Information requireme	nts for o	comfor	t chillers							
Model(s):		KEM-90 DNS3 KH								
Outdoor side heat exchanger of chiller:		Air to water								
Indoor side heat exchanger ch	niller:			Water to air						
Туре:		Compressor driven vapour compression								
Driver of compressor:		Electric motor								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	82.35	kW	Seasonal space cooling energy efficiency	η _{s,c}	150.11	%			
Declared cooling capacity for T	part load a	t given ou	itdoor temperature	Declared energy efficiency ratio for part load at given outdoor temperature T _j						
T _j = + 35 °C	P _{dc}	82.35 kW		T _j = + 35 °C	EER₀	2.17				
T _j = + 30 °C	P _{dc}	63.25	kW	T _j = + 30 °C	EER _d	3.57				
T _j = + 25 °C	P _{dc}	41.75	kW	T _j = + 25 °C	EER _d	4.46				
T _j = + 20 °C	P _{dc}	31.25	kW	T _j = + 20 °C	EER₀	6.02				
Degradation co-efficient for chillers (*)	C _{dc}	0.9								
		Power co	nsumption in mode	s other than 'active mode'						
Off mode	P _{OFF}	0.04	kW	Crankcase heater mode	Рск	0.04	kW			
Thermostat-off mode	P _{TO}	1.40	kW	Standby mode	P _{SB}	0.04	kW			
			Other it	iems						
Capacity control		vari	able	For air-to-water comfort chillers: air flow rate, outdoor measured		38000	m³/h			
Sound power level, indoors / outdoors	L _{WA}	-/89	dB	For water / brine-to-water chillers:			3.0			
Emissions of nitrogen oxides (if applicable)	NO _x (**)		mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat exchanger			m³/h			
GWP of the refrigerant		2088	kg CO _{2 eq} (100 years)							
Standard rating conditions used:		Low temperature application								
Contact details										
(*) If C d _c is not determined by	measuren	nent then	the default degrada	ation coefficient of chillers shall be 0,9.						



Madal(a):				VEW 00 DND0 KILL				
Model(s):			KEM-90 DNS3 KH					
Air-to-water heat pump:			YES					
Water-to-water heat pump:				NO				
Brine-to-water heat pump:				NO				
Low-temperature heat pump:				YES				
Equipped with a supplementary heater	er:			NO				
Heat pump combination heater:				NO				
Declared climate condition:				AVERAGE				
Parameters are declared for low-tem	perature app	lication.				1		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	31	KW	Seasonal space heating energy efficiency	ηs	147	%	
Declared capacity for heating for part	Declared coefficient of performance or primary energy ratio for part load at outdoor temperature Tj							
Tj = -7 °C	Pdh	57.63	KW	Tj = -7 °C	COPd	147	-	
Tj = 2 °C	Pdh	34.88	KW	Tj = 2 °C	COPd	3.54	-	
Tj = 7 °C	Pdh	27.11	KW	Tj = 7 °C	COPd	4.93	-	
Tj = 12 °C	Pdh	31.93	KW	Tj = 12 °C	COPd	6.33	-	
Tj=bivalent temperature	Pdh	57.63	KW	Tj=bivalent temperature	COPd	2.41	-	
Tj = operating limit	Pdh	64.13	KW	Tj = operating limit	COPd	2.07	-	
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	KW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-	
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity forheating	Pcy ch	-	KW	Cycling interval efficiency	COPcy c	-	-	
Degradation co-efficient (**)	Cdh			Heating water operating limit temperature	WTOL	-	°C	
Power consumption in modes other to	han active m	ode		Supplementary heater				
Off mode	Pof f	1.00	kW					
Standby mode	Psb	0.04	kW	Rated heat output (**)	Psup			
Thermostat-off mode	Pto	0.04	kW			Į.		
Crankcase heater mode	Pck	0.04	kW	Type of energy input				
Other items	1							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	24000	m³/l	
Sound power level, outdoors	LWA	89	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-		m³/h	
Annual energy consumption	QHE		kWh			-		
For heat pump combination heater:	1			<u>. </u>		1		
Declared load profile				Water heating energy efficiency	ηwh	-	%	
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qf uel	-	kWl	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details		L	1		•			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj)

^(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh =0.99.