	MODEI	L		ASGE-18BI + ASC-18BI				
	FUNCTIO	ON		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 coolin temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19))°C and outdoor	
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 heatin	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa	ance / Average	season, at ind	oor temperature 20 °C	
outdoor temperature Tj	a sala d		1	and outdoor temperature Tj	a set at			
	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 heatin	g / Warmer se	ason, at indoor tempera	ture 20 °C	Declared coefficient of performa	ance / Warmer	season, at inde	oor temperature 20 °C	
and outdoor temperature Tj		r	I	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 heatin	g / Colder seas	son, at indoor temperatu	ure 20 °C and	Declared coefficient of performa	ance / Colder s	eason, at indoc	or temperature 20 °C and	
outdoor temperature Tj			·	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	Pcych	X,X	kW	For heating	COPcyc	X,X		
Degradation co-efficient	040	0.25		Degradation co-efficient	046	0.25		
cooling	Cdc	0,25		heating	Cdh	0,25		
Electric power input in powe	r modes other	than 'active mode'	•	Annual electricity consumption		•		
Off mode	POFF	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	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control		1	l	Other items	symbol	value	unit	
Fixed		No		Sound power level		(60/65)		
		INU		(indoor/outdoor)	L _{WA}	(00/00)	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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argyl	I St., London, U	IK	
of its authorised representat	ive.			Representive: SINCLAIR EURO	OPE spol. s r.o	., Purkynova 45	i, 612 00 Brno, CZ	
Contact details for obtaining	more informat	ion		info@sinclair-solutions.com / v	ww.sinclair-so	lutions.com		

	MODEI			ASGE-24BI + ASC-24BI				
	FUNCTIO			FUNCTION				
Cooling		Yes		Average season		Yes		
Heating		Yes		Warmer season		No		
				Colder season		No		
Design load			i	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 coolin temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor terr	perature 27(19)	°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	ison, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	oor temperature 20 °C	
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	ature 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warme	r season, at indo	or temperature 20 °C	
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 heatin outdoor temperature Tj	g / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and	
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	I			
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 Cycling interval capacity	Tbiv	-	°C	Heating / Colder Cycling interval efficiency	Tol	-	°C	
	ovmbol	value	unit	Item	ovmbol	value	unit	
Item For cooling	symbol Pcycc	value x,x	unit kW	For cooling	symbol EERcyc	value	unit	
For heating	Pcycc	x,x x,x	kW	For heating	COPcyc	x,x x,x		
Degradation co-efficient				Degradation co-efficient				
cooling	Cdc	0,25		heating	Cdh	0,25		
Electric power input in powe	r modes other	than 'active mode'		Annual electricity consumption	ļ			
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	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control		l		Other items	symbol	value	unit	
Fixed		No		Sound power level	L _{WA}	(52/67)	dB(A)	
				(indoor/outdoor)		, ,		
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 m				Manufacturer: SINCLAIR Corp.				
of its authorised representat				Representive: SINCLAIR EURO			, 612 00 Brno, CZ	
Contact details for obtaining	more informat	ion		info@sinclair-solutions.com / v	www.sinclair-so	olutions.com		
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and outdoor temperature TjItemTj = 2 °CTj = 2 °CTj = 12 °CTj = bivalent temperature
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heating | Cdh | 0,25 | | Electric power input in power mode | es other | than 'active mode' | | Annual electricity consumption | | · · · · · | | Off mode Pc | OFF | 0,003177 | kW | Cooling | Q _{CE} | 472 | kWh/a | | SB | 0,003177 | kW | Heating / Average | Q _{HE} | 2616 | kWh/a | | ъто | 0,019533/0,027483 | kW | Heating / Warmer | Q _{HE} | - | kWh/a | | СК | 0 | kW | Heating / Colder | Q _{HE} | - | kWh/a | Capacity control | | l | L | Other items | symbol | value | unit | Fixed | | No | | Sound power level | L _{WA} | (58/69) | dB(A) | Staged | | No | | (indoor/outdoor)
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| T j = 2 °CPT j = 7 °CPT j = 12 °CPT j = bivalent temperaturePT j = -15 °CPBivalent temperatureItem | | value

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| Staged | | No

 | | (indoor/outdoor)
Global warming potential | GWP | 675 | kgCO ₂ eq. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | Rated air flow (indoor/outdoor) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Variable
Name and address of the manufact | Variable Yes |

 | | | | (1400/4000) | m ³ /h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| of its authorised representative. | turer or |

 | | Manufacturer: SINCLAIR Corp.
Representive: SINCLAIR FUR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | cturer or |

 | | Representive: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, CZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Contact details for obtaining more in
R32 (100% HFC-32) | | ion

 | | info@sinclair-solutions.com / | MAMAN Ginglain - | olutions com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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	MODEI			ASGE-36BI + ASC-36BI				
	FUNCTIO			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 coolin temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19)	°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	oor temperature 20 °C	
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 heatin	g / Warmer se	ason, at indoor tempera	ature 20 °C	Declared coefficient of performa	ance / Warme	r season, at indo	oor temperature 20 °C	
and outdoor temperature Tj	r	r	T	and outdoor temperature Tj	r	.		
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 heatin outdoor temperature Tj	g / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and	
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	Pcych	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 powe	r 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	Рск	0	kW	Heating / Colder	Q _{HE}	_	kWh/a	
Capacity control				Other items		value	unit	
		No		Sound power level	symbol			
Fixed		No		(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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argy	II St., London, U	К	
of its authorised representat	ive.			Representive: SINCLAIR EURC	OPE spol. s r.c	o., Purkynova 45	, 612 00 Brno, CZ	
Contact details for obtaining	more informat	ion		info@sinclair-solutions.com / v	www.sinclair-se	olutions.com		
[*] R32 (100% HFC-32)							-	

	MODEL	-		ASGE-36BI-3 + ASC-36BI				
	FUNCTIO	ON		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 coolin temperature Tj	ıg, at indoor ter	nperature 27(19)°C and	d outdoor	Declared energy efficiency ration temperature Tj	o, at indoor ten	nperature 27(19)°C and outdoor	
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 heatir outdoor temperature Tj	ng/Average sea	son, at indoor tempera	ture 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at ind	oor temperature 20 °C	
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 heatir	ng / Warmer se	ason, at indoor tempera	ature 20 °C	Declared coefficient of performa	ance / Warmer	season, at ind	oor temperature 20 °C	
and outdoor temperature Tj Item	symbol	value	unit	and outdoor temperature Tj 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 heatir		son at indoor temperat		Declared coefficient of performa		season at indo	or temperature 20 °C and	
outdoor temperature Tj				outdoor temperature Tj		bouoon, at mao		
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	ltem	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	Pcych	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	er modes other	than 'active mode'		Annual electricity consumption		· I		
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	Р _{ск}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control				Other items	symbol	value	unit	
Fixed		No		Sound power level	L _{WA}	59/70	dB(A)	
				(indoor/outdoor)				
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 m				Manufacturer: SINCLAIR Corp.				
of its authorised representa		ion		Representive: SINCLAIR EUR			5, 012 UU BINO, CZ	
Contact details for obtaining	g more informat	1011		info@sinclair-solutions.com / v	www.sinclair-s	ulutions.com		
R32 (100% HFC-32)								

	MODEL			ASGE-42BI-3 + ASC-42BI				
		1	MEASURED I	RESULT SUMMARY				
Outdoor side heat exchanger of	air conditioner:	Air						
Indoor side heat exchanger of a	ir conditioner: A	ir						
Indication if the heater is equipp	ed with a suppl	ementary heate	r: No					
Type: Compressor driven vapou	r compression							
If applicable: Driver of compress	or: Electric mot	or						
Parameters shall be declared fo	r the average h	eating season, j	parameters for	the warmer and colder heating sea	sons are opt	ional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated Cooling Capacity, Outdoor	P _{rated,c}	12,1	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	η _{s,c}	243,5	%	
Cooling Capacity for Part Load a Temperatures T _i and Indoor 27°				Energy Efficiency Ratio for Part Outdoor Temperatures T _i	t Load at Giv	en		
T _i = + 35 °C	P _c	12,42	kW	T _i = + 35 °C	EER	3,12	-	
$T_i = + 30 ^{\circ}\text{C}$	P _c	8,88	kW	$T_i = +30 ^{\circ}\text{C}$	EER	4,56		
$T_i = +25 \text{ °C}$	P _c	5,56	kW	$T_i = +25 ^{\circ}C$	EER	7,18	-	
$T_i = +20 ^{\circ}C$	P c	4,44	kW	$T_i = +20 ^{\circ}C$	EER	10,75		
Average heating season capacit and outdoor temperature T_j	-	,		Average season coefficient of p part load at given outdoor temp	performance	,	-	
Rated Heating Capacity	P _{rated,c}	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	158,6	%	
T _i = -7 °C	P _h	8,92	kW	T _i = -7 °C	COP	2,51	-	
T _i = +2 °C	P _h	5,45	kW	T _i = +2 °C	COP	3,97	-	
T _i = +7 °C	P _h	3,53	kW	T _i = +7 °C	COP	5,45	-	
T _i = +12 °C	P _h	2,98	kW	T _i = +12 °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 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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}	x.x	-					
		Power C	onsumption in M	Nodes Other than 'Active Mode"				
Off Mode	P _{OFF}	0,00341	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,00341	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling / Heating)	Ρ _{το}	0,01473 / 0,02334	kW	Type of Energy Input		·		
			Ot	ther 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 C	O _{2 eq} (100 years)	
Contact details for obtaining r	more informatio	n on the setting	of the unit	SINCLAIR Corporation. Ltd., 1- info@sinclair-solutions.com / v	<u> </u>			

(*) 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

	MODEL			ASGE-48BI-3 + ASC-48BI				
		Ν	IEASURED	RESULT SUMMARY				
Outdoor side heat exchanger of	air conditioner:	Air						
Indoor side heat exchanger of air	r conditioner: A	Air						
Indication if the heater is equipped	ed with a suppl	ementary heater	: No					
Type: Compressor driven vapour	r compression							
If applicable: Driver of compress	or: Electric mo	tor						
Parameters shall be declared for	the average h	eating season, p	arameters for	the warmer and colder heating sea	sons are opti	ional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated Cooling Capacity, Outdoor	P _{rated,c}	13,40	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	η _{s,c}	241,6	%	
Cooling Capacity for Part Load a Temperatures T _i and Indoor 27°/				Energy Efficiency Ratio for Part Outdoor Temperatures T _i	Load at Giv	en		
T _i = + 35 °C	Pc	13,40	kW	T _i = + 35 °C	EER	2,99	-	
$T_i = +30 \text{°C}$	Pc	9.71	kW	$T_i = +30 ^{\circ}C$	EER	4.64	-	
$T_i = +25 ^{\circ}C$	P _c	6.18	kW	$T_i = +25 \text{ °C}$	EER	6.71	-	
$T_i = +20 ^{\circ}C$	P _c	3.30	kW	$T_i = +20 ^{\circ}C$	EER	10.92	-	
Average heating season capacit		-,		Average season coefficient of p		- , -	-	
and outdoor temperature T_j	y for part load			part load at given outdoor temp				
Rated Heating Capacity	P _{rated,c}	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	157,2	%	
T _j = -7 °C	Ph	9,96	kW	T _j = -7 °C	COP	2,57	-	
T _j = +2 °C	Ph	6,16	kW	T _j = +2 °C	COP	3,8	-	
T _j = +7 °C	Ph	3,94	kW	T _j = +7 °C	COP	5,58	-	
T _j = +12 °C	Ph	3,06	kW	T _j = +12 °C	COP	6,51	-	
Tbiv	Ph	9,96	kW	Tbiv	COP	2,57	-	
ToL	Ph	9,37	kW	ToL	COP	2,56		
T _j = -15 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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	-		-	<u> </u>		
		Power Co	onsumption in I	Modes Other than 'Active Mode"				
Off Mode	P _{OFF}	0,003	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,003	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling / Heating)	Р _{то}	0,016 / 0,024	kW	Type of Energy Input		-		
			0	ther 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 C	O _{2 eq} (100 years)	
				SINCLAIR Corporation. Ltd., 1-	4 Aravll St. I	London. UK		
Contact details for obtaining n	nore informatio	n on the setting	of the unit	info@sinclair-solutions.com / v				

	MODEL			ASGE-60BI-3 + ASC-60BI				
		N	IEASURED	RESULT SUMMARY				
Outdoor side heat exchanger of	air conditioner	: Air						
Indoor side heat exchanger of ai	r conditioner: A	Air						
Indication if the heater is equipped	ed with a supp	lementary heater	: No					
Type: Compressor driven vapour	r compression							
If applicable: Driver of compress	or: Electric mo	tor						
Parameters shall be declared for	the average h	neating season, p	arameters for	the warmer and colder heating sea	sons are opti	ional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated Cooling Capacity, Outdoor	P _{rated,c}	14,50	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	η _{s,c}	241,7	%	
Cooling Capacity for Part Load a Temperatures T _i and Indoor 27°/				Energy Efficiency Ratio for Part Outdoor Temperatures T _i	Load at Giv	en		
$T_i = +35 $ °C	P _c	-	kW	$T_i = +35 \text{°C}$	EER	2.66		
$T_j = +30 \text{°C}$	P _c P _c	14,51 10,70	kW	$T_j = +35 \text{ C}$ $T_i = +30 \text{ °C}$	EER	2,66 4,68	-	
$T_j = +30$ °C $T_i = +25$ °C	P _c	,	kW	$T_j = +30 \text{ C}$ $T_i = +25 \text{ °C}$	EER	,		
$T_j = +25$ °C $T_i = +20$ °C	P _c P _c	6,85 3,98	kW	$T_j = +25 \text{ C}$ $T_i = +20 \text{ °C}$	EER	6,97 11,08	-	
]		,				,	-	
Average heating season capacity and outdoor temperature T _j	y for part load	at indoor tempera	ature 20 °C	Average season coefficient of performance for part load at given outdoor temperatures T _j				
Rated Heating Capacity	P _{rated,c}	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	145,6	%	
T _j = -7 °C	P _h	10,32	kW	T _j = -7 °C	COP	2,48	-	
T _j = +2 °C	P _h	6,27	kW	T _j = +2 °C	COP	3,66	-	
T _j = +7 °C	P _h	4,09	kW	T _j = +7 °C	COP	4,80	-	
T _j = +12 °C	P _h	3,06	kW	T _j = +12 °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 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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 Co	onsumption in I	Modes Other than 'Active Mode"				
Off Mode	P OFF	0,00270	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,00270	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling ′ Heating)	P ₇₀	0,018 / 0,02467	kW	Type of Energy Input		-		
			0	ther 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		m³ / h	
Sound Power Level, Indoor / Dutdoor Measured (Heating)	L _{WA}	63,4 / 72,5	dB	GWP of the Refrigerant	675	kg Ci	O _{2 eq} (100 years)	
			6 1	SINCLAIR Corporation. Ltd., 1-	4 Argyll St. I	London, UK		
Contact details for obtaining n	nore informatio	on on the setting	of the unit	info@sinclair-solutions.com / v				

	MODEI			ASGE-12BI + ASF-12BI				
	FUNCTIO	ON		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 temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19))°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	ison, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	season, at ind	oor temperature 20 °C	
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 heatin				Declared coefficient of performa			oor temperature 20 °C	
and outdoor temperature Tj Item	symbol	value	unit	and outdoor temperature Tj Item	symbol	value	unit	
Tj = 2 °C	Pdh	- value	kW	Tj = 2 °C	COPd	value		
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-		
Tj = 7 C Tj = 12 °C		-		Tj = 7 C Tj = 12 °C		-		
,	Pdh Pdh	-	kW kW	,	COPd COPd	-		
Tj = bivalent temperature Tj = operating limit	Pdh	-	kW	Tj = bivalent temperature Tj = operating limit	COPd	-		
, , ,		-		, , ,		-		
Declared capacity for heatin outdoor temperature Tj	g / Colder seas	son, at muoor temperati		Declared coefficient of performa outdoor temperature Tj	ance / Colder s	eason, at moot	in temperature 20°C and	
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		ſ	1	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	P		1	Cycling interval efficiency				
Item	symbol	value	unit	Item	symbol	value	unit	
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	X,X		
For heating	Pcych	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 powe	r modes other	than 'active mode'	1	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	Р _{ск}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control				Other items	symbol	value	unit	
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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argvl	I St., London, U	IK	
of its authorised representat				Representive: SINCLAIR EURC				
Contact details for obtaining		ion		info@sinclair-solutions.com / v				
* R32 (100% HFC-32)				-				

	MODEI			ASGE-18BI + ASF-18BI				
	FUNCTIO			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 temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19)	°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	ison, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	bor temperature 20 °C	
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	iture 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warmer	r season, at indo	oor temperature 20 °C	
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 heatin outdoor temperature Tj	g / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and	
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	P		1	Operating limit temperature		T		
Item	symbol	value	unit	Item	symbol	value	unit	
Heating / Average	Tbiv	-7	°C	Heating / Average	Tol	-10	0°	
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	°C	
Heating / Colder Cycling interval capacity	Tbiv	-	°C	Heating / Colder Cycling interval efficiency	Tol	-	°C	
	ovmbol	velue	it		oumbol	velue	unit	
Item For cooling	symbol Pcycc	value x,x	unit kW	Item For cooling	symbol EERcyc	value	unit	
For heating	Pcycc	x,x x,x	kW	For heating	COPcyc	x,x x,x		
Degradation co-efficient	-		NVV	Degradation co-efficient				
cooling	Cdc	0,25		heating	Cdh	0,25		
Electric power input in powe	r modes other	than 'active mode'		Annual electricity consumption		· · · · · ·		
Off mode	POFF	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	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control	l	l		Other items	eymbol	Value	unit	
* *				Other items Sound power level	symbol	value		
Fixed		No		(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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argy	ll St., London, U	K	
of its authorised representat	ive.			Representive: SINCLAIR EURC	OPE spol. s r.o	., Purkynova 45	, 612 00 Brno, CZ	
Contact details for obtaining	more informat	ion		info@sinclair-solutions.com / v	ww.sinclair-so	olutions.com		
* R32 (100% HFC-32)					-			

	MODEI			ASGE-24BI + ASF-24BI				
	FUNCTIO	ON		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 temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	nperature 27(19)	°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	oor temperature 20 °C	
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	ature 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warme	r season, at indo	or temperature 20 °C	
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 heatin	g / Colder seas	son, at indoor temperatu	ure 20 °C and	Declared coefficient of performa	ance / Colder s	season, at indoo	r temperature 20 °C and	
outdoor temperature Tj				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	O°	
Heating / Warmer	Tbiv	-	°C	Heating / Warmer	Tol	-	O°	
Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	°C	
Cycling interval capacity	a set at			Cycling interval efficiency	a sub at	I at a I	- 29	
Item	symbol	value	unit	Item	symbol	value	unit	
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	Х,Х		
For heating	Pcych	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 powe	r modes other	than 'active mode'		Annual electricity consumption		<u>ا</u>		
Off mode		0,00202	kW	Cooling	0.07	359	kWh/a	
	P _{OFF}	0,00202	kW	0	Q _{CE}	2295	kWh/a	
Standby mode Thermostat-off mode	P _{SB}	0,00202	kW kW	Heating / Average	Q _{HE}	- 2295	kWh/a	
mennostat-on moue	P _{TO}	0,02230/0,00303	NVV	Heating / Warmer	Q _{HE}		NVVII/a	
Crankcase heater mode	Р _{СК}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control				Other items	symbol	value	unit	
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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Arav	Il St., London. U	K	
of its authorised representat				Representive: SINCLAIR EURO				
Contact details for obtaining		ion		info@sinclair-solutions.com / v			,	
* R32 (100% HFC-32)								

	MODEI			ASGE-30BI + ASF-30BI				
	FUNCTIO			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 temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor terr	perature 27(19)	°C and outdoor	
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 heatin outdoor temperature Tj	g/Average sea	ison, at indoor temperat	ure 20 C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	bor temperature 20°C	
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 heatin and outdoor temperature Tj	g / vvarmer se	ason, at indoor tempera	iture 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / warmei	r season, at indo	oor temperature 20 °C	
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 heatin outdoor temperature Tj	g / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and	
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 Pdh	-	kW kW	Tj = bivalent temperature	COPd COPd	-		
Tj = - 15 °C Bivalent temperature	Pull	-	KVV	Tj = - 15 °C Operating limit temperature	COPu			
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		<u>.</u>		Cycling interval efficiency	· · ·		-	
Item	symbol	value	unit	Item	symbol	value	unit	
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	X,X		
For heating	Pcych	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 powe	r 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	PTO	0,019533/0,027483	kW	Heating / Warmer	Q _{HE}	-	kWh/a	
Crankcase heater mode	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a	
Capacity control		l		Other items	symbol	value	unit	
Fixed		No		Sound power level	L _{WA}	(65/69)	dB(A)	
Staged		No		(indoor/outdoor) Global warming potential	GWP	675	kgCO ₂ eq.	
Variable Name and address of the m	anufacturer or	Yes		Rated air flow (indoor/outdoor) Manufacturer: SINCLAIR Corp.	 Ltd., 1-4 Arav	(1500/4000)	m ³ /h	
of its authorised representat				Representive: SINCLAIR EURO				
Contact details for obtaining		ion		info@sinclair-solutions.com / v			,	
* R32 (100% HFC-32)				<u> </u>				

	MODEI			Α	SGE-36BI + A	ASF-36BI	
	FUNCTIO				FUNCTI		
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 coolin temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19)	°C and outdoor
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	oor temperature 20 °C
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	ture 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warme	r season, at indo	oor temperature 20 °C
	overhol	velue	it		aumhal	velue	unit
Item Tj = 2 °C	symbol Pdh	value	unit kW	Item Tj = 2 °C	symbol COPd	value	unit
Tj = 7 °C	Pdh	-	kW	Tj = 7 °C	COPd	-	
	Pdh	-		Tj = 7 C Tj = 12 °C	COPd	-	
Tj = 12 °C	Pdh		kW kW	,	COPd		
Tj = bivalent temperature Tj = operating limit	Pdh	-	kW	Tj = bivalent temperature	COPd	-	
				Tj = operating limit			
Declared capacity for heatin outdoor temperature Tj	g / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at Indoo	r temperature 20 °C and
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		<u>г</u> . т	
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	x,x	
For heating	Pcych	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 powe	r 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	PTO	0,058/0,012	kW	Heating / Warmer	Q _{HE}	-	kWh/a
Crankcase heater mode	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control	l	l		Other items	oumb-l	Value	····it
Capacity control				Other items Sound power level	symbol	value	unit
Fixed		No		(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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argy	II St., London, U	К
of its authorised representat				Representive: SINCLAIR EURO			
Contact details for obtaining		ion		info@sinclair-solutions.com / v			•
R32 (100% HFC-32)				-			

	MODEL	-		As	GE-36BI-3 +	ASF-36BI		
	FUNCTIO	N			FUNCTIO	ON		
Cooling		Yes		Average season		Ye	 }	
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 coolin temperature Tj	g, at indoor ter	nperature 27(19)°C and	d outdoor	Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoo 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 heatin outdoor temperature Tj	ng/Average sea	ison, at indoor tempera	ture 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at inc	loor temperature 20 °C	
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	2,40		
<u>, , , , , , , , , , , , , , , , , , , </u>						,		
Declared capacity for heatin and outdoor temperature Tj	-		T	Declared coefficient of performa and outdoor temperature Tj	F	-	·	
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 heatin outdoor temperature Tj	ig / Colder sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indo	or temperature 20 °C ar	
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	1			Cycling interval efficiency				
Item	symbol	value	unit	Item	symbol	value	unit	
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	X,X		
For heating	Pcych	X,X X,X	kW	For heating	COPcyc	х,х		
Degradation co-efficient	-			Degradation co-efficient				
cooling	Cdc	0,25		heating	Cdh	0,25		
Electric power input in power	er 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	I		I	Other items	or mak - l	Value		
Capacity control				Other items	symbol	value	unit	
Fixed		No		Sound power level (indoor/outdoor)	L _{WA}	61/70	dB(A)	
Staged		No		Global warming potential	GWP	675	kgCO ₂ eq.	
Staged				1				
Variable		Yes		Rated air flow (indoor/outdoor)		1600/5900	m ³ / h	
•	anufacturer or			Rated air flow (indoor/outdoor) Manufacturer: SINCLAIR Corp.				
Variable				, , , , , , , , , , , , , , , , , , , ,	Ltd., 1-4 Argy	ll St., London, I	JK	

	MODEL			AS	GE-42BI-3 +	ASF-42BI	
		I	MEASURED I	RESULT SUMMARY			
Outdoor side heat exchanger of	air conditioner:	Air					
Indoor side heat exchanger of a	ir conditioner: A	vir					
Indication if the heater is equipp	ed with a suppl	ementary heater	r: No				
Type: Compressor driven vapou	r compression	-					
If applicable: Driver of compress	or: Electric mot	tor					
Parameters shall be declared fo	r the average h	eating season, j	parameters for	the warmer and colder heating sea	sons are opt	ional.	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity, Outdoor	P _{rated,c}	12,1	kW	Seasonal Space Cooling Energy Efficiency, Outdoor	η _{s,c}	243,7	%
Cooling Capacity for Part Load a Temperatures T _i and Indoor 27°				Energy Efficiency Ratio for Part Outdoor Temperatures T _i	t Load at Giv	en	
T _i = + 35 °C	P _c	12,23	kW	T _i = + 35 °C	EER	3,21	-
$T_i = +30 ^{\circ}\text{C}$	P _c	8,69	kW	$T_i = +30 ^{\circ}\text{C}$	EER	5,05	-
$T_i = +25 \text{°C}$	P _c	5,64	kW	$T_i = +25 ^{\circ}C$	EER	6,57	-
$T_i = +20 ^{\circ}C$	P c	3,82	kW	$T_i = +20 ^{\circ}C$	EER	10,52	-
Average heating season capacit and outdoor temperature T_j	8	,		Average season coefficient of p part load at given outdoor temp	performance	,	-
Rated Heating Capacity	P rated,c	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{\text{s},h}$	157,2	%
T _i = -7 °C	P _h	9,04	kW	T _i = -7 °C	COP	2,39	-
T _i = +2 °C	P _h	5,41	kW	$T_i = +2 °C$	COP	3,85	-
T _i = +7 °C	P _h	3,55	kW	T _i = +7 °C	COP	5,56	-
T _i = +12 °C	P _h	3,04	kW	T _i = +12 °C	COP	6,85	-
Tbiv	P _h	9,04	kW	Tbiv	COP	2,39	-
ToL	Ph	8,25	kW	ToL	COP	3,35	
T _j = -15 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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}	x.x	-				
		Power C	onsumption in M	Nodes Other than 'Active Mode"			
Off Mode	P _{OFF}	0,00341	kW	Crankacase Heater Mode	Рск	0	kW
Standby Mode	P _{SB}	0,00341	kW	Back-up Heating Capacity	elbu	-	kW
Thermostat-Off Mode (Cooling / Heating)	Р _{то}	0,01473 / 0,02334	kW	Type of Energy Input			
		•	Ot	ther 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 C	O _{2 eq} (100 years)
Contact details for obtaining r	nore informatio	n on the setting	of the unit	SINCLAIR Corporation. Ltd., 1- info@sinclair-solutions.com / v	<u> </u>		

(*) 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

	MODEL			ASGE-48BI-3 + ASF-48BI				
		Ν	IEASURED	RESULT SUMMARY				
Outdoor side heat exchanger of	air conditioner:	: Air						
Indoor side heat exchanger of air	r conditioner: A	Air						
Indication if the heater is equipped	ed with a suppl	ementary heater	: No					
Type: Compressor driven vapour	r compression							
If applicable: Driver of compress	or: Electric mo	tor						
Parameters shall be declared for	the average h	eating season, p	arameters for	the warmer and colder heating sea	sons are opti	ional.		
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 a Temperatures T _i and Indoor 27°/				Energy Efficiency Ratio for Part Outdoor Temperatures T _i	Load at Giv	en		
T _i = + 35 °C	Pc	13,40	kW	T _i = + 35 °C	EER	2,97	-	
T _i = + 30 °C	P _c	9,60	kW	T _i = + 30 °C	EER	4,45	-	
T _i = + 25 °C	P _c	6,13	kW	T _i = + 25 °C	EER	7,09	-	
T _i = + 20 °C	Pc	3,15	kW	T _i = + 20 °C	EER	10,81	-	
Average heating season capacit and outdoor temperature T _j		,	ature 20 °C	Average season coefficient of p part load at given outdoor temp		for		
Rated Heating Capacity	P _{rated,c}	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	160,3	%	
T _i = -7 °C	Ph	9,95	kW	T _i = -7 °C	COP	2,70	-	
T _i = +2 °C	P _h	6,23	kW	T _i = +2 °C	COP	3,75	-	
T _i = +7 °C	P _h	3,92	kW	T _i = +7 °C	COP	5,78	-	
T _i = +12 °C	P _h	3,21	kW	T _i = +12 °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 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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 Co	onsumption in I	Nodes Other than 'Active Mode"				
Off Mode	P _{OFF}	0,003	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,003	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling / Heating)	Р _{то}	0,015 / 0,021	kW	Type of Energy Input		-		
			0	ther 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 C	O _{2 eq} (100 years)	
			6 11 11	SINCLAIR Corporation. Ltd., 1-	4 Argyll St., I	London, UK		
Contact details for obtaining n	nore informatio	on on the setting	of the unit	info@sinclair-solutions.com / v				

	MODEL			ASGE-60BI-3 + ASF-60BI					
		Ν	IEASURED	RESULT SUMMARY					
Outdoor side heat exchanger of	air conditioner	: Air							
Indoor side heat exchanger of ai	r conditioner: A	Air							
Indication if the heater is equipped	ed with a supp	lementary heater	: No						
Type: Compressor driven vapou	r compression								
If applicable: Driver of compress	or: Electric mo	tor							
Parameters shall be declared for	[.] the average h	neating season, p	arameters for	the warmer and colder heating sea	sons are opti	onal.			
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 a	it Given Outdo	or		Energy Efficiency Ratio for Part	Load at Giv	en			
Temperatures T_j and Indoor 27 $^{\circ}$	/19 °C (Dry / V	/et Bulb)		Outdoor Temperatures T _j					
T _j = + 35 °C	P _c	16,02	kW	T _j = + 35 °C	EER	2,97	-		
T _j = + 30 °C	P _c	11,37	kW	T _j = + 30 °C	EER	5,00	-		
T _j = + 25 °C	Pc	7,43	kW	T _j = + 25 °C	EER	7,53	-		
T _j = + 20 °C	Pc	4,54	kW	T _j = + 20 °C	EER	11,35	-		
Average heating season capacit and outdoor temperature T_j	y for part load	at indoor temper	ature 20 °C	Áverage season coefficient of p part load at given outdoor temp		for			
Rated Heating Capacity	P _{rated,c}	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	152,3	%		
T _j = -7 °C	P _h	11,02	kW	T _j = -7 °C	COP	2,48	-		
T _j = +2 °C	P _h	6,65	kW	T _j = +2 °C	COP	3,74	-		
T _j = +7 °C	P _h	4,44	kW	T _j = +7 °C	COP	5,22	-		
T _j = +12 °C	P _h	3,38	kW	T _j = +12 °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 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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 Co	onsumption in I	Modes Other than 'Active Mode"					
Off Mode	P _{OFF}	0,00270	kW	Crankacase Heater Mode	Рск	0	kW		
Standby Mode	P _{SB}	0,00270	kW	Back-up Heating Capacity	elbu	-	kW		
Thermostat-Off Mode (Cooling / Heating)	Р то	0,018 / 0,02467	kW	Type of Energy Input		-			
			0	ther 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 CC	0 _{2 eq} (100 years)		
			6 11	SINCLAIR Corporation. Ltd., 1-	4 Argyll St. I	London, UK			
Contact details for obtaining r	nore informatio	on on the setting	of the unit	info@sinclair-solutions.com / v					

	MODE			А	SGE-12BI + A	SD-12BI	
	FUNCTI				FUNCTIO		
Cooling		Yes		Average season		Yes	3
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 temperature Tj	g, at indoor ter	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19)°C and outdoor
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at ind	oor temperature 20 °C
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	
Ti = 12 °C	Pdh	1,03	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 heatin				Declared coefficient of performa		· · ·	oor temperature 20 °C
and outdoor temperature Tj	-			and outdoor temperature Tj	ſ		·
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 heatin	g / Colder sea	son, at indoor temperatu	ure 20 °C and	Declared coefficient of performa	ance / Colder s	eason, at indoo	or temperature 20 °C and
outdoor temperature Tj	r	r	T	outdoor temperature Tj	r	r	
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	Pcych	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 powe	r 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	Рск	0,000	kW	Heating / Colder	Q _{HE}	-	kWh/a
Consoity control	L	l		Other items		ي العربي العربي	
Capacity control				Other items	symbol	value	unit
Fixed		No		Sound power level (indoor/outdoor)	L _{WA}	59/64	dB(A)
	1	No		Global warming potential	GWP	675	kgCO ₂ eq.
Staged		NO					
Staged Variable		Yes		Rated air flow (indoor/outdoor)		650/3000	m ³ /h
Variable	anufacturer or	Yes					
Variable Name and address of the m		Yes		Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argyl	l St., London, L	IK
Variable	ive.	Yes			Ltd., 1-4 Argyl DPE spol. s r.o	l St., London, L ., Purkynova 45	IK

EUNCITION FUNCTION Neating Yes Average season Yes Name Seasonal effective No Design load Coder season No Design load Seasonal effective No Coding Settern 6,1 Heating / Average Pole-sjm 5,0 KW Coding SEER 6,1 Heating / Vammer Pole-sjm - KW Heating / Vammer SCOPM - Heating / Vammer Pole-sjm - KW Heating / Vammer SCOPW - Heating / Vammer Pole-sim - KW Heating / Vammer SCOPW - Heating / Vammer Pole-sim - KW Heating / Vammer SCOPW - Heating / Vammer Pole-sim - No Declared energy efficiency tab, at indox temperature 20		MODEL	<u>L</u>		ASGE-18BI + ASD-18BI				
Heating Yes Warmer reason No Design load Coder season No Item Symbol value unit Coding Pansion 6.0 KW Coding SEER 6.1 Heating / Average Poesign 4.2 KW Heating / Average SCOP/N -									
Design load Sessonal efficiency Liem Symbol value unit Hem symbol value unit Cooling Presign 5.0 KW Cooling SEERA 6.1 Heating / Verrage SECEPA 6.0 Heating / Verrage SECOPN 4.0 Heating / Verrage SCOPN - Heating / Verrage SCOPN - Heating / Verrage SCOPN - Heating / Verrage SCOPN - Declared capacity for cooling, at indoor temperature Z7(19)*C and outdoor temperature 1) Tem symbol value unit Tem Symbol value unit 1 = 30 *C Pdc 5.05 KW Ti = 30 *C EERd 3.26 1 = 20 *C Pdc 5.05 KW Ti = 20 *C EERd 4.82 1 = 20 *C Pdc 1.63 KW Ti = 20 *C EERd 7.86	Cooling				Average season				
Design land Sessonal efficiency Item symbol value unit Item symbol value unit Item Stellar 6.0 KW Cooling SEER 6.1	Heating		Yes		Warmer season		No		
item symbol value unit Item symbol value unit Cooling Pdesign 5.0 KW Colong SEER 6.1 Heating / Average Pdesign - KW Heating / Coler SCOP/A 4.0 Declared capacity for colong, at indoor temperature 21(19)°C and outdoor temperature 21(10)°C and outdoor temperature 21(10)°C and outdoor temperature 1 Symbol value unit Temperature 1 Symbol value Temperature 1 Symbol value Temperature 1 Symbol value unit Temperatur					Colder season		No		
	Design load				Seasonal efficiency				
Heating / Average Pdesign 4.2 KW Heating / Average SCOPW 4.0	Item	symbol	value	unit	Item	symbol	value	unit	
Heating / WarnerPdesign.KWHeating / ColderSCOP/CHeating / ColderPdesign.KWHeating / ColderSCOP/CDeclared capacity for cooling, at notor temperature 27(19)'C and outdoor temperature 17Image: ColderDeclared capacity for cooling, at notor temperature 27(19)'C and outdoor temperature 17Declared capacity for cooling, at notor temperature 27(19)'C and outdoor temperature 17Declared capacity for cooling, at notor temperature 27(19)'C and outdoor 	Cooling	Pdesignc	5,0	kW	Cooling	SEER	6,1		
Heating / Colder Pdesign - KW Heating / Colder SCOP/C -	Heating / Average	Pdesignh	4,2	kW	Heating / Average	SCOP/A	4,0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Heating / Warmer	Pdesignh	-	kW	Heating / Warmer	SCOP/W	-		
temperature Tjtermsymbolvalueunittemperature TjTj = 35 °CPdc5.05KWTj = 55 °CEERd3.26Tj = 30 °CPdc3.54KWTj = 25 °CEERd4.92Tj = 20 °CPdc1.88KWTj = 25 °CEERd10.69Declared capacity for heating/Nearge season, at indoor temperature ZTj = 20 °CEERd10.69Declared capacity for heating/Nearge season, at indoor temperature Zand outdoor temperature TjItemsymbolvalueunitItemsymbolvalueunitTj = 2 °CPdh3.70KWTj = 2 °CCOPd2.66Tj = 2 °CPdh1.50KWTj = 7 °CCOPd5.16Tj = 2 °CPdh1.49KWTj = 2 °CCOPd5.99Tj = 1 °CPdh1.49KWTj = 2 °CCOPd5.99Tj = a orating limitPdh3.70KWTj = 2 °CCOPd5.99Tj = a orating limitPdh3.70KWTj = 2 °CCOPd2.66Tj = a orating limitPdhKWTj = 2 °CCOPd2.66Tj = a orating limitPdh-KWTj = 2 °CCOPdTj = a orating limitPdh-KWTj = 2 °CCOPdTj = a orati	Heating / Colder	Pdesignh	-	kW	Heating / Colder	SCOP/C	-		
Tj = 38 °CPdc5.05kWTj = 35 °CEERd3.26 Tj = 30 °CPdc3.26 Tj = 25 °CEERd4.92 EERd10.69 Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating/Average season, at indoor temperature 20 °C and and outdoor temperature TjValueunitUtemSymbolvaluevalue1j = -7 °CPdh3.70KWTj = 2 °CCOPd2.66Tj = 2 °CPdh2.26KWTj = 2 °CCOPd3.97Tj = 2 °CPdh1.49KWTj = 2 °CCOPd5.16Tj = 1 °CPdh1.49KWTj = 1 °CCOPd5.66Tj = staient temperaturePdh3.70KWTj = toxlent temperatureCOPd5.66Tj = a parting limitPdh3.70KWTj = toxlent temperatureCOPd2.66Tj = a parting limitCOPd2.66<		g, at indoor ten	nperature 27(19)°C and	outdoor		, at indoor terr	perature 27(19)	°C and outdoor	
Tja 3° CPdc3.54kWTja 9° CEERd4.92Tj= 20° CPdc2.23kWTj= 25° CEERd7.66Tj= 20° CPdc1.68kWTj= 20° CEERd7.66Declared capacity for heating/Average season, at indoor temperature 20° C and outdoor temperature 10Declared coefficient of performance / Average season, at indoor temperature 20° C and outdoor temperature 10Declared coefficient of performance / Average season, at indoor temperature 20° C and outdoor temperature 10Declared coefficient of performance / Average season, at indoor temperature 20° C and outdoor temperature 10ItemsymbolvalueunitItemsymbolvalueunitTj = 7° CPdh3.70KWTj = 2° CCOPd5.16Tj = 1 brakent temperaturePdh3.50KWTj = brakent temperatureCOPd5.99Tj = 2° CPdh1.49KWTj = torcCOPd2.60Tj = coerating limitPdh3.70KWTj = torcCOPd2.60Tj = coerating limitPdh3.70KWTj = coeraet coefficient of performanceValueunitTj = coeraeting limitPdh3.70KWTj = coeraet coefficient of performanceTj = coeraeting limitPdh-KWTj = coeraeting limitCOPdTj = 7° CPdh-KWTj	Item	symbol	value	unit	Item	symbol	value	unit	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = 35 °C	Pdc	5,05	kW	Tj = 35 °C	EERd	3,26		
Tj= 20 °CPdc1,88KWTj= 20 °CEERd10.69 IDECLARED Coefficient of performance / Average season, at indoor temperature TJDeclared capacity for heating/Average season, at indoor temperature TJDeclared coefficient of performance / Average season, at indoor temperature TJItemsymbolvalueunitItemsymbolvalueunitTj<=7 °C	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		
and outdoor temperature TjitemsymbolvalueunitItemsymbolvalueunitI = -7 °CPdh3,70KWTj = -7 °CCOPd2,66Tj = 7 °CPdh2,26KWTj = 2 °CCOPd5,16Tj = 7 °CPdh1,50KWTj = 7 °CCOPd5,16Tj = brailent temperaturePdh1,55KWTj = 12 °CCOPd5,99Tj = brailent temperaturePdh3,55KWTj = brailing limitCOPd2,66Declared capacity for heatingValueunitTj = operating limitCOPd2,66ItemsymbolValueunitItemsymbolvalueunitTj = 2 °CPdh-KWTj = 2 °CCOPdItemsymbolvalueunitItemsymbolvalueunitTj = 2 °CPdh-KWTj = 2 °CCOPdTj = 2 °CPdh-KWTj = 2 °CCOPdTj = braient temperatureTj = i a corPdh-KWTj = 2 °CCOPdTj = braient temperaturePdh-KWTj = a corCOPdTj = 2 °CPdh-KWTj = 7 °CCOPdTj = 1 a °CPdh-KWTj =	Tj = 20 °C	Pdc	1,68	kW	Tj = 20 °C	EERd	10,69		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		g/Average sea	ison, at indoor temperat	ure 20 °C and		ance / Average	e season, at ind	oor temperature 20 °C	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Item	symbol	value	unit	Item	symbol	value	unit	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,			
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1								
Tj = operating limitPdh3,70kWTj = operating limitCOPd2,68Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating / Warmer season, at indoor temperature 20 and outdoor temperature TjDeclared capacity for heating / Warmer season, at indoor temperature 20 and outdoor temperature TjItemsymbolvalueunitItemsymbolvalueunitTj = 7 °CPdh-kWTj = 2 °CCOPdTj = 12 °CPdh-kWTj = 12 °CCOPdTj = 12 °CPdh-kWTj = bivalent temperatureCOPdTj = operating limitPdh-kWTj = operating limitCOPdDeclared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating / Pdh-kWTj = -7 °CItemsymbolvalueunitItemsymbolvalueunitTj = 7 °CPdh-kWTj = -7 °CCOPdTj = 2 °CPdh-kW	Ti = bivalent temperature	Pdh			,		· · ·		
Declared capacity for heating / Warmer season, at indoor temperature 20 °C and outdoor temperature TjDeclared coefficient of performance / Warmer season, at indoor temperature 2 and outdoor temperature TjItemsymbolvalueunitItemsymbolvalueunitTj = 2°CPdh-KWTj = 2°CCOPdTj = 7°CPdh-KWTj = 2°CCOPdTj = 7°CPdh-KWTj = 12°CCOPdTj = bivalent temperaturePdh-KWTj = 12°CCOPdTj = operating limitPdh-KWTj = operating limitCOPdDeclared capacity for heating / Colder season, at indoor temperature 20 °C and outdoor temperature TjDeclared coefficient of performance / Colder season, at indoor temperature 20 outdoor temperature TjItemsymbolvalueunitItemsymbolvalueunitTj = -7 °CPdh-KWTj = -7 °CCOPdTj = 2°CPdh-KWTj = 7 °CCOPdTj = 12 °CPdh-KWTj = 2°CCOPdTj = 12 °CPdh-KWTj = 12 °CCOPdTj = 12 °CPdh-KWTj = 12 °CCOPdTj = 15 °CPdh-KWTj = 15 °CCOPdTj = 15 °									
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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 -7 °C Heating / Warmer Tol -10 °C Heating / Colder Tbiv - °C Heating / Warmer Tol - °C Heating / Colder Tbiv - °C Heating / Colder Tol - °C Heating / Colder Tbiv - °C Heating / Colder Tol - °C Cycling interval capacity Cycling interval efficiency Cycling interval efficiency Value unit Item symbol value unit For cooling Pcycc x,x kW For cooling EERcyc x,x For heating Pcych x,x kW For heating COPcyc x,x							-		
ItemsymbolvalueunitItemsymbolvalueunitHeating / AverageTbiv-7°CHeating / AverageTol-10°CHeating / WarmerTbiv-°CHeating / WarmerTol-°CHeating / ColderTbiv-°CHeating / WarmerTol-°CHeating / ColderTbiv-°CHeating / ColderTol-°CHeating / ColderTbiv-°CHeating / ColderTol-°CCycling interval capacityCycling interval efficiencyCycling interval efficiencyvalueunitunitFor coolingPcyccx,xkWFor coolingEERcycx,xFor heatingPcychx,xkWFor heatingCOPcycx,xDegradation co-efficient coolingCdc0,25Degradation co-efficient heatingCdh0,25		Pan	-	KVV		COPa	-		
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For heating Pcych x,x kW For heating COPcyc x,x Degradation co-efficient cooling Cdc 0,25 Degradation co-efficient heating Cdh 0,25							1		
Degradation co-efficient cooling Cdc 0,25 Degradation co-efficient heating Cdh 0,25	•				*				
cooling Cac 0,25 heating Can 0,25	· · · · · · · · · · · · · · · · · · ·	Pcych	X,X	ĸŴ		COPcyc	X,X		
Electric power input in power modes other than 'active mode'	•	Cdc	0,25			Cdh	0,25		
	Electric power input in powe	r modes other	than 'active mode'	•	Annual electricity consumption	•	• •		
Off mode P _{OFF} 0,002513 kW Cooling Q _{CE} 277 kWh/a		(kW	Cooling	Q _{CF}	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							1 1		
Crankcase heater mode P _{CK} 0 kW Heating / Colder Q _{HE} - kWh/a							-		
	Conceitu control				Otheriter				
Capacity control Other items symbol value unit	Capacity control					symbol	value	unit	
Fixed No Sound power level (indoor/outdoor) L _{WA} (58/65) dB(A)	Fixed		No			L _{WA}	(58/65)	dB(A)	
Staged No Global warming potential GWP 675 kgCO2 ecc	Staged		No		Global warming potential	GWP	675	kgCO ₂ eq.	
Variable Yes Rated air flow (indoor/outdoor) (950/3000) m ³ / h	Variable		Yes		Rated air flow (indoor/outdoor)		(950/3000)	m ³ /h	
Name and address of the manufacturer or Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK	Name and address of the m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Arov	II St., London, U	К	
of its authorised representative. Representative: SINCLAIR EUROPE spol. s r.o., Purkynova 45, 612 00 Brno, Ca									
Contact details for obtaining more information info@sinclair-solutions.com / www.sinclair-solutions.com			ion					, <u>-</u>	
7 R32 (100% HFC-32)									

	MODEI	_		Α	SGE-24BI + A	SD-24BI	
	FUNCTIO				FUNCTI		
Cooling		Yes		Average season		Yes	
Heating		Yes		Warmer season		No	
				Colder season		No	
Design load			1	Seasonal efficiency		1 1	
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 kW	Heating / Warmer Heating / Colder	SCOP/W SCOP/C	-	
Heating / Colder Declared capacity for cooling	Pdesignh	-		Declared energy efficiency ratio		-	 O and outdoor
temperature Tj	g, at indoor ten		outdoor	temperature Tj	, at muoor ten		
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	or temperature 20 °C
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	ature 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warme	r season, at indo	or temperature 20 °C
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 heatin	g / Colder seas	son, at indoor temperatu	ure 20 °C and	Declared coefficient of performa	ance / Colder s	season, at indoo	r temperature 20 °C and
outdoor temperature Tj	· · ·			outdoor temperature Tj	· · ·		
	symbol	value	unit	Item	symbol	value	unit
Tj = - 7 °C Tj = 2 °C	Pdh Pdh	-	kW kW	Tj = - 7 °C Tj = 2 °C	COPd 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			1	Cycling interval efficiency			
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	Х,Х	
For heating	Pcych	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 powe	r 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	Р _{ск}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control			l	Other items	symbol	value	unit
Fixed		No		Sound power level (indoor/outdoor)	L _{WA}	(62/67)	dB(A)
Staged		No		(Indoor/outdoor) Global warming potential	GWP	675	kgCO ₂ eq.
Variable							m ³ /h
Name and address of the m	anufacturer or	Yes		Rated air flow (indoor/outdoor) Manufacturer: SINCLAIR Corp.	 Ltd., 1-4 Aray	(1200/3600)	
of its authorised representat				Representive: SINCLAIR EURO			
Contact details for obtaining		ion		info@sinclair-solutions.com / v			
* R32 (100% HFC-32)							

	MODE	L_		A	SGE-30BI + A	ASD-30BI	
	FUNCTI				FUNCTI		
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 temperature Tj	g, at indoor ter	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor terr	perature 27(19)	°C and outdoor
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 heatin outdoor temperature Tj	g/Average sea	ison, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	bor temperature 20 °C
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 heatin and outdoor temperature Tj	g / Warmer se	ason, at indoor tempera	ture 20 °C	Declared coefficient of performa and outdoor temperature Tj	ance / Warme	r season, at indo	oor temperature 20 °C
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 heatin outdoor temperature Tj	g / Colder sea:	son, at indoor temperati	ire 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and
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	a set at			Operating limit temperature	a sub at	I at a I	
Item	symbol	value -7	unit °C	Item	symbol Tol	value -10	°C
Heating / Average Heating / Warmer	Tbiv Tbiv	-/	°C	Heating / Average Heating / Warmer	Tol	-10	0°
Heating / Warmer Heating / Colder	Tbiv	-	°C	Heating / Colder	Tol	-	0°
Cycling interval capacity	TDIV	-	0	Cycling interval efficiency	101	<u> </u>	0
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	x,x	kW	For cooling	EERcyc	X,X	
For heating	Pcych	x,x	kW	For heating	COPcyc	х,х	
Degradation co-efficient				Degradation co-efficient			
cooling	Cdc	0,25		heating	Cdh	0,25	
Electric power input in powe	r 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	Рск	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items	symbol	value	unit
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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Itd 1-4 Arow	ISt London II	к
of its authorised representat				Representive: SINCLAIR EURO			
Contact details for obtaining		ion		info@sinclair-solutions.com / v			,
* R32 (100% HFC-32)							

	MODEI			A	SGE-36BI + A	SD-36BI	
	FUNCTIO				FUNCTI		
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 temperature Tj	g, at indoor ten	nperature 27(19)°C and	outdoor	Declared energy efficiency ratio temperature Tj	, at indoor tem	perature 27(19)	°C and outdoor
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 heatin outdoor temperature Tj	g/Average sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at indo	oor temperature 20 °C
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 heatin				Declared coefficient of performa			or temperature 20 °C
and outdoor temperature Tj	-			and outdoor temperature Tj	r		
Item	symbol	value	unit		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 heatin outdoor temperature Tj	ig / Colder seas	son, at indoor temperati	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indoo	r temperature 20 °C and
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	1			Operating limit temperature		I I	
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	1			Cycling interval efficiency	1	<u>г</u>	
Item	symbol	value	unit	Item	symbol	value	unit
For cooling	Pcycc	X,X	kW	For cooling	EERcyc	x,x	
For heating	Pcych	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 powe	r 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	Р _{ск}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control	I	I		Other items	symbol	value	unit
Fixed		No		Sound power level (indoor/outdoor)	L _{WA}	(65/70)	dB(A)
		No		Global warming potential	GWP	675	kgCO ₂ eq.
Staged				give the standing potonition		0.0	52 -4.
Staged				Dotod oir flow (index ((1900/5000)	3
Variable	anufacturer or	Yes		Rated air flow (indoor/outdoor) Manufacturer: SINCLAIR Corp.	 Ltd., 1-4 Aray	(1800/5900)	m ³ /h
Variable Name and address of the m		Yes		Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Argy	Il St., London, U	к
Variable	tive.			. ,	Ltd., 1-4 Argy DPE spol. s r.c	II St., London, U ., Purkynova 45	к

	MODEL	-		AS	GE-36BI-3 +	ASD-36BI	
	FUNCTIO	ON			FUNCTIO	ON	
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 coolin temperature Tj	ig, at indoor ter	nperature 27(19)°C and	d outdoor	Declared energy efficiency ration temperature Tj	o, at indoor ten	nperature 27(19)°C and outdoor
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 heatir outdoor temperature Tj	ng/Average sea	son, at indoor tempera	ture 20 °C and	Declared coefficient of performa and outdoor temperature Tj	ance / Average	e season, at ind	oor temperature 20 °C
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 heatir				Declared coefficient of performation			oor temperature 20 °C
and outdoor temperature Tj	-		1	and outdoor temperature Tj	F		
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 heatir outdoor temperature Tj	ng / Colder sea	son, at indoor temperat	ure 20 °C and	Declared coefficient of performa outdoor temperature Tj	ance / Colder s	season, at indo	or temperature 20 °C and
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	,	COPd	-	
Ti = - 15 °C	Pdh	-	kW kW	Tj = bivalent temperature	COPd	-	
Bivalent temperature	Pull	-	KVV	Tj = - 15 °C Operating limit temperature	COPu	- 1	
Item	symbol	value	unit	Item	symbol	voluo	unit
	Tbiv	value -7	unit °C		Tol	value -10	unit °C
Heating / Average Heating / Warmer	Tbiv		°C	Heating / Average Heating / Warmer	Tol		0°C
Heating / Warmer	Tbiv	-	°C	Heating / Warmer Heating / Colder	Tol	-	0°
Cycling interval capacity	TDIV	-	C	Cycling interval efficiency	101	-	C
Item	ovmbol	value	unit	Item	ovmbol	voluo	unit
For cooling	symbol	value	kW	For cooling	symbol EERcyc	value	unit
For cooling For heating	Pcycc	X,X	kW	For cooling For heating	COPcyc	X,X	
÷	Pcych	X,X	NVV	•	COPCyc	X,X	
Degradation co-efficient cooling	Cdc	0,25		Degradation co-efficient heating	Cdh	0,25	
Electric power input in power			1	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	Р _{ск}	0	kW	Heating / Colder	Q _{HE}	-	kWh/a
Capacity control				Other items	symbol	value	unit
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 m	anufacturer or			Manufacturer: SINCLAIR Corp.	Ltd., 1-4 Arov	II St., London, I	JK
of its authorised representa				Representive: SINCLAIR EUR			
Contact details for obtaining		ion		info@sinclair-solutions.com / v			.,
* R32 (100% HFC-32)							
1102 (100 /0 MEG-32)							

	MODEL			AS	GE-42BI-3 +	ASD-42BI	
		Γ	MEASURED	RESULT SUMMARY			
Outdoor side heat exchanger of	air conditioner:						
Indoor side heat exchanger of ai	r conditioner: A	vir					
Indication if the heater is equipped			r: No				
Type: Compressor driven vapou							
If applicable: Driver of compress		tor					
11 1			parameters for	the warmer and colder heating sea	sons are opti	ional.	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Cooling Capacity,	P _{rated.c}	12,1	kW	Seasonal Space Cooling	η _{s.c}	244,4	%
Outdoor		,		Energy Efficiency, Outdoor	,	,	
Cooling Capacity for Part Load a				Energy Efficiency Ratio for Part	t Load at Giv	en	
Temperatures T _j and Indoor 27°	()	,		Outdoor Temperatures T _j		r	
T _j = + 35 °C	P _c	12,21	kW	T _j = + 35 °C	EER	3,26	-
T _j = + 30 °C	P _c	8,66	kW	$T_{j} = +30 \ ^{\circ}C$	EER	4,51	-
T _j = + 25 °C	P _c	5,56	kW	T _j = + 25 °C	EER	7,14	-
T _j = + 20 °C	P _c	3,77	kW	T _j = + 20 °C	EER	10,65	-
Average heating season capacit and outdoor temperature T_{j}	y for part load :	at indoor temper	ature 20 °C	Average season coefficient of p part load at given outdoor temp		for	
Rated Heating Capacity	P rated,c	13,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	159,0	%
T _i = -7 °C	P _h	8,91	kW	$T_i = -7 \ ^{\circ}C$	COP	2,56	-
T _i = +2 °C	P _h	5,54	kW	T _i = +2 °C	COP	4,05	-
T _i = +7 °C	P h	3,53	kW	T _i = +7 °C	COP	5,35	-
$T_i = +12 \text{ °C}$	P _h	3,04	kW	$T_i = +12 \text{ °C}$	COP	5,85	-
Tbiv	P _h	8,91	kW	Tbiv	COP	2,56	-
ToL	P _h	7,91	kW	ToL	COP	2,45	
$T_i = -15 \ ^{\circ}C$.,		T _i = -15 °C		_,	
(if T OL <- 20 °C)	Pth	-	kW	(if T OL <- 20 °C)	COP	-	-
Bivalent Temperature	Tbiv	-7	°C	Operation Limit Temperature	ToL	-10	°C
Degradation coefficient for air conditioners	C _{dc}	X.X	-				
conditioners		Power C	onsumption in I	Modes Other than 'Active Mode"			
Off Mode	P OFF	0,00357	kW	Crankacase Heater Mode	Р _{ск}	0	kW
Standby Mode	P _{SB}	0,00357	kW	Back-up Heating Capacity	elbu	-	kW
· · · · ·		0,00357			CIDU	-	N V V
Thermostat-Off Mode (Cooling / Heating)	Ρ _{το}	0,014977	kW	Type of Energy Input		-	
			0	ther 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 Ci	O _{2 eq} (100 years)
				SINCLAIR Corporation. Ltd., 1-	4 Argyll St. I	London, UK	
Contact details for obtaining r	nore informatio	n on the setting	of the unit	info@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

MODEL				ASGE-48BI-3 + ASD-48BI				
		N	IEASURED	RESULT SUMMARY				
Outdoor side heat exchanger of	air conditioner:	: Air						
Indoor side heat exchanger of air	r conditioner: A	Air						
Indication if the heater is equipped	ed with a suppl	lementary heater	: No					
Type: Compressor driven vapour	r compression							
If applicable: Driver of compress	or: Electric mo	tor						
Parameters shall be declared for	· the average h	neating season, p	arameters for	the warmer and colder heating sea	sons are opti	onal.		
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 a Temperatures T _i and Indoor 27°/			Energy Efficiency Ratio for Part Load at Given Outdoor Temperatures T _i					
T _i = + 35 °C	Pc	13,40	kW	T _i = + 35 °C	EER	2,71	-	
T _i = + 30 °C	P _c	9,70	kW	T _i = + 30 °C	EER	4,34	-	
$T_i = + 25 ^{\circ}C$	Pc	6.30	kW	$T_i = +25 ^{\circ}C$	EER	5.96	-	
$T_i = +20 \text{°C}$	Pc	2.99	kW	$T_i = +20 ^{\circ}C$	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,c}	15,50	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	148,2	%	
T _i = -7 °C	P _h	10,08	kW	T _i = -7 °C	COP	2,47	-	
T _i = +2 °C	P _h	6,12	kW	T _i = +2 °C	COP	3,73	-	
T _i = +7 °C	P _h	3,92	kW	T _i = +7 °C	COP	4,92	-	
T _i = +12 °C	P _h	3,60	kW	T _i = +12 °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 °C (if T OL <- 20 °C)	Pth	-	kW	T _j = -15 °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 Co	onsumption in I	Modes Other than 'Active Mode"				
Off Mode	P _{OFF}	0,003	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,003	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling / Heating)	Р то	0,013 / 0,0243	kW	Type of Energy Input		-		
			0	ther 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)		
			6 11 11	SINCLAIR Corporation. Ltd., 1-	4 Argyll St. I	London. UK		
Contact details for obtaining n	nore informatio	on on the setting	of the unit	info@sinclair-solutions.com / v				

MODEL				ASGE-60BI-3 + ASD-60BI				
		Ν	IEASURED	RESULT SUMMARY				
Outdoor side heat exchanger of a	air conditioner:	Air						
Indoor side heat exchanger of air	r conditioner: A	Air						
Indication if the heater is equipped	ed with a suppl	ementary heater	: No					
Type: Compressor driven vapour	r compression							
If applicable: Driver of compresso	or: Electric mot	tor						
Parameters shall be declared for	the average h	eating season, p	arameters for	the warmer and colder heating seas	sons are opti	ional.		
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				Energy Efficiency Ratio for Part Load at Given				
Temperatures T _j and Indoor 27°/	· ·	/et Bulb)		Outdoor Temperatures T _j	r	·		
T _j = + 35 °C	P _c	16,27	kW	T _j = + 35 °C	EER	3,02	-	
T _j = + 30 °C	P _c	11,38	kW	T _j = + 30 °C	EER	4,95	-	
T _j = + 25 °C	P _c	7,22	kW	T _j = + 25 °C	EER	7,48	-	
T _j = + 20 °C	P _c	4,68	kW	T _j = + 20 °C	EER	10,88	-	
Average heating season capacity for part load at indoor temperature 20 $^\circ \rm C$ and outdoor temperature $\rm T_j$				Average season coefficient of performance for part load at given outdoor temperatures T _j				
Rated Heating Capacity	P _{rated,c}	17,00	kW	Seasonal Space Heating Energy Efficiency	$\eta_{s,h}$	143,9	%	
T _j = -7 °C	Ph	10,89	kW	$T_j = -7 \ ^{\circ}C$	COP	2,29	-	
T _i = +2 °C	P _h	6,65	kW	T _j = +2 °C	COP	3,49	-	
T _i = +7 °C	Ph	4,51	kW	T _i = +7 °C	COP	5,11	-	
T _i = +12 °C	P _h	3,33	kW	T _i = +12 °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 °C	Pth	_	kW	T _j = -15 °C	СОР	_		
(if T OL <- 20 °C)				(if T OL <- 20 °C)				
Bivalent Temperature	Tbiv	-7	°C	Operation Limit Temperature	ToL	-10	°C	
Degradation coefficient for air conditioners	C _{dc}	0,25	-					
		Power Co	onsumption in I	Modes Other than 'Active Mode"				
Off Mode	P _{OFF}	0,00498	kW	Crankacase Heater Mode	Рск	0	kW	
Standby Mode	P _{SB}	0,00498	kW	Back-up Heating Capacity	elbu	-	kW	
Thermostat-Off Mode (Cooling / Heating)	Р _{то}	0,01691 / 0,02436	kW	Type of Energy Input		-		
			0	ther 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 / Dutdoor Measured (Heating)	L _{WA}	67,6 / 72,5	dB	GWP of the Refrigerant	675	kg CO _{2 eq} (100 years)		
			6 11	SINCLAIR Corporation. Ltd., 1-	4 Argyll St., I	London, UK		
Contact details for obtaining m	nore informatio	n on the setting	of the unit	info@sinclair-solutions.com / v				