

MODEL				ASGE-18BI + ASC-18BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	5,0	kW	Cooling	SEER	5,9	--
Heating / Average	Pdesignh	4,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	5,00	kW	Tj = 35 °C	EERd	3,20	--
Tj = 30 °C	Pdc	3,59	kW	Tj = 30 °C	EERd	4,66	--
Tj = 25 °C	Pdc	2,27	kW	Tj = 25 °C	EERd	6,50	--
Tj = 20 °C	Pdc	1,26	kW	Tj = 20 °C	EERd	10,20	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	3,63	kW	Tj = - 7 °C	COPd	2,71	--
Tj = 2 °C	Pdh	2,11	kW	Tj = 2 °C	COPd	3,96	--
Tj = 7 °C	Pdh	1,42	kW	Tj = 7 °C	COPd	5,00	--
Tj = 12 °C	Pdh	1,50	kW	Tj = 12 °C	COPd	6,10	--
Tj = bivalent temperature	Pdh	3,68	kW	Tj = bivalent temperature	COPd	2,68	--
Tj = operating limit	Pdh	3,63	kW	Tj = operating limit	COPd	2,71	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002792	kW	Cooling	Q _{CE}	296	kWh/a
Standby mode	P _{SB}	0,002792	kW	Heating / Average	Q _{HE}	1405	kWh/a
Thermostat-off mode	P _{TO}	0,010979/0,020994	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(60/65)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(700/3000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-24BI + ASC-24BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	7,0	kW	Cooling	SEER	7,2	--
Heating / Average	Pdesignh	6,4	kW	Heating / Average	SCOP/A	3,9	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	7,00	kW	Tj = 35 °C	EERd	3,50	--
Tj = 30 °C	Pdc	5,13	kW	Tj = 30 °C	EERd	4,99	--
Tj = 25 °C	Pdc	3,16	kW	Tj = 25 °C	EERd	9,35	--
Tj = 20 °C	Pdc	2,64	kW	Tj = 20 °C	EERd	12,66	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	5,66	kW	Tj = - 7 °C	COPd	2,58	--
Tj = 2 °C	Pdh	3,52	kW	Tj = 2 °C	COPd	3,66	--
Tj = 7 °C	Pdh	2,28	kW	Tj = 7 °C	COPd	5,29	--
Tj = 12 °C	Pdh	2,01	kW	Tj = 12 °C	COPd	6,88	--
Tj = bivalent temperature	Pdh	5,98	kW	Tj = bivalent temperature	COPd	2,55	--
Tj = operating limit	Pdh	5,66	kW	Tj = operating limit	COPd	2,58	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,00202	kW	Cooling	Q _{CE}	340	kWh/a
Standby mode	P _{SB}	0,00202	kW	Heating / Average	Q _{HE}	2297	kWh/a
Thermostat-off mode	P _{TO}	0,02298/0,02500	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(52/67)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1100/3600)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-30BI + ASC-30BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	8,5	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	7,2	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	8,52	kW	Tj = 35 °C	EERd	3,01	--
Tj = 30 °C	Pdc	6,35	kW	Tj = 30 °C	EERd	5,02	--
Tj = 25 °C	Pdc	4,01	kW	Tj = 25 °C	EERd	7,43	--
Tj = 20 °C	Pdc	2,62	kW	Tj = 20 °C	EERd	10,31	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	6,45	kW	Tj = - 7 °C	COPd	2,74	--
Tj = 2 °C	Pdh	4,19	kW	Tj = 2 °C	COPd	3,93	--
Tj = 7 °C	Pdh	2,64	kW	Tj = 7 °C	COPd	5,16	--
Tj = 12 °C	Pdh	2,23	kW	Tj = 12 °C	COPd	6,26	--
Tj = bivalent temperature	Pdh	5,38	kW	Tj = bivalent temperature	COPd	2,26	--
Tj = operating limit	Pdh	6,45	kW	Tj = operating limit	COPd	2,74	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,003177	kW	Cooling	Q _{CE}	472	kWh/a
Standby mode	P _{SB}	0,003177	kW	Heating / Average	Q _{HE}	2616	kWh/a
Thermostat-off mode	P _{TO}	0,019533/0,027483	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(58/69)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1400/4000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI + ASC-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,093	kW	Tj = 35 °C	EERd	3,188	--
Tj = 30 °C	Pdc	7,365	kW	Tj = 30 °C	EERd	4,455	--
Tj = 25 °C	Pdc	4,604	kW	Tj = 25 °C	EERd	7,274	--
Tj = 20 °C	Pdc	3,072	kW	Tj = 20 °C	EERd	10,727	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	8,074	kW	Tj = - 7 °C	COPd	2,62	--
Tj = 2 °C	Pdh	4,87	kW	Tj = 2 °C	COPd	3,902	--
Tj = 7 °C	Pdh	3,202	kW	Tj = 7 °C	COPd	5,192	--
Tj = 12 °C	Pdh	3,508	kW	Tj = 12 °C	COPd	6,463	--
Tj = bivalent temperature	Pdh	8,974	kW	Tj = bivalent temperature	COPd	2,693	--
Tj = operating limit	Pdh	8,074	kW	Tj = operating limit	COPd	2,62	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,0026	kW	Cooling	Q _{CE}	566	kWh/a
Standby mode	P _{SB}	0,0026	kW	Heating / Average	Q _{HE}	3139	kWh/a
Thermostat-off mode	P _{TO}	0,013/0,020	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(59/70)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1500/5900)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI-3 + ASC-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,11	kW	Tj = 35 °C	EERd	3,35	--
Tj = 30 °C	Pdc	7,30	kW	Tj = 30 °C	EERd	4,90	--
Tj = 25 °C	Pdc	4,65	kW	Tj = 25 °C	EERd	6,84	--
Tj = 20 °C	Pdc	2,92	kW	Tj = 20 °C	EERd	11,28	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	8,27	kW	Tj = - 7 °C	COPd	2,70	--
Tj = 2 °C	Pdh	4,87	kW	Tj = 2 °C	COPd	3,81	--
Tj = 7 °C	Pdh	3,15	kW	Tj = 7 °C	COPd	5,38	--
Tj = 12 °C	Pdh	3,19	kW	Tj = 12 °C	COPd	6,71	--
Tj = bivalent temperature	Pdh	7,28	kW	Tj = bivalent temperature	COPd	2,44	--
Tj = operating limit	Pdh	8,27	kW	Tj = operating limit	COPd	2,70	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,0021	kW	Cooling	Q _{CE}	553	kWh/a
Standby mode	P _{SB}	0,0021	kW	Heating / Average	Q _{HE}	3168	kWh/a
Thermostat-off mode	P _{TO}	0,0168 / 0,0205	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	59/70	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	1500/5900	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-42BI-3 + ASC-42BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	12,1	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	243,5	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	12,42	kW	$T_j = +35\text{ °C}$	EER	3,12	-
$T_j = +30\text{ °C}$	P_c	8,88	kW	$T_j = +30\text{ °C}$	EER	4,56	-
$T_j = +25\text{ °C}$	P_c	5,56	kW	$T_j = +25\text{ °C}$	EER	7,18	-
$T_j = +20\text{ °C}$	P_c	4,44	kW	$T_j = +20\text{ °C}$	EER	10,75	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,c}$	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	158,6	%
$T_j = -7\text{ °C}$	P_h	8,92	kW	$T_j = -7\text{ °C}$	COP	2,51	-
$T_j = +2\text{ °C}$	P_h	5,45	kW	$T_j = +2\text{ °C}$	COP	3,97	-
$T_j = +7\text{ °C}$	P_h	3,53	kW	$T_j = +7\text{ °C}$	COP	5,45	-
$T_j = +12\text{ °C}$	P_h	2,98	kW	$T_j = +12\text{ °C}$	COP	6,22	-
Tbiv	P_h	8,83	kW	Tbiv	COP	2,51	-
ToL	P_h	8,76	kW	ToL	COP	2,44	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	x.x	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00341	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00341	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,01473 / 0,02334	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	60,6 / 69,2	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	59,9 / 69,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-48BI-3 + ASC-48BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	13,40	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	241,6	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	13,40	kW	$T_j = +35\text{ °C}$	EER	2,99	-
$T_j = +30\text{ °C}$	P_c	9,71	kW	$T_j = +30\text{ °C}$	EER	4,64	-
$T_j = +25\text{ °C}$	P_c	6,18	kW	$T_j = +25\text{ °C}$	EER	6,71	-
$T_j = +20\text{ °C}$	P_c	3,30	kW	$T_j = +20\text{ °C}$	EER	10,92	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	157,2	%
$T_j = -7\text{ °C}$	P_h	9,96	kW	$T_j = -7\text{ °C}$	COP	2,57	-
$T_j = +2\text{ °C}$	P_h	6,16	kW	$T_j = +2\text{ °C}$	COP	3,8	-
$T_j = +7\text{ °C}$	P_h	3,94	kW	$T_j = +7\text{ °C}$	COP	5,58	-
$T_j = +12\text{ °C}$	P_h	3,06	kW	$T_j = +12\text{ °C}$	COP	6,51	-
Tbiv	P_h	9,96	kW	Tbiv	COP	2,57	-
ToL	P_h	9,37	kW	ToL	COP	2,56	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,003	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,003	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,016 / 0,024	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	60,8 / 72,0	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	60,9 / 73,0	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-60BI-3 + ASC-60BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	14,50	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	241,7	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	14,51	kW	$T_j = +35\text{ °C}$	EER	2,66	-
$T_j = +30\text{ °C}$	P_c	10,70	kW	$T_j = +30\text{ °C}$	EER	4,68	-
$T_j = +25\text{ °C}$	P_c	6,85	kW	$T_j = +25\text{ °C}$	EER	6,97	-
$T_j = +20\text{ °C}$	P_c	3,98	kW	$T_j = +20\text{ °C}$	EER	11,08	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	145,6	%
$T_j = -7\text{ °C}$	P_h	10,32	kW	$T_j = -7\text{ °C}$	COP	2,48	-
$T_j = +2\text{ °C}$	P_h	6,27	kW	$T_j = +2\text{ °C}$	COP	3,66	-
$T_j = +7\text{ °C}$	P_h	4,09	kW	$T_j = +7\text{ °C}$	COP	4,80	-
$T_j = +12\text{ °C}$	P_h	3,06	kW	$T_j = +12\text{ °C}$	COP	5,31	-
Tbiv	P_h	10,32	kW	Tbiv	COP	2,48	-
ToL	P_h	10,00	kW	ToL	COP	2,25	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00270	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00270	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,018 / 0,02467	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	6600	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	63,2 / 70,5	dB	Air Flow Rate, Outdoor Measured (Heating)	6600	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	63,4 / 72,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-12BI + ASF-12BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	3,5	kW	Cooling	SEER	6,7	--
Heating / Average	Pdesignh	3,1	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	3,51	kW	Tj = 35 °C	EERd	3,88	--
Tj = 30 °C	Pdc	2,48	kW	Tj = 30 °C	EERd	5,42	--
Tj = 25 °C	Pdc	1,59	kW	Tj = 25 °C	EERd	8,21	--
Tj = 20 °C	Pdc	1,46	kW	Tj = 20 °C	EERd	12,45	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	2,80	kW	Tj = - 7 °C	COPd	2,96	--
Tj = 2 °C	Pdh	1,63	kW	Tj = 2 °C	COPd	4,24	--
Tj = 7 °C	Pdh	1,11	kW	Tj = 7 °C	COPd	4,88	--
Tj = 12 °C	Pdh	1,34	kW	Tj = 12 °C	COPd	6,43	--
Tj = bivalent temperature	Pdh	2,57	kW	Tj = bivalent temperature	COPd	2,78	--
Tj = operating limit	Pdh	2,80	kW	Tj = operating limit	COPd	2,96	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002792	kW	Cooling	Q _{CE}	177	kWh/a
Standby mode	P _{SB}	0,002792	kW	Heating / Average	Q _{HE}	1040	kWh/a
Thermostat-off mode	P _{TO}	0,010979/0,020994	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	51/64	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	650/3000	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-18BI + ASF-18BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	5,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	4,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	5,11	kW	Tj = 35 °C	EERd	3,26	--
Tj = 30 °C	Pdc	3,58	kW	Tj = 30 °C	EERd	4,63	--
Tj = 25 °C	Pdc	2,31	kW	Tj = 25 °C	EERd	7,49	--
Tj = 20 °C	Pdc	1,86	kW	Tj = 20 °C	EERd	11,05	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	3,62	kW	Tj = - 7 °C	COPd	2,66	--
Tj = 2 °C	Pdh	2,16	kW	Tj = 2 °C	COPd	3,96	--
Tj = 7 °C	Pdh	1,46	kW	Tj = 7 °C	COPd	5,24	--
Tj = 12 °C	Pdh	1,69	kW	Tj = 12 °C	COPd	6,28	--
Tj = bivalent temperature	Pdh	3,42	kW	Tj = bivalent temperature	COPd	2,42	--
Tj = operating limit	Pdh	3,62	kW	Tj = operating limit	COPd	2,66	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002513	kW	Cooling	Q _{CE}	284	kWh/a
Standby mode	P _{SB}	0,002513	kW	Heating / Average	Q _{HE}	1394	kWh/a
Thermostat-off mode	P _{TO}	0,027515/0,030028	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(57/65)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(850/3000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-24BI + ASF-24BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	7,0	kW	Cooling	SEER	6,8	--
Heating / Average	Pdesignh	6,4	kW	Heating / Average	SCOP/A	3,9	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	7,02	kW	Tj = 35 °C	EERd	3,61	--
Tj = 30 °C	Pdc	4,94	kW	Tj = 30 °C	EERd	5,03	--
Tj = 25 °C	Pdc	3,21	kW	Tj = 25 °C	EERd	8,85	--
Tj = 20 °C	Pdc	2,26	kW	Tj = 20 °C	EERd	10,10	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	5,63	kW	Tj = - 7 °C	COPd	2,78	--
Tj = 2 °C	Pdh	3,21	kW	Tj = 2 °C	COPd	3,72	--
Tj = 7 °C	Pdh	2,26	kW	Tj = 7 °C	COPd	5,13	--
Tj = 12 °C	Pdh	2,79	kW	Tj = 12 °C	COPd	6,22	--
Tj = bivalent temperature	Pdh	5,22	kW	Tj = bivalent temperature	COPd	2,38	--
Tj = operating limit	Pdh	5,63	kW	Tj = operating limit	COPd	2,78	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,00202	kW	Cooling	Q _{CE}	359	kWh/a
Standby mode	P _{SB}	0,00202	kW	Heating / Average	Q _{HE}	2295	kWh/a
Thermostat-off mode	P _{TO}	0,02298/0,00905	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(57/67)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1300/3600)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-30BI + ASF-30BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	8,5	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	7,2	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	8,52	kW	Tj = 35 °C	EERd	3,03	--
Tj = 30 °C	Pdc	6,52	kW	Tj = 30 °C	EERd	4,70	--
Tj = 25 °C	Pdc	4,04	kW	Tj = 25 °C	EERd	7,62	--
Tj = 20 °C	Pdc	3,18	kW	Tj = 20 °C	EERd	10,51	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	6,45	kW	Tj = - 7 °C	COPd	2,76	--
Tj = 2 °C	Pdh	4,19	kW	Tj = 2 °C	COPd	3,99	--
Tj = 7 °C	Pdh	2,63	kW	Tj = 7 °C	COPd	4,92	--
Tj = 12 °C	Pdh	2,77	kW	Tj = 12 °C	COPd	5,99	--
Tj = bivalent temperature	Pdh	6,35	kW	Tj = bivalent temperature	COPd	2,53	--
Tj = operating limit	Pdh	6,45	kW	Tj = operating limit	COPd	2,76	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyhc	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,003177	kW	Cooling	Q _{CE}	477	kWh/a
Standby mode	P _{SB}	0,003177	kW	Heating / Average	Q _{HE}	2577	kWh/a
Thermostat-off mode	P _{TO}	0,019533/0,027483	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(65/69)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1500/4000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI + ASF-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,042	kW	Tj = 35 °C	EERd	3,244	--
Tj = 30 °C	Pdc	7,036	kW	Tj = 30 °C	EERd	4,7	--
Tj = 25 °C	Pdc	4,569	kW	Tj = 25 °C	EERd	7,3	--
Tj = 20 °C	Pdc	3,790	kW	Tj = 20 °C	EERd	10,295	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	8,003	kW	Tj = - 7 °C	COPd	2,632	--
Tj = 2 °C	Pdh	5,009	kW	Tj = 2 °C	COPd	3,857	--
Tj = 7 °C	Pdh	3,205	kW	Tj = 7 °C	COPd	5,307	--
Tj = 12 °C	Pdh	2,749	kW	Tj = 12 °C	COPd	6,15	--
Tj = bivalent temperature	Pdh	8,510	kW	Tj = bivalent temperature	COPd	2,571	--
Tj = operating limit	Pdh	8,003	kW	Tj = operating limit	COPd	2,632	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002	kW	Cooling	Q _{CE}	573	kWh/a
Standby mode	P _{SB}	0,002	kW	Heating / Average	Q _{HE}	3149	kWh/a
Thermostat-off mode	P _{TO}	0,058/0,012	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(61/70)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1600/5900)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI-3 + ASF-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,02	kW	Tj = 35 °C	EERd	2,98	--
Tj = 30 °C	Pdc	7,13	kW	Tj = 30 °C	EERd	4,64	--
Tj = 25 °C	Pdc	4,50	kW	Tj = 25 °C	EERd	7,30	--
Tj = 20 °C	Pdc	3,13	kW	Tj = 20 °C	EERd	10,97	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	7,99	kW	Tj = - 7 °C	COPd	2,60	--
Tj = 2 °C	Pdh	4,88	kW	Tj = 2 °C	COPd	4,01	--
Tj = 7 °C	Pdh	3,15	kW	Tj = 7 °C	COPd	5,08	--
Tj = 12 °C	Pdh	2,94	kW	Tj = 12 °C	COPd	6,07	--
Tj = bivalent temperature	Pdh	7,39	kW	Tj = bivalent temperature	COPd	2,46	--
Tj = operating limit	Pdh	7,99	kW	Tj = operating limit	COPd	2,60	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,0021	kW	Cooling	Q _{CE}	561	kWh/a
Standby mode	P _{SB}	0,0021	kW	Heating / Average	Q _{HE}	3146	kWh/a
Thermostat-off mode	P _{TO}	0,0196 / 0,0205	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	61/70	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	1600/5900	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-42BI-3 + ASF-42BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	12,1	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	243,7	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	12,23	kW	$T_j = +35\text{ °C}$	EER	3,21	-
$T_j = +30\text{ °C}$	P_c	8,69	kW	$T_j = +30\text{ °C}$	EER	5,05	-
$T_j = +25\text{ °C}$	P_c	5,64	kW	$T_j = +25\text{ °C}$	EER	6,57	-
$T_j = +20\text{ °C}$	P_c	3,82	kW	$T_j = +20\text{ °C}$	EER	10,52	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,c}$	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	157,2	%
$T_j = -7\text{ °C}$	P_h	9,04	kW	$T_j = -7\text{ °C}$	COP	2,39	-
$T_j = +2\text{ °C}$	P_h	5,41	kW	$T_j = +2\text{ °C}$	COP	3,85	-
$T_j = +7\text{ °C}$	P_h	3,55	kW	$T_j = +7\text{ °C}$	COP	5,56	-
$T_j = +12\text{ °C}$	P_h	3,04	kW	$T_j = +12\text{ °C}$	COP	6,85	-
Tbiv	P_h	9,04	kW	Tbiv	COP	2,39	-
ToL	P_h	8,25	kW	ToL	COP	3,35	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	x.x	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00341	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00341	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,01473 / 0,02334	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	61,2 / 69,2	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	60,9 / 69,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-48BI-3 + ASF-48BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	13,40	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	243,7	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	13,40	kW	$T_j = +35\text{ °C}$	EER	2,97	-
$T_j = +30\text{ °C}$	P_c	9,60	kW	$T_j = +30\text{ °C}$	EER	4,45	-
$T_j = +25\text{ °C}$	P_c	6,13	kW	$T_j = +25\text{ °C}$	EER	7,09	-
$T_j = +20\text{ °C}$	P_c	3,15	kW	$T_j = +20\text{ °C}$	EER	10,81	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	160,3	%
$T_j = -7\text{ °C}$	P_h	9,95	kW	$T_j = -7\text{ °C}$	COP	2,70	-
$T_j = +2\text{ °C}$	P_h	6,23	kW	$T_j = +2\text{ °C}$	COP	3,75	-
$T_j = +7\text{ °C}$	P_h	3,92	kW	$T_j = +7\text{ °C}$	COP	5,78	-
$T_j = +12\text{ °C}$	P_h	3,21	kW	$T_j = +12\text{ °C}$	COP	7,26	-
Tbiv	P_h	9,95	kW	Tbiv	COP	2,70	-
ToL	P_h	9,83	kW	ToL	COP	2,73	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,003	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,003	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,015 / 0,021	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	64,6 / 72,0	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	64,4 / 73,0	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-60BI-3 + ASF-60BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	16,00	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	258,7	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	16,02	kW	$T_j = +35\text{ °C}$	EER	2,97	-
$T_j = +30\text{ °C}$	P_c	11,37	kW	$T_j = +30\text{ °C}$	EER	5,00	-
$T_j = +25\text{ °C}$	P_c	7,43	kW	$T_j = +25\text{ °C}$	EER	7,53	-
$T_j = +20\text{ °C}$	P_c	4,54	kW	$T_j = +20\text{ °C}$	EER	11,35	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	152,3	%
$T_j = -7\text{ °C}$	P_h	11,02	kW	$T_j = -7\text{ °C}$	COP	2,48	-
$T_j = +2\text{ °C}$	P_h	6,65	kW	$T_j = +2\text{ °C}$	COP	3,74	-
$T_j = +7\text{ °C}$	P_h	4,44	kW	$T_j = +7\text{ °C}$	COP	5,22	-
$T_j = +12\text{ °C}$	P_h	3,38	kW	$T_j = +12\text{ °C}$	COP	6,54	-
Tbiv	P_h	11,02	kW	Tbiv	COP	2,48	-
ToL	P_h	10,09	kW	ToL	COP	2,34	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00270	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00270	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,018 / 0,02467	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	6600	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	65,8 / 70,5	dB	Air Flow Rate, Outdoor Measured (Heating)	6600	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	65,1 / 72,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(* If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-12BI + ASD-12BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	3,5	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	3,1	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	3,50	kW	Tj = 35 °C	EERd	3,65	--
Tj = 30 °C	Pdc	2,48	kW	Tj = 30 °C	EERd	4,99	--
Tj = 25 °C	Pdc	1,57	kW	Tj = 25 °C	EERd	7,17	--
Tj = 20 °C	Pdc	1,10	kW	Tj = 20 °C	EERd	9,40	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	2,87	kW	Tj = - 7 °C	COPd	2,78	--
Tj = 2 °C	Pdh	1,68	kW	Tj = 2 °C	COPd	4,12	--
Tj = 7 °C	Pdh	1,09	kW	Tj = 7 °C	COPd	4,65	--
Tj = 12 °C	Pdh	1,27	kW	Tj = 12 °C	COPd	5,95	--
Tj = bivalent temperature	Pdh	2,65	kW	Tj = bivalent temperature	COPd	2,64	--
Tj = operating limit	Pdh	2,87	kW	Tj = operating limit	COPd	2,78	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002792	kW	Cooling	Q _{CE}	200	kWh/a
Standby mode	P _{SB}	0,002792	kW	Heating / Average	Q _{HE}	1110	kWh/a
Thermostat-off mode	P _{TO}	0,010979/0,020994	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0,000	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	59/64	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	650/3000	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-18BI + ASD-18BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	5,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	4,2	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	5,05	kW	Tj = 35 °C	EERd	3,26	--
Tj = 30 °C	Pdc	3,54	kW	Tj = 30 °C	EERd	4,92	--
Tj = 25 °C	Pdc	2,23	kW	Tj = 25 °C	EERd	7,66	--
Tj = 20 °C	Pdc	1,68	kW	Tj = 20 °C	EERd	10,69	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	3,70	kW	Tj = - 7 °C	COPd	2,66	--
Tj = 2 °C	Pdh	2,26	kW	Tj = 2 °C	COPd	3,97	--
Tj = 7 °C	Pdh	1,50	kW	Tj = 7 °C	COPd	5,16	--
Tj = 12 °C	Pdh	1,49	kW	Tj = 12 °C	COPd	5,99	--
Tj = bivalent temperature	Pdh	3,55	kW	Tj = bivalent temperature	COPd	2,50	--
Tj = operating limit	Pdh	3,70	kW	Tj = operating limit	COPd	2,66	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002513	kW	Cooling	Q _{CE}	277	kWh/a
Standby mode	P _{SB}	0,002513	kW	Heating / Average	Q _{HE}	1469	kWh/a
Thermostat-off mode	P _{TO}	0,027515/0,030028	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(58/65)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(950/3000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-24BI + ASD-24BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	7,0	kW	Cooling	SEER	6,8	--
Heating / Average	Pdesignh	6,4	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	7,21	kW	Tj = 35 °C	EERd	3,47	--
Tj = 30 °C	Pdc	5,01	kW	Tj = 30 °C	EERd	4,96	--
Tj = 25 °C	Pdc	3,19	kW	Tj = 25 °C	EERd	8,38	--
Tj = 20 °C	Pdc	2,54	kW	Tj = 20 °C	EERd	12,20	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	5,66	kW	Tj = - 7 °C	COPd	2,87	--
Tj = 2 °C	Pdh	3,50	kW	Tj = 2 °C	COPd	3,67	--
Tj = 7 °C	Pdh	2,27	kW	Tj = 7 °C	COPd	5,58	--
Tj = 12 °C	Pdh	2,60	kW	Tj = 12 °C	COPd	6,12	--
Tj = bivalent temperature	Pdh	6,19	kW	Tj = bivalent temperature	COPd	2,88	--
Tj = operating limit	Pdh	5,66	kW	Tj = operating limit	COPd	2,87	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,00202	kW	Cooling	Q _{CE}	357	kWh/a
Standby mode	P _{SB}	0,00202	kW	Heating / Average	Q _{HE}	2238	kWh/a
Thermostat-off mode	P _{TO}	0,02298/0,02500	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(62/67)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1200/3600)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-30BI + ASD-30BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	8,5	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	7,2	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	8,60	kW	Tj = 35 °C	EERd	3,11	--
Tj = 30 °C	Pdc	6,31	kW	Tj = 30 °C	EERd	4,52	--
Tj = 25 °C	Pdc	4,06	kW	Tj = 25 °C	EERd	8,02	--
Tj = 20 °C	Pdc	2,72	kW	Tj = 20 °C	EERd	9,36	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	6,63	kW	Tj = - 7 °C	COPd	2,67	--
Tj = 2 °C	Pdh	3,90	kW	Tj = 2 °C	COPd	4,02	--
Tj = 7 °C	Pdh	2,58	kW	Tj = 7 °C	COPd	5,04	--
Tj = 12 °C	Pdh	2,89	kW	Tj = 12 °C	COPd	5,98	--
Tj = bivalent temperature	Pdh	5,89	kW	Tj = bivalent temperature	COPd	2,30	--
Tj = operating limit	Pdh	6,63	kW	Tj = operating limit	COPd	2,67	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,003177	kW	Cooling	Q _{CE}	480	kWh/a
Standby mode	P _{SB}	0,003177	kW	Heating / Average	Q _{HE}	2576	kWh/a
Thermostat-off mode	P _{TO}	0,019533/0,027483	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(65/69)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1500/4000)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI + ASD-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,104	kW	Tj = 35 °C	EERd	3,219	--
Tj = 30 °C	Pdc	7,176	kW	Tj = 30 °C	EERd	4,62	--
Tj = 25 °C	Pdc	4,774	kW	Tj = 25 °C	EERd	6,985	--
Tj = 20 °C	Pdc	3,143	kW	Tj = 20 °C	EERd	10,48	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	8,043	kW	Tj = - 7 °C	COPd	2,656	--
Tj = 2 °C	Pdh	4,866	kW	Tj = 2 °C	COPd	3,94	--
Tj = 7 °C	Pdh	3,147	kW	Tj = 7 °C	COPd	5,16	--
Tj = 12 °C	Pdh	3,176	kW	Tj = 12 °C	COPd	6,223	--
Tj = bivalent temperature	Pdh	7,377	kW	Tj = bivalent temperature	COPd	2,567	--
Tj = operating limit	Pdh	8,043	kW	Tj = operating limit	COPd	2,656	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,002	kW	Cooling	Q _{CE}	571	kWh/a
Standby mode	P _{SB}	0,002	kW	Heating / Average	Q _{HE}	3147	kWh/a
Thermostat-off mode	P _{TO}	0,018/0,020	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	(65/70)	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	(1800/5900)	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-36BI-3 + ASD-36BI			
FUNCTION				FUNCTION			
Cooling	Yes			Average season	Yes		
Heating	Yes			Warmer season	No		
				Colder season	No		
Design load				Seasonal efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
Cooling	Pdesignc	10,0	kW	Cooling	SEER	6,1	--
Heating / Average	Pdesignh	9,0	kW	Heating / Average	SCOP/A	4,0	--
Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-	--
Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-	--
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35 °C	Pdc	10,05	kW	Tj = 35 °C	EERd	3,21	--
Tj = 30 °C	Pdc	7,31	kW	Tj = 30 °C	EERd	4,53	--
Tj = 25 °C	Pdc	4,64	kW	Tj = 25 °C	EERd	7,02	--
Tj = 20 °C	Pdc	3,18	kW	Tj = 20 °C	EERd	10,61	--
Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	8,17	kW	Tj = - 7 °C	COPd	2,57	--
Tj = 2 °C	Pdh	4,88	kW	Tj = 2 °C	COPd	3,90	--
Tj = 7 °C	Pdh	3,15	kW	Tj = 7 °C	COPd	5,35	--
Tj = 12 °C	Pdh	3,05	kW	Tj = 12 °C	COPd	6,31	--
Tj = bivalent temperature	Pdh	8,29	kW	Tj = bivalent temperature	COPd	2,57	--
Tj = operating limit	Pdh	8,17	kW	Tj = operating limit	COPd	2,57	--
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	--
Declared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	--
Tj = 2 °C	Pdh	-	kW	Tj = 2 °C	COPd	-	--
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	--
Tj = 12 °C	Pdh	-	kW	Tj = 12 °C	COPd	-	--
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	--
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	--
Bivalent temperature				Operating limit temperature			
Item	symbol	value	unit	Item	symbol	value	unit
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	x,x	--
For heating	Pcyh	x,x	kW	For heating	COPcyc	x,x	--
Degradation co-efficient cooling	Cdc	0,25	--	Degradation co-efficient heating	Cdh	0,25	--
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0,0021	kW	Cooling	Q _{CE}	577	kWh/a
Standby mode	P _{SB}	0,0021	kW	Heating / Average	Q _{HE}	3218	kWh/a
Thermostat-off mode	P _{TO}	0,0165 / 0,0211	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items			
Fixed	No			Sound power level (indoor/outdoor)	L _{WA}	65/70	dB(A)
Staged	No			Global warming potential	GWP	675	kgCO ₂ eq.
Variable	Yes			Rated air flow (indoor/outdoor)	--	1800/5900	m ³ / h
Name and address of the manufacturer or of its authorised representative.				Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK			
Contact details for obtaining more information				Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ			
				info@sinclair-solutions.com / www.sinclair-solutions.com			

* R32 (100% HFC-32)

* Device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

MODEL				ASGE-42BI-3 + ASD-42BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	12,1	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	244,4	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	12,21	kW	$T_j = +35\text{ °C}$	EER	3,26	-
$T_j = +30\text{ °C}$	P_c	8,66	kW	$T_j = +30\text{ °C}$	EER	4,51	-
$T_j = +25\text{ °C}$	P_c	5,56	kW	$T_j = +25\text{ °C}$	EER	7,14	-
$T_j = +20\text{ °C}$	P_c	3,77	kW	$T_j = +20\text{ °C}$	EER	10,65	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,c}$	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	159,0	%
$T_j = -7\text{ °C}$	P_h	8,91	kW	$T_j = -7\text{ °C}$	COP	2,56	-
$T_j = +2\text{ °C}$	P_h	5,54	kW	$T_j = +2\text{ °C}$	COP	4,05	-
$T_j = +7\text{ °C}$	P_h	3,53	kW	$T_j = +7\text{ °C}$	COP	5,35	-
$T_j = +12\text{ °C}$	P_h	3,04	kW	$T_j = +12\text{ °C}$	COP	5,85	-
Tbiv	P_h	8,91	kW	Tbiv	COP	2,56	-
ToL	P_h	7,91	kW	ToL	COP	2,45	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	x.x	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00357	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00357	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,01497 / 0,01517	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	66,4 / 69,2	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	66,1 / 69,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-48BI-3 + ASD-48BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	13,40	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	222,0	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	13,40	kW	$T_j = +35\text{ °C}$	EER	2,71	-
$T_j = +30\text{ °C}$	P_c	9,70	kW	$T_j = +30\text{ °C}$	EER	4,34	-
$T_j = +25\text{ °C}$	P_c	6,30	kW	$T_j = +25\text{ °C}$	EER	5,96	-
$T_j = +20\text{ °C}$	P_c	2,99	kW	$T_j = +20\text{ °C}$	EER	10,06	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	148,2	%
$T_j = -7\text{ °C}$	P_h	10,08	kW	$T_j = -7\text{ °C}$	COP	2,47	-
$T_j = +2\text{ °C}$	P_h	6,12	kW	$T_j = +2\text{ °C}$	COP	3,73	-
$T_j = +7\text{ °C}$	P_h	3,92	kW	$T_j = +7\text{ °C}$	COP	4,92	-
$T_j = +12\text{ °C}$	P_h	3,60	kW	$T_j = +12\text{ °C}$	COP	6,08	-
Tbiv	P_h	10,08	kW	Tbiv	COP	2,47	-
ToL	P_h	8,15	kW	ToL	COP	2,11	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	T_{biv}	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,003	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,003	kW	Back-up Heating Capacity	$elbu$	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,013 / 0,0243	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	67,9 / 72,0	dB	Air Flow Rate, Outdoor Measured (Heating)	5900	m^3 / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	67,9 / 73,0	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

MODEL				ASGE-60BI-3 + ASD-60BI			
MEASURED RESULT SUMMARY							
Outdoor side heat exchanger of air conditioner: Air							
Indoor side heat exchanger of air conditioner: Air							
Indication if the heater is equipped with a supplementary heater: No							
Type: Compressor driven vapour compression							
If applicable: Driver of compressor: Electric motor							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	$P_{rated,c}$	16,00	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	$\eta_{s,c}$	255,1	%
Cooling Capacity for Part Load at Given Outdoor Temperatures T_j and Indoor 27°/19 °C (Dry / Wet Bulb)				Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T_j			
$T_j = +35\text{ °C}$	P_c	16,27	kW	$T_j = +35\text{ °C}$	EER	3,02	-
$T_j = +30\text{ °C}$	P_c	11,38	kW	$T_j = +30\text{ °C}$	EER	4,95	-
$T_j = +25\text{ °C}$	P_c	7,22	kW	$T_j = +25\text{ °C}$	EER	7,48	-
$T_j = +20\text{ °C}$	P_c	4,68	kW	$T_j = +20\text{ °C}$	EER	10,88	-
Average heating season capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Average season coefficient of performance for part load at given outdoor temperatures T_j			
Rated Heating Capacity	$P_{rated,h}$	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	143,9	%
$T_j = -7\text{ °C}$	P_h	10,89	kW	$T_j = -7\text{ °C}$	COP	2,29	-
$T_j = +2\text{ °C}$	P_h	6,65	kW	$T_j = +2\text{ °C}$	COP	3,49	-
$T_j = +7\text{ °C}$	P_h	4,51	kW	$T_j = +7\text{ °C}$	COP	5,11	-
$T_j = +12\text{ °C}$	P_h	3,33	kW	$T_j = +12\text{ °C}$	COP	6,29	-
Tbiv	P_h	10,89	kW	Tbiv	COP	2,29	-
ToL	P_h	10,42	kW	ToL	COP	2,30	-
$T_j = -15\text{ °C}$ (if T OL < -20 °C)	P_{th}	-	kW	$T_j = -15\text{ °C}$ (if T OL < -20 °C)	COP	-	-
Bivalent Temperature	Tbiv	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C_{dc}	0,25	-				
Power Consumption in Modes Other than 'Active Mode'							
Off Mode	P_{OFF}	0,00498	kW	Crankcase Heater Mode	P_{CK}	0	kW
Standby Mode	P_{SB}	0,00498	kW	Back-up Heating Capacity	elbu	-	kW
Thermostat-Off Mode (Cooling / Heating)	P_{TO}	0,01691 / 0,02436	kW	Type of Energy Input	-		
Other Items							
Capacity Control	Variable			Air Flow Rate, Outdoor Measured (Cooling)	6600	m ³ / h	
Sound Power Level, Indoor / Outdoor Measured (Cooling)	L_{WA}	66,2 / 70,5	dB	Air Flow Rate, Outdoor Measured (Heating)	6600	m ³ / h	
Sound Power Level, Indoor / Outdoor Measured (Heating)	L_{WA}	67,6 / 72,5	dB	GWP of the Refrigerant	675	kg CO ₂ eq (100 years)	
Contact details for obtaining more information on the setting of the unit				SINCLAIR Corporation. Ltd., 1-4 Argyll St., London, UK info@sinclair-solutions.com / www.sinclair-solutions.com			

(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.