

# Ducted - Technical Data

## MODEL

	RAD-E50VHA RAC-E50VHA	RAD-E60VHA RAC-E60VHA	RAD-E70VHA RAC-E70VHA	RPI-4.0FSN2SQ RAS-4HVNCL	RPI-5.0FSN2SQ RAS-5HVNCL	RPI-6.0FSN2SQ RAS-6HVNCL	RPI-7.0FSN2SQ RAS-7HVRNIM2
Indoor							
Outdoor							
<b>Capacity (kW)</b>							
Cooling Capacity	5.0	6.0	7.0	10.0	12.5	13.0	16.0
Cooling Capacity Range	1.2-5.8	1.2-6.5	1.5-8.0	4.5-11.2	5.7-14.0	6.0-16.0	6.0-18.0
Heating Capacity	6.0	7.0	8.0	11.2	14.0	16.0	18.0
Heating Capacity Range	1.2-6.8	1.2-8.0	1.5-8.5	5.0-14.0	5.0-18.0	5.0-20.0	5.0-20.0
<b>Energy Efficiency</b>							
EER /AEEER	3.82 / 3.80	3.59 / 3.57	3.34 / 3.32	3.92 / 3.45	3.40 / 3.01	3.27 / 2.96	3.36 / 3.35
COP /ACOP	3.40 / 3.87	3.71 / 3.69	3.40 / 3.39	4.53 / 4.02	4.35 / 3.78	4.21 / 3.68	4.21 / 3.75
<b>Air Flow</b>							
Air Flow /s (Hi / Med / Low / S low)	283 / 233 / 200 / 167	283 / 233 / 200 / 167	283 / 233 / 200 / 167	600 / 550 / 416 / -	783 / 716 / 566 / -	933 / 833 / 666 / -	1083 / 950 / 766 / -
External Static Pa	50 / 100 / 150	50 / 100 / 150	50 / 100 / 150	120 (max)	120 (max)	120 (max)	140 (max)
<b>Dimensions</b>							
Indoor Unit: (H x W x D mm)	270 x 900 x 720	270 x 900 x 720	270 x 900 x 720	350 x 1076 x 800	350 x 1300 x 800	350 x 1300 x 800	440 x 1430 x 550
Outdoor: (H x W x D mm)	750 x 850 x 298	750 x 850 x 298	800 x 850 x 298	1140 x 950 x 370	1140 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Indoor Unit Separable	No	No	No	Yes	Yes	Yes	No
Weights: Indoor kg / Outdoor kg	35 / 50	35 / 50	35 / 52	57 / 79	61 / 89	63 / 89	75 / 104
<b>Sound Pressure Level (dB(a))</b>							
Indoor Unit (Hi / Med / Low / S low) cooling	39 / 35 / 32 / 29	39 / 35 / 32 / 29	39 / 35 / 32 / 29	48 / 45 / 41 / -	49 / 46 / 43 / -	53 / 49 / 45 / -	51 / 47 / 42 / -
Outdoor Unit (Cool / Heat / Night)	50 / 33 / -	50 / 33 / -	50 / 33 / -	52 / 54 / 50	52 / 54 / 50	55 / 57 / 53	49 / 53 / 46
<b>Working Range (°C db)</b>							
Cooling	-15° / 46°C	-15° / 46°C	-15° / 46°C	-5° / 46°C	-5° / 46°C	-5° / 46°C	-5° / 46°C
Heating	-15° / 24°C	-15° / 24°C	-15° / 24°C	-20° / 15°C	-20° / 15°C	-20° / 15°C	-20° / 15°C
<b>Piping</b>							
Pipe Connection Sizes Liquid (Ømm) / Gas (Ømm)	6.35 / 12.70	6.35 / 12.70	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Max Pipe Length (m)	30	30	30	70	75	75	75
Max Pre Charged Length (m)	30	30	30	30	30	30	30
Max Pipe Lift (m) (Outdoor Above / Outdoor Below)	20	20	20	30 / 20	30 / 20	30 / 20	30 / 20
Refrigeration Connections (Indoor / Outdoor)	Flare Nut / Flare Nut	Flare Nut / Flare Nut	Flare Nut / Flare Nut	Flare Nut / Flare Nut	Flare Nut / Flare Nut	Flare Nut / Flare Nut	Flare Nut / Flare Nut
<b>Air Spigot / Drain Dimensions</b>							
Supply Air Spigot (W x H mm)	815 x 219	815 x 219	815 x 219	980 x 220	1205 x 220	1205 x 220	830 x 300
Return Air Spigot (W x H mm)	805 x 220	805 x 220	805 x 220	813 x 306	813 x 306	935 x 306	1288 x 402
Drain dimensions	Ø32	Ø32	Ø32	Ø25	Ø25	Ø25	Ø25
<b>Electrical</b>							
Power Supply	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz	AC 1 Ph 220 - 240V 50Hz
Outdoor Unit Max Current	14	14	16	26	26	26	32
Recommend fuse size	20A	20A	20A	-	-	-	-
Interconnection Wires mains	3pcs +Earth 1.5mm <sup>2</sup>	3pcs +Earth 1.5mm <sup>2</sup>	3pcs +Earth 1.5mm <sup>2</sup>	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min
Interconnection Wires comms	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min	Twisted Pair Cable with Shield - 0.75mm <sup>2</sup> min
<b>Refrigerant</b>							
	R32	R32	R32	R410A	R410A	R410A	R410A

**NOTES:**  
 The nominal cooling and heating capacity is the combined capacity of the Hitachi standard split system, and is based on the BS Standard BS64. Cooling Operation Conditions: Indoor Air Inlet Temperature: 27°C DB, 19.2°C WB; Outdoor Air Inlet Temperature: 35°C DB. Heating Operation Conditions: Indoor Air Inlet Temperature: 20°C DB; Outdoor Air Inlet Temperature: 5°C DB.

7°C DB, 5°C WB. Published capacities based on Piping Length: 7.5 metres. The sound pressure level is based on following conditions: 1.5 metres beneath the unit with discharge duct (2.0m) and return duct (1.0m). Outdoor Units: 1 metre from the unit service cover surface, and 1.5 metres from floor level. Voltage of the power source for the indoor fan motor is 220V. In case of the power source of 240V, the sound pressure level increases by about 1 or 2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.