

GM_ATP(8)
DIGITAL INVERTER



Toshiba Digital Inverter brings state-of-the-art inverter technology for the commercial sector, offering considerable advantages in terms of capacity, energy savings, optimised control, lower refrigerant charge and utilising the smallest physical dimensions and lightest range of outdoor units in the industry.

Light and compact

- Up to 12.8 kW in only 890mm height and 69kg.

Wide adaptability

- Compatible with a wide choice of indoor units: 4-way cassette dB(A), 4-way compact cassette, slim duct, standard duct, high wall and ceiling.
- Night operation mode to minimize the outdoor unit sound as low as 33dB (A).

Efficiency & energy savings

- The Vector Intelligent Drive Unit (IPDU) technology ensures.
- Power limitation by 1% step between 50% and 100% load for optimal capacity control.
- Energy monitoring by using RBC-AMSU51E-ES/EN wired remote controller.

Easy to maintain

- Removable corner panels for easy access.
- Auto diagnostic function.
- Self-diagnosis function.

SCOP MAX



4.51

CAPACITY



2.5kW > 16kW

OPERATION



-15°C > +46°C

Toshiba state-of-the-art compressor features a powerful magnetic rotor with great surface area to increase efficiency and reduce the operation noise.

- > Efficiency
- > Reliability
- > 100% Toshiba



CASSETTE

RAV-HM_UTP-E/TR
RAV-HM_MUT-E/TR



DUCTED

RAV-HM_BTP-E/TR
RAV-RM_SDT-E/TR



CEILING

RAV-HM_CTP-E/TR



HIGH-WALL

RAV-HM_KRTP-E/TR



FLOOR
STANDING

RAV-HM_FT-E/TR



OUTDOOR UNITS

RAV-GM561ATP-E/TR
RAV-GM801ATP-E/TR
RAV-GM901ATP-E/TR



RAV-GM1101AT(8)P-E/TR
RAV-GM1401AT(8)P-E/TR



RAV-GM1601AT(8)P-E/TR

DIGITAL INVERTER Physical data outdoor - Single phase

| Outdoor unit | Physical data outdoor - Single phase | | | | | | | | |
|---------------------------|--------------------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| | | RAV-GM301ATP-E/TR 1 HP | RAV-GM401ATP-E/TR 1.5 HP | RAV-GM561ATP-E/TR 2 HP | RAV-GM801ATP-E/TR 3 HP | RAV-GM901ATP-E/TR 3.5 HP | RAV-GM1101ATP-E/TR 4 HP | RAV-GM1401ATP-E/TR 5 HP | RAV-GM1601ATP-E/TR 6 HP |
| Air Flow | m ³ /h - l/s | 1800 - 500 | 2200 - 611 | 2400 - 667 | 2700 - 750 | 2900 - 806 | 4080 - 1133 | 4200 - 1167 | 6900 - 1917 |
| Sound pressure level | dB(A) C | 46 | 49 | 46 | 48 | 51 | 54 | 55 | 53 |
| Sound power level | dB(A) C | 61 | 64 | 63 | 65 | 68 | 70 | 70 | 70 |
| Operating range | °C C | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 | -15 / 46 |
| Sound pressure level | dB(A) H | 47 | 50 | 48 | 52 | 55 | 57 | 57 | 55 |
| Sound power level | dB(A) H | 62 | 65 | 65 | 69 | 72 | 74 | 74 | 72 |
| Operating range | °C H | -15 / 15 | -15 / 15 | -15 / 15 | -15 / 15 | -15 / 15 | -15 / 15 | -15 / 15 | -15 / 15 |
| Dimensions (HxWxD) | mm | 550 x 780 x 290 | 550 x 780 x 290 | 550 x 780 x 290 | 550 x 780 x 290 | 630 x 800 x 300 | 890 x 900 x 320 | 890 x 900 x 320 | 1340 x 900 x 320 |
| Weight | kg | 33 | 39 | 40 | 44 | 47 | 68 | 68 | 95 |
| Compressor type | | DC Rotary | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary |
| Flare connections | | | | | | | | | |
| Gas | in | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| Liquid | in | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| Minimum pipe length | m | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 |
| Maximum pipe length | m | 20 | 20 | 30 | 30 | 50 | 50 | 50 | 50 |
| Maximum height difference | m | 10 | 10 | 30 | 30 | 30 | 30 | 30 | 30 |
| Chargeless pipe length | m | 15 | 15 | 20 | 20 | 30 | 30 | 30 | 30 |
| Refrigerant | Type/kg/ TeqCO ₂ | R32 / 0.6 / 0.4 | R32 / 0.9 / 0.6 | R32 / 0.9 / 0.6 | R32 / 1.3 / 0.9 | R32 / 2.0 / 1.3 | R32 / 2.1 / 1.4 | R32 / 2.1 / 1.6 | R32 / 2.4 / 5.0 |
| Power supply | V-ph-Hz | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 | 220/240-1-50, 220-1-60 |

DIGITAL INVERTER Physical data outdoor - Three phase

| Outdoor Unit | Physical data outdoor - Three phase | | | |
|---------------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | RAV-GM1101AT8P-E/TR 4 HP | RAV-GM1401AT8P-E/TR 5 HP | RAV-GM1601AT8P-E/TR 6 HP |
| Air Flow | m ³ /h - l/s | 4080 - 1133 | 4200 - 1167 | 6900 - 1917 |
| Sound pressure level | dB(A) C | 54 | 55 | 53 |
| Sound power level | dB(A) C | 70 | 70 | 70 |
| Operating range | °C C | -15 / 46 | -15 / 46 | -15 / 46 |
| Sound pressure level | dB(A) H | 57 | 57 | 55 |
| Sound power level | dB(A) H | 74 | 74 | 72 |
| Operating range | °C H | -15 / 15 | -15 / 15 | -15 / 15 |
| Dimensions (HxWxD) | mm | 890 x 900 x 320 | 890 x 900 x 320 | 1340 x 900 x 320 |
| Weight | kg | 68 | 68 | 94 |
| Compressor type | | DC Twin Rotary | DC Twin Rotary | DC Twin Rotary |
| Flare connections | | | | |
| Gas | in | 5/8 | 5/8 | 5/8 |
| Liquid | in | 3/8 | 3/8 | 3/8 |
| Minimum pipe length | m | 5 | 5 | 5 |
| Maximum pipe length | m | 50 | 50 | 50 |
| Maximum height difference | m | 30 | 30 | 30 |
| Chargeless pipe length | m | 30 | 30 | 30 |
| Refrigerant | Type/kg | R32 / 2.1 / 1.4 | R32 / 2.1 / 1.4 | R32 / 2.4 / 1.6 |
| Power supply | V-ph-Hz | 380/415-3-50 | 380/415-3-50 | 380/415-3-50, 380-3-60 |

C: cooling mode
H: heating mode