## Cooling mode:

# Information requirements for air-to-air conditioners

Model(s): K3F-335 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

Symbol	Value	Unit		Item	Symbol	Value	Unit			
Prated,c	33.5	kW		Seasonal space cooling energy efficiency	ηs,c	289	%			
Declared cooling capacity for part load at given outdoor temperatures T <sub>j</sub> 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 <sub>j</sub>					
Pdc	33.50	kW		Tj=+35°C	EERd	3.88				
Pdc	24.68	kW		Tj=+30°C	EERd	5.29				
Pdc	15.12	kW		Tj=+25°C	EERd	8.61				
Pdc	8.72	kW		Tj=+20°C	EERd	12.49				
Cdc	0.25									
F	ower consu	ımption in mo	des	other than "active mode"						
Poff	0.05	kW		Crankcase heater mode	Рск	0.005	kW			
Рто	0.005	kW		Standby mode	Pss	0.05	kW			
		Oth	er it	ems						
	variable			For air-to-air air conditioner: air flow rate, outdoor measured		10000	m³/h			
Lwa	81	dB								
	2088	kg CO <sub>2 eq</sub> (100years)								
	Prated,c  Prated,c  Pacity for pa d indoor 27/  Pdc  Pdc  Pdc  Pdc  Pdc  Pdc  Pdc  Pd	Prated.c         33.5           pacity for part load at giv d indoor 27/19°C (dry/v           Pdc         33.50           Pdc         24.68           Pdc         15.12           Pdc         8.72           Cdc         0.25           Power consult         Pore           PTO         0.005           variable         LwA           LwA         81	Prated,c         33.5         kW           Dacity for part load at given outdoor d indoor 27/19°C (dry/wet bulb)         d www.decompose of dindoor 27/19°C (dry/wet bulb)           Pdc         33.50         kW           Pdc         24.68         kW           Pdc         15.12         kW           Pdc         8.72         kW           Cdc         0.25            Power consumption in monopers         Pose kw           PTO         0.005         kW           Oth         variable           Lwa         81         dB           2088         kg CO2 eq	Prated,c         33.5         kW           pacity for part load at given outdoor d indoor 27/19°C (dry/wet bulb)         dindoor 27/19°C (dry/wet bulb)           Pdc         33.50         kW           Pdc         24.68         kW           Pdc         15.12         kW           Pdc         8.72         kW           Cdc         0.25            Power consumption in modes         POFF         0.05         kW           PTO         0.005         kW         Other it           variable         LWA         81         dB           2088         kg CO2 eq	Prated,c  Prated,c  33.5 kW  Seasonal space cooling energy efficiency  Declared energy efficiency random / auxiliary energy factor for temper.  Pdc  33.50 kW  Tj=+35°C  Pdc  24.68 kW  Tj=+30°C  Pdc  15.12 kW  Tj=+25°C  Pdc  8.72 kW  Tj=+20°C   Power consumption in modes other than "active mode"  Poff  0.05 kW  Crankcase heater mode  Standby mode  Other items  Variable  LWA  81 dB  2088 kg CO2 eq  Seasonal space cooling energy efficiency random / auxiliary energy factor for temper.  Variable  For air-to-air air conditioner: air flow rate, outdoor measured	Prated,c 33.5 kW Seasonal space cooling energy efficiency part load at given outdoor d indoor 27/19°C (dry/wet bulb)  Pdc 33.50 kW Tj=+35°C EERd Pdc 24.68 kW Tj=+35°C EERd Pdc 15.12 kW Tj=+25°C EERd Pdc 8.72 kW Tj=+25°C EERd  Cdc 0.25  Power consumption in modes other than "active mode"  Poff 0.05 kW Crankcase heater mode Pck PTO 0.005 kW Standby mode PsB  Other items  Variable For air-to-air air conditioner: air flow rate, outdoor measured  Response of the processor of the	Prated,c 33.5 kW Seasonal space cooling energy efficiency part load at given outdoor d indoor 27/19°C (dry/wet bulb)  Pdc 33.50 kW Tj=+35°C EERd 3.88 Pdc 24.68 kW Tj=+30°C EERd 5.29 Pdc 15.12 kW Tj=+25°C EERd 8.61 Pdc 8.72 kW Tj=+20°C EERd 12.49  Power consumption in modes other than "active mode"  Poper 0.05 kW Crankcase heater mode Pck 0.005 Pto 0.005 kW Standby mode PsB 0.05  Other items  For air-to-air air conditioner: air flow rate, outdoor measured  Lwa 81 dB  Paccity for part load at given outdoor /auxiliary energy efficiency ratio or gas utilisation of reactive mode at given outdoor /auxiliary energy efficiency ratio or gas utilisation of reactive mode at given outdoor temperatures Tj  Peck 3.88  Tj=+30°C EERd 5.29  EERd 8.61  12.49  Cdc 0.25 EERd 12.49  Poper 0.05 kW Crankcase heater mode Pck 0.005  Pto 0.005 kW Standby mode PsB 0.05  Other items  For air-to-air air conditioner: air flow rate, outdoor measured 10000			

### Contact details

(\*)If Cdc 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-335 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										
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	Prated,h	33.5	kW		Seasonal space heating energy efficiency	ηs,h	181	%		
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T <sub>j</sub>					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T <sub>j</sub>					
Tj=-7°C	Pdh	16.30	kW		Tj=-7°C	COPd	2.88			
Tj=+2°C	Pdh	9.92	kW		Tj=+2°C	COPd	4.38			
Tj=+7°C	Pdh	6.77	kW		Tj=+7°C	COPd	6.35			
Tj=+12°C	Pdh	6.12	kW		Tj=+12°C	COPd	8.12			
T <sub>biv</sub> =bivalent temperature	Pdh	18.43	kW		Tbiv =bivalent temperature	COPd	2.48			
ToL=operation temperature	Pdh	18.43	kW		ToL =operation temperature	COPd	2.48			
Bivalent temperature	Tbiv	-10	°C							
Degradation co-efficient for heat pumps(**)	Cdh	0.25								
Power consumption in I	mption in modes other than "active mode"				Supplementary heater					
Off mode	Poff	0.05	kW		Back-up heating capacity(*)	elbu	0	kW		
Thermosat-off mode	Рто	0.05	kW		Type of energy input					
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.05	kW		
Other items										
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		10000	m³/h		
Sound power level, outdoor	Lwa	81	dB							
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)							
Contact details										
(*)										
(**)If Cdh 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-335 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	Prated,c	33.5	kW		Seasonal space cooling energy efficiency	ηs,c	258	%	
Declared cooling capacity for part load at given outdoor temperatures T <sub>j</sub> 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 <sub>j</sub>				
Tj=+35°C	Pdc	33.50	kW		Tj=+35°C	EERd	3.50		
Tj=+30°C	Pdc	24.68	kW		Tj=+30°C	EERd	4.72		
Tj=+25°C	Pdc	15.87	kW		Tj=+25°C	EERd	6.83		
Tj=+20°C	Pdc	9.65	kW		Tj=+20°C	EERd	14.25		
Degradation co-efficient for air conditioners(*)	Cdc	0.25							
	·	ower consu	ımption in mo	odes	other than "active mode"				
Off mode	Poff	0.05	kW		Crankcase heater mode	Рск	0.005	kW	
Thermosat-off mode	Рто	0.005	kW		Standby mode	PsB	0.05	kW	
			Oth	er it	ems				
Capacity control		variable			For air-to-air air conditioner: air flow rate, outdoor measured		10000	m³/h	
Sound power level, outdoor	Lwa	81	dB						
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)						

Contact details

(\*)If Cdc 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:

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	Infor	nation	require	me	ents for heat pum	ps		
Model(s): K3F-335 DN4 Test matching indoor u		assette						
Outdoor side heat exch	nanger of air	conditioner	: air					
Indoor side heat excha	nger of air c	onditioner: a	air					
If the heater is equippe	d with a sup	plementary	heater: no					
Driver of compressor: 6	electric moto	r						
Parameters shall be de optional.	eclared for th	e average h	eating seaso	n, p	arameters for the warmer and	colder hea	ating seaso	ons are
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	33.5	kW		Seasonal space heating energy efficiency	ηs,h	180	%
Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures T <sub>j</sub>					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T <sub>j</sub>			
Tj=-7°C	Pdh	16.30	kW		Tj=-7°C	COPd	2.82	
Tj=+2°C	Pdh	9.92	kW		Tj=+2°C	COPd	4.35	
Tj=+7°C	Pdh	6.64	kW		Tj=+7°C	COPd	6.41	
Tj=+12°C	Pdh	5.78	kW		Tj=+12°C	COPd	7.70	
T <sub>biv</sub> =bivalent temperature	Pdh	18.43	kW		T <sub>biv</sub> =bivalent temperature	COPd	2.66	
ToL=operation temperature	Pdh	18.43	kW		ToL =operation temperature	COPd	2.66	
Bivalent temperature	Tbiv	-10	°C					
	ı				ı			
Degradation co-efficient for heat pumps(**)	Cdh	0.25						
Power consumption in	modes other	than "activ	e mode"		Supplementary heater			
Off mode	Poff	0.05	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	Рто	0.05	kW		Type of energy input			
Crankcase heater mode	Рск	0.005	kW		Standby mode	PsB	0.05	kW
			Othe	er it	ems			
Capacity control		variable			For air-to-air heat pump: air flow rate, outdoor measured		10000	m³/h
Sound power level, outdoor	Lwa	81	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)					

Contact details

(\*\*)If Cdh 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.