

Information requirements for heat pumps/air conditioners according to Regulation (EU) 2016/2281



Summary sheet: ULTI+ R32 01-020

DEFINITION	UNIT	ULTI+ R32 01-020
	Heat exchanger on the outside of the air conditioner/heat pump:	Fresh
	Heat exchanger on the inside of the air conditioner/heat pump:	Fresh
	TYPE:	Compressor-driven vapour compression
	Please specify if the heating product is equipped with an auxiliary heater:	No
	Technical data for the average cooling season and the average heating season	
	Contact	ETT Route de Brest 29830 PLOUDALMEZEAU France

COOLING MODE

MAIN PERFORMANCES

	Symbol	Value	UOM
Rated cooling capacity	P _{rated,C}	20,3	kW
Seasonal Energy Efficiency Ratio for building cooling	h _{s,C}	249%	%

DETAILED PERFORMANCES IN ACTIVE MODE

	Symbol	Value	UOM
T _i = + 35 °C Declared heating capacity/energy efficiency ratio in part load	P _{dc}	20,29	kW
T _i = + 30 °C Declared heating capacity/energy efficiency ratio in part load	P _{dc}	14,95	kW
T _i = + 25 °C Declared heating capacity/energy efficiency ratio in part load	P _{dc}	9,53	kW
T _i = + 20 °C Declared heating capacity/energy efficiency ratio in part load	P _{dc}	8,50	kW
Degradation coefficient (*)	C _{dc}	0,25	-

For given outside temperatures of T_j and inside temperatures of 27°C/19°C (dry bulb/wet bulb)

ENERGY CONSUMPTION IN MODES OTHER THAN ACTIVE

	Symbol	Value	UOM
Stop mode	P _{OFF}	0,045	kW
Thermostat stop mode	P _{TO}	0,045	kW
Active crankcase heater mode	P _{CK}	0,045	kW
Standby mode	P _{SB}	0,045	kW

OTHER FEATURES

	Symbol	Value	UOM
Outside sound power level	L _{WA}	69	dbA
Sound power level on supply air	L _{WA}	68	dbA
Refrigerant GWP (100 years)	GWP	675	kg CO ₂ eq

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HEATING MODE

MAIN PERFORMANCES		Symbol	Value	UOM			
Rated heating capacity		P _{rated,h}	19,6	kW			
Seasonal Energy Efficiency Ratio for building heating		h _{s,h}	181%	%			
DETAILED PERFORMANCES IN ACTIVE MODE		Symbol	Value	UOM	Symbol	Value	UOM
T _j = - 7 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	14,06	kW	COP _d	3,34	kW/kW
T _j = + 2 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	10,55	kW	COP _d	4,60	kW/kW
T _j = + 7 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	7,00	kW	COP _d	6,01	kW/kW
T _j = + 12 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	6,57	kW	COP _d	8,08	kW/kW
T _{biv} = - 4 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	15,07	kW	COP _d	3,55	kW/kW
T _{oi} = - 10 °C	Declared heating capacity/energy efficiency ratio in part load	P _{dh}	12,67	kW	COP _d	3,21	kW/kW
Degradation coefficient (*)		C _{dh}	0,25	-	(*) Default value		
Heating capacity of auxiliary heating		elbu	6,9	kW			
Type of energy used		electrical					
For an inside temperature of 20°C and an outside temperature of T _j							
ENERGY CONSUMPTION IN MODES OTHER THAN ACTIVE		Symbol	Value	UOM			
Stop mode		P _{OFF}	0,045	kW			
Thermostat stop mode		P _{TO}	0,045	kW			
Active crankcase heater mode		P _{CK}	0,045	kW			
Standby mode		P _{SB}	0,045	kW			
OTHER FEATURES		Symbol	Value	UOM			
Outside sound power level		L _{WA}	69	dB(A)			
Sound power level on supply air		L _{WA}	68	dB(A)			
Refrigerant GWP (100 years)		GWP	675	kg CO ₂ eq			