase heater mode	$P_{CK}$	0	kW
Thermostat-off mode	$P_{TO}$	0.0108	kW	Standby mode	$P_{SB}$	0.0016	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	5900	$m^3/h$
Sound power level, indoor/outdoor	$L_{WA}$	65/70	dB				
If engine driven: Emissions of nitrogen oxides	$NO_x(**)$	-	mg/kWh fuel input GCV				
GWP of the refrigerant	675		kg CO <sub>2</sub> 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., 1-4 Argyll 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-48BI ASF-48BI							
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	$P_{rated,h}$	15.50	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	145.8	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = -7\text{ °C}$	$P_{dh}$	10.35	kW	$T_j = -7\text{ °C}$	$COP_d$	2.65	-
$T_j = +2\text{ °C}$	$P_{dh}$	6.33	kW	$T_j = +2\text{ °C}$	$COP_d$	3.29	-
$T_j = +7\text{ °C}$	$P_{dh}$	4.08	kW	$T_j = +7\text{ °C}$	$COP_d$	5.35	-
$T_j = +12\text{ °C}$	$P_{dh}$	3.27	kW	$T_j = +12\text{ °C}$	$COP_d$	7.00	-
$T_{biv}$ = bivalent temperature	$P_{dh}$	10.35	kW	$T_{biv}$ = bivalent temperature	$COP_d$	2.65	-
$T_{OL}$ = operation limit	$P_{dh}$	9.06	kW	$T_{OL}$ = operation limit	$COP_d$	2.51	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$P_{dh}$	-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$COP_d$	-	-
Bivalent temperature	$T_{biv}$	-7.00	°C	For water-to-air heat pumps: Operation limit temperature	$T_{ol}$	-	°C
Degradation co-efficient heat pumps(**)	$C_{dh}$	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	$P_{OFF}$	0.0016	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	$P_{TO}$	0.0170	kW	Type of energy input	-		
Crankcase heater mode	$P_{CK}$	0	kW	Standby mode	$P_{SB}$	0.0016	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	5900	$m^3/h$
Sound power level, indoor/outdoor measured	$L_{WA}$	65/72	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	—	-	$m^3/h$
GWP of the refrigerant	675		kg CO2 eq (100 years)				
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<p>(*)</p> <p>(**) If <math>C_{dh}</math> is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.</p> <p>(***) From 26 September 2018.</p> <p>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.</p>							