



Characteristics



TOSHIBA



- Energy saving heat pump air curtains: Up to 70% reduction in costs and CO₂ emissions (heating mode).
- Self-supporting casing construction made of galvanized steel plate, finished in structural epoxy-polyester painting white colour RAL9016 as standard. Other colours or stainless steel are available on request.
- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level.
- 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- TOSHIBA DX Interface KIT and programmable control included.
- Ready to connect to TOSHIBA Digital Inverter outdoor heat pump unit (R410A) with expansion valve.

Specifications

Model (*)	Airflow m ³ /h	Outdoor unit	Outdoor unit	Power	Current	Noise Level (5 m) dB(A)	Weight kg
		Power Supply	Power Supply	Fans 230V-50Hz kW	Fans 230V-50Hz A		
M 1500 DX11-TO	2160	RAV-SM1104ATP-E	RAV-SP1104AT8-E	0,642	2,85	57	53
M 2000 DX16-TO	2880	RAV-SM1603AT-E	RAV-SP1604AT8-E	0,856	3,80	58	69
M 2500 DX22-TO	3600	-	RAV-SM2244AT8-E	1,070	4,75	59	86
M 3000 DX27-TO	4320	-	RAV-SM2804AT8-E	1,280	5,70	60	103
ECM 1000 DX8-TO	1640	RAV-SM804ATP-E	-	0,150	1,30	56	35
ECM 1500 DX11-TO	2460	RAV-SM1104ATP-E	RAV-SP1104AT8-E	0,225	1,95	57	53
ECM 2000 DX16-TO	3280	RAV-SM1603AT-E	RAV-SP1604AT8-E	0,300	2,60	58	69
ECM 2500 DX22-TO	4100	-	RAV-SM2244AT8-E	0,375	3,25	59	86
ECM 3000 DX27-TO	4920	-	RAV-SM2804AT8-E	0,450	3,90	60	103
G 1000 DX11-TO	2100	RAV-SM1104ATP-E	RAV-SP1104AT8-E	0,642	2,85	57	50
G 1500 DX16-TO	2800	RAV-SM1603AT-E	RAV-SP1604AT8-E	0,856	3,80	58	59
G 2000 DX22-TO	4200	-	RAV-SM2244AT8-E	1,284	5,70	59	92
G 2000 DX27-TO	4200	-	RAV-SM2804AT8-E	1,284	5,70	59	92
G 2500 DX27-TO	4900	-	RAV-SM2804AT8-E	1,498	6,65	60	96
G 3000 DX27-TO	5600	-	RAV-SM2804AT8-E	1,712	7,60	61	99
G 3000 DX32/2-TO	5600	2x RAV-SM1603AT-E	2x RAV-SP1604AT8-E	1,712	7,60	61	109
ECG 1000 DX11-TO	2190	RAV-SM1104ATP-E	RAV-SP1104AT8-E	0,225	1,95	61	50
ECG 1500 DX16-TO	2920	RAV-SM1603AT-E	RAV-SP1604AT8-E	0,300	2,60	62	59
ECG 2000 DX22-TO	4380	-	RAV-SM2244AT8-E	0,450	3,90	63	92
ECG 2000 DX27-TO	4380	-	RAV-SM2804AT8-E	0,450	3,90	63	92
ECG 2500 DX27-TO	5110	-	RAV-SM2804AT8-E	0,525	4,55	64	96
ECG 3000 DX27-TO	5840	-	RAV-SM2804AT8-E	0,600	5,20	65	109
ECG 3000 DX32/2-TO	5840	2x RAV-SM1603AT-E	2x RAV-SP1604AT8-E	0,600	5,20	65	109

(*) DX is also applicable to the models: Recessed Windbox, Smart, Dam, Recessed Dam, Deco, Variwind, Rund, Zen, Rotowind, Invisair.

33/2 Coil with double circuit and two outdoor units of 16kW.

(**) Air curtains supply is always 230Vx1.

TOSHIBA Digital Inverter Outdoor Units	Heating Capacity kW	Heating Power kW	SCOP or COP (*) W/W	Cooling Capacity kW	Cooling Power kW	SEER or EER (*) W/W	Power Supply	Pipes Gas Liquid inch	Pipes Minimum Lenght m	Pipes Maximum Lenght m	Pipes Maximum Height m
RAV-SM804ATP-E	8,0	2,21	4,02	6,7	2,09	5,63	230Vx1	5/8 3/8	5	30	30
RAV-SM1104ATP-E	11,2	2,93	3,54	10,0	3,11	5,58	230Vx1	5/8 3/8	5	50	30
RAV-SP1104AT8-E	11,2	2,42	4,28	10,0	2,37	6,57	400Vx3	5/8 3/8	3	75	30
RAV-SM1603AT-E	16,0	4,43	3,61	14,0	4,49	3,12	230Vx1	5/8 3/8	5	50	30
RAV-SP1604AT8-E	16,0	4,30	3,72	14,0	4,49	3,12	400Vx3	5/8 3/8	3	75	30
RAV-SM2244AT8-E	22,4	6,49	3,45	20,0	7,20	2,78	400Vx3	1"1/8 1/2"	7,5	70	30
RAV-SM2804AT8-E	27,0	8,15	3,31	23,0	8,75	2,63	400Vx3	1"1/8 1/2"	7,5	70	30

(*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW.



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- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- MITSUBISHI ELECTRIC DX Interface KIT and programmable control included.
- Ready to connect to MITSUBISHI ELECTRIC Digital Inverter outdoor heat pump unit (R410A) with expansion valve.

Specifications

Model (*)	Airflow m ³ /h	Outdoor unit Power Supply 230Vx1	Outdoor unit Power Supply 400Vx3 (**)	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
M 1500 DX11-ME	2160	PUHZ-ZRP100VKA	PUHZ-ZRP100YKA	0,642	2,85	57	53
M 2000 DX14-ME	2880	PUHZ-ZRP125VKA	PUHZ-ZRP125YKA	0,856	3,80	58	69
M 2000 DX16-ME	2880	PUHZ-ZRP140VKA	PUHZ-ZRP140YKA	0,856	3,80	58	69
M 2500 DX22-ME	3600	-	PUHZ-ZRP200YKA	1,070	4,75	59	86
M 3000 DX27-ME	4320	-	PUHZ-ZRP250YKA	1,280	5,70	60	103
ECM 1000 DX8-ME	1640	PUHZ-ZRP71VHA	-	0,150	1,30	56	35
ECM 1500 DX11-ME	2460	PUHZ-ZRP100VKA	PUHZ-ZRP100YKA	0,225	1,95	57	53
ECM 1500 DX14-ME	2460	PUHZ-ZRP125VKA	PUHZ-ZRP125YKA	0,225	1,95	57	53
ECM 2000 DX16-ME	3280	PUHZ-ZRP140VKA	PUHZ-ZRP140YKA	0,300	2,60	58	69
ECM 2500 DX22-ME	4100	-	PUHZ-ZRP200YKA	0,375	3,25	59	86
ECM 3000 DX27-ME	4920	-	PUHZ-ZRP250YKA	0,450	3,90	60	103
G 1000 DX8-ME	2100	PUHZ-ZRP71VHA	-	0,642	2,85	57	50
G 1500 DX14-ME	2800	PUHZ-ZRP125VKA	PUHZ-ZRP125YKA	0,856	3,80	58	59
G 2000 DX22-ME	4200	-	PUHZ-ZRP200YKA	1,284	5,70	59	92
G 2500 DX27-ME	4900	-	PUHZ-ZRP250YKA	1,498	6,65	60	96
G 3000 DX27-ME	5600	-	PUHZ-ZRP250YKA	1,712	7,60	61	109
G 3000 DX32/2-ME	5600	2xPUHZ-ZRP140VKA	2xPUHZ-ZRP140YKA	1,712	7,60	61	109
ECG 1000 DX8-ME	2190	PUHZ-ZRP71VHA	-	0,225	1,95	61	50
ECG 1500 DX16-ME	2920	PUHZ-ZRP140VKA	PUHZ-ZRP140YKA	0,300	2,60	62	59
ECG 2000 DX22-ME	4380	-	PUHZ-ZRP200YKA	0,450	3,90	63	92
ECG 2500 DX27-ME	5110	-	PUHZ-ZRP250YKA	0,525	4,55	64	96
ECG 3000 DX27-ME	5840	-	PUHZ-ZRP250YKA	0,600	5,20	65	109
ECG 3000 DX32/2-ME	5840	2xPUHZ-ZRP140VKA	2xPUHZ-ZRP140YKA	0,600	5,20	65	109

(*) DX is also applicable to the models: Recessed Windbox, Smart, Dam, Recessed Dam, Deco, Variwind, Rund, Zen, Rotowind, Invisair.

33/2 Coil with double circuit and two outdoor units of 16kW.

(**) Air curtains supply is always 230Vx1.

MITSUBISHI Digital Inverter Outdoor Units	Heating Capacity kW	Heating Power kW	SCOP or COP (*) W/W	Cooling Capacity kW	Cooling Power kW	SEER or EER (*) W/W	Power Supply	Pipes Gas Liquid inch	Pipes Minimum Lenght m	Pipes Maximum Lenght m	Pipes Maximum Height m
PUHZ-ZRP71VHA	8	2,03	3,90	7,1	2,01	5,60	230Vx1	5/8 3/8	-	50	30
PUHZ-ZRP100VKA	11,2	2,06	4,20	10	2,63	5,60	230Vx1	5/8 3/8	-	75	30
PUHZ-ZRP100YKA	11,2	2,06	4,20	10	2,63	5,50	400Vx3	5/8 3/8	-	75	30
PUHZ-ZRP125VKA	14	3,63	3,86	12,5	4,05	3,09	230Vx1	5/8 3/8	-	75	30
PUHZ-ZRP125YKA	14	3,63	3,86	12,5	4,05	3,09	400Vx3	5/8 3/8	-	75	30
PUHZ-ZRP140VKA	16	4,20	3,81	13,4	4,36	3,07	230Vx1	5/8 3/8	-	75	30
PUHZ-ZRP140YKA	16	4,20	3,81	13,4	4,36	3,07	400Vx3	5/8 3/8	-	75	30
PUHZ-ZRP200YKA	22,4	6,94	3,23	19	6,46	2,94	400Vx3	1 3/8	-	100	30
PUHZ-ZRP250YKA	27	8,94	3,75	22	8,31	2,65	400Vx3	1 1/2	-	100	30

(*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW.



Characteristics



HITACHI



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- Micro-perforated inlet grille with filter functions and easy service. It does not need prefilter.
- Anodized aluminium outlet vanes, airfoil shaped, adjustable from 0 to 15° each side.
- Double-inlet centrifugal fans driven by an external rotor motor and low noise level. 5-speed selector. "EC" models assembled with very low consumption efficiency fans.
- Includes direct expansion coil with sensors. Optional condensate water pump.
- Plug&Play control panel, infrared remote IR and 7m telephone cable included.
- HITACHI DX Interface KIT with expansion valve and programmable control included.
- Ready to connect to HITACHI Reversible DC Inverter outdoor heat pump unit (R410A).

Specifications

Model (*)	Airflow m ³ /h	Outdoor unit Power Supply 230Vx1	Outdoor unit Power Supply 400Vx3 (**)	Power Fans 230V-50Hz kW	Current Fans 230V-50Hz A	Noise Level (5 m) dB(A)	Weight kg
M 1500 DX11-HI	2160	RAS-4H(V)NCE	RAS-4H(V)NCE	0,642	2,85	57	53
M 2500 DX22-HI	3600	-	RAS-8HNCE	1,070	4,75	59	86
ECM 1500 DX11-HI	2460	RAS-4H(V)NCE	RAS-4H(V)NCE	0,225	1,95	57	53
ECM 2500 DX22-HI	4100	-	RAS-8HNCE	0,375	3,25	59	86
ECM 3000 DX28-HI	4920	-	RAS-10HNCE	0,450	3,90	60	103
G 1000 DX8-HI	2100	RAS-3HVNC	-	0,642	2,85	57	50
G 1500 DX16-HI	2800	RAS-6H(V)NCE	RAS-6H(V)NCE	0,856	3,80	58	59
G 2000 DX22-HI	4200	-	RAS-8HNCE	1,284	5,70	59	92
G 2500 DX22-HI	4900	-	RAS-8HNCE	1,498	6,65	60	96
G 2500 DX28-HI	4900	-	RAS-10HNCE	1,498	6,65	60	96
G 3000 DX28-HI	5600	-	RAS-10HNCE	1,712	7,60	61	109
ECG 1000 DX8-HI	2190	RAS-3HVNC	-	0,225	1,95	61	50
ECG 1000 DX11-HI	2190	RAS-4H(V)NCE	RAS-4H(V)NCE	0,225	1,95	61	50
ECG 1500 DX14-HI	2920	RAS-5H(V)NCE	RAS-5H(V)NCE	0,300	2,60	62	59
ECG 1500 DX16-HI	2920	RAS-6H(V)NCE	RAS-6H(V)NCE	0,300	2,60	62	59
ECG 2000 DX22-HI	4380	-	RAS-8HNCE	0,450	3,90	63	92
ECG 2500 DX22-HI	5110	-	RAS-8HNCE	0,525	4,55	64	96
ECG 2500 DX28-HI	5110	-	RAS-10HNCE	0,525	4,55	64	96
ECG 3000 DX28-HI	5840	-	RAS-10HNCE	0,600	5,20	65	109

(*) DX is also applicable to the models: Recessed Windbox, Smart, Dam, Recessed Dam, Deco, Variwind, Rund, Zen, Rotowind, Invisair.

(**) Air curtains supply is always 230Vx1.

HITACHI Reversible DC Inverter Outdoor Units	Heating Capacity kW	Heating Power kW	SCOP or COP (*) W/W	Cooling Capacity kW	Cooling Power kW	SEER or EER (*) W/W	Power Supply	Pipes Gas Liquid inch	Pipes Maximum Length m	Pipes Maximum Height m
RAS-3HVNC	8,0	1,90	4,21	7,1	1,94	3,66	230Vx1	5/8 3/8	50	30
RAS-4H(V)NCE	11,2	2,54	4,41	10,0	2,44	4,10	230Vx1/400Vx3	5/8 3/8	70	30
RAS-5H(V)NCE	14	3,39	4,12	12,5	3,53	3,54	230Vx1/400Vx3	5/8 3/8	75	30
RAS-6H(V)NCE	16,0	4,23	3,78	14,0	4,25	3,29	230Vx1/400Vx3	5/8 3/8	75	30
RAS-8HNCE	22,4	5,28	4,24	20,0	5,95	3,36	400Vx3	1 3/8	100	30
RAS-10HNCE	28,0	7,12	3,93	25,0	7,81	3,20	400Vx3	1 1/2	100	30

(*) Energy efficiency: SCOP and SEER seasonal ratio under 12kW and COP and EER over 12kW.