

# VENTAGEN



## multi-zone

10 years on  
the compressor

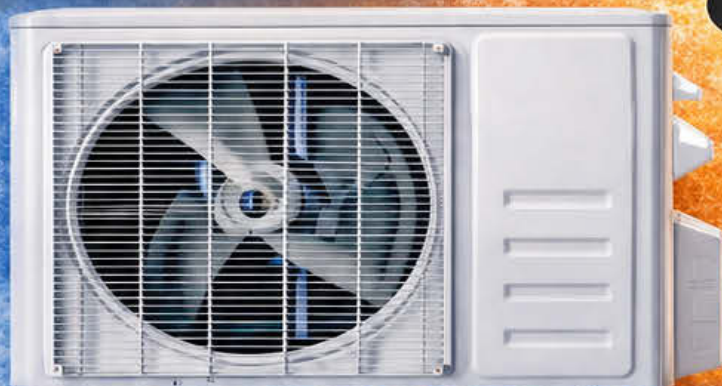
• Limited warranty •

2 years on  
parts.

10.5 HSPF IN HEATING

24 SEER2 IN COOLING

Heating down to -25°C



## MAIN FEATURES

### Operating Modes

- **Cooling (Cool):** This function allows the heat pump to cool the room while reducing air humidity.
- **Heating (Heat):** This function allows the heat pump to heat the room.
- **Dehumidification (Dry):** This function reduces air humidity to make the room more comfortable.
- **Ventilation (Fan):** This function provides room ventilation only.
- **Automatic (Auto):** In AUTO mode, the operating mode will be set automatically according to the ambient temperature.
- **Sleep:** After 10 hours of operation in sleep mode, the heat pump will turn off.

### Control:

- Remote control
- Smart control via Wi-Fi technology
- Temperature display in °C or °F

### Application:

- Residential, commercial buildings, office buildings, condos, restaurants, etc.

### Indoor Unit:

- Wall-mounted installation
- Four-speed fan (auto, high, medium, low)
- Moisture removal: from 1.9 L/h to 3.4 L/h
- Very low sound level, close to a whisper

### Power Supply:

- 208/230V, 60 Hz, 1 Phase.

### Available Capacities:

- 18000, 24000, 36000 and 42000 BTU/h

### Outdoor Unit:

- GMCC (Toshiba) variable-speed compressor
- Very quiet unit.

### Connection:

- 4/16 AWG copper wire

### Factory pre-charged length:

- 25 ft (7.5 m) - 1/4 to 3/8



Intelligent  
preheating



Intelligent  
defrost



Auto  
cleaning



Auto  
diagnosis



Heating  
cable



Automatic  
restart



Sleep  
mode



Timer



Up/Down  
Swing



Left/Right  
Swing



Easy  
installation

# VENTA GEN

## technical specifications

### multizones

Free-Match Technical Specifications	2 zones	3 zones	4 zones	5 zones
<b>Indoor Unit</b>				
Commercial Model	TV2H18FM22X454	TV3H27FM22X454	TV4H36FM21X454	TV5H42FM20X454
Compatible Indoor Wall-Mounted Units	TSVH09EI2N24TI454 ** TSVH12EI2N24TI454 ** TSVH18EI2N24TI454 **			
Type	Cooling & Heating	Cooling & Heating	Cooling & Heating	Cooling & Heating
Power Supply	208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
<b>System Performance</b>				
Nominal Cooling Capacity (95°F / 35°C)	18000	27000	35000	42000
EER2 (95F/35C)	13	12	11.1	11.2
SEER2	24	24	22.5	22
Nominal Heating Capacity (47°F / 8.3°C)	20000	28000	36000	42000
Nominal Heating Capacity (17°F / -8.3°C)	20000	22400	27400	31000
HSPF2 (Region V)	10.5	10.5	10	10
HSPF2 (Region IV)	9.5	8.8	7.8	7.8
COP2 (47F/8.3C)	3.5	3.5	3.5	3.5
COP2 (5°F/-15°C)	2	2	2	2
ENERGY STAR®	YES	YES	YES	YES
NEEP	YES	YES	YES	YES
<b>Electrical Specifications</b>				
Minimum Circuit Ampacity	16	18	22	28
Maximum Fuse Size	25	30	35	45
Outdoor Sound Level	58	62	65	65
Connection Wiring	4×16AWG	4×16AWG	4×16AWG	4×16AWG
<b>Outdoor Unit</b>				
Refrigerant	R454B	R454B	R454B	R454B
Valve Size - Gas	3/8	3/8	3/8	3/8
Valve Size - Liquid	1/4	1/4	1/4	1/4
Expansion Device – Capillary / EEV	EEV	EEV	EEV	EEV
Net Dimensions (L × W × H) - mm	927×380×699	978×421×803	1074×468×853	1074×468×853
Net Dimensions (L × W × H) - inches	36.5×14.96×27.52	38.5×16.57×31.61	42.28×18.43×33.58	42.28×18.43×33.58
Net Weight - kg	42	54	66	79
Net Weight - lbs	92.6	119.0	145.5	174.2
<b>Refrigeration System</b>				
Total Factory Pre-Charged Length	49ft (15m)	74 (22.5)	98 (30)	123 (37.5)
Maximum Piping Length - Total Length	131ft (40m)	197 (60)	263 (80)	295 (90)
Maximum Piping Length - Per Indoor Unit Difference	82ft (25m)	98 (30)	98 (30)	98 (30)
Maximum Height Difference to the Farthest Unit	49ft (15m)	49 (15)	49 (15)	49 (15)
Ambient Temperature - Indoor	16°C~30°C	16°C~30°C	16°C~30°C	16°C~30°C
Ambient Temperature - Outdoor	-15~55°C/-25~30°C	-15~55°C/-25~30°C	-15~55°C/-25~30°C	-15~55°C/-25~30°C

**Specifications subject to change without notice**

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