Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-252EAF;
Test matching indoor units form 1, Duct: 4×SDV4-63DHAF; test matching indoor units form 2, non-duct: 4×SDV4-63CAF;;

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	$P_{rated,c}$	25.2	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	204.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	25.200	kW		T_j=+35℃	EER_d	3.15	--
T_j=+30℃	P_{dc}	17.637	kW		T_j=+30℃	EER_d	4.18	--
T_j=+25℃	P_{dc}	10.919	kW		T_j=+25℃	EER_d	6.01	--
T_j=+20℃	P_{dc}	5.975	kW		T_j=+20℃	EER_d	8.88	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.046	kW		Crankcase heater mode	P_{CK}	0.046	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	12000	m^3/h
Sound power level,outdoor	L_{WA}	79	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 heat pumps

Model(s):SDV4-252EAF;
Test matching indoor units form 1, Duct: 4×SDV4-63DHAF; test matching indoor units form 2, non-duct:4×SDV4-63CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	27	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	17.491	kW		T_j=-7℃	COP_d	2.32	--
T_j=+2℃	P_{dh}	10.817	kW		T_j=+2℃	COP_d	3.27	--
T_j=+7℃	P_{dh}	7.36	kW		T_j=+7℃	COP_d	4.61	--
T_j=+12℃	P_{dh}	5.186	kW		T_j=+12℃	COP_d	4.95	--
T_{biv}=bivalent temperature	P_{dh}	19.412	kW		T_{biv} =bivalent temperature	COP_d	1.93	--
T_{OL}=operation temperature	P_{dh}	19.412	kW		T_{OL} =operation temperature	COP_d	1.93	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.046	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.046	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m^3/h
Sound power level,outdoor	L_{WA}	79	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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-280EAF;
Test matching indoor units form 1, Duct: 4×SDV4-71DHAF; test matching indoor units form 2, non-duct: 4×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	$P_{rated,c}$	28	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	201.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	28.000	kW		T_j=+35℃	EER_d	3.00	--
T_j=+30℃	P_{dc}	20.254	kW		T_j=+30℃	EER_d	3.99	--
T_j=+25℃	P_{dc}	12.078	kW		T_j=+25℃	EER_d	5.81	--
T_j=+20℃	P_{dc}	5.975	kW		T_j=+20℃	EER_d	8.88	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.046	kW		Crankcase heater mode	P_{CK}	0.046	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	12000	m^3/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_{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 heat pumps

Model(s):SDV4-280EAF;
Test matching indoor units form 1, Duct: 4×SDV4-71DHAF; test matching indoor units form 2, non-duct: 4×SDV4-71CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	31.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	17.491	kW		T_j=-7℃	COP_d	2.32	--
T_j=+2℃	P_{dh}	10.817	kW		T_j=+2℃	COP_d	3.27	--
T_j=+7℃	P_{dh}	7.36	kW		T_j=+7℃	COP_d	4.61	--
T_j=+12℃	P_{dh}	5.186	kW		T_j=+12℃	COP_d	4.95	--
T_{biv}=bivalent temperature	P_{dh}	19.412	kW		T_{biv} =bivalent temperature	COP_d	1.93	--
T_{OL}=operation temperature	P_{dh}	19.412	kW		T_{OL} =operation temperature	COP_d	1.93	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.046	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.046	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m^3/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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-335EAF;
Test matching indoor units form 1, Duct: 6×SDV4-56DAF; test matching indoor units form 2, non-duct: 6×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	$P_{rated,c}$	33.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	189.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	33.500	kW		T_j=+35℃	EER_d	3.04	--
T_j=+30℃	P_{dc}	24.617	kW		T_j=+30℃	EER_d	4.12	--
T_j=+25℃	P_{dc}	15.592	kW		T_j=+25℃	EER_d	5.28	--
T_j=+20℃	P_{dc}	7.176	kW		T_j=+20℃	EER_d	7.11	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.046	kW		Crankcase heater mode	P_{CK}	0.046	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	12000	m^3/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_{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 heat pumps

Model(s):SDV4-335EAF;
Test matching indoor units form 1, Duct： 6×SDV4-56DAF; test matching indoor units form 2, non-duct: 6×SDV4-56CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	37.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	17.528	kW		T_j=-7℃	COP_d	2.31	--
T_j=+2℃	P_{dh}	10.736	kW		T_j=+2℃	COP_d	3.22	--
T_j=+7℃	P_{dh}	7.16	kW		T_j=+7℃	COP_d	4.70	--
T_j=+12℃	P_{dh}	5.983	kW		T_j=+12℃	COP_d	5.53	--
T_{biv}=bivalent temperature	P_{dh}	19.9	kW		T_{biv} =bivalent temperature	COP_d	1.80	--
T_{OL}=operation temperature	P_{dh}	19.9	kW		T_{OL} =operation temperature	COP_d	1.80	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.046	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.046	kW		Standby mode	P_{SB}	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m^3/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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-400EAF;
Test matching indoor units form 1, Duct： 6×SDV4-67DAF; test matching indoor units form 2, non-duct:3×SDV4-63CAF+3×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	$P_{rated,c}$	40	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	194.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	40.000	kW		T_j=+35℃	EER_d	3.10	--
T_j=+30℃	P_{dc}	29.248	kW		T_j=+30℃	EER_d	4.15	--
T_j=+25℃	P_{dc}	18.563	kW		T_j=+25℃	EER_d	5.58	--
T_j=+20℃	P_{dc}	8.696	kW		T_j=+20℃	EER_d	7.06	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.05	kW		Crankcase heater mode	P_{CK}	0.05	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.05	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	14000	m^3/h
Sound power level,outdoor	L_{WA}	88	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 heat pumps

Model(s):SDV4-400EAF;
Test matching indoor units form 1, Duct： 6×SDV4-67DAF; test matching indoor units form 2, non-duct:3×SDV4-63CAF+3×SDV4-71CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	40	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	21.507	kW		T_j=-7℃	COP_d	2.23	--
T_j=+2℃	P_{dh}	13.948	kW		T_j=+2℃	COP_d	3.35	--
T_j=+7℃	P_{dh}	8.508	kW		T_j=+7℃	COP_d	4.59	--
T_j=+12℃	P_{dh}	6.022	kW		T_j=+12℃	COP_d	5.49	--
T_{biv}=bivalent temperature	P_{dh}	24.366	kW		T_{biv} =bivalent temperature	COP_d	1.86	--
T_{OL}=operation temperature	P_{dh}	24.366	kW		T_{OL} =operation temperature	COP_d	1.86	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.05	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.05	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.05	kW		Standby mode	P_{SB}	0.05	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	14000	m^3/h
Sound power level,outdoor	L_{WA}	88	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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-450EAF;
Test matching indoor units form 1, Duct： 6×SDV4-76DAF; test matching indoor units form 2, non-duct: 6×SDV4-76CAF;

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	$\eta_{s,c}$	192.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	45.000	kW		T_j=+35℃	EER_d	2.80	--
T_j=+30℃	P_{dc}	32.521	kW		T_j=+30℃	EER_d	4.10	--
T_j=+25℃	P_{dc}	20.844	kW		T_j=+25℃	EER_d	5.54	--
T_j=+20℃	P_{dc}	9.484	kW		T_j=+20℃	EER_d	7.12	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.05	kW		Crankcase heater mode	P_{CK}	0.05	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.05	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	14000	m^3/h
Sound power level,outdoor	L_{WA}	88	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 heat pumps

Model(s):SDV4-450EAF;
Test matching indoor units form 1, Duct： 6×SDV4-76DAF; test matching indoor units form 2, non-duct: 6×SDV4-76CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	45	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	21.507	kW		T_j=-7℃	COP_d	2.23	--
T_j=+2℃	P_{dh}	13.948	kW		T_j=+2℃	COP_d	3.35	--
T_j=+7℃	P_{dh}	8.508	kW		T_j=+7℃	COP_d	4.59	--
T_j=+12℃	P_{dh}	6.022	kW		T_j=+12℃	COP_d	5.49	--
T_{biv}=bivalent temperature	P_{dh}	24.366	kW		T_{biv} =bivalent temperature	COP_d	1.86	--
T_{OL}=operation temperature	P_{dh}	24.366	kW		T_{OL} =operation temperature	COP_d	1.86	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.05	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.05	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.05	kW		Standby mode	P_{SB}	0.05	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	14000	m^3/h
Sound power level,outdoor	L_{WA}	88	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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-500EAF;
Test matching indoor units form 1, Duct： 8×SDV4-63DAF; test matching indoor units form 2, non-duct: 8×SDV4-63CAF;

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	$P_{rated,c}$	50	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	195.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	50.000	kW		T_j=+35℃	EER_d	2.89	--
T_j=+30℃	P_{dc}	37.029	kW		T_j=+30℃	EER_d	4.02	--
T_j=+25℃	P_{dc}	22.741	kW		T_j=+25℃	EER_d	5.71	--
T_j=+20℃	P_{dc}	10.9	kW		T_j=+20℃	EER_d	7.43	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.064	kW		Crankcase heater mode	P_{CK}	0.064	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	16000	m^3/h
Sound power level,outdoor	L_{WA}	88	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 heat pumps

Model(s):SDV4-500EAF;
Test matching indoor units form 1, Duct： 8×SDV4-63DAF; test matching indoor units form 2, non-duct: 8×SDV4-63CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	50	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	134.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	25.295	kW		T_j=-7℃	COP_d	2.24	--
T_j=+2℃	P_{dh}	15.911	kW		T_j=+2℃	COP_d	3.22	--
T_j=+7℃	P_{dh}	10.212	kW		T_j=+7℃	COP_d	4.87	--
T_j=+12℃	P_{dh}	7.568	kW		T_j=+12℃	COP_d	5.58	--
T_{biv}=bivalent temperature	P_{dh}	28.566	kW		T_{biv} =bivalent temperature	COP_d	1.83	--
T_{OL}=operation temperature	P_{dh}	28.566	kW		T_{OL} =operation temperature	COP_d	1.83	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.064	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.064	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.064	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m^3/h
Sound power level,outdoor	L_{WA}	88	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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-560EAF;
Test matching indoor units form 1, Duct：8×SDV4-71DAF; test matching indoor units form 2, non-duct: 8×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	$P_{rated,c}$	56	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	194.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	56.000	kW		T_j=+35℃	EER_d	2.44	--
T_j=+30℃	P_{dc}	35.948	kW		T_j=+30℃	EER_d	3.73	--
T_j=+25℃	P_{dc}	23.724	kW		T_j=+25℃	EER_d	5.69	--
T_j=+20℃	P_{dc}	11.052	kW		T_j=+20℃	EER_d	8.90	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.066	kW		Crankcase heater mode	P_{CK}	0.066	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.066	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—		m^3/h
Sound power level,outdoor	L_{WA}	88	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 heat pumps

Model(s):SDV4-560EAF;
Test matching indoor units form 1, Duct： 8×SDV4-71DAF; test matching indoor units form 2, non-duct: 8×SDV4-71CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	56	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	29.633	kW		T_j=-7℃	COP_d	2.07	--
T_j=+2℃	P_{dh}	18.326	kW		T_j=+2℃	COP_d	3.24	--
T_j=+7℃	P_{dh}	11.604	kW		T_j=+7℃	COP_d	4.88	--
T_j=+12℃	P_{dh}	7.832	kW		T_j=+12℃	COP_d	5.37	--
T_{biv}=bivalent temperature	P_{dh}	32.711	kW		T_{biv} =bivalent temperature	COP_d	1.87	--
T_{OL}=operation temperature	P_{dh}	32.711	kW		T_{OL} =operation temperature	COP_d	1.87	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.066	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.066	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.066	kW		Standby mode	P_{SB}	0.066	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m^3/h
Sound power level,outdoor	L_{WA}	88	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

Where information relates to multi-split heat pumps,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

Cooling mode:

Information requirements for air-to-air conditioners

Model(s):SDV4-614EAF;
Test matching indoor units form 1, Duct： 8×SDV4-76DAF; test matching indoor units form 2, non-duct: 8×SDV4-76CAF;

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	$P_{rated,c}$	61.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	188.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	61.500	kW		T_j=+35℃	EER_d	2.34	--
T_j=+30℃	P_{dc}	40.692	kW		T_j=+30℃	EER_d	3.63	--
T_j=+25℃	P_{dc}	26.385	kW		T_j=+25℃	EER_d	5.49	--
T_j=+20℃	P_{dc}	11.648	kW		T_j=+20℃	EER_d	8.60	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.066	kW		Crankcase heater mode	P_{CK}	0.066	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.066	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	16000	m^3/h
Sound power level,outdoor	L_{WA}	88	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 heat pumps

Model(s):SDV4-614EAF;
Test matching indoor units form 1, Duct： 8×SDV4-76DAF; test matching indoor units form 2, non-duct: 8×SDV4-76CAF;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	61.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	29.633	kW		T_j=-7℃	COP_d	2.07	--
T_j=+2℃	P_{dh}	18.326	kW		T_j=+2℃	COP_d	3.24	--
T_j=+7℃	P_{dh}	11.604	kW		T_j=+7℃	COP_d	4.88	--
T_j=+12℃	P_{dh}	7.832	kW		T_j=+12℃	COP_d	5.37	--
T_{biv}=bivalent temperature	P_{dh}	32.711	kW		T_{biv} =bivalent temperature	COP_d	1.87	--
T_{OL}=operation temperature	P_{dh}	32.711	kW		T_{OL} =operation temperature	COP_d	1.87	--
Bivalent temperature	T_{biv}	-10	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.066	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.066	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.066	kW		Standby mode	P_{SB}	0.066	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m^3/h
Sound power level,outdoor	L_{WA}	88	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

Where information relates to multi-split heat pumps,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