

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to Midea or third party DX AHU

Control Systems
Smart control systems



VVR Cooltek HP Series Heat Pump

Optimized design for small to large buildings

- ▶ Zen Air Technology
- ▶ Doctor M Technology
- ▶ ESP up to 60Pa
- ▶ Precise Oil Control Technology
- ▶ Night Silent Mode
- ▶ Duty Cycling
- ▶ Backup Operation

Wide Capacity Range

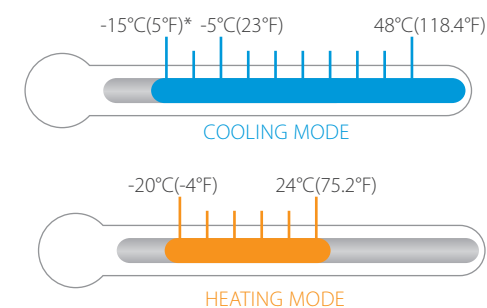
Starting at 8HP, capacity increases in 2HP increments up to 88HP, which is optimized design for small to large buildings.



Wide Operating Temperature Range

The VVR Cooltek HP can operate stably in a wide ambient temperature range: from -15°C(5°F)* to 48°C(118.4°F) in cooling mode and from -20°C(-4°F) to 24°C(75.2°F) in heating mode.

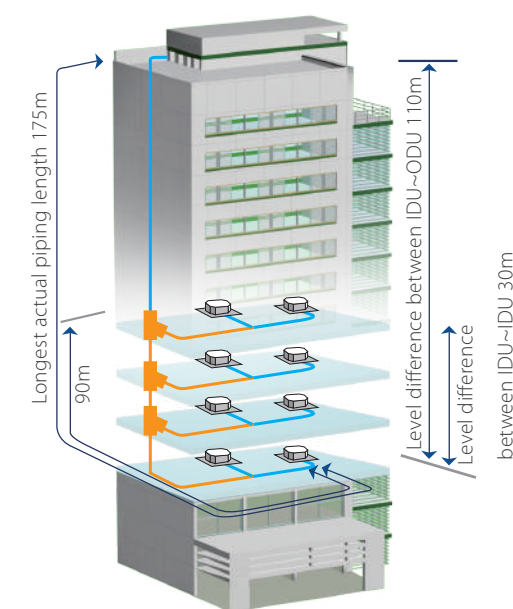
* Cooling operation at -15°C(5°F) is available as a customization option.



Long Piping Capability

Piping length	Capability (m(ft.))
Total piping length	1000(3280)
Longest piping length-actual/equivalent	175/200(574/656)
Longest piping length after first branch	40/90*(131.2/295.2)
Largest level difference between IDUs and ODU-ODU up/down	90/110(131.2/360.8)
Largest level difference between IDUs	30(98.4)

*The longest length after first branch is 40m(131.2ft.) as standard but can be extended to up to 90m(295.2ft.) under certain conditions. Please contact your local dealer for further information.



WR Cooltek HP Series - Heat Pump

220V, 3Ph, 60Hz / 460V, 3Ph, 60Hz

HP			8	10	12
Model (220V, 3Ph, 60Hz)			OURF-252HV2WN1	OURF-280HV2WN1	OURF-335HV2WN1
Model (460V, 3Ph, 60Hz)			OURF-252HV2ZN1	OURF-280HV2ZN1	OURF-335HV2ZN1
Combination type			/	/	/
Cooling	Capacity	kW(kBtu/h)	25.2(86)	28(95.5)	33.5(114.3)
	Power input	kW	5.36	6.22	7.79
	EER		4.7	4.5	4.3
Heating	Capacity	kW(kBtu/h)	27(92.1)	31.5(107.5)	37.5(128)
	Power input	kW	4.82	5.94	7.65
	COP		5.6	5.3	4.9
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Max. quantity		13	16	20
Compressor	Type	DC inverter			
	Quantity		1		
Fan motor	Type	DC motor			
	Quantity		1		
Refrigerant	Type	R410A			
	Factory charging	kg	9	9	11
Pipe connections	Liquid pipe	mm(inch)	Φ12.7(Φ1/2)		
	Gas pipe	mm(inch)	Φ25.4(Φ1)		
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)		
Airflow rate	m ³ /h(CFM)		12000(7063)		
Sound pressure level	dB(A)	58	59	60	
Net dimension (WxHxD)	mm	990x1635x790			
	inch	39x64-3/8x31-1/8			
Packing size (WxHxD)	mm	1090x1805x860			
	inch	42-15/16x71-1/16x33-7/8			
Net weight (220V)	kg	219		237	
	lbs	481.8		521.4	
Gross weight (220V)	kg	234		252	
	lbs	514.8		554.4	
Net weight (460V)	kg	229		247	
	lbs	503.8		543.4	
Gross weight (460V)	kg	249		267	
	lbs	548		587	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)			

HP			14	16	18	20	22
Model (220V, 3Ph, 60Hz)			OURF-400HV2WN1	OURF-450HV2WN1	OURF-500HV2WN1	OURF-560HV2WN1	OURF-615HV2WN1
Model (460V, 3Ph, 60Hz)			OURF-400HV2ZN1	OURF-450HV2ZN1	OURF-500HV2ZN1	OURF-560HV2ZN1	OURF-615HV2ZN1
Combination type			/	/	/	/	/
Cooling	Capacity	kW(kBtu/h)	40(136.5)	45(153.5)	50(170.6)	56(191.1)	61.5(209.8)
	Power input	kW	9.3	10.98	12.82	14.51	16.44
	EER		4.3	4.1	3.9	3.86	3.74
Heating	Capacity	kW(kBtu/h)	45(153.5)	50(170.6)	56(191.1)	63(215)	69(235.4)
	Power input	kW	9.38	10.87	13.18	15.29	17.12
	COP		4.8	4.6	4.25	4.12	4.03
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity		23	26	29	33	36
Compressor	Type	DC inverter					
	Quantity		2				
Fan motor	Type	DC motor					
	Quantity		2				
Refrigerant	Type	R410A					
	Factory charging	kg	13		16		35.2
Pipe connections	Liquid pipe	mm(inch)	Φ15.9(Φ5/8)		Φ19.1(Φ3/4)		
	Gas pipe	mm(inch)	Φ31.8(Φ1-1/4)		Φ31.8(Φ1-1/4)		
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)				
Airflow rate	m ³ /h(CFM)	14000(8240)		16000(9417)			
Sound pressure level	dB(A)	62					
Net dimension (WxHxD)	mm	1340x1635x790					
	inch	52-3/4x64-3/8x31-1/8					
Packing size (WxHxD)	mm	1405x1805x855					
	inch	55-5/16x71-1/16x33-21/32					
Net weight (220V)	kg	297		305		340	
	lbs	654.3		671.0		748.0	
Gross weight (220V)	kg	315		323		358	
	lbs	693.0		710.6		787.6	
Net weight (460V)	kg	326		334		369	
	lbs	717.2		734.8		811.8	
Gross weight (460V)	kg	353		361		396	
	lbs	777		794		871	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)					

Notes:
 Capacities are based on the following conditions:
 Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
 Piping length: Interconnecting piping length is 7.5m, level difference is zero.
 Connection piping diameter of single-unit is the stop valve diameter of the unit.
 Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VWR Cooltek HP Series - Heat Pump

220V, 3Ph, 60Hz / 460V, 3Ph, 60Hz

HP			24	26	28	30	32	34
Model (220V, 3Ph, 60Hz)			OURF-670HV2WN1	OURF-730HV2WN1	OURF-785HV2WN1	OURF-850HV2WN1	MV5-X895W/V2DN1	MV5-X950W/V2DN1
Model (460V, 3Ph, 60Hz)			OURF-670HV2ZN1	OURF-730HV2ZN1	OURF-785HV2ZN1	OURF-850HV2ZN1	MV5-X895W/V2ZN1	MV5-X950W/V2ZN1
Combination type			12HPx2	10HP+16HP	10HP+18HP	10HP+20HP	10HP+22HP	12HP+22HP
Cooling	Capacity	kW(kBtu/h)	67(228.6)	73(249.1)	78(266.1)	84(286.6)	89.5(305.4)	95(324.1)
	Power input	kW	15.58	17.2	19.04	20.73	22.67	24.23
	EER		4.3	4.24	4.1	4.05	3.95	3.92
Heating	Capacity	kW(kBtu/h)	75(255.9)	81.5(278.1)	87.5(298.6)	94.5(322.4)	100.5(342.9)	106.5(363.4)
	Power input	kW	15.31	16.81	19.12	21.23	23.06	24.77
	COP		4.9	4.85	4.58	4.45	4.36	4.3
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity		39	43	46	50	53	56
Compressor	Type	DC inverter						
	Quantity		2		3			3
Fan motor	Type	DC motor						
	Quantity		2		3			3
Refrigerant	Type	R410A						
	Factory charging	kg	11x2	9+13		9+16		11+16
Pipe connections	Liquid pipe	mm(inch)	Φ15.9(Φ5/8)		Φ19.1(Φ3/4)			
	Gas pipe	mm(inch)	Φ28.6(Φ1-1/8)		Φ31.8(Φ1-1/4)			
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)					
Airflow rate	m ³ /h(CFM)	24000(14126)	26000(15303)		28000(16480)			
Sound pressure level	dB(A)	64						
Net dimension (WxHxD)	mm	(990x1635x790)x2					(990x1635x790)+(1340x1635x790)	
	inch	(39x64-3/8x31-1/8)x2					(39x64-3/8x31-1/8)+(52-3/4x64-3/8x31-1/8)	
Packing size (WxHxD)	mm	(1090x1805x860)x2		(1090x1805x860)+(1405x1805x855)				
	inch	(42-15/16x71-1/16x33-7/8)x2		(42-15/16x71-1/16x33-7/8)+(55-5/16x71-1/16x33-21/32)				
Net weight (220V)	kg	237x2	219+297		219+305		219+340	
	lbs	521.4x2	481.8+654.3		481.8+671		481.8+748	
Gross weight (220V)	kg	252x2	234+315		234+323		234+358	
	lbs	554.4x2	514.8+693		514.8+710.6		514.8+787.6	
Net weight (460V)	kg	247x2	229+326		229+334		229+369	
	lbs	543.4x2	503.8+717.2		503.8+734.8		503.8+811.8	
Gross weight (460V)	kg	267x2	249+353		249+361		249+396	
	lbs	587.4x2	547.8+776.6		547.8+794.2		547.8+871.2	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)						

HP			36	38	40	42	44	46
Model (220V, 3Ph, 60Hz)			OURF-1000HV2DN1	OURF-1065HV2DN1	OURF-1115HV2DN1	OURF-1175HV2DN1	OURF-1230HV2DN1	OURF-1285HV2DN1
Model (460V, 3Ph, 60Hz)			OURF-1000HV2ZN1	OURF-1065HV2ZN1	OURF-1115HV2ZN1	OURF-1175HV2ZN1	OURF-1230HV2ZN1	OURF-1285HV2ZN1
Combination type			18HPx2	16HP+22HP	18HP+22HP	20HP+22HP	22HPx2	12HPx2+22HP
Cooling	Capacity	kW(kBtu/h)	100(341.2)	106.5(363.4)	111.5(380.4)	117.5(400.9)	123(419.7)	128.5(438.4)
	Power input	kW	25.64	27.42	29.26	30.95	32.89	32.03
	EER		3.9	3.88	3.81	3.8	3.74	4.01
Heating	Capacity	kW(kBtu/h)	112(382.1)	119(406)	125(426.5)	132(450.4)	138(470.9)	144(491.3)
	Power input	kW	26.35	27.99	30.3	32.41	34.24	32.43
	COP		4.25	4.25	4.13	4.07	4.03	4.44
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity		59	63	64			
Compressor	Type	DC inverter						
	Quantity		4					
Fan motor	Type	DC motor						
	Quantity		4					
Refrigerant	Type	R410A						
	Factory charging	kg	13x2	13+16		16x2		11x2+16
Pipe connections	Liquid pipe	mm(inch)	Φ15.9(Φ5/8)		Φ19.1(Φ3/4)			
	Gas pipe	mm(inch)	Φ31.8(Φ1-1/4)		Φ31.8(Φ1-1/2)			
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)					
Airflow rate	m ³ /h(CFM)	32000(18834)	30000(17657)		32000(18834)			
Sound pressure level	dB(A)	66						
Net dimension (WxHxD)	mm	(1340x1635x790)x2					(990x1635x790)x2+(1340x1635x790)	
	inch	(52-3/4x64-3/8x31-1/8)x2					(39x64-3/8x31-1/8)x2+(52-3/4x64-3/8x31-1/8)	
Packing size (WxHxD)	mm	(1405x1805x855)x2					(1090x1805x860)x2+(1405x1805x855)	
	inch	(55-5/16x71-1/16x33-21/32)x2					(42-15/16x71-1/16x33-7/8)x2+(55-5/16x71-1/16x33-21/32)	
Net weight (220V)	kg	305x2	297+340		305+340		340x2	
	lbs	671x2	654.3+748		671+748		748x2	
Gross weight (220V)	kg	323x2	315+358		323+358		358x2	
	lbs	710.6x2	693+787.6		710.6+787.6		787.6x2	
Net weight (460V)	kg	334x2	326+369		334+369		369x2	
	lbs	734.8x2	717.2+811.8		734.8+811.8		811.8x2	
Gross weight (460V)	kg	361x2	353+396		361+396		396x2	
	lbs	794.2x2	776.6+871.2		794.2+871.2		871.2x2	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)						

Notes:
 Capacities are based on the following conditions:
 Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
 Piping length: Interconnecting piping length is 7.5m, level difference is zero.
 Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, in case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
 Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VWR Cooltek HP Series- Heat Pump

220V, 3Ph, 60Hz / 460V, 3Ph, 60Hz

HP		48	50	52	54	56	
Model (220V, 3Ph, 60Hz)		OURF-1345HV2DN1	OURF-1395HV2DN1	OURF-1455HV2DN1	OURF-1510HV2DN1	OURF-1565HV2DN1	
Model (460V, 3Ph, 60Hz)		OURF-1345HV2ZN1	OURF-1395HV2ZN1	OURF-1455HV2ZN1	OURF-1510HV2ZN1	OURF-1565HV2ZN1	
Combination type		10HP+16HP+22HP	10HP+18HP+22HP	10HP+20HP+22HP	10HP+22HPx2	12HP+22HPx2	
Cooling	Capacity	kW(kBtu/h)	134.5(458.9)	139.5(476)	145.5(496.4)	151(515.2)	156.5(534)
	Power input	kW	33.64	35.49	37.17	39.11	40.68
	EER		4	3.93	3.91	3.86	3.85
Heating	Capacity	kW(kBtu/h)	150.5(513.5)	156.5(534)	163.5(557.9)	169.5(578.3)	175.5(598.8)
	Power input	kW	33.93	36.24	38.36	40.19	41.9
	COP		4.44	4.32	4.26	4.22	4.19
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity	64					
Compressor	Type	DC inverter					
	Quantity	5					
Fan motor	Type	DC motor					
	Quantity	5					
	Static pressure	Pa(in.wg)	0-20(0-0.08) (default)				
Refrigerant	Type	R410A					
	Factory charging	kg	9+13+16		9+16x2		11+16x2
Pipe connections	Liquid pipe	mm(inch)	Φ19.1(Φ3/4)		Φ22.2(Φ7/8)		Φ24.2(Φ1-5/8)
	Gas pipe	mm(inch)	Φ38.1(Φ1-1/2)		Φ41.3(Φ1-5/8)		
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)				
Airflow rate	m ³ /h(CFM)	42000(24720)		44000(25897)			
Sound pressure level	dB(A)	67					
Net dimension (WxHxD)	mm	(990x1635x790)+(1340x1635x790)x2					
Packing size (WxHxD)	mm	(39x64-3/8x31-1/8)+(52-3/4x64-3/8x31-1/8)x2					
Net weight (220V)	kg	219+297+340	219+305+340	219+340x2		237+340x2	
	lbs	481.8+654.3+748	481.8+671+748	481.8+748x2		521.4+748x2	
Gross weight (220V)	kg	234+315+358	234+323+358	234+358x2		252+358x2	
	lbs	514.8+693+787.6	514.8+710.6+787.6	514.8+787.6x2		554.4+787.6x2	
Net weight (460V)	kg	229+326+369	229+334+369	229+369x2		247+369x2	
	lbs	503.8+717.2+811.8	503.8+734.8+811.8	503.8+811.8x2		543.4+811.8x2	
Gross weight (460V)	kg	249+353+396	249+361+396	249+396x2		267+396x2	
	lbs	547.8+776.6+871.2	547.8+794.2+871.2	547.8+871.2x2		587.4+871.2x2	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)					

HP		70	72	74	76	78	
Model (220V, 3Ph, 60Hz)		OURF-1960HV2DN1	OURF-2070HV2DN1	OURF-2070HV2DN1	OURF-2125HV2DN1	OURF-2180HV2DN1	
Model (460V, 3Ph, 60Hz)		OURF-1960HV2ZN1	OURF-2010HV2ZN1	OURF-2070HV2ZN1	OURF-2125HV2ZN1	OURF-2180HV2ZN1	
Combination type		10HP+16HP+22HPx2	10HP+18HP+22HPx2	10HP+20HP+22HPx2	10HP+22HPx3	12HP+22HPx3	
Cooling	Capacity	kW(kBtu/h)	196(668.8)	201(685.8)	207(706.3)	212.5(725.1)	218(743.8)
	Power input	kW	50.09	51.93	53.62	55.55	57.12
	EER		3.91	3.87	3.86	3.83	3.82
Heating	Capacity	kW(kBtu/h)	748.9(219.5)	225.5(769.4)	232.5(793.3)	238.5(813.8)	244.5(834.2)
	Power input	kW	51.06	53.36	55.48	57.31	59.02
	COP		4.3	4.23	4.19	4.16	4.14
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity	64					
Compressor	Type	DC inverter					
	Quantity	7					
Fan motor	Type	DC motor					
	Quantity	7					
	Static pressure	Pa(in.wg)	0-20(0-0.08) (default)				
Refrigerant	Type	R410A					
	Factory charging	kg	9+13+16x2		9+16x3		11+16x3
Pipe connections	Liquid pipe	mm(inch)	Φ25.4(Φ1)		Φ25.4(Φ1)		
	Gas pipe	mm(inch)	Φ44.5(Φ1-3/4)		Φ44.5(Φ1-3/4)		
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)				
Airflow rate	m ³ /h(CFM)	58000(34138)		60000(35315)			
Sound pressure level	dB(A)	69					
Net dimension (WxHxD)	mm	(990x1635x790)+(1340x1635x790)x3					
Packing size (WxHxD)	mm	(1090x1805x860)+(1405x1805x855)x3					
Net weight (220V)	kg	219+297+340x2	219+305+340x2	219+340x3		237+340x3	
	lbs	481.8+654.3+748x2	481.8+671+748x2	481.8+748x3		521.4+748x3	
Gross weight (220V)	kg	234+315+358x2	234+323+358x2	234+358x3		252+358x3	
	lbs	514.8+693+787.6x2	514.8+710.6+787.6x2	514.8+787.6x3		554.4+787.6x3	
Net weight (460V)	kg	229+326+369x2	229+334+369x2	229+369x3		247+369x3	
	lbs	503.8+717.2+811.8x2	503.8+734.8+811.8x2	503.8+811.8x3		543.4+811.8x3	
Gross weight (460V)	kg	249+353+396x2	249+361+396x2	249+396x3		267+396x3	
	lbs	547.8+776.6+871.2x2	547.8+794.2+871.2x2	547.8+871.2x3		587.4+871.2x3	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)					

Notes:
 Capacities are based on the following conditions:
 Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
 Piping length: Interconnecting piping length is 7.5m, level difference is zero.
 Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
 Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VWR Cooltek HP Series - Heat Pump

220V, 3Ph, 60Hz / 460V, 3Ph, 60Hz

HP		58	60	62	64	66	68	
Model (220V, 3Ph, 60Hz)		OURF-1615HV2DN1	OURF-1680HV2DN1	OURF-1730HV2DN1	OURF-1790HV2DN1	OURF-1845HV2DN1	OURF-X900HV2DN1	
Model (460V, 3Ph, 60Hz)		OURF-1615HV2ZN1	OURF-1680HV2ZN1	OURF-1730HV2ZN1	OURF-1790HV2ZN1	OURF-1845HV2ZN1	OURF-1900HV2ZN1	
Combination type		18HPx2+22HP	16HP+22HPx2	18HP+22HPx2	20HP+22HPx2	22HPx3	12HPx2+22HPx2	
Cooling	Capacity	kW(kBtu/h)	161.5(551)	168(573.2)	173(590.3)	179(610.7)	184.5(629.5)	190(648.3)
	Power input	kW	42.08	43.86	45.71	47.4	49.33	48.47
	EER		3.84	3.83	3.78	3.78	3.74	3.92
Heating	Capacity	kW(kBtu/h)	181(617.6)	188(641.5)	194(661.9)	685.8(201)	706.3(207)	726.8(213)
	Power input	kW	43.47	45.11	47.42	49.53	51.36	46.13
	COP		4.16	4.17	4.09	4.06	4.03	4.62
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity	64						
Compressor	Type	DC inverter						
	Quantity	6						
Fan motor	Type	DC motor						
	Quantity	6						
	Static pressure	Pa(in.wg)	0-20(0-0.08) (default)					
Refrigerant	Type	R410A						
	Factory charging	kg	13x2+16		13+16x2		16x3	11x2+16x2
Pipe connections	Liquid pipe	mm(inch)	Φ22.2(Φ7/8)		Φ22.2(Φ7/8)		Φ25.4(Φ1)	
	Gas pipe	mm(inch)	Φ41.3(Φ1-5/8)		Φ41.3(Φ1-5/8)		Φ41.3(Φ1-5/8)	
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)					
Airflow rate	m ³ /h(CFM)	48000(28252)	46000(27075)		48000(28252)		56000(32960)	
Sound pressure level	dB(A)	68						
Net dimension (WxHxD)	mm	(1340x1635x790)x3						(990x1635x790)x2+ (1340x1635x790)x2
	inch	(52-3/4x64-3/8x31-1/8)x3						(39x64-3/8x31-1/8)x2+ (52-3/4x64-3/8x31-1/8)x2
Packing size (WxHxD)	mm	(1405x1805x855)x3						(1090x1805x860)x2+ (1405x1805x855)x2
	inch	(55-5/16x71-1/16x33-21/32)x3						(42-15/16x71-1/16x33-21/32)x2+ (55-5/16x71-1/16x33-21/32)x2
Net weight (220V)	kg	305x2+340	297+340x2	305+340x2		340x3	237x2+340x2	
	lbs	671x2+748	654.3+748x2	671+748x2		748x3	521.4x2+748x2	
Gross weight (220V)	kg	323x2+358	315+358x2	323+358x2		358x3	252x2+358x2	
	lbs	710.6x2+787.6	693+787.6x2	710.6+787.6x2		787.6x3	554.4x2+787.6x2	
Net weight (460V)	kg	334x2+369	326+369x2	334+369x2		369x3	247x2+369x2	
	lbs	734.8x2+811.8	717.2+811.8x2	734.8+811.8x2		811.8x3	543.4x2+811.8x2	
Gross weight (460V)	kg	361x2+396	361+396x2	361+396x2		396x3	267x2+396x2	
	lbs	794.2x2+871.2	794.2+871.2x2	794.2+871.2x2		871.2x3	587.4x2+871.2x2	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)						

HP		80	82	84	86	88	
Model (220V, 3Ph, 60Hz)		OURF-2230V2DN1	OURF-2295HV2DN1	OURF-2345HV2DN1	OURF-2405HV2DN1	OURF-2460HV2DN1	
Model (460V, 3Ph, 60Hz)		OURF-2230HV2ZN1	OURF-2295HV2ZN1	OURF-2345HV2ZN1	OURF-2405HV2ZN1	OURF-2460HV2ZN1	
Combination type		18HPx2+22HPx2	16HP+22HPx3	18HP+22HPx3	20HP+22HPx3	22HPx4	
Cooling	Capacity	kW(kBtu/h)	223(760.9)	229.5(783.1)	234.5(800.1)	240.5(820.6)	246(839.4)
	Power input	kW	58.53	60.31	62.15	63.84	65.78
	EER		3.81	3.81	3.77	3.77	3.74
Heating	Capacity	kW(kBtu/h)	250(853)	257(876.9)	263(897.4)	270(921.2)	276(941.7)
	Power input	kW	60.6	62.23	64.54	66.66	68.49
	COP		4.13	4.13	4.07	4.05	4.03
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity	64					
Compressor	Type	DC inverter					
	Quantity	8					
Fan motor	Type	DC motor					
	Quantity	8					
	Static pressure	Pa(in.wg)	0-20(0-0.08) (default)				
Refrigerant	Type	R410A					
	Factory charging	kg	13x2+16x2		13+16x3		16x4
Pipe connections	Liquid pipe	mm(inch)	Φ25.4(Φ1)		Φ25.4(Φ1)		
	Gas pipe	mm(inch)	Φ44.5(Φ1-3/4)		Φ44.5(Φ1-3/4)		
	Oil balance pipe	mm(inch)	Φ6.35(Φ1/4)				
Airflow rate	m ³ /h(CFM)	64000(37669)	62000(36492)		64000(37669)		
Sound pressure level	dB(A)	70					
Net dimension (WxHxD)	mm	(1340x1635x790)x4					
Packing size (WxHxD)	mm	(52-3/4x64-3/8x31-1/8)x4					
Net weight (220V)	kg	305x2+340x2	297+340x3	305+340x3		340x4	
	lbs	671x2+748x2	654.3+748x3	671+748x3		748x4	
Gross weight (220V)	kg	323x2+358x2	315+358x3	323+358x3		358x4	
	lbs	710.6x2+787.6x2	693+787.6x3	710.6+787.6x3		787.6x4	
Net weight (460V)	kg	334x2+369x2	326+369x3	334+369x3		369x4	
	lbs	734.8x2+811.8x2	717.2+811.8x3	734.8+811.8x3		811.8x4	
Gross weight (460V)	kg	361x2+396x2	353+396x3	361+396x3		396x4	
	lbs	794.2x2+871.2x2	776.6+871.2x3	794.2+871.2x3		871.2x4	
Operating temperature range	°F(°C)	Cooling: -5-48(23-118.4); Heating: -20-24(-4-75.2)					

Notes:
 Capacities are based on the following conditions:
 Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
 Piping length: Interconnecting piping length is 7.5m, level difference is zero.
 Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
 Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Outdoor Units

Outdoor Units