

PRODUCT BULLETIN

NEW MIRAI INVERTER HEAT PUMP SPLIT SYSTEMS R410/R32

- RAS -07BKV(G)-E/ RAS-07BAV(G)-E
- RAS -10BKV(G)-E/ RAS-10BAV(G)-E
- RAS -13BKV(G)-E/ RAS-13BAV(G)-E

*** Available End June/Early July 2016 ***

TOSHIBA are pleased to announce the launch of the NEW entry tear MIRAI Residential Inverter Heat Pump R410a/R32 system to join the current RAS line-up.



Standard RC
WH-UA01NE



Optional RC
inc. weekly timer
RB-RXS30-E



1. Introduction

LINE-UP				
Refrigerant	Indoor	Outdoor	Cooling Capacity (kW)	Heating Capacity (kW)
R410a	RAS-07BKV-E	RAS-07BAV-E	2.0	2.5
R410a	RAS-10BKV-E	RAS-10BAV-E	2.5	3.2
R410a	RAS-13BKV-E	RAS-13BAV-E	3.1	3.6
R410a	RAS-16BKV-E	RAS-16BAV-E	4.4	5.2
R32	RAS-05BKVG-E	RAS-05BAVG-E	1.5	2.0
R32	RAS-07BKVG-E	RAS-07BAVG-E	2.0	2.5
R32	RAS-10BKVG-E	RAS-10BAVG-E	2.5	3.2
R32	RAS-13BKVG-E	RAS-13BAVG-E	3.3	3.6
R32	RAS-16BKVG-E	RAS-16BAVG-E	4.6	5.4

2. Features

- ◆ A new design that improves the energy efficiency of entry-tier level to A+/A+
- ◆ Operating range down to -15°C on cooling mode.
- ◆ Highlighted features: New High-wall with Dustless heat-exchanger, and EZ service construction
- ◆ Standard features: Self Diagnosis, Hi Power, Self-Cleaning, ECO, Off timer, Swing and heating only compatibility.
- ◆ Extra features of the optional controller: Power Select, Comfort Sleep, On-Off timer, 8°C and Weekly Timer.

3. Release Date

Available Now

4. Preliminary Specifications

MIRAI R410a		HEAT PUMP INVERTER			
INDOOR UNIT	RAS-	RAS-07BKV-E	RAS-10BKV-E	RAS-13BKV-E	RAS-16BKV-E
OUTDOOR UNIT	RAS-	RAS-07BAV-E	RAS-10BAV-E	RAS-13BAV-E	RAS-16BAV-E
Cooling Capacity	(kW)	2.0	2.5	3.1	4.4
Heating Capacity	(kW)	2.5	3.2	3.6	5.2
Operating Range Cooling/Heating	(°C)	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Cooling Input Power	(kW)	0.60	0.85	1.15	1.56
Cooling	EER	3.33	2.94	2.70	2.82
Cooling	SEER	5.70	5.60	5.70	5.90
Heating Input Power	(kW)	0.62	0.84	0.96	1.52
Heating	COP	4.03	3.81	3.75	3.42
Heating	SCOP	4.00	4.00	4.00	4.20
INDOOR UNIT					
Standard Air Flow H/L	(l/s)	148/65	153/67	172/73	210/88
Standard Air Flow H/L	(m3/min)	8.9/3.9	9.2/4.0	10.3/4.4	12.6/5.3
Standard Air Flow H/L	(m3/h)	534/234	552/240	618/264	756/318
Sound Pressure Level H/L	(dBA)	40/22	41/23	42/24	43/26
Height/Width/Depth	(mm)	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
Main Unit Total Weight	(kg)	9	9	9	10
Gas Side	(mm/")	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Liquid Side	(mm/")	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4
Drain Port OD/ID	(mm)	16/14	16/14	16/14	16/14
Power Cable From Outdoor To Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Remote Controller		WH-UA01NE	WH-UA01NE	WH-UA01NE	WH-UA01NE
OUTDOOR UNIT					
Sound Pressure Level	(dBA)	50	50	50	50
Refrigerant Chargeless To	(m)	15	15	15	15
Maximum Piping Length	(m)	15	15	15	20
Height Difference Outdoor To Indoor	(m)	12	12	12	12
Pipe Connections Gas Side	(mm/")	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Pipe Connections Liquid Side	(mm/")	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16
Height/Width/Depth	(mm)	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550x780x290
Total Weight	(kg)	21	21	22	34
Maximum Run Current	(Amps)	3.17	4.19	5.60	7.05
Power Supply		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Suggested Fused Supply	(Amps)	10	10	10	16

5. Preliminary Specifications

MIRAI R32		HEAT PUMP INVERTER				
INDOOR UNIT	RAS-	RAS-05BKVGE	RAS-07BKVGE	RAS-10BKVGE	RAS-13BKVGE	RAS-16BKVGE
OUTDOOR UNIT	RAS-	RAS-05BAVGE	RAS-07BAVGE	RAS-10BAVGE	RAS-13BAVGE	RAS-16BAVGE
Cooling Capacity	(kW)	1.5	2.0	2.5	3.3	4.6
Heating Capacity	(kW)	2.0	2.5	3.2	3.6	5.4
Operating Range Cooling/Heating	(°C)	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24	-15 to 46/-15 to 24
Cooling Input Power	(kW)	0.39	0.58	0.77	1.13	1.53
Cooling	EER	3.85	3.45	3.25	2.92	3.01
Cooling	SEER	5.60	5.60	5.70	5.60	6.20
Heating Input Power	(kW)	0.47	0.64	0.85	0.96	1.55
Heating	COP	4.26	3.91	3.76	3.75	3.48
Heating	SCOP	4.00	4.00	4.00	4.00	4.20
INDOOR UNIT						
Standard Air Flow H/L	(l/s)	145/65	148/65	153/67	172/73	213/92
Standard Air Flow H/L	(m3/min)	8.7/3.9	8.9/3.9	9.2/4.0	10.3/4.4	12.6/5.3
Standard Air Flow H/L	(m3/h)	522/234	534/234	552/240	618/264	768/330
Sound Pressure Level H/L	(dBA)	37/22	38/23	39/24	42/24	43/25
Height/Width/Depth	(mm)	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
Main Unit Total Weight	(kg)	9	9	9	9	10
Gas Side	(mm/")	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Liquid Side	(mm/")	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4
Drain Port OD/ID	(mm)	16/14	16/14	16/14	16/14	16/14
Power Cable From Outdoor To Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Remote Controller		WH-UA01NE	WH-UA01NE	WH-UA01NE	WH-UA01NE	WH-UA01NE
OUTDOOR UNIT						
Sound Pressure Level	(dBA)	50	50	51	51	52
Refrigerant Chargeless To	(m)	15	15	15	15	15
Maximum Piping Length	(m)	15	15	15	15	20
Height Difference Outdoor To Indoor	(m)	12	12	12	12	12
Pipe Connections Gas Side	(mm/")	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Pipe Connections Liquid Side	(mm/")	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16	16
Height/Width/Depth	(mm)	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550x780x290
Total Weight	(kg)	21	21	21	22	34
Maximum Run Current	(Amps)	2.14	3.17	4.19	5.60	7.05
Power Supply		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Suggested Fused Supply	(Amps)	10	10	10	10	16

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - general.enquiries@toshiba-ac.com