

INFORMATION REQUIREMENTS FOR HEAT PUMPS

SYSVRF2 M AIR EVO HP Outdoor Unit

Original instructions
Thank you for purchasing this air conditioner.
Before using it, please read this manual and keep it for future reference.

Information requirements for air-to-air conditioners								
Model(s): SYSVRF2 M 252 AIR EVO HP R; Test matching indoor units form, Duct: 2xSYSVRF DUCT 56 Q+2xSYSVRF DUCT HP 71 Q;								
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	$\eta_{s,c}$	223.8	%
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}	25.2	kW		$T_j=+35^\circ\text{C}$	EER_d	3.48	--
$T_j=+30^\circ\text{C}$	P_{dc}	17.04	kW		$T_j=+30^\circ\text{C}$	EER_d	4.68	--
$T_j=+25^\circ\text{C}$	P_{dc}	11.409	kW		$T_j=+25^\circ\text{C}$	EER_d	6.46	--
$T_j=+20^\circ\text{C}$	P_{dc}	6.786	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								
(*)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): SYSVRF2 M 252 AIR EVO HP R;								
Test matching indoor units form, Duct: 2×SYSVRF DUCT 56 Q+2xSYSVRF DUCT HP 71 Q;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Ication 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}	25.2	kW		Seasonal space heating energy efficiency	η _{s,h}	134.6	%
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 °C	P _{dh}	17.176	kW		T _j =-7 °C	COP _d	2.32	--
T _j =+2 °C	P _{dh}	11.706	kW		T _j =+2 °C	COP _d	3.45	--
T _j =+7 °C	P _{dh}	7.071	kW		T _j =+7 °C	COP _d	4.50	--
T _j =+12 °C	P _{dh}	4.381	kW		T _j =+12 °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	m³/h
Sound power level,outdoor	L _{WA}	78	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 280 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q;								
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	$\eta_{s,c}$	221.2	%
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}	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	4.50	--
$T_j=+25^\circ\text{C}$	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								
(*)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): SYSVRF2 M 280 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q;								
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	$\eta_{s,h}$	134.6	%
Declared heating capacity for part load at indoor temperature 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}	17.176	kW		$T_j=-7℃$	COP_d	2.32	--
$T_j=+2℃$	P_{dh}	11.706	kW		$T_j=+2℃$	COP_d	3.45	--
$T_j=+7℃$	P_{dh}	7.071	kW		$T_j=+7℃$	COP_d	4.50	--
$T_j=+12℃$	P_{dh}	4.381	kW		$T_j=+12℃$	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	℃					
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(*)	el_{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	—	10500	m ³ /h
Sound power level,outdoor	L_{WA}	78	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 335 AIR EVO HP R; Test matching indoor units form, Duct: 6×SYSVRF DUCT 56 Q;								
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	$\eta_{s,c}$	204.7	%
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	4.17	--
$T_j=+25^\circ\text{C}$	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)					
Contact details								
(*)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): SYSVRF2 M 335 AIR EVO HP R; Test matching indoor units form, Duct: 6×SYSVRF DUCT 56 Q;								
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 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	η _{s,h}	133.4	%
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}	17.346	kW		T _j =-7℃	COP _d	2.44	--
T _j =+2℃	P _{dh}	10.544	kW		T _j =+2℃	COP _d	3.24	--
T _j =+7℃	P _{dh}	7.080	kW		T _j =+7℃	COP _d	4.49	--
T _j =+12℃	P _{dh}	5.589	kW		T _j =+12℃	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	℃					
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(*)	el _{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	—	11000	m³/h
Sound power level,outdoor	L _{WA}	81	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 400 AIR EVO HP R; Test matching indoor units form, Duct: 2×SYSVRF DUCT 56 Q+4×SYSVRF DUCT HP 71 Q;								
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	$\eta_{s,c}$	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}	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	5.86	--
$T_j=+20^\circ\text{C}$	P_{dc}	9.939	kW		$T_j=+20^\circ\text{C}$	EER_d	8.72	--
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)					
Contact details								
(*)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): SYSVRF2 M 400 AIR EVO HP R;

Test matching indoor units form, Duct: 2×SYSVRF DUCT 56 Q+4×SYSVRF DUCT HP 71 Q;

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	η _{s,h}	139.0	%
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}	25.931	kW		T _j =-7℃	COP _d	2.54	--
T _j =+2℃	P _{dh}	15.791	kW		T _j =+2℃	COP _d	3.36	--
T _j =+7℃	P _{dh}	10.318	kW		T _j =+7℃	COP _d	4.66	--
T _j =+12℃	P _{dh}	9.548	kW		T _j =+12℃	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	℃					
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(*)	el _{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	m³/h
Sound power level,outdoor	L _{WA}	85	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 450 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q+2×SYSVRF DUCT HP 80 Q;								
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	$\eta_{s,c}$	193.4	%
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}	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	3.79	--
$T_j=+25^\circ\text{C}$	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	8.72	--
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								
(*)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): SYSVRF2 M 450 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q+2×SYSVRF DUCT HP 80 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	45	kW		Seasonal space heating energy efficiency	η _{s,h}	139.0	%
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}	25.931	kW		T _j =-7℃	COP _d	2.54	--
T _j =+2℃	P _{dh}	15.791	kW		T _j =+2℃	COP _d	3.36	--
T _j =+7℃	P _{dh}	10.318	kW		T _j =+7℃	COP _d	4.66	--
T _j =+12℃	P _{dh}	9.548	kW		T _j =+12℃	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	℃					
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 _{lbu}	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								
(*)								
(**)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): SYSVRF2 M 500 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT 56 Q+4×SYSVRF DUCT HP 71 Q;								
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	$\eta_{s,c}$	200.6	%
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}	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	9.40	--
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								
(*)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): SYSVRF2 M 500 AIR EVO HP R;								
Test matching indoor units form, Duct: 4×SYSVRF DUCT 56 Q+4×SYSVRF DUCT HP 71 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	50	kW		Seasonal space heating energy efficiency	η _{s,h}	134.2	%
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}	27.878	kW		T _j =-7℃	COP _d	2.46	--
T _j =+2℃	P _{dh}	18.272	kW		T _j =+2℃	COP _d	3.18	--
T _j =+7℃	P _{dh}	11.923	kW		T _j =+7℃	COP _d	4.64	--
T _j =+12℃	P _{dh}	9.535	kW		T _j =+12℃	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	℃					
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(*)	el _{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	—	16000	m ³ /h
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 560 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 71 Q;								
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	$\eta_{s,c}$	199.4	%
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}	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}	24.261	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	8.15	--
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.064	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								
(*)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): SYSVRF2 M 560 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 71 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	56	kW		Seasonal space heating energy efficiency	η _{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}	29.294	kW		T _j =-7℃	COP _d	2.06	--
T _j =+2℃	P _{dh}	18.293	kW		T _j =+2℃	COP _d	3.29	--
T _j =+7℃	P _{dh}	11.917	kW		T _j =+7℃	COP _d	4.80	--
T _j =+12℃	P _{dh}	10.498	kW		T _j =+12℃	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	℃					
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(*)	el _{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	—	17000	m³/h
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 615 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q+4×SYSVRF DUCT HP 80 Q;								
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	$\eta_{s,c}$	198.2	%
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}	61.5	kW		$T_j=+35℃$	EER_d	2.79	--
$T_j=+30℃$	P_{dc}	43.022	kW		$T_j=+30℃$	EER_d	3.86	--
$T_j=+25℃$	P_{dc}	27.726	kW		$T_j=+25℃$	EER_d	6.0	--
$T_j=+20℃$	P_{dc}	12.137	kW		$T_j=+20℃$	EER_d	7.65	--
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								
(*)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): SYSVRF2 M 615 AIR EVO HP R;								
Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 71 Q+4×SYSVRF DUCT HP 80 Q;								
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 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	η _{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}	29.294	kW		T _j =-7℃	COP _d	2.06	--
T _j =+2℃	P _{dh}	18.293	kW		T _j =+2℃	COP _d	3.29	--
T _j =+7℃	P _{dh}	11.917	kW		T _j =+7℃	COP _d	4.80	--
T _j =+12℃	P _{dh}	10.498	kW		T _j =+12℃	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	℃					
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(*)	el _{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	—	17000	m³/h
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 670 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 80 Q+4×SYSVRF DUCT HP 90 Q;								
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	$\eta_{s,c}$	207	%
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	3.83	--
$T_j=+25^\circ\text{C}$	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								
(*)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): SYSVRF2 M 670 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 80 Q+4×SYSVRF DUCT HP 90 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	67	kW		Seasonal space heating energy efficiency	η _{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}	40.63	kW		T _j =-7℃	COP _d	2.31	--
T _j =+2℃	P _{dh}	25.21	kW		T _j =+2℃	COP _d	3.14	--
T _j =+7℃	P _{dh}	16.21	kW		T _j =+7℃	COP _d	4.83	--
T _j =+12℃	P _{dh}	9.21	kW		T _j =+12℃	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	℃					
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(*)	el _{bu}	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}	89	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 730 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 90 Q;								
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	$\eta_{s,c}$	201.8	%
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}	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	4.40	--
$T_j=+25^{\circ}\text{C}$	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								
(*)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): SYSVRF2 M 730 AIR EVO HP R; Test matching indoor units form, Duct: 8*SYSVRF DUCT HP 90 Q;								
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 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}	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(*)	el_{bu}	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								
(*)								
(**)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): SYSVRF2 M 785 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 100 Q;								
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	$P_{rated,c}$	78.5	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}	78.5	kW		$T_j=+35^\circ\text{C}$	EER_d	2.10	--
$T_j=+30^\circ\text{C}$	P_{dc}	52.42	kW		$T_j=+30^\circ\text{C}$	EER_d	4.33	--
$T_j=+25^\circ\text{C}$	P_{dc}	33.78	kW		$T_j=+25^\circ\text{C}$	EER_d	5.45	--
$T_j=+20^\circ\text{C}$	P_{dc}	15.44	kW		$T_j=+20^\circ\text{C}$	EER_d	9.00	--
Degradation co-efficient for air conditioners(*)	C_{dc}		—					
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	—	25000	m ³ /h
Sound power level,outdoor	L_{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)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): SYSVRF2 M 785 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 100 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	78.5	kW		Seasonal space heating energy efficiency	η _{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}	40.63	kW		T _j =-7℃	COP _d	2.31	--
T _j =+2℃	P _{dh}	25.21	kW		T _j =+2℃	COP _d	3.14	--
T _j =+7℃	P _{dh}	16.21	kW		T _j =+7℃	COP _d	4.83	--
T _j =+12℃	P _{dh}	9.21	kW		T _j =+12℃	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	℃					
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(*)	el _{bu}	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	—	25000	m³/h
Sound power level,outdoor	L _{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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): SYSVRF2 M 850 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 100 Q+4×SYSVRF DUCT HP 112 Q;								
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	$\eta_{s,c}$	204.6	%
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}	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	4.25	--
$T_j=+25^\circ\text{C}$	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								
(*)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): SYSVRF2 M 850 AIR EVO HP R; Test matching indoor units form, Duct: 4×SYSVRF DUCT HP 100 Q+4×SYSVRF DUCT HP 112 Q;								
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 seasons are optional								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	85	kW		Seasonal space heating energy efficiency	η _{s,h}	133.8	%
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}	39.85	kW		T _j =-7℃	COP _d	2.32	--
T _j =+2℃	P _{dh}	24.62	kW		T _j =+2℃	COP _d	3.12	--
T _j =+7℃	P _{dh}	16.84	kW		T _j =+7℃	COP _d	5.00	--
T _j =+12℃	P _{dh}	13.01	kW		T _j =+12℃	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	℃					
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(*)	el _{bu}	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								
(*)								
(**)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): SYSVRF2 M 900 AIR EVO HP R; Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 112 Q;								
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	$\eta_{s,c}$	199.0	%
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}	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	4.23	--
$T_j=+25^{\circ}\text{C}$	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
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								
(*)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): SYSVRF2 M 900 AIR EVO HP R;								
Test matching indoor units form, Duct: 8×SYSVRF DUCT HP 112 Q;								
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	η _{s,h}	133.8	%
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}	39.85	kW		T _j =-7℃	COP _d	2.32	--
T _j =+2℃	P _{dh}	24.62	kW		T _j =+2℃	COP _d	3.12	--
T _j =+7℃	P _{dh}	16.84	kW		T _j =+7℃	COP _d	5.00	--
T _j =+12℃	P _{dh}	13.01	kW		T _j =+12℃	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	℃					
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(*)	el _{bu}	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	m³/h
Sound power level,outdoor	L _{WA}	90	dB					
GWP of the refrigerant		2088	kg CO ₂ eq(100years)					
Contact details								
(*)								
(**)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								

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