

Information requirements for air-to-air conditioners								
Model(s):SDV5-280EAI; Test matching indoor units form, Duct: 4×SDV5-71DHA;								
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	$\eta_{s,c}$	220.6	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	28	kW		$T_j=+35^\circ\text{C}$	EER_d	3.26	--
$T_j=+30^\circ\text{C}$	P_{dc}	19.137	kW		$T_j=+30^\circ\text{C}$	EER_d	4.44	--
$T_j=+25^\circ\text{C}$	P_{dc}	13.246	kW		$T_j=+25^\circ\text{C}$	EER_d	6.40	--
$T_j=+20^\circ\text{C}$	P_{dc}	6.688	kW		$T_j=+20^\circ\text{C}$	EER_d	11.41	--
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	—	10500	m^3/h
Sound power level,outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-280EAI;								
Test matching indoor units form, Duct: 4×SDV5-71DHA;								
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	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	134.2	%
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}	17.176	kW		$T_j=-7^\circ\text{C}$	COP_d	2.32	--
$T_j=+2^\circ\text{C}$	P_{dh}	11.706	kW		$T_j=+2^\circ\text{C}$	COP_d	3.40	--
$T_j=+7^\circ\text{C}$	P_{dh}	7.071	kW		$T_j=+7^\circ\text{C}$	COP_d	4.50	--
$T_j=+12^\circ\text{C}$	P_{dh}	4.381	kW		$T_j=+12^\circ\text{C}$	COP_d	5.15	--
T_{biv} =bivalent temperature	P_{dh}	17.176	kW		T_{biv} =bivalent temperature	COP_d	2.32	--
T_{OL} =operation temperature	P_{dh}	19.313	kW		T_{OL} =operation temperature	COP_d	1.89	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	10500	m ³ /h
Sound power level,outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-335EAI; Test matching indoor units form, Duct: 6×SDV5-56DA;								
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	$\eta_{s,c}$	203.8	%
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}	33.5	kW		$T_j=+35^\circ\text{C}$	EER_d	2.57	--
$T_j=+30^\circ\text{C}$	P_{dc}	23.276	kW		$T_j=+30^\circ\text{C}$	EER_d	4.07	--
$T_j=+25^\circ\text{C}$	P_{dc}	15.186	kW		$T_j=+25^\circ\text{C}$	EER_d	6.65	--
$T_j=+20^\circ\text{C}$	P_{dc}	8.719	kW		$T_j=+20^\circ\text{C}$	EER_d	8.62	--
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	—	11000	m^3/h
Sound power level,outdoor	L_{WA}	81	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								

Information requirements for heat pumps								
Model(s):SDV5-335EAI; Test matching indoor units form, Duct: 6×SDV5-56DA;								
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	$P_{rated,h}$	33.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.4	%
Declared heating capacity for part load at indoor teperature 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}	17.346	kW		$T_j=-7^\circ\text{C}$	COP_d	2.44	--
$T_j=+2^\circ\text{C}$	P_{dh}	10.544	kW		$T_j=+2^\circ\text{C}$	COP_d	3.24	--
$T_j=+7^\circ\text{C}$	P_{dh}	7.080	kW		$T_j=+7^\circ\text{C}$	COP_d	4.49	--
$T_j=+12^\circ\text{C}$	P_{dh}	5.589	kW		$T_j=+12^\circ\text{C}$	COP_d	4.99	--
T_{biv} =bivalent temperature	P_{dh}	17.346	kW		T_{biv} =bivalent temperature	COP_d	2.44	--
T_{OL} =operation temperature	P_{dh}	19.730	kW		T_{OL} =operation temperature	COP_d	2.34	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	11000	m ³ /h
Sound power level,outdoor	L_{WA}	81	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-400EAI; Test matching indoor units form, Duct: 2×SDV5-56DA+4×SDV5-71DHA;								
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	$\eta_{s,c}$	196.2	%
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	kW		$T_j=+35^\circ\text{C}$	EER_d	2.65	--
$T_j=+30^\circ\text{C}$	P_{dc}	29.504	kW		$T_j=+30^\circ\text{C}$	EER_d	4.11	--
$T_j=+25^\circ\text{C}$	P_{dc}	18.187	kW		$T_j=+25^\circ\text{C}$	EER_d	5.58	--
$T_j=+20^\circ\text{C}$	P_{dc}	9.939	kW		$T_j=+20^\circ\text{C}$	EER_d	8.91	--
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	—	13000	m^3/h
Sound power level,outdoor	L_{WA}	85	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								

Information requirements for heat pumps								
Model(s):SDV5-400EAI; Test matching indoor units form, Duct: 2×SDV5-56DA+4×SDV5-71DHA;								
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	$P_{rated,h}$	40	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	137.8	%
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}	25.931	kW		$T_j=-7^\circ\text{C}$	COP_d	2.54	--
$T_j=+2^\circ\text{C}$	P_{dh}	15.791	kW		$T_j=+2^\circ\text{C}$	COP_d	3.30	--
$T_j=+7^\circ\text{C}$	P_{dh}	10.318	kW		$T_j=+7^\circ\text{C}$	COP_d	4.66	--
$T_j=+12^\circ\text{C}$	P_{dh}	9.548	kW		$T_j=+12^\circ\text{C}$	COP_d	5.49	--
T_{biv} =bivalent temperature	P_{dh}	25.931	kW		T_{biv} =bivalent temperature	COP_d	2.54	--
T_{OL} =operation temperature	P_{dh}	29.325	kW		T_{OL} =operation temperature	COP_d	2.14	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	13000	m ³ /h
Sound power level,outdoor	L_{WA}	85	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								
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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-450EAI; Test matching indoor units form, Duct: 4×SDV5-71DHA+2×SDV5-80DHA;								
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	$\eta_{s,c}$	193.0	%
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	kW		$T_j=+35^\circ\text{C}$	EER_d	2.40	--
$T_j=+30^\circ\text{C}$	P_{dc}	31.412	kW		$T_j=+30^\circ\text{C}$	EER_d	3.70	--
$T_j=+25^\circ\text{C}$	P_{dc}	20.145	kW		$T_j=+25^\circ\text{C}$	EER_d	5.83	--
$T_j=+20^\circ\text{C}$	P_{dc}	9.939	kW		$T_j=+20^\circ\text{C}$	EER_d	8.91	--
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	--	13000	m^3/h
Sound power level,outdoor	L_{WA}	88	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								

Information requirements for heat pumps								
Model(s):SDV5-450EAI; Test matching indoor units form, Duct: 4×SDV5-71DHA+2×SDV5-80DHA;								
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	$\eta_{s,h}$	137.8	%
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}	25.931	kW		$T_j=-7^\circ\text{C}$	COP_d	2.54	--
$T_j=+2^\circ\text{C}$	P_{dh}	15.791	kW		$T_j=+2^\circ\text{C}$	COP_d	3.30	--
$T_j=+7^\circ\text{C}$	P_{dh}	10.318	kW		$T_j=+7^\circ\text{C}$	COP_d	4.66	--
$T_j=+12^\circ\text{C}$	P_{dh}	9.548	kW		$T_j=+12^\circ\text{C}$	COP_d	5.49	--
T_{biv} =bivalent temperature	P_{dh}	25.931	kW		T_{biv} =bivalent temperature	COP_d	2.54	--
T_{OL} =operation temperature	P_{dh}	29.325	kW		T_{OL} =operation temperature	COP_d	2.14	--
Bivalent temperature	T_{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}	0.064	kW		Back-up heating capacity(*)	e_{bu}	0	kW
Thermosat-off mode	P_{TO}	0.064	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	13000	m ³ /h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-500EAI; Test matching indoor units form, Duct: 4×SDV5-56DA+4×SDV5-71DHA;								
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	$\eta_{s,c}$	197.4	%
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}	50	kW		$T_j=+35^\circ\text{C}$	EER_d	2.55	--
$T_j=+30^\circ\text{C}$	P_{dc}	36.091	kW		$T_j=+30^\circ\text{C}$	EER_d	3.86	--
$T_j=+25^\circ\text{C}$	P_{dc}	22.777	kW		$T_j=+25^\circ\text{C}$	EER_d	5.89	--
$T_j=+20^\circ\text{C}$	P_{dc}	10.928	kW		$T_j=+20^\circ\text{C}$	EER_d	8.50	--
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	—	13000	m^3/h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-500EAI; Test matching indoor units form, Duct: 4×SDV5-56DA+4×SDV5-71DHA;								
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	$\eta_{s,h}$	134.2	%
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}	27.878	kW		$T_j=-7^\circ\text{C}$	COP_d	2.46	--
$T_j=+2^\circ\text{C}$	P_{dh}	18.272	kW		$T_j=+2^\circ\text{C}$	COP_d	3.18	--
$T_j=+7^\circ\text{C}$	P_{dh}	11.923	kW		$T_j=+7^\circ\text{C}$	COP_d	4.64	--
$T_j=+12^\circ\text{C}$	P_{dh}	9.535	kW		$T_j=+12^\circ\text{C}$	COP_d	5.43	--
T_{biv} =bivalent temperature	P_{dh}	27.878	kW		T_{biv} =bivalent temperature	COP_d	2.46	--
T_{OL} =operation temperature	P_{dh}	31.575	kW		T_{OL} =operation temperature	COP_d	1.95	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	13000	m ³ /h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-560EAI; Test matching indoor units form, Duct: 8×SDV5-71DHA;								
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	$\eta_{s,c}$	196.6	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	56	kW		$T_j=+35^\circ\text{C}$	EER_d	3.10	--
$T_j=+30^\circ\text{C}$	P_{dc}	39.039	kW		$T_j=+30^\circ\text{C}$	EER_d	3.95	--
$T_j=+25^\circ\text{C}$	P_{dc}	23.261	kW		$T_j=+25^\circ\text{C}$	EER_d	5.65	--
$T_j=+20^\circ\text{C}$	P_{dc}	11.429	kW		$T_j=+20^\circ\text{C}$	EER_d	7.55	--
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	--	17000	m^3/h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-560EAI;								
Test matching indoor units form, Duct: 8×SDV5-71DHA;								
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	$P_{rated,h}$	56	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
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}	29.294	kW		$T_j=-7^{\circ}\text{C}$	COP_d	2.06	--
$T_j=+2^{\circ}\text{C}$	P_{dh}	18.293	kW		$T_j=+2^{\circ}\text{C}$	COP_d	3.29	--
$T_j=+7^{\circ}\text{C}$	P_{dh}	11.917	kW		$T_j=+7^{\circ}\text{C}$	COP_d	4.80	--
$T_j=+12^{\circ}\text{C}$	P_{dh}	10.498	kW		$T_j=+12^{\circ}\text{C}$	COP_d	5.61	--
T_{biv} =bivalent temperature	P_{dh}	29.294	kW		T_{biv} =bivalent temperature	COP_d	2.06	--
T_{OL} =operation temperature	P_{dh}	33.107	kW		T_{OL} =operation temperature	COP_d	1.64	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	17000	m ³ /h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-615EAI;								
Test matching indoor units form, Duct: 4×SDV5-71DHA+4×SDV5-80DHA;								
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	$\eta_{s,c}$	194.2	%
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}	61.5	kW		$T_j=+35^\circ\text{C}$	EER_d	2.79	--
$T_j=+30^\circ\text{C}$	P_{dc}	43.022	kW		$T_j=+30^\circ\text{C}$	EER_d	3.86	--
$T_j=+25^\circ\text{C}$	P_{dc}	27.726	kW		$T_j=+25^\circ\text{C}$	EER_d	5.70	--
$T_j=+20^\circ\text{C}$	P_{dc}	12.137	kW		$T_j=+20^\circ\text{C}$	EER_d	7.55	--
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
Thermostat-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	—	17000	m^3/h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-615EAL; Test matching indoor units form, Duct: 4×SDV5-71DHA+4×SDV5-80DHA;								
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	$P_{rated,h}$	61.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
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}	29.294	kW		$T_j=-7^\circ\text{C}$	COP_d	2.06	--
$T_j=+2^\circ\text{C}$	P_{dh}	18.293	kW		$T_j=+2^\circ\text{C}$	COP_d	3.29	--
$T_j=+7^\circ\text{C}$	P_{dh}	11.917	kW		$T_j=+7^\circ\text{C}$	COP_d	4.80	--
$T_j=+12^\circ\text{C}$	P_{dh}	10.498	kW		$T_j=+12^\circ\text{C}$	COP_d	5.61	--
T_{biv} =bivalent temperature	P_{dh}	29.294	kW		T_{biv} =bivalent temperature	COP_d	2.06	--
T_{OL} =operation temperature	P_{dh}	33.107	kW		T_{OL} =operation temperature	COP_d	1.64	--
Bivalent temperature	T_{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}	0.064	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}	0.124	kW		Standby mode	P_{SB}	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	17000	m ³ /h
Sound power level,outdoor	L_{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-670EAI; Test matching indoor units form, Duct: 4×SDV5-80DHA+4×SDV5-90DHA;								
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	$P_{rated,c}$	67	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	205.8	%
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}	67	kW		$T_j=+35^\circ\text{C}$	EER_d	2.41	--
$T_j=+30^\circ\text{C}$	P_{dc}	44.6	kW		$T_j=+30^\circ\text{C}$	EER_d	3.72	--
$T_j=+25^\circ\text{C}$	P_{dc}	30.31	kW		$T_j=+25^\circ\text{C}$	EER_d	6.52	--
$T_j=+20^\circ\text{C}$	P_{dc}	12.94	kW		$T_j=+20^\circ\text{C}$	EER_d	9.57	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.085	kW		Crankcase heater mode	P_{CK}	0.085	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	24500	m^3/h
Sound power level,outdoor	L_{WA}	89	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-670EAI; Test matching indoor units form, Duct: 4×SDV5-80DHA+4×SDV5-90DHA;								
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	$P_{rated,h}$	67	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
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}	40.63	kW		$T_j=-7^\circ\text{C}$	COP_d	2.31	--
$T_j=+2^\circ\text{C}$	P_{dh}	25.21	kW		$T_j=+2^\circ\text{C}$	COP_d	3.14	--
$T_j=+7^\circ\text{C}$	P_{dh}	16.21	kW		$T_j=+7^\circ\text{C}$	COP_d	4.83	--
$T_j=+12^\circ\text{C}$	P_{dh}	9.21	kW		$T_j=+12^\circ\text{C}$	COP_d	5.05	--
T_{biv} =bivalent temperature	P_{dh}	43.25	kW		T_{biv} =bivalent temperature	COP_d	1.90	--
T_{OL} =operation temperature	P_{dh}	43.25	kW		T_{OL} =operation temperature	COP_d	1.90	--
Bivalent temperature	T_{biv}	-10	°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}	0.085	kW		Back-up heating capacity(*)	elbu	0	kW
Thermostat-off mode	P_{TO}	0.085	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.085	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	24500	m ³ /h
Sound power level,outdoor	L_{WA}	89	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-730EAI; Test matching indoor units form, Duct: 8×SDV5-90DHA;								
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	$P_{rated,c}$	73	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	201	%
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}	73	kW		$T_j=+35^\circ\text{C}$	EER_d	2.25	--
$T_j=+30^\circ\text{C}$	P_{dc}	48.88	kW		$T_j=+30^\circ\text{C}$	EER_d	4.21	--
$T_j=+25^\circ\text{C}$	P_{dc}	32.9	kW		$T_j=+25^\circ\text{C}$	EER_d	5.68	--
$T_j=+20^\circ\text{C}$	P_{dc}	14.13	kW		$T_j=+20^\circ\text{C}$	EER_d	9.30	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.085	kW		Crankcase heater mode	P_{CK}	0.085	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--	24500	m^3/h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-730EAI; Test matching indoor units form, Duct: 8×SDV5-90DHA;								
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	$P_{rated,h}$	73	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
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}	40.63	kW		$T_j=-7^\circ\text{C}$	COP_d	2.31	--
$T_j=+2^\circ\text{C}$	P_{dh}	25.21	kW		$T_j=+2^\circ\text{C}$	COP_d	3.14	--
$T_j=+7^\circ\text{C}$	P_{dh}	16.21	kW		$T_j=+7^\circ\text{C}$	COP_d	4.83	--
$T_j=+12^\circ\text{C}$	P_{dh}	9.21	kW		$T_j=+12^\circ\text{C}$	COP_d	5.05	--
T_{biv} =bivalent temperature	P_{dh}	43.25	kW		T_{biv} =bivalent temperature	COP_d	1.90	--
T_{OL} =operation temperature	P_{dh}	43.25	kW		T_{OL} =operation temperature	COP_d	1.90	--
Bivalent temperature	T_{biv}	-10	°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}	0.085	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.085	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.085	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	24500	m ³ /h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-850EAI; Test matching indoor units form, Duct: 4×SDV5-100DHA+4×SDV5-112DHA;								
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	$P_{rated,c}$	85	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	203.4	%
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}	85	kW		$T_j=+35^\circ\text{C}$	EER_d	1.90	--
$T_j=+30^\circ\text{C}$	P_{dc}	56.76	kW		$T_j=+30^\circ\text{C}$	EER_d	4.17	--
$T_j=+25^\circ\text{C}$	P_{dc}	36.41	kW		$T_j=+25^\circ\text{C}$	EER_d	6.35	--
$T_j=+20^\circ\text{C}$	P_{dc}	16.4	kW		$T_j=+20^\circ\text{C}$	EER_d	8.95	--
Degradation co-efficient for air conditioners(*)								
	C_{dc}	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.085	kW		Crankcase heater mode	P_{CK}	0.085	kW
Thermosat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--	24000	m^3/h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-850EAI; Test matching indoor units form, Duct: 4×SDV5-100DHA+4×SDV5-112DHA;								
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	$P_{rated,h}$	85	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.4	%
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			
$T_j=-7^\circ\text{C}$	P_{dh}	39.85	kW		$T_j=-7^\circ\text{C}$	COP_d	2.32	--
$T_j=+2^\circ\text{C}$	P_{dh}	24.62	kW		$T_j=+2^\circ\text{C}$	COP_d	3.10	--
$T_j=+7^\circ\text{C}$	P_{dh}	16.84	kW		$T_j=+7^\circ\text{C}$	COP_d	5.00	--
$T_j=+12^\circ\text{C}$	P_{dh}	13.01	kW		$T_j=+12^\circ\text{C}$	COP_d	5.46	--
T_{biv} =bivalent temperature	P_{dh}	45.19	kW		T_{biv} =bivalent temperature	COP_d	1.85	--
T_{OL} =operation temperature	P_{dh}	45.19	kW		T_{OL} =operation temperature	COP_d	1.85	--
Bivalent temperature	T_{biv}	-10	°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}	0.085	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.085	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.085	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	24000	m ³ /h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								

Information requirements for air-to-air conditioners								
Model(s):SDV5-900EAI; Test matching indoor units form, Duct: 8×SDV5-112DHA;								
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	$P_{rated,c}$	90	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	197.8	%
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}	90	kW		$T_j=+35^\circ\text{C}$	EER_d	1.88	--
$T_j=+30^\circ\text{C}$	P_{dc}	60.69	kW		$T_j=+30^\circ\text{C}$	EER_d	4.14	--
$T_j=+25^\circ\text{C}$	P_{dc}	38.72	kW		$T_j=+25^\circ\text{C}$	EER_d	5.82	--
$T_j=+20^\circ\text{C}$	P_{dc}	18.14	kW		$T_j=+20^\circ\text{C}$	EER_d	9.20	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.085	kW		Crankcase heater mode	P_{CK}	0.085	kW
Thermostat-off mode	P_{TO}	0	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	24000	m^3/h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details: SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.com								
(*)If C_{dc} is not determined by measurement then the default degradation coefficient 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								

Information requirements for heat pumps								
Model(s):SDV5-900EAI; Test matching indoor units form, Duct: 8×SDV5-112DHA;								
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	$P_{rated,h}$	90	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.4	%
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			
$T_j=-7^\circ\text{C}$	P_{dh}	39.85	kW		$T_j=-7^\circ\text{C}$	COP_d	2.32	--
$T_j=+2^\circ\text{C}$	P_{dh}	24.62	kW		$T_j=+2^\circ\text{C}$	COP_d	3.10	--
$T_j=+7^\circ\text{C}$	P_{dh}	16.84	kW		$T_j=+7^\circ\text{C}$	COP_d	5.00	--
$T_j=+12^\circ\text{C}$	P_{dh}	13.01	kW		$T_j=+12^\circ\text{C}$	COP_d	5.46	--
T_{biv} =bivalent temperature	P_{dh}	45.19	kW		T_{biv} =bivalent temperature	COP_d	1.85	--
T_{OL} =operation temperature	P_{dh}	45.19	kW		T_{OL} =operation temperature	COP_d	1.85	--
Bivalent temperature	T_{biv}	-10	°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}	0.085	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P_{TO}	0.085	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.085	kW		Standby mode	P_{SB}	0.085	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	24000	m ³ /h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details	SINCLAIR Corp. Ltd., 1-4 Argyll St., London, UK; info@sinclair-solutions.com / www.sinclair-solutions.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								