

MODEL: UTN-12AP /UTG-12AP				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Cooling		Y		Average (mandatory)		Y	
Heating		Y		Warmer (if designed)		Y	
				Colder (if designed)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
Cooling	Pdesignc	3.2	kW	Cooling	SEER	6.5	-
Heating/Average	Pdesignh	2.7	kW	Heating/Average	SCOP/A	4.1	-
Heating/Warmer	Pdesignh	2.8	kW	Heating/Warmer	SCOP/W	5.1	-
Heating/Colder	Pdesignh	x	kW	Heating/Colder	SCOP/C	x	-
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Tj = 35 °C	Pdc	3.20	kW	Tj = 35 °C	EERd	3.30	-
Tj = 30 °C	Pdc	2.25	kW	Tj = 30 °C	EERd	4.85	-
Tj = 25 °C	Pdc	1.55	kW	Tj = 25 °C	EERd	7.70	-
Tj = 20 °C	Pdc	0.83	kW	Tj = 20 °C	EERd	11.23	-
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.48	kW	Tj = - 7 °C	COPd	2.64	-
Tj = 2 °C	Pdh	1.46	kW	Tj = 2 °C	COPd	4.19	-
Tj = 7 °C	Pdh	0.93	kW	Tj = 7 °C	COPd	5.08	-
Tj = 12 °C	Pdh	1.16	kW	Tj = 12 °C	COPd	6.35	-
Tj = bivalent temperature	Pdh	2.31	kW	Tj = bivalent temperature	COPd	2.45	-
Tj = operating limit	Pdh	2.48	kW	Tj = operating limit	COPd	2.64	-
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = 2 °C	Pdh	2.81	kW	Tj = 2 °C	COPd	2.81	-
Tj = 7 °C	Pdh	1.95	kW	Tj = 7 °C	COPd	4.97	-
Tj = 12 °C	Pdh	1.16	kW	Tj = 12 °C	COPd	6.35	-
Tj = bivalent temperature	Pdh	2.81	kW	Tj = bivalent temperature	COPd	2.81	-
Tj = operating limit	Pdh	2.81	kW	Tj = operating limit	COPd	2.81	-
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	N/A	kW	Tj = - 7 °C	COPd	N/A	-
Tj = 2 °C	Pdh	N/A	kW	Tj = 2 °C	COPd	N/A	-
Tj = 7 °C	Pdh	N/A	kW	Tj = 7 °C	COPd	N/A	-
Tj = 12 °C	Pdh	N/A	kW	Tj = 12 °C	COPd	N/A	-
Tj = bivalent temperature	Pdh	N/A	kW	Tj = bivalent temperature	COPd	N/A	-
Tj = operating limit	Pdh	N/A	kW	Tj = operating limit	COPd	N/A	-
Tj = - 15 °C	Pdh	-	kW	Tj = - 15 °C	COPd	-	-
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-7	°C	Heating/Average	Toi	-10	°C
Heating/Warmer	Tbiv	2	°C	Heating/Warmer	Toi	2	°C
Heating/Colder	Tbiv	x	°C	Heating/Colder	Toi	x	°C
Cycling interval capacity				Cycling interval efficiency			
For Cooling	Pcycc	x,x	kW	For Cooling	EERcyc	x,x	-
For Heating	Pcyh	x,x	kW	For Heating	COPcyc	x,x	-
Degradation co-efficient cooling (**)	Cdc	0.25	-	Degradation co-efficient cooling (**)	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off Mode	P <sub>OFF</sub>	0.00198	kW	Cooling	Q <sub>CE</sub>	172	kWh/a
Standby Mode	P <sub>SB</sub>	0.00198	kW	Heating/Average	Q <sub>HE</sub>	922	kWh/a
Thermostat-Off Mode	P <sub>TO</sub>	0.00441/ 0.01492	kW	Heating/Warmer	Q <sub>HE</sub>	769	kWh/a
Crankcase Heater Mode	P <sub>CK</sub>	0	kW	Heating/Colder	Q <sub>HE</sub>	-	kWh/a
Capacity control (indicate one of three options)				Other items			
Fixed	N			Sound power level (indoor/outdoor)	L <sub>WA</sub>	(57/64)	dB(A)
Staged	N			Global warming potential	GWP	675	kgCO <sub>2</sub> e q.
Variable	Y			Rated air flow (indoor/outdoor)	-	(680/1950)	m <sup>3</sup> /h
Contact details for obtaining more information	TOYOTOMI CO., LTD. 5-17, MOMOZONO-CHO MIZUHO-KU, NAGOYA, 467-0855 JAPAN						
(*)For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit.							
(**)If default Cd = 0,25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.							