



TRANE®

Specifications

Mini Condensing Units & Outdoor Unit combinations

*Trane TVR™ II
DC Inverter System*

TVR™ II Mini Condensing Units 50 Hz (4-6 HP)

Model Name			4TVH0040BB	4TVH0048BB	4TVH0055BB	4TVH0040BD	4TVH0048BD	4TVH0055BD
Capacity		HP	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	380-415V 3Ph 50Hz	380-415V 3Ph 50Hz	380-415V 3Ph 50Hz
Cooling	Capacity	kW	12	14	15.5	12	14	15.5
		Btu/hr	40,900	47,800	52,900	40,900	47,800	52,900
	Power Input	W	3,250	3,950	4,520	3,250	3,950	4,520
	EER	W/W	3.69	3.54	3.43	3.69	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17	13.2	15.4	17
		Btu/hr	45,000	52,500	58,000	45,000	52,500	58,000
	Power Input	W	3,470	4,160	4,770	3,470	4,160	4,770
	COP	W/W	3.80	3.70	3.56	3.80	3.70	3.56
Outdoor Air Flow		m ³ /h	6000	6000	6000	6000	6000	6000
Sound Level		dB(A)	57	57	57	57	57	57
Fin Type			Hydrophilic Aluminium			Hydrophilic Aluminium		
Outdoor unit	Dimension (WxHxD)	mm	900x1327x320	900x1327x320	900x1327x320	900x1327x320	900x1327x320	900x1327x320
	Packing (WxHxD)	mm	1030x1456x435	1030x1456x435	1030x1456x435	1030x1456x435	1030x1456x435	1030x1456x435
	Net/Gross weight	Kg	95/106	95/106	100/111	95/106	95/106	100/111
Charged refrigerant type and amount	Kg	R410A 3.3kg	R410A 3.9kg	R410A 3.9kg	R410A 3.3kg	R410A 3.9kg	R410A 3.9kg	
Refrigerant Piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ19.1	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ19.1
	Total pipe length	m	100	100	100	100	100	100
	Max Equivalent Pipe Length	m	70	70	70	70	70	70
	Max Level between ID's	m	8	8	8	8	8	8
	Max Level between OD & ID	m	30	30	30	30	30	30
Max. Amount of IUs connected to OU			6	6	7	6	6	7
Ambient temp. range - Cooling	°C		-15°C—48°C	-15°C—48°C	-15°C—48°C	-15°C—48°C	-15°C—48°C	-15°C—48°C
Ambient temp. range - Heating	°C		-15°C—27°C	-15°C—27°C	-15°C—27°C	-15°C—27°C	-15°C—27°C	-15°C—27°C

* Nominal cooling capacities are based on the following conditions: return air temperature: 27 CDB, 19 CWB, outdoor temperature: 35 CDB, equivalent ref. piping: 7.5 m (horizontal)

* Nominal heating capacities are based on the following conditions: return air temperature: 20 CDB, 15 CWB, outdoor temperature: 7 CDB, 6 CWB, equivalent ref. piping: 7.5 m (horizontal)

* Sound level: Anechoic chamber conversion value, measured at a position 1m in front of the unit and 1.5 m above the floor.

* Refrigerant pipe dim. Listed here only for the total equivalent length < 90m. For the data when total equivalent length ≥ 90m, please refer to technical manual.

* The above data may be changed without notice for further improvement on quality and performance.

TVR™ II Mini Condensing Units 50 Hz (8-20 HP)

Model Name			4TVH0085CD	4TVH0096CD	4TVH0115CD	4TVH0140CD	4TVH0155CD	4TVH0171CD	4TVH0191CD
Capacity		HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
Power supply		V-ph-Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz	380~415V 3Ph 50Hz
Cooling	Capacity	kW	25.2	28	33.5	40	45	50	56
		Btu/hr	86,000	95,500	1,14,300	1,36,500	1,53,500	1,70,600	1,91,100
	Power Input	W	5,940	7,390	9,410	12,460	14,060	15,770	17,020
	EER	W/W	4.24	3.79	3.56	3.21	3.20	3.17	3.29
Heating	Capacity	kW	27	31.5	37.5	45	50	56	63
		Btu/hr	92,100	1,07,500	1,28,000	1,53,500	1,70,600	1,91,100	2,15,000
	Power Input	W	6,210	7,660	9,260	11,280	12,890	14,550	15,520
	COP	W/W	4.35	4.11	4.05	3.99	3.88	3.85	4.06
Outdoor Air Flow		m ³ /h	11500	11500	11500	15100	15100	15100	15250
Sound Level		dB(A)	57	57	59	60	61	62	63
Fin Type			Hydrophilic Aluminium						
Outdoor unit	Dimension (WxHxD)	mm	960×1615×765	960×1615×765	960×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
	Packing (WxHxD)	mm	1025×1790×830	1025×1790×830	1025×1790×830	1305×1790×825	1305×1790×825	1305×1790×825	1305×1790×825
	Net/Gross weight	Kg	198/213	198/213	198/213	268/288	280/300	280/300	280/300
Charged refrigerant type and amount	Kg	R410A 9kg	R410A 9kg	R410A 9kg	R410A 11kg	R410A 13kg	R410A 13kg	R410A 13kg	R410A 13kg
Refrigerant Piping	Liquid side/ Gas side	mm	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ15.9/Φ28.6	Φ15.9/Φ28.6	Φ15.9/Φ31.8	Φ19.1/Φ31.8	Φ19.1/Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Total pipe length	m	500	500	500	500	500	500	500
	Max Equivalent Pipe Length	m	175	175	175	175	175	175	175
	Max Level between ID's	m	15	15	15	15	15	15	15
	Max Level between OD & ID	m	70	70	70	70	70	70	70
Max. Amount of IUs connected to OU			13	16	17	20	23	26	29
Ambient temp. range - Cooling	°C		-5°C—48°C	-5°C—48°C	-5°C—48°C	-5°C—48°C	-5°C—48°C	-5°C—48°C	-5°C—48°C
Ambient temp. range - Heating	°C		-20°C—27°C	-20°C—27°C	-20°C—27°C	-20°C—27°C	-20°C—27°C	-20°C—27°C	-20°C—27°C

* Nominal cooling capacities are based on the following conditions: return air temperature: 27 CDB, 19 CWB, outdoor temperature: 35 CDB, equivalent ref. piping: 7.5 m (horizontal)

* Nominal heating capacities are based on the following conditions: return air temperature: 20 CDB, outdoor temperature: 7 CDB, 6 CWB, equivalent ref. piping: 7.5 m (horizontal)

* Capacities are net, not including a deduction for cooling (an addition for heating) for indoor fan motor heat

* The operating sound has been measured in a semi anechoic chamber. The microphone was located 1m in front of the unit.

With actual installation, the indication value normally differs widely according to the surrounding noise and reverberations.

Note: Specifications subject to change without notice.

TVR™ II Outdoor Unit combinations

Combined ODU Capacity		Recommend Combination							Max Indoor Units nos.
		8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	
		25.2 KW	28 KW	33.5 KW	40 KW	45 KW	50 KW	56 KW	
8 HP	25.2 KW	0							13
10 HP	28 KW		0						16
12 HP	33.5 KW			0					17
14 HP	40 KW				0				20
16 HP	45 KW					0			23
18 HP	50 KW						0		26
20 HP	56 KW							0	29
22 HP	61.5 KW		0	0					33
24 HP	67 KW			00					34
26 HP	73.5 KW			0	0				37
28 HP	78.5 KW			0		0			40
30 HP	83.5 KW			0			0		43
32 HP	89.5 KW			0				0	46
34 HP	96 KW				0			0	49
36 HP	101 KW					0		0	52
38 HP	106 KW						0	0	55
40 HP	112 KW							00	58
42 HP	117.5 KW		0	0				0	62
44 HP	123 KW			00				0	63
46 HP	129.5 KW			0	0			0	64
48 HP	134.5 KW			0		0		0	64
50 HP	139.5 KW			0			0	0	64
52 HP	145.5 KW			0				00	64
54 HP	152 KW				0			00	64
56 HP	157 KW					0		00	64
58 HP	162 KW						0	00	64
60 HP	168 KW							000	64
62 HP	173.5 KW		0	0				00	64
64 HP	179 KW			00				00	64
66 HP	185.5 KW			0	0			00	64
68 HP	190.5 KW			0		0		00	64
70 HP	195.5 KW			0			0	00	64
72 HP	201.5 KW			0				000	64
74 HP	208 KW				0			000	64
76 HP	213 KW					0		000	64
78 HP	218 KW						0	000	64
80 HP	224 KW							0000	64