

Cooling mode:

Information requirements for air-to-air conditioners							
Model(s): K3F-450 DN4S							
Test matching indoor units form, ducted							
Outdoor side heat exchanger of air conditioner: air							
Indoor side heat exchanger of air conditioner: air							
Type: compressor driven							
Driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	45.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	264	%
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°C	P _{dc}	45.00	kW	T _j =+35°C	EER _d	3.75	--
T _j =+30°C	P _{dc}	33.16	kW	T _j =+30°C	EER _d	4.69	--
T _j =+25°C	P _{dc}	21.32	kW	T _j =+25°C	EER _d	7.11	--
T _j =+20°C	P _{dc}	11.53	kW	T _j =+20°C	EER _d	13.45	--
Degradation co-efficient for air conditioners(*)							
	C _{dc}	0.25	--				
Power consumption in modes other than "active mode"							
Off mode	P _{OFF}	0.05	kW	Crankcase heater mode	P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.005	kW	Standby mode	P _{SB}	0.05	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	--	14900	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.							

Heating mode:

Information requirements for heat pumps							
Model(s): K3F-450 DN4S							
Test matching indoor units form, ducted							
Outdoor side heat exchanger of air conditioner: air							
Indoor side heat exchanger of air conditioner: air							
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}	45.0	kW	Seasonal space heating energy efficiency	η _{s,h}	170	%
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°C	P _{dh}	23.09	kW	T _j =-7°C	COP _d	2.58	--
T _j =+2°C	P _{dh}	14.05	kW	T _j =+2°C	COP _d	4.22	--
T _j =+7°C	P _{dh}	9.28	kW	T _j =+7°C	COP _d	5.88	--
T _j =+12°C	P _{dh}	8.76	kW	T _j =+12°C	COP _d	7.74	--
T _{biv} =bivalent temperature	P _{dh}	26.10	kW	T _{biv} =bivalent temperature	COP _d	2.24	--
T _{OL} =operation temperature	P _{dh}	26.10	kW	T _{OL} =operation temperature	COP _d	2.24	--
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}	0.05	kW	Back-up heating capacity(*)	e _{ibu}	0	kW
Thermostat-off mode	P _{TO}	0.05	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P _{SB}	0.05	kW
Other items							
Capacity control	variable			For air-to-air heat pump: air flow rate, outdoor measured	--	14900	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.							

Cooling mode:

Information requirements for air-to-air conditioners							
Model(s): K3F-450 DN4S							
Test matching indoor units form2, cassette							
Outdoor side heat exchanger of air conditioner: air							
Indoor side heat exchanger of air conditioner: air							
Type: compressor driven							
Driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	45.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	245	%
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°C	P _{dc}	45.00	kW	T _j =+35°C	EER _d	3.20	--
T _j =+30°C	P _{dc}	33.16	kW	T _j =+30°C	EER _d	4.23	--
T _j =+25°C	P _{dc}	21.32	kW	T _j =+25°C	EER _d	6.68	--
T _j =+20°C	P _{dc}	11.64	kW	T _j =+20°C	EER _d	13.66	--
Degradation co-efficient for air conditioners(*)							
	C _{dc}	0.25	--				
Power consumption in modes other than "active mode"							
Off mode	P _{OFF}	0.05	kW	Crankcase heater mode	P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.005	kW	Standby mode	P _{SB}	0.05	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	--	14900	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.							

Heating mode:

Information requirements for heat pumps							
Model(s): K3F-450 DN4S							
Test matching indoor units form2, cassette							
Outdoor side heat exchanger of air conditioner: air							
Indoor side heat exchanger of air conditioner: air							
If the heater is equipped with a supplementary heater: no							
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}	45.0	kW	Seasonal space heating energy efficiency	η _{s,h}	169	%
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°C	P _{dh}	23.09	kW	T _j =-7°C	COP _d	2.56	--
T _j =+2°C	P _{dh}	14.05	kW	T _j =+2°C	COP _d	4.20	--
T _j =+7°C	P _{dh}	9.14	kW	T _j =+7°C	COP _d	5.87	--
T _j =+12°C	P _{dh}	8.46	kW	T _j =+12°C	COP _d	7.29	--
T _{biv} =bivalent temperature	P _{dh}	26.10	kW	T _{biv} =bivalent temperature	COP _d	2.36	--
T _{OL} =operation temperature	P _{dh}	26.10	kW	T _{OL} =operation temperature	COP _d	2.36	--
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}	0.05	kW	Back-up heating capacity(*)	e _{lbu}	0	kW
Thermostat-off mode	P _{TO}	0.05	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P _{SB}	0.05	kW
Other items							
Capacity control	variable			For air-to-air heat pump: air flow rate, outdoor measured	--	14900	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.							