

HEAT PUMP

HEAT RECOVERY

MINI VRF

TOSOT

VRF Catalog

Variable Refrigerant Flow Solutions



WHY CHOOSE T-VRF IN AMERICA?



Local Representation: We decided to go to market with the best local agents to offer the highest level of service. We believe our T-VRF solutions should adapt to your market instead of forcing your market to adapt to our T-VRF solutions. Local representation allows us to offer constant on-the-ground support and highly customizable solutions for any type of project.

Support: We pride ourselves in offering the greatest support at every level. Engineers benefit from our Design Support System. Installers are trained, certified and assisted by our T-VRF Support Team throughout the entire process including after the installation is completed. We assist directly with the Start-up, Commissioning and Maintenance Program to exceed our clients' expectations.

Affordability: We are conscious that we are not the largest player in the VRF industry and we use it to our advantage by keeping our expenses to a minimum level without compromising on quality and service. We believe small is beautiful. Our team is dynamic, quick, and dedicated. We are able to compete at the highest level without paying for the heavy and costly infrastructure of most of our competitors.

Winning Team: We have been in the North American ductless market since 1999 and have sustained a double digit growth every year without investing in costly marketing campaigns. We did it by exceeding our clients' expectations, by being a true partner to those we do business with, and by winning the business of those who were tired of getting promises that were never fulfilled.

What can I find in this catalog ?

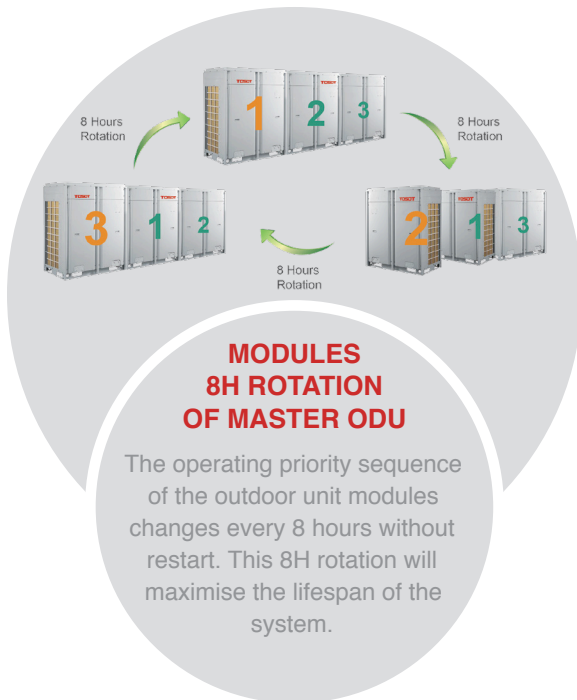
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Visit our website tosotusa.com

T-VRF HEAT PUMP T-VRF HEAT RECOVERY

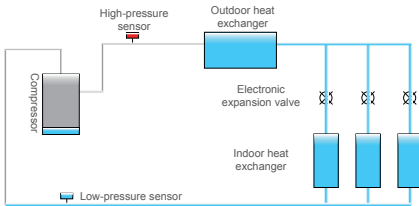
ADVANCED TECHNOLOGY

- **Modules Rotation Operating**
- **Emergency Operation Function**
- **New Oil Return Control**



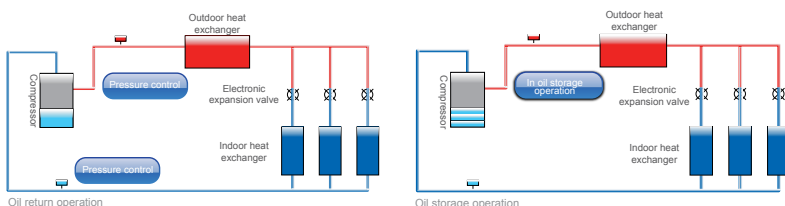
NEW OIL RETURN CONTROL

Tosot new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.



Specialized Compressor Oil Storage Control

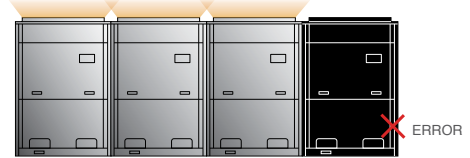
T-VRF specialized compressor oil storage technology can effectively control and operate with low oil levels.



EMERGENCY OPERATION FUNCTION

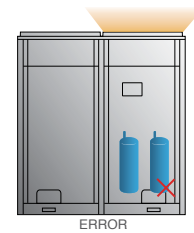
Emergency Function

When one of the modules has a failure, the other modules will perform in emergency operation mode to sustain meet the demand.



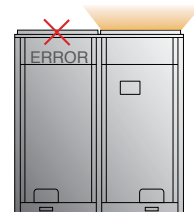
Emergency Operation of Compressor

Every compressor is DC Inverter driven, when one of the compressor is in lock-out, others will perform in emergency operation to sustain the demand.



Emergency Operation of Fan

The double-fan design ensures that one fan can still work if the other one has a failure.



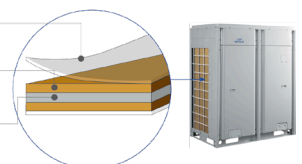
HIGHLY ANTICORROSIVE GOLDEN FINNS

The primary material of the Golden Fin is Al-Mn (Aluminum-Manganese) anti-rust alloy, which is coated with the Golden Protection Layer (Components: Epoxy Resin & Modified Acrylic, Silicon free), the anti-corrosive performance in salt-spray testing is 200%~300% higher than the normal Blue Fin*.

Hydrophilic Layer

Golden Protection Layer
(Epoxy Resin & Modified Acrylic)

Al-Mn Anti-corrosive Alloy



Note: Salt-spray testing result is from WILLIS materials chemistry testing laboratory.

EASY INSTALLATION EASY MAINTENANCE

- **Compact Design**
- **Easy Transportation**
- **Easy Maintenance**

COMPACT DESIGN



With compact design, the outdoor unit can be carried to the roof of building through elevator, with no need of crane. It is easier for delivery and installation.

EASY TRANSPORT



Optimized base frame, the locating and fixing of the outdoor unit during installation is more convenient and reliable.

TRANSPORTABLE BY FORKLIFT



FIVE-WAY PIPING CONNECTION

Piping and wiring are available to the front and back, left and right, and bottom.

The five-way piping connection reduces installation difficulty and cost, improves the installation efficiency.



EASY MAINTENANCE



Inspection window is available for quick checking of system operation status. No need to open panel for checking, which will be more time-saving and easier for maintenance.

ERROR DISPLAY & SELF-DIAGNOSTIC FUNCTION



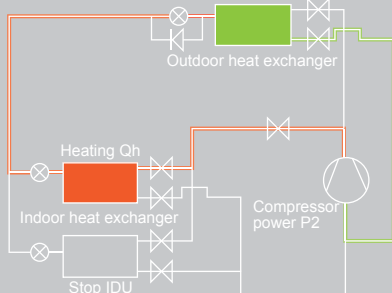
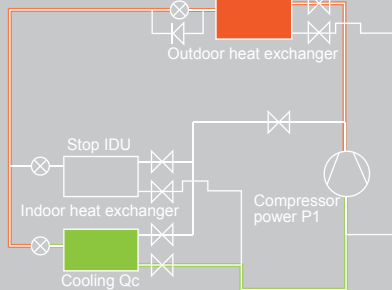
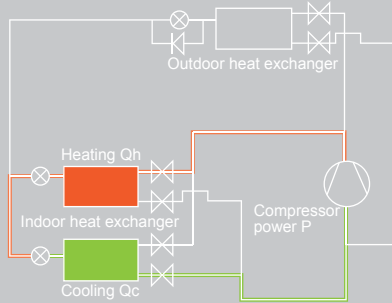
Through LED display (different combinations of ON, OFF, or BLINK) on the main board, the malfunction can be diagnosed.

T-VRF HEAT RECOVERY

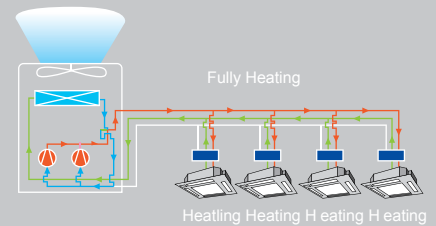
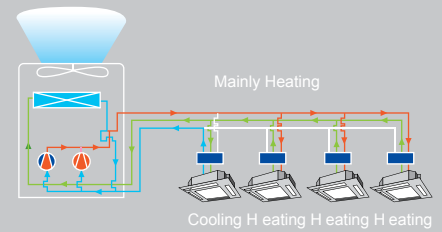
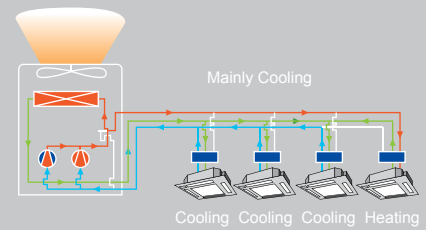
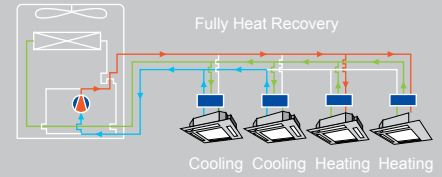
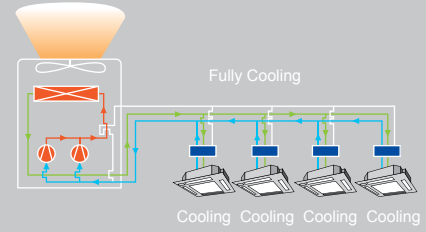
ADVANTAGES

T-VRF Heat Recovery System embodies the excellent features of T-VRF (DC inverter technology, DC fan linkage control, precise control of capacity output, balancing control of refrigerant, original oil balancing technology with high pressure chamber, high-efficiency output control, low-temperature operation control technology, super heating technology, high adaptability for project, environmental refrigerant). In comparison with a heat-pump VRF, the energy efficiency is greatly improved.

HIGH EFFICIENCY



FIVE EFFICIENT OPERATION MODES





- Condensing operation
- Evaporating operation
- Bypassed
- High pressure gas flow direction
- High pressure liquid flow direction
- Low pressure gas flow direction
- Compressor full loading
- Partial loading
- Compressor unloading

T-VRF HEAT PUMP OUTDOOR UNIT

- Outdoor Unit Line Up
- Specifications of Outdoor Unit
- Specifications of Outdoor Unit Combinations



- Outdoor Unit Line Up

MODEL	TVRF-OC72 KHP/220V	TVRF-OC96 KHP/220V	TVRF-OC120 KHP/220V
 TVRF-OC72KHP/220V (6 Ton)	●		
 TVRF-OC96KHP/220V (8 Ton)		●	
 TVRF-OC120KHP/220V (10 Ton)			●
 TVRF-OC144KHP/220V (12 Ton)	●●		
 TVRF-OC168KHP/220V (14 Ton)	●	●	
 TVRF-OC192KHP/220V (16 Ton)		●●	
 TVRF-OC216KHP/220V (18 Ton)		●	●
 TVRF-OC240KHP/220V (20 Ton)			●●
 TVRF-OC264KHP/220V (22 Ton)	●	●●	
 TVRF-OC288KHP/220V (24 Ton)		●●●	
 TVRF-OC312KHP/220V (26 Ton)		●●	●
 TVRF-OC336KHP/220V (28 Ton)		●	●●
 TVRF-OC360KHP/220V (30 Ton)			●●●

• **Specifications T-VRF Heat Pump**

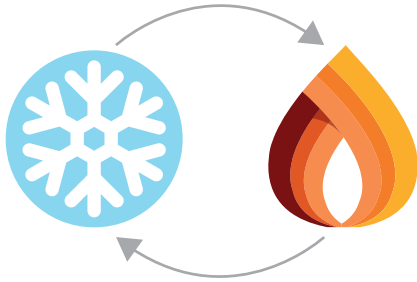
Models Outdoor Unit			TVRF-OC72 KHP/220V	TVRF-OC96 KHP/220V	TVRF-OC120 KHP/220V
Capacity Range	Ton		6	8	10
Capacity	Cooling	Btu/h (Ton)	72,000 (6.0)	96,000 (8.0)	120,000 (10.0)
	Heating	Btu/h (Ton)	81,000 (6.75)	108,000 (9.0)	135,000 (11.25)
Power Supply		V/Ph/Hz	208/230V~3~60Hz	208/230V~3~60Hz	208/230V~3~60Hz
Min. Circuit Current		A	30	45	74
Max. Fuse Current		A	45	70	100
Maximum drive IDU NO.		unit	12	16	20
Refrigerant Charge Volume		lbs	14.3	24.9	26
Airflow		CFM	6,710	8,240	8,240
Sound Pressure Level		dB(A)	60	61	63
Piping connection	Gas	inch	Φ3/8	Φ3/8	Φ3/8
	Liquid	inch	Φ3/4	Φ7/8	Φ9/8
	Oil balance	inch	Φ3/8	Φ3/8	Φ3/8
Dimensions WxHxD	Outline	inch	36-3/5 x 30-1/8 x 63-1/5	52-3/4 x 30-1/8 x 63-1/5	52-3/4 x 30-1/8 x 63-1/5
	Package	inch	39-3/4 x 33 x 69-7/8	56 x 33 x 69-7/8	56 x 33 x 69-7/8
Net/Gross Weight		Lbs	496/518	661/694	794/827
Loading Quantity	40'HQ	set	24	16	16

• **Specifications of Outdoor Unit Combinations**

Model	Power Supply	Capacity		Dimensions (WxDxH)	Airflow	ESP
		Cooling	Heating			
	V/Ph/Hz	Btu/h	Btu/h	In.	CFM	in.W.G
TVRF-OC72 KHP/220V	208/230V~3~60Hz	69,000	77,000	36-3/5*30-1/8*63-1/5	6,080	0.328
TVRF-OC96 KHP/220V	208/230V~3~60Hz	92,000	103,000	52-3/4*30-1/8*63-1/5	8,230	0.328
TVRF-OC120 KHP/220V	208/230V~3~60Hz	114,000	129,000	52-3/4*30-1/8*63-1/5	8,230	0.328
TVRF-OC144 KHP/220V	208/230V~3~60Hz	138,000	154,000	(36-3/5*30-1/8*63-1/5) x2	6,080 x 2	0.328
TVRF-OC168 KHP/220V	208/230V~3~60Hz	160,000	180,000	(36-3/5*30-1/8*63-1/5)+ (52-3/4*30-1/8*63-1/5)	6,080 + 8,230	0.328
TVRF-OC192 KHP/220V	208/230V~3~60Hz	184,000	206,000	(52-3/4*30-1/8*63-1/5) x2	8,230 x 2	0.328
TVRF-OC216 KHP/220V	208/230V~3~60Hz	206,000	231,000	(52-3/4*30-1/8*63-1/5) x2	8,230 x 2	0.328
TVRF-OC240 KHP/220V	208/230V~3~60Hz	228,000	257,000	(52-3/4*30-1/8*63-1/5) x2	8,230 x 2	0.328
TVRF-OC264 KHP/220V	208/230V~3~60Hz	251,000	283,000	(36-3/5*30-1/8*63-1/5)+ (52-3/4*30-1/8*63-1/5) x2	6,080 + 8,230 x 2	0.328
TVRF-OC288 KHP/220V	208/230V~3~60Hz	274,000	308,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.328
TVRF-OC312 KHP/220V	208/230V~3~60Hz	297,000	334,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.328
TVRF-OC336 KHP/220V	208/230V~3~60Hz	320,000	360,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.328
TVRF-OC360 KHP/220V	208/230V~3~60Hz	342,000	385,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.328

T-VRF HEAT RECOVERY OUTDOOR UNIT





- Specifications of Outdoor Unit
- Specifications of Branch
- Specifications of Outdoor Unit Combinations



• Specifications of Outdoor Unit

Models Outdoor Unit			TVRF-SHC72K/220V	TVRF-SHC96K/220V	TVRF-SHC120K/220V
Capacity Range		Ton	6	8	10
Capacity	Cooling	Btu/h (Ton)	72,000 (6.0)	96,000 (8.0)	120,000 (10.0)
	Heating	Btu/h (Ton)	81,000 (6.75)	108,000 (9.0)	135,000 (11.25)
MCA		A	30	46	74
MOP		A	45	70	100
Power Supply		V/Ph/Hz	208/230V~3~60Hz	208/230V~3~60Hz	208/230V~3~60Hz
Maximum drive IDU NO.		unit	12	16	20
Refrigerant Charge Volume		lbs	21,2	24,7	26
Airflow		CFM	8,240	8,240	8,240
Sound Pressure Level		dB(A)	61	61	63
Operating Ambient Temperature Range	Cooling	°F	23 ~ 125.6	23 ~ 125.6	23 ~ 125.6
	Heating	°F	-4 ~ 75.2	-4 ~ 75.2	-4 ~ 75.2
Piping connection	Liquid	inch	Φ3/8	Φ3/8	Φ1/2
	Gas (Low pressure)	inch	Φ3/4	Φ7/8	Φ1 1/8
	Gas (High pressure)	inch	Φ5/8	Φ3/4	Φ7/8
Dimensions WxHxD	Outline	inch	52 3/4 x 30 1/8 63 1/5	52 3/4 x 30 1/8 63 1/5	52 3/4 x 30 1/8 63 1/5
	Package	inch	56 x 33 x 69 7/8	56 x 33 x 69 7/8	56 x 33 x 69 7/8
Net/Gross Weight		Lbs	666/699	683/716	791/827
Loading Quantity		40'HQ set	16	16	16

• **Specifications of Branch**

Model		TVRF-SHCBU1T1	TVRF-SHCBU1T2	TVRF-SHCBU1T4	TVRF-SHCBU1T8	
						
Max IDU Branches	/	1	2	4	8	
No. Of connectable IDU of each branch	/	8	8	8	8	
Total Connectable IDU	/	8	16	32	64	
Max. Capacity of each branch	Btu/h	48,000	48,000	48,000	48,000	
Max. Capacity of connectable IDU	Btu/h	48,000	96,000	153,000	232,000	
Power Supply	V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	
Power Consumption	W	8	20	44	80	
Maximum connected IDU No.	unit	8	16	32	64	
Indoor Unit Piping Connection	Liquid	in.	3/8	3/8	1/2	5/8
	Gas Low Pressure	in.	7/8	7/8	1-1/8	1-1/8
	Gas High Pressure	in.	5/8	3/4	3/4	3/4
Indoor Unit Piping Connection	Liquid	in.	3/8	3/8	3/8	3/8
	Gas	in.	5/8	5/8	5/8	5/8

• **Specifications of Outdoor Unit Combinations**

Model	Power Supply V/Ph/Hz	Capacity		Dimensions (WxDxH) In.	Airflow CFM	ESP in.W.G
		Cooling Btu/h	Heating Btu/h			
TVRF-SHC144K /220V	208/230V~3~60Hz	144,000	162,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.328
TVRF-SHC168K /220V	208/230V~3~60Hz	168,000	189,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.328
TVRF-SHC192K /220V	208/230V~3~60Hz	192,000	216,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.328
TVRF-SHC216K /220V	208/230V~3~60Hz	216,000	243,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.328
TVRF-SHC240K /220V	208/230V~3~60Hz	240,000	270,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.328
TVRF-SHC264K /220V	208/230V~3~60Hz	264,000	297,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.328
TVRF-SHC288K /220V	208/230V~3~60Hz	280,000	324,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.328
TVRF-SHC312K /220V	208/230V~3~60Hz	312,000	351,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.328
TVRF-SHC336K /220V	208/230V~3~60Hz	336,000	378,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.328
TVRF-SHC360K /220V	208/230V~3~60Hz	360,000	405,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.328

MINI T-VRF MINI T-VRF ULTRA HEAT FEATURES

- **Low Noise**
- **Non-Commutative Oil Return Technology**
- **Intelligent Temperature Control**
- **Sensorless DC Inverter Fan Motor**



INTELLIGENT TEMPERATURE CONTROL

Intelligent temperature control technology has been designed for super quick cooling and heating so that the indoor temperature will rapidly reach the desired temperature.



LOW NOISE OF OUTDOOR UNIT

The advanced sub-cooling control technology is applied to reduce the liquid flow noise of indoor unit when in cooling mode. Non-commutative oil return technology and optimization control logic are applied to reduce the liquid flow noise of the indoor unit in the course of oil return when operating in heating mode.

SENSORLESS DC INVERTER FAN MOTOR

The indoor unit is equipped with a high-efficiency brushless DC motor. Compared with a conventional motor, the efficiency of the brushless DC motor is improved by more than 30%. Meanwhile, the design of the evaporation capacity flow is optimized through an emulation software of the refrigeration system resulting in a significant improvement in the heat exchange volume of the evaporator.

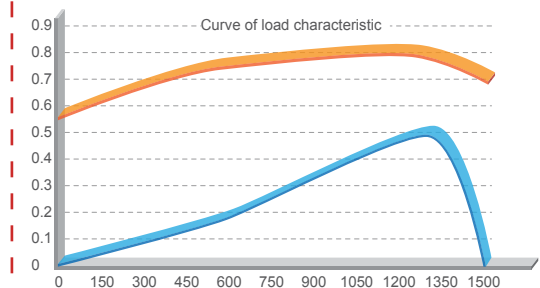
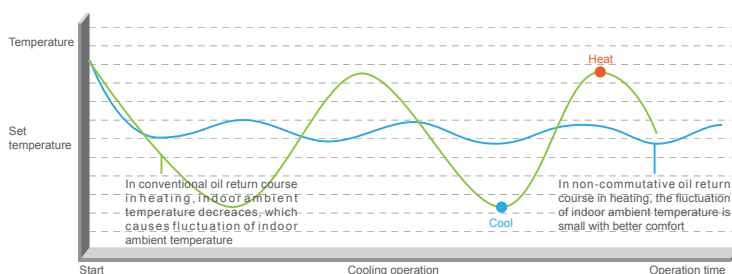
ULTRA HEAT

100% Heating Capacity at -4°F
Stable Operation Under -22°F



NON-COMMUTATIVE OIL RETURN TECHNOLOGY IN HEATING

The unit can achieve non-commutative oil return in heating mode when the outdoor ambient temperature is within the range of 0 to 20°C (32° to 68°F). Thanks to this technology, the indoor ambient temperature is more stable for improved comfort in heating mode.



MINI T-VRF

MINI T-VRF ULTRA HEAT

OUTDOOR UNIT

• Specifications of MINI T-VRF

Models Outdoor Unit			TMVRF-OC36KHP	TMVRF-OC48KHP
Capacity Range		Ton	3	4
Capacity	Cooling	Btu/h (Ton)	37,500 (3.0)	48,000 (4.0)
	Heating	Btu/h (Ton)	42,000 (3.5)	54,000 (4.5)
MCA		A	32	37
MOP		A	50	60
SEER		Btu/h/W	16	16
HSPF		Btu/h/W	9	9
Rated Current		A	32	37
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz
Max. Circuit/Fuse Current		A	50	60
Maximum drive IDU NO.		unit	7	8
Refrigerant Charge Volume		kg/Oz	5/176	5/176
Piping connection	Liquid	inch	Φ3/8	Φ3/8
	Gas	inch	Φ5/8	Φ5/8
Dimensions WxHxD	Outline	inch	35-3/7 x 13-2/5 x 53	35-3/7 x 13-2/5 x 53
	Package	inch	39-2/7 x 18 x 59-2/3	39-2/7 x 18 x 59-2/3
Net/Gross Weight		Lbs	242.6/264.6	242.6/264.6
Loading Quantity	40'HQ	set	60	60

• Specifications of MINI T-VRF ULTRA HEAT



Models Outdoor Unit			TMVRF-36KUH	TMVRF-48KUH
Capacity Range		Ton	3	4
Capacity	Cooling	Btu/h (Ton)	36,000 (3.0)	48,000 (4.0)
	Heating	Btu/h (Ton)	42,000 (3.5)	54,000 (4.5)
MCA		A	32	37
MOP		A	50	60
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz
Maximum drive IDU NO.		unit	7	8
Operating Ambient Temperature Range	Cooling	°F	50 ~ 129	50 ~ 129
	Heating	°F	-22 ~ 81	-22 ~ 81
Airflow		CFM	3,884	3,884
Sound Pressure Level		dB(A)	55	55
Piping connection	Liquid	inch	Φ3/8	Φ3/8
	Gas	inch	Φ5/8	Φ5/8
Dimensions WxHxD	Outline	inch	35 2/5x 16 1/2 x 53	35 2/5x 16 1/2 x 53
	Package	inch	38 7/10 x 17 2/5 x 55	38 7/10 x 17 2/5 x 55
Net/Gross Weight		Lbs	291	291
Loading Quantity	40'HQ	set	57	57









T-VRF

INDOOR UNIT

- High Static Pressure Duct Type
- Low Static Pressure Duct Type
- Wall Mounted
- Console
- 2-Way Cassette
- 4-Way Cassette
- Floor ceiling
- Fresh Air Processing



Indoor Unit Line Up

MODEL	Specifications	7	9	12	14	15	18	22	24	30	36	42	48	72	96
High Static Pressure Duct Type							●		●	●	●	●	●	●	●
Low Static Pressure Duct Type		●	●	●	●		●	●							
Wall Mounted		●	●	●			●		●						
Console		●	●	●			●								
2-Way Cassette			●	●		●	●		●						
4-Way Cassette		●	●	●		●	●		●	●	●	●	●		
Floor Ceiling				●			●		●	●		●	●		
Fresh Air Processing														●	●

Indoor Unit

High Static Pressure Duct Type



Model			TVRF-IEHESP D18KPH	TVRF-IEHESP D24KPH	TVRF-IEHESP D30KPH	TVRF-IEHESP D36KPH	TVRF-IEHESP D42KPH	TVRF-IEHESP D48KPH
Capacity	Cooling	Btu/h	18,000	24,000	30,000	36,000	42,000	48,000
	Heating	Btu/h	20,000	27,000	34,000	40,000	47,000	54,000
Power Supply		V/Ph/Hz	208/230V 1~60Hz	208/230V 1~60Hz	208/230V 1~60Hz	208/230V 1~60Hz	208/230V 1~60Hz	208/230V 1~60Hz
Power Consumption		W	120	130	200	200	220	220
Air Flow Volume		CFM	590/470/355	650/530/410	1000/855/650	1000/855/650	1180/910/710	1180/910/710
Rated Current	Cooling	A	0.9	0.9	1.4	1.4	1.6	1.6
	Heating	A	0.9	0.9	1.4	1.4	1.6	1.6
ESP		Wg	0~0.4	0~0.4	0~0.4	0~0.4	0~0.4	0~0.4
Sound Pressure Level (H/M/L)		dB (A)	44/40/36	45/41/37	46/44/42	46/44/42	48/45/42	48/46/44
Piping Connection	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain Pipe	External Dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	6/61	6/61	6/61	6/61	6/61	6/61
Dimensions (WxDxH)	Outline	In.	50x22x10 5/9	50x22x10 5/9	48 2/5x30 1/2x11 3/7	48 2/5x30 1/2x11 3/7	48 2/5x30 1/2x11 3/7	48 2/5x30 1/2x11 3/7
	Package	In.	53x23 1/2x11 1/7	53x23 1/2x11 1/7	52 2/3x34 1/2x12	52 2/3x34 1/2x12	52 2/3x34 1/2x12	52 2/3x34 1/2x12
Net Weight / Gross Weight		Lbs.	77.2 / 88.2	77.2 / 88.2	103.6 / 119.1	103.6 / 119.1	103.6 / 119.1	103.6 / 119.1
Loading		40'HQ	Set	216	216	128	128	128

Indoor Unit

Low Static Pressure Duct Type



Model			TVRF-IELESP D07KHP	TVRF-IELESP D09KHP	TVRF-IELESP D12KHP	TVRF-IELESP D18KHP
Capacity	Cooling	Btu/h	7,500	9,500	12,000	18,000
	Heating	Btu/h	8,500	10,500	13,500	20,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	43	43	43	99
Air flow volume		m3/h	550	550	550	1000
		CFM	325	325	325	590
Rated Current	Cooling	A	0.3	0.3	0.3	0.5
	Heating	A	0.3	0.3	0.3	0.5
ESP		Pa	15/0~30	15/0~30	15/0~30	15/0~30
Sound Pressure Level (H/M/L)		dB (A)	31/29/25	31/29/25	32/30/27	35/33/30
Piping Connection	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ1/2	Φ5/8
Drain Pipe	External Dia.	In.	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	6/61	6/61	6/61	6/61
Dimensions (WxDxH)	Outline	In.	27 5/9x24 1/5x7 7/8	27 5/9x24 1/5x7 7/8	27 5/9x24 1/5x7 7/8	43 1/3x24 1/5x7 7/8
	Package	In.	35 1/6x29 1/4x12	35 1/6x29 1/4x12	35 1/6x29 1/4x12	52x29 1/4x12
Net Weight / Gross Weight		Lbs.	51 / 69.3	51 / 69.3	51 / 69.3	69 / 86
Loading		40'HQ	Set	192	192	162

Indoor Unit

Wall Mounted



Model			TVRF-IEWM 07KPH	TVRF-IEWM 09KPH	TVRF-IEWM 12KPH	TVRF-IEWM 18KPH	TVRF-IEWM 24KPH
Capacity	Cooling	Btu/h	7,500	9,500	12,000	18,000	24,000
	Heating	Btu/h	8,500	11,000	13,500	20,000	25,500
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	50	50	60	60	70
Air flow volume		m3/h	500/420/350	500/420/350	630/550/480	630/550/480	750/600/500
		CFM	235	235	282	400	440/353/294
Rated Current	Cooling	A	0.2	0.2	0.21	0.21	0.31
	Heating	A	0.2	0.2	0.21	0.21	0.31
Sound Pressure Level (H/M/L)		dB (A)	38/34/30	38/34/30	44/41/38	44/41/38	44/41/38
Piping Connection	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8
	Gas	In.	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
Drain Pipe	External Dia.	In.	Φ4/5	Φ4/5	Φ4/5	Φ4/5	Φ4/5
	Thickness	In.	1/17	1/17	1/17	1/17	1/17
Dimensions (WxDxH)	Outline	In.	33 1/5 x 7 x 10 5/6	33 1/4 x 7 x 10-4/5	37 x 7 9/10 x 11 4/5	37 x 7 9/10 x 11 4/5	39 7/10 x 8 7/10 x 12 3/5
	Package	In.	38 3/10 x 10 1/5 x 14-3/5	38-3/10 x 10 1/5 x 14 3/5	42 x 11 3/10 x 15 3/5	42 x 11 3/10 x 15 3/5	44 1/2 x 15 7/10 x 13
Net Weight / Gross Weight		Lbs.	22/27.5	22/27.5	27.5/33.1	27.5/33.1	33/40.7
Loading		40'HQ	Set	819	819	624	624

Indoor Unit

Console



Model			TVRF-IECS 07KHP	TVRF-IECS 09KHP	TVRF-IECS 12KHP	TVRF-IECS 18KHP
Capacity	Cooling	Btu/h	7,500	9,500	12,000	18,000
	Heating	Btu/h	8,500	11,000	13,500	20,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	15	15	20	40
Air flow volume		m3/h	400	400	480	680
		CFM	235	235	282	400
Rated Current	Cooling	A	0.17	0.17	0.25	0.4
	Heating	A	0.17	0.17	0.25	0.4
Sound Pressure Level (H/M/L)		dB (A)	38	38	40	46
Piping Connection	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4
	Gas	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Drain Pipe	External Dia.	In.	Φ1-1/9	Φ1-1/9	Φ1-1/9	Φ1-1/9
	Thickness	In.	1/25	1/25	1/25	1/25
Dimensions (WxDxH)	Outline	In.	27 5/9 x 8 1/2 x 23 5/8	27 5/9 x 8 1/2 x 23 5/8	27 5/9 x 8 1/2 x 23 5/8	27 5/9 x 8 1/2 x 23 5/8
	Package	In.	31 x 11 1/7 x 27 4/9	31 x 11 1/7 x 27 4/9	31 x 11 1/7 x 27 4/9	31 x 11 1/7 x 27 4/9
Net Weight / Gross Weight		Lbs.	35.3/41.9	35.3/41.9	35.3/41.9	35.3/41.9
Loading		40'HQ	Set	460	460	460

Indoor Unit

2-Way Cassette



Model			TVRF-IE2WC 09KPH	TVRF-IE2WC 12KPH	TVRF-IE2WC 15KPH	TVRF-IE2WC 18KPH	TVRF-IE2WC 24KPH	
Capacity	Cooling	Btu/h	9,500	12,000	15,000	18,000	24,000	
	Heating	Btu/h	10,500	13,500	17,000	20,000	27,000	
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	
Power Consumption		W	55	55	55	55	103	
Air flow volume		m3/h	830/600/530	830/600/530	830/600/530	830/600/530	1100/820/760	
		CFM	490/353/312	490/353/312	490/353/312	490/353/312	650/483/448	
Rated Current	Cooling	A	0.3	0.3	0.3	0.3	0.7	
	Heating	A	0.3	0.3	0.3	0.3	0.7	
Sound Pressure Level		dB(A)	35/33/31	35/33/31	35/33/31	35/33/31	39/37/35	
Piping Connection	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8	
	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8	
Drain Pipe	External Dia.	inch	Φ1	Φ1	Φ1	Φ1	Φ1	
	Thickness	inch	1/10	1/10	1/10	1/10	1/10	
Main Body	Dimensions (WxDxH)	Outline	In.	47 1/5 x 20 1/2 x 13 2/5	47 1/5 x 20 1/2 x 13 2/5	47 1/5 x 20 1/2 x 13 2/5	47 1/5 x 20 1/2 x 13 2/5	47 1/5 x 20 1/2 x 13 2/5
		Package	In.	60 x 26 x 17	60 x 26 x 17	60 x 26 x 17	60 x 26 x 17	60 x 26 x 17
	Net Weight / Gross Weight		Lbs.	94.8/119.1	94.8/119.1	94.8/119.1	94.8/119.1	101.4/125.7
Panel	Dimensions (WxDxH)	Outline	In.	56.4/5 x 24 4/5 x 1 1/4	56.4/5 x 24 4/5 x 1 1/4	56.4/5 x 24 4/5 x 1 1/4	56.4/5 x 24 4/5 x 1 1/4	56.4/5 x 24 4/5 x 1 1/4
		Package	In.	67 x 30 1/5 x 4 7/10	67 x 30 1/5 x 4 7/10	67 x 30 1/5 x 4 7/10	67 x 30 1/5 x 4 7/10	67 x 30 1/5 x 4 7/10
	Net Weight / Gross Weight		Lbs.	15.4/24.3	15.4/24.3	15.4/24.3	15.4/24.3	15.4/24.3
Loading		40'HQ	Set	105	105	105	105	105

Indoor Unit

4-Way Cassette



Model			TVRF-IE4WC 07KPH	TVRF-IE4WC 09KPH	TVRF-IE4WC 12KPH	TVRF-IE4WC 15KPH	TVRF-IE4WC 18KPH	
Capacity	Cooling	Btu/h	7,500	9,500	12,000	15,000	18,000	
	Heating	Btu/h	8,500	10,500	13,500	17,000	20,000	
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	
Power Consumption		W	48	59	59	59	59	
Air flow volume		m3/h	750/650/550	1000/900/750	1000/900/750	1000/900/750	1000/900/750	
		CFM	440/385/325	590/530/440	590/530/440	590/530/440	590/530/440	
Rated Current	Cooling	A	0.3	0.5	0.5	0.5	0.5	
	Heating	A	0.3	0.5	0.5	0.5	0.5	
Sound Pressure Level (H/M/L)		dB (A)	36/34/31	37/35/32	37/35/32	37/35/32	37/35/32	
Piping Connection	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	
	Gas	In.	Φ3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8	
Drain Pipe	External Dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1	
	Thickness	In.	3/32	3/32	3/32	3/32	3/32	
Main Body	Dimensions (WxDxH)	Outline	In.	33 x 33 x 7-1/2	33 x 33 x 9-1/2	33 x 33 x 9-1/2	33 x 33 x 9-1/2	33 x 33 x 9-1/2
		Package	In.	37 15/16 x37 15/16 x10 11/16	37 15/16 x37 15/16 x12 13/16	37 15/16 x37 15/16 x12 13/16	37 15/16 x37 15/16 x12 13/16	37 15/16 x37 15/16 x12 13/16
	Net Weight / Gross Weight		Lbs.	49.6 / 63.9	58.4 / 75	58.4 / 75	58.4 / 75	58.4 / 75
Panel	Dimensions (WxDxH)	Outline	In.	37 2/5x37 2/5x2 3/5	37 2/5x37 2/5x2 3/5	37 2/5x37 2/5x2 3/5	37 2/5x37 2/5x2 3/5	37 2/5x37 2/5x2 3/5
		Package	In.	40 5/9x40 3/4x4 2/3	40 5/9x40 3/4x4 2/3	40 5/9x40 3/4x4 2/3	40 5/9x40 3/4x4 2/3	40 5/9x40 3/4x4 2/3
	Net Weight / Gross Weight		Lbs.	50/64	58/75	58/75	58/75	58/75
Loading		40'HQ	Set	171	156	156	156	156

Model			TVRF-IE4WC 24KPH	TVRF-IE4WC 30KPH	TVRF-IE4WC 36KPH	TVRF-IE4WC 42KPH	TVRF-IE4WC 48KPH	
Capacity	Cooling	Btu/h	24,000	30,000	36,000	42,000	48,000	
	Heating	Btu/h	27,000	34,000	40,000	47,000	54,000	
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	
Power Consumption		W	59	98	110	110	110	
Air flow volume		m3/h	1,180/950/850	1,500/1,350/1,100	1,700/1,400/1,100	1,860/1,500/1150	1,860/1,500/1,150	
		CFM	695/560/550	885/795/650	1,000/825/650	1,095/880/675	1,095/880/675	
Rated Current	Cooling	A	/	/	/	/	/	
	Heating	A	0.5	0.8	0.9	0.9	0.9	
Sound Pressure Level (H/M/L)		dB (A)	38/36/33	40/38/35	41/38/36	43/41/38	43/41/38	
Connecting Pipe Diameter	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	
Drain Pipe	External Dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1	
	Thickness	In.	3/32	3/32	3/32	3/32	3/32	
Main Body	Dimensions (WxDxH)	Outline	In.	33 x 33 x 9-1/2	33 x 33 x 12-5/8	33 x 33 x 12-5/8	33 x 33 x 12-5/8	33 x 33 x 12-5/8
		Package	In.	37 15/16 x 37 15/16 x 12 13/16	37 15/16 x 37 15/16 x 16 1/8	37 15/16 x 37 15/16 x 16 1/8	37 15/16 x 37 15/16 x 16 1/8	37 15/16 x 37 15/16 x 16 1/8
	Net Weight / Gross Weight		Lbs.	58/75	72/88	72/88	72/88	72/88
Panel	Dimensions (WxDxH)	Outline	In.	37 3/8 x 37 3/8 x 2 1/2	37 3/8 x 37 3/8 x 2 1/2	37 3/8 x 37 3/8 x 2 1/2	37 3/8 x 37 3/8 x 2 1/2	37 3/8 x 37 3/8 x 2 1/2
		Package	In.	40 11/16 x 40 7/8 x 5 1/4	40 11/16 x 40 7/8 x 5 1/4	40 11/16 x 40 7/8 x 5 1/4	40 11/16 x 40 7/8 x 5 1/4	40 11/16 x 40 7/8 x 5 1/4
	Net Weight / Gross Weight		Lbs.	15/24	15/24	15/24	15/24	15/24
Loading	40'HQ	Set	156	119	119	119	119	

Indoor Unit **Floor Ceiling**



Model			TVRF-IEFC 09KHP	TVRF-IEFC 12KHP	TVRF-IEFC 18KHP	TVRF-IEFC 24KHP
Capacity	Cooling	Btu/h	9,500	12,000	18,000	24,000
	Heating	Btu/h	10,500	13,500	20,000	27,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	40	40	50	75
Air flow volume		m3/h	650/585/520	650/585/520	950/865/699	1400/1150/1085
		CFM	380/345/305	380/345/305	560/510/410	825/675/640
Rated Current	Cooling	A	0.5	0.5	0.5	0.55
	Heating	A	0.5	0.5	0.5	0.55
Sound Pressure Level (H/M/L)		dB (A)	36/34/32	36/34/32	42/38/33	44/42/39
Piping Connection	Liquid	In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ5/8	Φ5/8
Drain Pipe	External Dia.	In.	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16
Dimensions (WxDxH)	Outline	In.	48 x 27 9/16 x 8 7/8	48 x 27 9/16 x 8 7/8	48 x 27 9/16 x 8 7/8	56 x 27 9/16 x 9 5/8
	Package	In.	52 1/2 x 32 3/8 x 12 3/8	52 1/2 x 32 3/8 x 12 3/8	52 1/2 x 32 3/8 x 12 3/8	60 15/16 x 32 5/8 x 13 9/16
Net Weight / Gross Weight		Lbs.	88/108	88/108	88/108	110/128
Loading	40'HQ	Set	158	158	158	98

Model			TVRF-IEFC 30KHP	TVRF-IEFC 36KHP	TVRF-IEFC 42KHP	TVRF-IEFC 48KHP
Capacity	Cooling	Btu/h	30,000	36,000	42,000	48,000
	Heating	Btu/h	33,000	40,000	47,000	54,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	140	160	160	160
Air flow volume		m3/h	1600/1445/1183	2000/1600/1282	2000/1813/1452	2000/1813/1452
		CFM	940/850/695	1180/905/695	1180/1065/855	1180/1065/855
Rated Current	Cooling	A	0.6	0.7	0.7	0.7
	Heating	A	0.6	0.7	0.7	0.7
Sound Pressure Level (H/M/L)		dB (A)	50/47/43	51/47/42	52/49/45	52/49/45
Piping Connection	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain Pipe	External Dia.	In.	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16
Dimensions (WxDxH)	Outline	In.	56 x 27 9/16 x 9 5/8	66 15/16 x 27 9/16 x 9 5/8	66 15/16 x 27 9/16 x 9 5/8	66 15/16 x 27 9/16 x 9 5/8
	Package	In.	60 15/16 x 32 5/8 x 13 9/16	71 15/16 x 32 5/8 x 13 9/16	71 15/16 x 32 5/8 x 13 9/16	71 15/16 x 32 5/8 x 13 9/16
Net Weight / Gross Weight		Lbs.	110/128	132/150	132/150	132/150
Loading	40'HQ	Set	98	98	98	98

Indoor Unit **Fresh Air Processing**

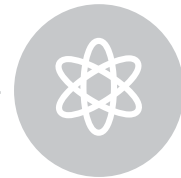


Model			TVRF-IEVFAH 72KHP	TVRF-IEVFAH 96KHP
Capacity	Cooling	Btu/h	72,000	96,000
	Heating	Btu/h	55,000	68,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	760	860
Air flow volume		m3/h	2,000/2,000~3,500	2,500/2,000~3,500
		CFM	1,177/1,177~2,060	1,471/1,177~2,060
Rated Current	Cooling	A	4.3	4.9
	Heating	A	4.3	4.9
ESP		Pa	205/50~270	205/50~280
Sound Pressure Level (H/M/L)		dB (A)	50	51
Piping Connection	Liquid	In.	Φ3/8	Φ3/8
	Gas	In.	Φ3/4	Φ3/4
Drain Pipe	External Dia.	In.	1-3/16	1-3/16
	Thickness	In.	1/16	1/16
Dimensions (WxDxH)	Outline	In.	58-3/8x31-1/8x15-1/8	58-3/8x31-1/8x15-1/8
	Package	In.	62-1/8x34-3/4x18-5/8	62-1/8x34-3/4x18-5/8
Net Weight / Gross Weight		Lbs.	181/229	181/229
Loading	40'HQ	Set	65	65

CONTROL SYSTEM

MORE INTELLIGENT CONTROL

- **Smart Selection Software & Intelligent Debugging Software**
- **Multiple Intelligent Remote Control Management**
- **Energy Saving**
- **Wired Controller and Wireless Remote Controller**
- **Smart Zone Controller and Central Controller**
- **BACnet Gateway & Modbus Gateway**



Smart Selection software

- User friendly interface
- Automatic calculation of ODU and Y connectors
- System validation to eliminate errors
- Flexible settings for optimal project design
- Optional controller configuration and wiring diagram

Intelligent Debugging Software

- Advanced monitoring functions of all the units
- Multiple control functions
- Automatic data saving
- USB data converter



Multiple Intelligent Remote Control Management

T-VRF provides multiple intelligent controls in order to satisfy all demands. It can control both a room and a building at the same time

• EVERYDAY MANAGEMENT

Setting for daily operation
Everyday Management at different locations

• AUTHORITY MANAGEMENT

Management designates which users can control power on/off.
Management can limit which users can adjust temperature settings.
Management can limit which users can have control over mode selection.

• STATISTICS ANALYSIS

Recording Statistics: System can self generate graphs of statistics.
Recording Errors: System can show the information of errors in charts and send notifications of errors through emails.
Recording Operation: System can record users' daily operation.

• CALCULATING COST OF ELECTRICITY

Auto calculation according to users.
According to the operating time, modes, flow of refrigerant, humidity and other factors, system can calculate the cost of electricity for users in different locations. Detailed information of bills and operation can be provided.



WIRED CONTROLLER WIRELESS REMOTE CONTROLLER

There are two kinds of controllers: wired controller and remote controller. The system provides various controls for users, such as cooling, heating, dehumidifying and fan etc. Users can select it flexibility according to their own using methods.

For more details about each controller you can check the right page and next.



ENERGY SAVING

Limits on electricity

- Analysis on the cost of electricity
- Set the maximum cost of electricity and unit will be operating in limited conditions when the maximum number is reached.
- System can remind users the cost of electricity during operation and give suggestions on energy saving.

Economy Mode

- Choose economy mode for system to operate at maximum efficiency

WIRELESS REMOTE CONTROLLER



TVRF-YV1L1

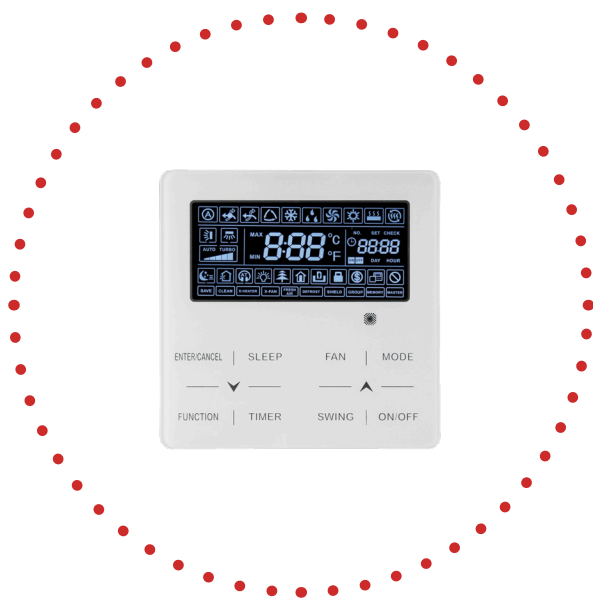
- Back lighting LCD.
- Can be switched in auto, cooling, dehumidifying, fan, heating, floor heating, 3D heating and space heating operation modes.
- 7 levels of fan speed, up & down swing and left & right swing.
- Available functions: child lock, energy saving, drying, health, ventilation, quiet/auto quiet, sleep, light, absence, low-temperature dehumidifying, I-feel and timer.
- With clock display, system parameters viewing and setting functions.



TVRF-YAP1F

- Can be switched in auto, cooling, dehumidifying, fan and heating operation modes.
- Besides turbo, 6 levels of fan speed can be set.
- Available functions: child lock, drying, health, ventilation, turbo, sleep, light, absence, I-feel and timer.
- Up & down swing and left & right swing.

WIRED CONTROLLER



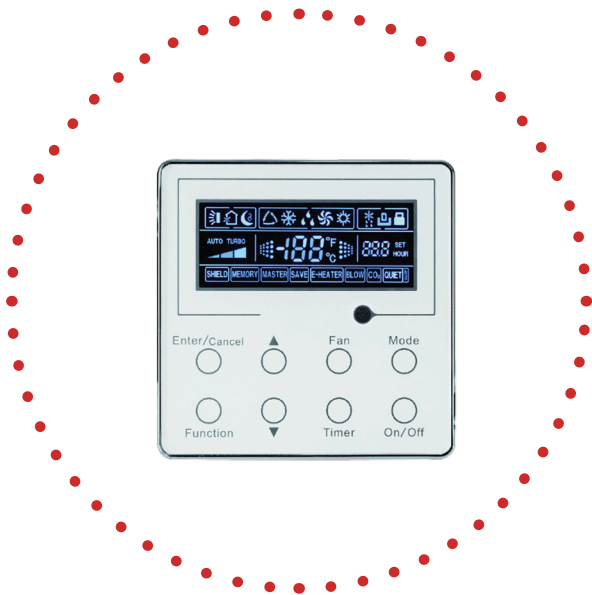
TVRF-XK46

- LCD with black background and white words, touch buttons.
- Clock can be displayed and set. 24 hours timer. Setting for on/off timer.
- 7 levels of fan speed, up & down swing and left & right swing.
- Can be switched in auto, cooling, dehumidifying, fan, heating, floor heating, 3D heating and space heating operation modes.
- Master and slave wired controllers can be set. Simultaneous control over several IDUs is available.
- Available functions: sleep, ventilation, quiet/ auto quiet, light, energy saving, auxiliary heating, drying, memory, low-temperature dehumidifying, absence in heating, controllable auxiliary heating in dehumidifying, filter cleaning reminder, etc.
- Detect ambient temperature. Receive infrared remote controller signal.
- With project parameters viewing and setting functions.



TVRF-XK49 (for hotel)

- With simplified functions, mechanical buttons, back lighting LCD and convenient operation.
- Can be switched in auto, cooling, dehumidifying, fan and heating operation modes.
- Master and slave wired controllers can be set. Simultaneous control over several IDUs is available.
- Detect ambient temperature. Receive infrared remote controller signal.
- With project parameters viewing and setting functions.
- 7 levels of fan speed, up & down swing.
- Door control system can be connected.



TVRF-XK79

- Compact and stylish look in 12 mm thick, backlit LCD displaying white on black.
- 8 touch buttons.
- Designed with clock display and clock setting, including countdown and timer.
- Apart from general functions, drying under low temperature, heating during absence, controllable drying with E-heating and filter cleaning reminder can be set.
- Access control system can be connected to control air conditioner On/Off through access card.



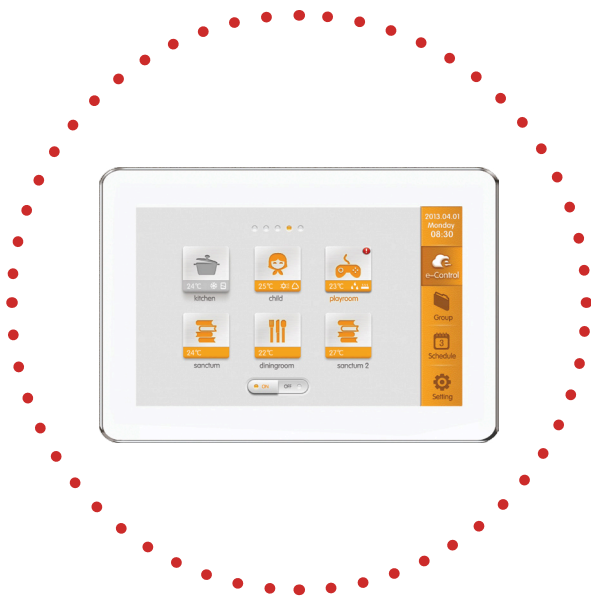
TVRF-XK55

- Elegant appearance.
- High-resolution color LCD.
- Capacitive touch control; receive infrared remote controller signal.
- Various timing functions: three weekly timers and one countdown timer can be set simultaneously; mode, temperature and fan speed can be preset in weekly timer.
- Various personalized functions, e.g. setting brightness and backlight time.
- Sufficient viewing functions, e.g. viewing on/off status and after-sales service hot line.

CENTRALIZED CONTROLLER SMART ZONE CONTROLLER



- 1280*800 high-resolution color LCD.
- 7" capacitive touch screen for easy operation.
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.).



- 1280*800 high-resolution color LCD.
- 7" capacitive touch screen for easy operation.
- With project setting, parameter viewing, malfunction record and access management functions.

TVRF-TSCC/255

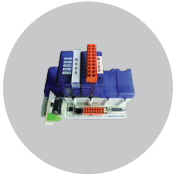
- With various functions: centralized control (control all indoor units), group management (support DIY grouping), schedule management (setting of several schedules) and single unit control (on/off, mode, temp setting, fan speed, quiet, swing control, etc.).
- Provide naming of indoor units, selection of icons and personalized settings (setting background, backlight, etc).
- Up to 32 units can be centrally controlled.
- Elegant and fashionable appearance.
- Embedded installation in wall with projecting thickness only of 11 mm.
- Connectable with network of indoor units or outdoor units.
- Independent power supply in 110-240V wide voltage range.
- With project setting , parameter viewing, malfunction record and access management functions.

TVRF-TSCC/32

- With various functions: centralized control (control all indoor units), group management (support DIY grouping), schedule management (setting of several schedules) and single unit control (on/off, mode, temp setting, fan speed, quiet, swing control, etc.).
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.)
- Provide naming of indoor units, selection of icons and personalized settings(setting background, backlight, etc).
- Up to 255 units can be centrally controlled.
- Elegant and fashionable appearance.
- Embedded installation in wall with projecting thickness only of 11 mm.
- Connectable with network of indoor units or outdoor units.
- Independent power supply in 110-240V wide voltage range.

BACnet Gateway

BACnet gateway kits TVRF30-24/D2(B) are intended to realize the data exchange between the air conditioning unit and BAS, and providing the standard BACnet/IP building interface and 8 I/O interfaces, one of which is the fire alarm signal interface. The status of the other 7 I/O interfaces is mapped to the specific objects of the BACnet/IP bus and can be defined by the user.




Modbus Gateway

Modbus Gateway provides TVRF system with the Modbus protocol interface when connecting to the Building Management System (BMS) in order to achieve central control and remote control over TVRF system by BMS.



• **Control System Line Up** ● Standard ○ Optional

Controlling system		Product series	CASSETTE TYPE	DUCT TYPE (Low&High ESP)	WALL MOUNTED TYPE	CONSOLE TYPE	FLOORCEILING TYPE	FRESH AIR PROCESSING
Wireless Controller	TVRF-YAP1F		●	○	●	●	●	○
	TVRF-YV1L1		○	○	○	○	○	○
Wired Controller	TVRF-XK46		○	●	○	○	○	●
	TVRF-XK49		○	○	○	○	○	○
	TVRF-XK79		○	○	○	○	○	○
	TVRF-XK55		○	○	○	○	○	○
Centralized Controller	TVRF-TSCC/255		○	○	○	○	○	○
Smart Zone Controller	TVRF-TSCC/32		○	○	○	○	○	○
Long-Distance Monitoring Software	TVRF-LDMS		○	○	○	○	○	○
BMS Accessories	Communication Module (Modbus)	TVRF-ME30-24/E4(M)		○	○	○	○	○
	BACnet Gateway	TVRF-MG30-24/D2(B)		○	○	○	○	○



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