



**POST GRADUATE DEPARTMENT OF MATHEMATICS
UNIVERSITY OF KASHMIR, SRINAGAR**

No:F(Tender-Notice-AC)Math/KU/18
Dated: 24-05-2018

TENDER NOTICE

Sealed tenders affixed with Rs. 10/- revenue stamp are invited from the registered dealers for the supply of the following **split Hot & Cold 1.5 Ton AC's** alongwith **Automatic servo stabilizer** as per specification given below to be installed for the Department of Mathematics, University of Kashmir, Srinagar which should reach to the office of the undersigned by or before **07-06-2018**. The tenders should be enclosed with the CDR of Rs. 10,000/= and pledged to the Head Department of Mathematics, University of Kashmir, Srinagar.

1. Daikin
2. Mitsubishi
3. Toshiba

Refrigerant		R410A(*1)					
Power Supply		Indoor Power supply					
Outdoor(V/Phase/Hz)		230V / SinglePhase / 50Hz					
Cooling	Design load	Kw	2.5	3.1	5.0	7.1	
	SEER (*3)		5.1	5.1	6.0	5.6	
	Energy Efficiency Class			A	A	A+	A+
	Capacity	Min - Max	Kw	1.3 - 3.0	1.4 - 3.5	1.3 - 5.0	1.8 - 7.1
	Tonnage		TR	0.75	1	1.5	2
	Total Input (*4)	Min - Max	Kw	0.330 - 1.020	0.360 - 1.270	0.300 - 2.050	0.300 - 2.330
EER			3.42	3.03	2.44	3.05	
Heating (Average Season)	SCOP (*3)		3.8	3.8	4.2	4.0	
	Energy Efficiency Class			A	A	A+	A+
	Capacity	Min - Max	Kw	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5	1.5 - 8.5
	Tonnage		TR	0.75	1	1.5	2
	Total Input (*4)	Min - Max	Kw	0.260 - 1.160	0.370 - 1.200	0.270 - 2.030	0.290 - 2.700
	COP			3.62	3.62	3.65	3.32
Breaker Size		A	10	10	10	16	
Indoor Unit	Input	Rated	Kw	0.020	0.021	0.037	0.055
	Dimensions	H x W x D	mm	290 x 799 x 232	290 x 799 x 232	290 x 799 x 232	305 x 923 x 250
	Weight		Kg	9	9	9	13
	Air Volume (Lo-Med-Hi-SHi) (*2)	Cooling	m3/min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9	10.0 - 12.2 - 15.0 - 19.9
	Sound Level (SPL) (Lo-Med-Hi-SHi) (*2)	Heating	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50
	Dimensions	H x W x D	mm	538 x 699 x 249	538 x 699 x 249	550 x 800 x 285	880 x 840 x 330
Outdoor Unit	Dimensions		Kg	24	25	36	55
	Weight		m3/min	31.5	31.5	36.3	49.3
	Air Volume	Cooling	m3/min	31.5	31.5	34.8	47.9
	Sound Level (SPL)	Heating	dB(A)	50	50	50	55
		Cooling	dB(A)	50	50	51	55
		Heating	dB(A)	50	50	51	55
Operating Current (Max)		A	5.8	6.5	9.8	12.5	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	9.52 / 15.88
	Max. Length	Out - In	m	20	20	20	30
	Max. Height	Out - In	m	12	12	12	15
Guaranteed Operating Range(Outdoor)	Cooling		°C	+15 - +46	+15 - +46	+15 - +46	+15 - +46
	Heating		°C	-10 - +24	-10 - +24	-10 - +24	-10 - +24

*1. Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1Kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 Kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2. (SHi) - Super High

*3. SEER - SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season"

*4. Total Input and current was measured under below conditions: In cooling mode: Indoor temperature 27°C DB and 19°C WB. Outdoor temperature: 35°C DB. In heating mode: Indoor temperature 20°C DB. Outdoor temperature: 7°C DB and 8°C WB

Sd/=

Head of the Department