

Information requirements for air-to-air conditioners

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-200EA Test matching indoor units from2,non-duct:2×SDV4-45CAF* + 2×SDV4-56CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	20	kW		Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	219.8	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	20.000	kW		$T_j=+35^\circ\text{C}$	EER_d	2.23	-
$T_j=+30^\circ\text{C}$	P_{dc}	13.554	kW		$T_j=+30^\circ\text{C}$	EER_d	4.28	-
$T_j=+25^\circ\text{C}$	P_{dc}	8.951	kW		$T_j=+25^\circ\text{C}$	EER_d	7.34	-
$T_j=+20^\circ\text{C}$	P_{dc}	7.218	kW		$T_j=+20^\circ\text{C}$	EER_d	10.51	-
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.040	kW		Crankcase heater mode	P_{CK}	0.040	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	-	9800	m ³ /h
Sound power level,outdoor	L_{WA}	76	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
Contact details: Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK info@sinclair-eu.com / www.sinclair-eu.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps 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 performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer								

Heating mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-200EA								
Test matching indoor units from2,non-duct:2×SDV4-45CAF* + 2×SDV4-56CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable:driver of compressor:electric motor								
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	22	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	142.6	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=-7^{\circ}C$	P_{dh}	10.899	kW		$T_j=-7^{\circ}C$	COP_d	2.15	-
$T_j=+2^{\circ}C$	P_{dh}	6.761	kW		$T_j=+2^{\circ}C$	COP_d	3.52	-
$T_j=+7^{\circ}C$	P_{dh}	4.627	kW		$T_j=+7^{\circ}C$	COP_d	5.24	-
$T_j=+12^{\circ}C$	P_{dh}	5.162	kW		$T_j=+12^{\circ}C$	COP_d	6.90	-
T_{biv} =bivalent temperature	P_{dh}	10.899	kW		T_{biv} =bivalent temperature	COP_d	2.15	-
T_{OL} =operation temperature	P_{dh}	9.517	kW		T_{OL} =operation temperature	COP_d	1.85	-
Bivalent temperature	P_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)								
	C_{dh}	0.25	-					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.040	kW		Back-up heating capacity(*)	e_{lbu}	0.040	kW
Thermosat-off mode	P_{TO}	0.040	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.040	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	-	9800	m³/h
Sound power level,outdoor	L_{WA}	76	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-224EA Test matching indoor units from2,non-duct:2×SDV4-40CAF* + 2×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	22.4	kW		Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	239.4	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	22.400	kW		$T_j=+35^\circ\text{C}$	EER_d	3.00	-
$T_j=+30^\circ\text{C}$	P_{dc}	15.670	kW		$T_j=+30^\circ\text{C}$	EER_d	5.10	-
$T_j=+25^\circ\text{C}$	P_{dc}	10.313	kW		$T_j=+25^\circ\text{C}$	EER_d	7.47	-
$T_j=+20^\circ\text{C}$	P_{dc}	8.385	kW		$T_j=+20^\circ\text{C}$	EER_d	11.09	-
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.040	kW		Crankcase heater mode	P_{CK}	0.040	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	-	9800	m^3/h
Sound power level,outdoor	L_{WA}	76	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps 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 performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer								

Heating mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-224EA								
Test matching indoor units from2,non-duct:2×SDV4-40CAF* + 2×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable:driver of compressor:electric motor								
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	24.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	146.6	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=-7^{\circ}\text{C}$	P_{dh}	11.739	kW		$T_j=-7^{\circ}\text{C}$	COP_d	2.61	-
$T_j=+2^{\circ}\text{C}$	P_{dh}	7.550	kW		$T_j=+2^{\circ}\text{C}$	COP_d	3.60	-
$T_j=+7^{\circ}\text{C}$	P_{dh}	4.958	kW		$T_j=+7^{\circ}\text{C}$	COP_d	4.85	-
$T_j=+12^{\circ}\text{C}$	P_{dh}	5.366	kW		$T_j=+12^{\circ}\text{C}$	COP_d	6.18	-
T_{biv} =bivalent temperature	P_{dh}	11.739	kW		T_{biv} =bivalent temperature	COP_d	2.61	-
T_{OL} =operation temperature	P_{dh}	9.441	kW		T_{OL} =operation temperature	COP_d	1.68	-
Bivalent temperature	P_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	-					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.040	kW		Back-up heating capacity(*)	e_{lbu}	0.040	kW
Thermosat-off mode	P_{TO}	0.040	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.040	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	-	9800	m ³ /h
Sound power level,outdoor	L_{WA}	76	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-260EA Test matching indoor units from2,non-duct:2×SDV4-56CAF* + 2×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	26	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	214.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	26.000	kW		$T_j=+35^\circ\text{C}$	EER_d	2.35	-
$T_j=+30^\circ\text{C}$	P_{dc}	18.144	kW		$T_j=+30^\circ\text{C}$	EER_d	4.32	-
$T_j=+25^\circ\text{C}$	P_{dc}	11.733	kW		$T_j=+25^\circ\text{C}$	EER_d	6.61	-
$T_j=+20^\circ\text{C}$	P_{dc}	9.074	kW		$T_j=+20^\circ\text{C}$	EER_d	9.96	-
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.040	kW		Crankcase heater mode	P_{CK}	0.040	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	-	9800	m ³ /h
Sound power level,outdoor	L_{WA}	77	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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(*)If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps 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 performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer								

Heating mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-260EA Test matching indoor units from2,non-duct:2×SDV4-56CAF* + 2×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable:driver of compressor:electric motor								
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	28.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	147.4	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=-7^{\circ}C$	P_{dh}	13.904	kW		$T_j=-7^{\circ}C$	COP_d	2.51	-
$T_j=+2^{\circ}C$	P_{dh}	8.426	kW		$T_j=+2^{\circ}C$	COP_d	3.56	-
$T_j=+7^{\circ}C$	P_{dh}	5.766	kW		$T_j=+7^{\circ}C$	COP_d	5.21	-
$T_j=+12^{\circ}C$	P_{dh}	6.222	kW		$T_j=+12^{\circ}C$	COP_d	6.56	-
T_{biv} =bivalent temperature	P_{dh}	13.904	kW		T_{biv} =bivalent temperature	COP_d	2.51	-
T_{OL} =operation temperature	P_{dh}	10.358	kW		T_{OL} =operation temperature	COP_d	1.89	-
Bivalent temperature	P_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	-					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.040	kW		Back-up heating capacity(*)	e_{lbu}	0.040	kW
Thermosat-off mode	P_{TO}	0.040	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.040	kW		Standby mode	P_{SB}	0.040	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	-	9800	m³/h
Sound power level,outdoor	L_{WA}	77	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
Contact details: Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK info@sinclair-eu.com / www.sinclair-eu.com								
(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								

Information requirements for air-to-air conditioners

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s): SDV4-400EAA Test matching indoor units from 2, non-duct: 4×SDV4-71CAF* + 2×SDV4-56CAF*								
Outdoor side heat exchanger of air conditioner: air								
Indoor side heat exchanger of air conditioner: air								
Type: compressor driven								
If applicable: driver of compressor: electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	40	kW		Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	200.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	40.000	kW		$T_j=+35^\circ\text{C}$	EER_d	2.07	-
$T_j=+30^\circ\text{C}$	P_{dc}	26.685	kW		$T_j=+30^\circ\text{C}$	EER_d	4.24	-
$T_j=+25^\circ\text{C}$	P_{dc}	17.997	kW		$T_j=+25^\circ\text{C}$	EER_d	6.48	-
$T_j=+20^\circ\text{C}$	P_{dc}	17.480	kW		$T_j=+20^\circ\text{C}$	EER_d	8.25	-
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.070	kW		Crankcase heater mode	P_{CK}	0.070	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.070	kW
Other items								
Capacity control	variable				For air-to-air air conditioner: air flow rate, outdoor measured	-	16300	m^3/h
Sound power level, outdoor	L_{WA}	82	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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(*) If C_{dc} is not determined by measurement then the default degradation coefficient of heat pumps 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 performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer								

Heating mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-400EAA								
Test matching indoor units from2,non-duct:4×SDV4-71CAF* + 2×SDV4-56CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable:driver of compressor:electric motor								
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	45	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	137.4	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=-7^{\circ}C$	P_{dh}	20.604	kW		$T_j=-7^{\circ}C$	COP_d	2.13	-
$T_j=+2^{\circ}C$	P_{dh}	12.860	kW		$T_j=+2^{\circ}C$	COP_d	3.32	-
$T_j=+7^{\circ}C$	P_{dh}	8.606	kW		$T_j=+7^{\circ}C$	COP_d	5.11	-
$T_j=+12^{\circ}C$	P_{dh}	9.818	kW		$T_j=+12^{\circ}C$	COP_d	6.24	-
T_{biv} =bivalent temperature	P_{dh}	20.604	kW		T_{biv} =bivalent temperature	COP_d	2.13	-
T_{OL} =operation temperature	P_{dh}	18.365	kW		T_{OL} =operation temperature	COP_d	1.97	-
Bivalent temperature	P_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)								
	C_{dh}	0.25	-		Supplementary heater			
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.070	kW		Back-up heating capacity(*)	e_{lbu}	0.070	kW
Thermosat-off mode	P_{TO}	0.070	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.070	kW		Standby mode	P_{SB}	0.070	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	-	16300	m³/h
Sound power level,outdoor	L_{WA}	82	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
Contact details: Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK info@sinclair-eu.com / www.sinclair-eu.com								
(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								

Cooling mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-450EAA Test matching indoor units from2,non-duct:6×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	45	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	198.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	45.000	kW		$T_j=+35^\circ\text{C}$	EER_d	2.08	-
$T_j=+30^\circ\text{C}$	P_{dc}	30.072	kW		$T_j=+30^\circ\text{C}$	EER_d	4.27	-
$T_j=+25^\circ\text{C}$	P_{dc}	20.884	kW		$T_j=+25^\circ\text{C}$	EER_d	6.68	-
$T_j=+20^\circ\text{C}$	P_{dc}	20.672	kW		$T_j=+20^\circ\text{C}$	EER_d	8.15	-
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.110	kW		Crankcase heater mode	P_{CK}	0.110	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.110	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	-	16300	m^3/h
Sound power level,outdoor	L_{WA}	83	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
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Where information relates to multi-split air conditioners,the test result and performance data may be obtained on the basis of performance of the outdoor unit ,with a combination of indoor unit(s) recommended by the manufacturer or importer								

Heating mode:

Information requirements for air-to-air conditioners								
Model(s):SDV4-450EAA Test matching indoor units from2,non-duct:6×SDV4-71CAF*								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable:driver of compressor:electric motor								
Parameters shall be declared for the average heating season,parameters for the warmer and colder heating seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	50	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures T_j					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=-7^\circ\text{C}$	P_{dh}	20.674	kW		$T_j=-7^\circ\text{C}$	COP_d	2.09	-
$T_j=+2^\circ\text{C}$	P_{dh}	13.414	kW		$T_j=+2^\circ\text{C}$	COP_d	3.25	-
$T_j=+7^\circ\text{C}$	P_{dh}	8.606	kW		$T_j=+7^\circ\text{C}$	COP_d	5.09	-
$T_j=+12^\circ\text{C}$	P_{dh}	10.048	kW		$T_j=+12^\circ\text{C}$	COP_d	6.37	-
T_{biv} =bivalent temperature	P_{dh}	20.674	kW		T_{biv} =bivalent temperature	COP_d	2.09	-
T_{OL} =operation temperature	P_{dh}	18.998	kW		T_{OL} =operation temperature	COP_d	2.01	-
Bivalent temperature	P_{biv}	-7	°C					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	-					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.110	kW		Back-up heating capacity(*)	e_{lbu}	0.110	kW
Thermosat-off mode	P_{TO}	0.110	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.110	kW		Standby mode	P_{SB}	0.110	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	-	16300	m³/h
Sound power level,outdoor	L_{WA}	83	dB					
GWP of the refrigerant		2088	kg CO ₂ eq (100years)					
Contact details: Manufacturer: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK info@sinclair-eu.com / www.sinclair-eu.com								
(**)If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								