

HEAT RECOVERY / ULTRA HEAT RECOVERY

MINI VRF / MINI VRF ULTRA HEAT



VRF CATALOG

Variable Refrigerant Flow Solutions

WHY CHOOSE T-VRF IN AMERICA?

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: 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.

Local Representation: We decided to go to market with

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.



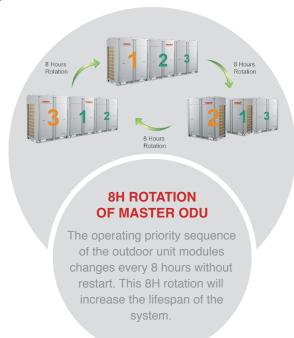
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Want to know more about us and our products? Visit our website tosothvac.com

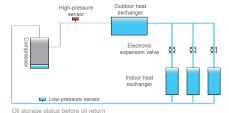
T-VRF HEAT PUMP T-VRF HEAT RECOVERY T-VRF ULTRA HEAT RECOVERY ADVANCED TECHNOLOGY

- Modules Rotating Operation
- Emergency Operation
- Improved Oil Return Control



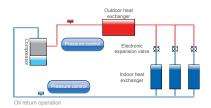
IMPROVED OIL RETURN CONTROL

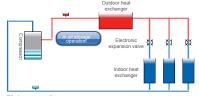
Tosot new oil return control technology effectively controls the system oil return and oil storage of each compressor, which greatly improves the lifespan of the compressors.



Specialized Compressor Oil Storage Control

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





EMERGENCY OPERATION FUNCTION

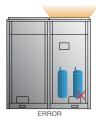
Emergency Function

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



Emergency Compressor Operation

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



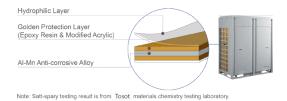
Emergency Fan Operation

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



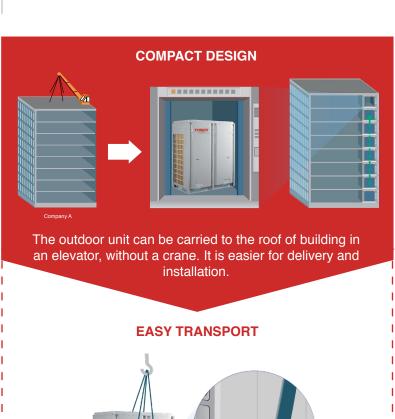
HIGHLY ANTICORROSIVE GOLDEN FINS

The primary material of the Golden Fin is Al-Mn (Alumium-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*.



EASY INSTALLATION EASY MAINTENANCE

- Compact Design
- Easy Transportation
- Easy Maintenance





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

TRANSPORTABLE BY FORKLIFT



FIVE-WAY PIPING CONNECTIONS

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

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

EASY MAINTENANCE



The inspection window allows a quick overview of the system's operation status. No need to open the panel to look. This is time-saving and easier for maintenance.

ERROR DISPLAY & SELF-DIAGNOSTIC FUNCTION

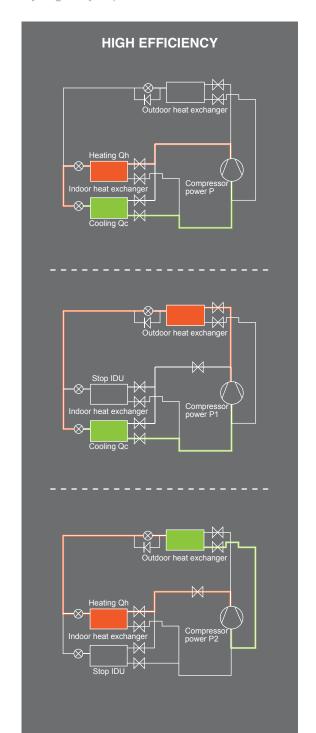


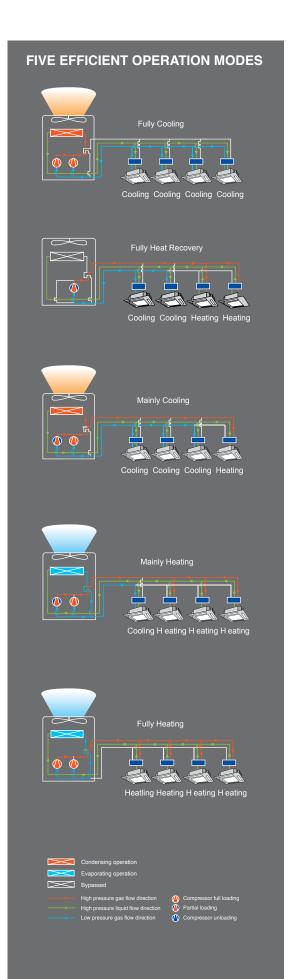
Through LED display (different combinations of ON, OFF, or BLINK) on the main board, the malfunction can be diagnosed.

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.





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)			
100 100 100 100 100 100 100 100 100 100	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

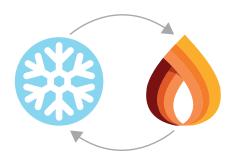
Models	Outdoor Un	nit	TVRF-OC72KHP/220V	TVRF-OC96KHP/220V	TVRF-OC120KHP/220V		
Capaci	ty	Ton	6	8	10		
0	Cooling	Btu/h	69,000	92,000	114,000		
Capacity	Heating	Btu/h	77,000	103,000	129,000		
Power Su	pply	V/Ph/Hz	208/230V~3~60Hz	208/230V~3~60Hz	208/230V~3~60Hz		
EER - IEER (Ducted/Non-D	ucted)	13.7/13.7 - 21.5/28.1	13.2/13.2 - 20/20.26	12.4/12.4 - 23.3/25.2		
High COP 47°F	- (Ducted/Non-	-Ducted)	4.22 / 4.22	4.15 / 4.15 3.95 / 3.95			
MOCF	•	Α	45	70	100		
Rated Current A		Α	30	45	74		
Maximum drive	Maximum drive IDU NO. unit		13	16	19		
Refrigerant Char	ge Volume	Oz	229.3 398.7		416.3		
Airflow	ı	CFM	6,079	8,239	8,239		
Sound Pressu	re Level	dB(A)	60	61	63		
	Liquid	inch	Ф3/8	Ф3/8	Φ1/2		
Piping connection	Gas	inch	Ф3/4	Φ7/8	Ф1-1/8		
	Oil balance	inch	Ф3/8	Ф3/8	Ф3/8		
Dimensions WxHxD			52-3/4 x 63-1/4 x 30-1/8	52-3/4 x 63-1/4 x 30-1/8			
Net/Gross V	Veight	Lbs	496/518	662/694	794/827		
Loading Quantity	40'HQ	set	24	16	16		

Specifications of Outdoor Unit Combinations

	Dawer County	Сар	acity	Dimensions (MuDull)	Aintlan	ESP	
Model	Power Supply -	Cooling	Heating	Dimensions (WxDxH)	Airflow	ESP	
	V/Ph/Hz	Btu/h	Btu/h	ln.	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	0.33	
TVRF-OC96 KHP/220V	208/230V~3~60Hz	92,000	103,000	52-3/4*30-1/8*63-1/5	8,230	0.33	
TVRF-OC120 KHP/220V	208/230V~3~60Hz	114,000	129,000	52-3/4*30-1/8*63-1/5	8,230	0.33	
TVRF-OC144 KHP/220V	208/230V~3~60Hz	138,000	154,000	(36-3/5*30-1/8*63-1/5) ×2	6,080 x 2	0.33	
TVRF-OC168 KHP/220V	208/230V~3~60Hz	161,000	180,000	(36-3/5*30-1/8*63-1/5)+ (52-3/4*30-1/8*63-1/5)	6,080 + 8,230	0.33	
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	0.33	
TVRF-OC216 KHP/220V	208/230V~3~60Hz	206,000	232,000	(52-3/4*30-1/8*63-1/5) x2	8,230 x 2	0.33	
TVRF-OC240 KHP/220V	208/230V~3~60Hz	228,000	258,000	(52-3/4*30-1/8*63-1/5) x2	8,230 x 2	0.33	
TVRF-OC264 KHP/220V	208/230V~3~60Hz	253,000	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	0.33	
TVRF-OC288 KHP/220V	208/230V~3~60Hz	276,000	309,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.33	
TVRF-OC312 KHP/220V	208/230V~3~60Hz	298,000	335,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.33	
TVRF-OC336 KHP/220V	208/230V~3~60Hz	320,000	361,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.33	
TVRF-OC360 KHP/220V	208/230V~3~60Hz	342,000	387,000	(52-3/4*30-1/8*63-1/5) x3	8,230 x 3	0.33	

T-VRF HEAT RECOVERY T-VRF ULTRA HEAT RECOVERY

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





Specifications of T-VRF Heat Recovery and T-VRF Ultra Heat Recovery

Models	S Outdoor Uni	t	TVRF- SHC72K/220V	TVRF- SHC72KUH/220V	TVRF- SHC96K/220V	TVRF- SHC96KUH/220V	TVRF- SHC120K/220V
Capac	ity	Ton	6	6	8	8	10
	Cooling	Btu/h	72,000	72,000	96,000	96,000	120,000
Capacity	Heating	Btu/h	81,000	81,000	108,000	108,000	135,000
Power Su	Power Supply V/Ph/Hz			208/230V~3~60Hz	208/230V~3~60Hz	208/230V~3~60Hz	208/230V~3~60Hz
EER - IEER	(Ducted/Non-Du	cted)	12/12 - 21.5/25	13.6/13.8 - 23/23	11.2/11.2 - 20.5/23.5	13.31/13.6 - 21/21	11/11 - 19/21
High COP 47°	F (Ducted/Non-D	Oucted)	3.5 / 3.5	3.65 / 3.55	3.5 / 3.5	3.6 / 3.5	3.3 / 3.3
MOCE	P	А	50	60	60	70	80
Rated Cu	rrent	Α	35	40	39	45	62
Maximum drive	Maximum drive IDU NO.		12	15	16	20	20
Refrigerant Cha	rge Volume	Oz	336	387.2	384	464	416
Airflov	N	CFM	8,240	8,240	8,240	8,240	8,240
Sound Pressu	ure Level	dB(A)	61	61	62	62	63
Operating Ambient	Cooling	°F	23 ~ 125.6	14 ~ 126	23 ~ 125.6	14 ~ 126	23 ~ 125.6
Temperature Range	Heating	°F	-4 ~ 75.2	-22 ~ 75	-4 ~ 75.2	-22 ~ 75	-4 ~ 75.2
	Liquid	inch	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Φ1/2
Piping connection	Gas (Low pressure)	inch	Ф3/4	Φ7/8	Φ7/8	Φ7/8	Ф1 1/8
	Gas (High pressure)	inch	Φ5/8	Ф3/4	Ф3/4	Ф3/4	Ф3/4
Dimensions WxHxD	Outline	inch	52-3/4x63-1/4x 30-1/8	52-3/4x63-1/4x 30-1/8	52-3/4x63-1/4x 30-1/8	52-3/4x63-1/4x 30-1/8	52-3/4x63-1/4x 30-1/8
Net/Gross \	Weight	Lbs	666/699	680/713	683/716	688/721	794/827
Loading Quantity	40'HQ	set	16	16	16	16	16

Specifications of Branch Box

			TVRF-SHCBU1T1	TVRF-SHCBU1T2	TVRF-SHCBU1T4	TVRF-SHCBU1T8						
Model					district.	A Comment						
Max IDU E	Branches	1	1	2	4	8						
No. Of connectable I	DU of each branch	1	8	8	8	8						
Total Conne	ctable IDU	1	8	16	32	64						
Max. Capacity of	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 S	er Supply V/Ph/Hz		Power Supply V/Ph/Hz		Power Supply V/Ph/Hz		Power Supply V/Ph/Hz		208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MOG	CP	Α	15	15	15	15						
	Liquid	in.	3/8	3/8	1/2	5/8						
Outdoor Unit Piping Connection	Gas Low Pressure	in.	7/8	7/8	1-1/8	1-1/8						
Gas High Pressure		in.	5/8	3/4	3/4	7/8						
Indoor Unit Piping	Liquid	uid in. 3/8		3/8	3/8	3/8						
Connection	Gas	in.	5/8	5/8	5/8	5/8						

Specifications of Outdoor Unit Combinations

	Dawes Commb	Сар	acity	Dimensions (MuDull)	A i well a	FOD
Model	Power Supply -	Cooling	Heating	Dimensions (WxDxH)	Airflow	ESP
	V/Ph/Hz	Btu/h	Btu/h	ln.	CFM	in.W.G
TVRF-SHC144K /220V	208/230V~3~60Hz	144,000	162,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.33
TVRF-SHC168K /220V	208/230V~3~60Hz	168,000	189,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.33
TVRF-SHC192K /220V	208/230V~3~60Hz	192,000	216,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.33
TVRF-SHC216K /220V	208/230V~3~60Hz	216,000	243,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.33
TVRF-SHC240K /220V	208/230V~3~60Hz	240,000	270,000	(52-3/4x30-1/8x63-1/5) x 2	8,240 x 2	0.33
TVRF-SHC264K /220V	208/230V~3~60Hz	264,000	297,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.33
TVRF-SHC288K /220V	208/230V~3~60Hz	280,000	324,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.33
TVRF-SHC312K /220V	208/230V~3~60Hz	312,000	351,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.33
TVRF-SHC336K /220V	208/230V~3~60Hz	336,000	378,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.33
TVRF-SHC360K /220V	208/230V~3~60Hz	360,000	405,000	(52-3/4x30-1/8x63-1/5) x 3	8,240 x 3	0.33

MINI T-VRF MINI T-VRF ULTRA HEAT

FEATURES

- Ultra Quiet
- Non-Commutative Oil Return Technology
- Intelligent Temperature Control
- Brushless DC Inverter Fan Motor



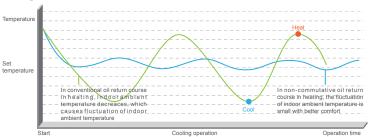
ULTRA HEAT

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.



INTELLIGENT TEMPERATURE CONTROL

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



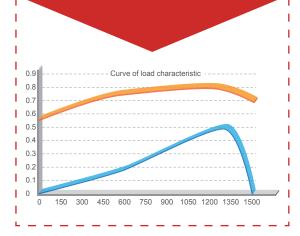
ULTRA QUIET OUTDOOR UNIT

The advanced sub-cooling control technology reduces the liquid flow noise of the indoor units in cooling mode.

The non-commutative oil return technology and optimization of the control logic diminishes the liquid flow noise of the indoor unit in the course of oil return when operating in heating mode.

BRUSHLESS 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.



MINI T-VRF MINI T-VRF ULTRA HEAT OUTDOOR UNIT

Specifications of MINI T-VRF

Models	Outdoor U	nit	TMVRF-OC36KHP	TMVRF-OC48KHP	TMVRF-OC60KHP	
Capacit	у	Ton	3	4	5	
Ozzasit.	Cooling	Btu/h	37,500	48,000	60,000	
Capacity	Heating	Btu/h	42,000	54,000	66,000	
SEER (Du	cted/Non-Du	cted)	16 / 16	16 / 16	16 / 16	
HSPF (Du	cted/Non-Dud	cted)	9/9	9/9	8.2 / 8.2	
MOCP A			50	60	70	
Rated Current		Α	32 37		42	
Power Sup	Power Supply V/P		208/230V~1~60Hz	208/230V~1~60Hz 208/230V~1~60Hz		
Maximum drive	IDU NO.	unit	5 7		9	
Airflow		CFM	3,531	3,708	4,590	
Refrigerant Char	ge Volume	Oz	176.4	176.4	229.3	
D	Liquid	inch	Ф 3/8	Ф 3/8	Ф 3/8	
Piping connection	Gas	inch	Ф 5/8	Φ 5/8	Φ 5/8	
Dimensions WxHxD Outline		inch	35-3/8 x 53 x 13-3/8	35-3/8 x 53 x 13-3/8	35-3/8 x 53 x 13-3/8	
Net/Gross W	/eight	Lbs	242.6 / 264.6	242.6 / 264.6	273.4 / 299.9	
Loading Quantity 40'HQ		set	60	60	57	





Specifications of MINI T-VRF ULTRA HEAT

Models (Outdoor Ur	nit	TMVRF-36KUH	TMVRF-48KUH
Capacity		Ton	3	4
Consoitu	Cooling	Btu/h	36,000	48,000
Capacity	Heating	Btu/h	45,000	54,000
SEER (Duc	ted/Non-Duc	ted)	16.5 / 20.5	16.5 / 20.5
HSPF (Duc	ted/Non-Duct	red)	10.3 / 11.7	10.2 / 11
MOCP		А	50	50
Rated Curre	ent	А	37	37
Power Supp	oly	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz
Maximum drive I	DU NO.	unit	5	7
Airflow		CFM	3,531	3,531
Operating Ambient	Cooling	°F	50 ~ 129	50 ~ 129
Temperature Range	Heating	°F	-22 ~ 81	-22 ~ 81
Sound Pressure	e Level	dB(A)	56	57
B	Liquid	inch	Ф3/8	Ф3/8
Piping connection	Gas	inch	Ф5/8	Ф5/8
Dimensions WxHxD	Outline	inch	35-3/8 x 53 x 13-3/8	35-3/8 x 53 x 13-3/8
Net/Gross We	eight	Lbs	296.4 / 320	296.4 / 320
Loading Quantity	40'HQ	set	57	57

T-VRF

INDOOR UNIT

- Air Handler
- AHU Kit
- Ultra High Static Pressure Duct
 2-Way Cassette
- High Static Pressure Duct Type
- Low Static Pressure Duct Type
- Wall Mounted

- Floor ceiling
- Console
- 4-Way Cassette
- Fresh Air Processing





Indoor Unit Line Up

MODEL	Specifications	7	9	12	14	15	18	22	24	30	36	42	48	54	72	96
Air Handler									•	•	•	•	•	•		
AHU Kit	0000															
Super High Static Pressure Duct Type		•	•	•		•	•	•	•	•	•	•	•	•		
High Static Pressure Duct Type							•		•	•	•	•	•		•	•
Low Static Pressure Duct Type		•	•	•	•		•	•								
Wall Mounted		•	•	•			•		•							
Floor Ceiling				•			•		•	•		•	•			
Console		•	•	•			•									
4-Way Cassette		•	•	•		•	•		•	•	•	•	•			
2-Way Cassette			•	•		•	•		•							
Fresh Air Processing															•	•

Air Handler



ı	MODEL		TVRF-IEVAH 24KHP	TVRF-IEVAH 30KHP	TVRF-IEVAH 36KHP	TVRF-IEVAH 42KHP	TVRF-IEVAH 48KHP	TVRF-IEVAH 54KHP
Cooling C	apacity	BTU/h	24,000	30,000	36,000	42,000	48,000	54,000
Heating C	apacity	BTU/h	27,000	34,000	40,000	47,000	54,000	60,000
Power S	upply	V/Ph/Hz	208/230~1Ph~60HZ	208/230~1Ph~60HZ	208/230~1Ph~60HZ	208/230~1Ph~60HZ	208/230~1Ph~60HZ	208/230~1Ph~60HZ
Airflow volu	me (L/H)	CFM	559 / 824	559 / 582	1,000 / 1,353	1,118 / 1,441	1,353 / 1,618	1,382 / 1,672
Rated	Cooling	Α	0.8	1.1	2.2	2.6	2.5	2.7
Current	Heating	Α	0.8	1.1	2.2	2.6	2.5	2.7
ESF)	Pa	25/0~50	37/0~50	37/0~70	37/0~70	50/0~80	50/0~80
Sound press (L/H		dB(A)	41 / 45	42 / 46	45 / 49	46 / 50	47 / 57	48 / 52
Piping	Liquid	ln.	Ф 3/8					
Connection	Connection Gas In.		Φ 5/8					
Dimensions	Dimensions (W*D*H)		18 1/2X21 1/4X43 1/2	18 1/2X21 1/4X43 1/2	21 1/4X21 1/4X48 1/4	21 1/4X21 1/4X48 1/4	24 7/8X21 1/4X48 1/4	24 7/8X21 1/4X48 1/4
Net weight/Gr	oss weight	Lbs	121.2/132.3	121.2/132.3	145.5/158.7	145.5/158.7	185.2/202.8	185.2/202.8





Indoor Unit

	Model			TVRF-AHU1T	TVRF-AHU2T	TVRF-AHU4T	TVRF-AHU8T	TVRF-AHU16T
Power Supply			208~230V-1ph-60Hz	208~230V-1ph-60Hz 208~230V-1ph-60Hz 208~230V-1ph-60Hz 208~		208~230V-1ph-60Hz	208~230V-1ph-60Hz	
Cooli	ng Capacit	у	Btu/h	12,000	24,000	47,770	95,540	191,080
Heati	Heating Capacity Btu/h		Btu/h	13,500	26,600 54,594 107,4		107,482	213,259
Dimensions	mensions Outline Box	Control Box	ln.	13-1/7×11-1/6×4-3/8	13-1/7×11-1/6×4-3/8	13-1/7×11-1/6×4-3/8	13-1/7×11-1/6×4-3/8	13-1/7×11-1/6×4-3/8
(W×HxD)			ln.	8×12-5/6×3-1/3	8×12-5/6×3-1/3	8×12-5/6×3-1/3	8×12-5/6×3-1/3	9-2/3×19-2/3×4-5/7
Net Weigh	t / Gross V	Veight	Lbs	19 / 25.4	19 / 25.4	19 / 25.4	19 / 25.4	26 / 34.2
Pipe	ripe		In.	Ф 3/8	Ф 3/8	Ф 3/8	Ф 3/8	Φ 5/8
Connections			In.	Φ 1/4	Φ 5/8	Φ 5/8	Φ 7/8	Ф 1 1/8

Super High Static Pressure Duct Type



N	lodel		TVRF-IES HESPD07KHP	TVRF-IES HESPD09KHP	TVRF-IES HESPD12KHP	TVRF-IES HESPD15KHP	TVRF-IES HESPD18KHP	TVRF-IES HESPD22KHP
Conneity	Cooling	Btu/h	7,500	9,500	12,000	15,000	18,000	22,000
Capacity	Heating	Btu/h	8,500	10,500	13,500	17,000	20,000	24,000
Power Sup	ply	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
Air Flow Volum	ie (L/H)	CFM	235/323	235/324	247/353	353/500	412/588	412/588
MOCP		Α	15	15	15	15	15	15
ESP		Inwg						
Sound Pressure L	evel (L/H)	dB (A)	31/35	31/35	32/36	34/40	35/42	35/42
Piping	Liquid	ln.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Ф3/8	Ф3/8
Connection	Gas	ln.	Ф3/8	Φ1/2	Φ1/2	Φ1/2	Ф5/8	Ф5/8
Drain Pip	e	ln.	Ф1	Ф1	Ф1	Ф1	Ф1	Ф1
Dimensions (WxHxD)	Outline	In.	27-1/2x11-3/4x27-1/2	27-1/2x11-3/4x27-1/2	39-3/8x11-3/4x27-1/2	39-3/8x11-3/4x27-1/2	39-3/8x11-3/4x27-1/2	39-3/8x11-3/4x27-1/2
Net Weig	ht	Lbs.	73	73	94	94	94	94
Loading 40'HQ		Set						

N	lodel		TVRF-IES HESPD24KHP	TVRF-IES HESPD30KHP	TVRF-IES HESPD36KHP	TVRF-IES HESPD42KHP	TVRF-IES HESPD48KHP	TVRF-IES HESPD54KHP
Cooling		Btu/h	24,000	30,000	36,000	42,000	48,000	54,000
Сарасіту	Heating	Btu/h	27,000	34,000	40,000	47,000	54,000	60,000
Power Sup	ply	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
Air Flow Volum	ie (L/H)	CFM	559/736	736/1,059	824/1,177	824/1,177	971/1,383	1,030/1,471
MOCP		Α	15	15	15	15	15	6
ESP		Inwg						
Sound Pressure L	evel (L/H)	dB (A)	35/43	38/44	40/45	40/45	41/46	42/47
Piping	Liquid	ln.	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8
Connection	Gas	ln.	Ф5/8	Ф5/8	Ф5/8	Φ5/8	Φ5/8	Ф3/4
Drain Pip	e	ln.	Ф1	Ф1	Ф1	Ф1	Ф1	Ф1
Dimensions (WxHxD)	Outline	ln.	39-3/8x11-3/4x27-1/2	55-1/8x11-3/4x27-1/2	55-1/8x11-3/4x27-1/2	55-1/8x11-3/4x27-1/2	55-1/8x11-3/4x27-1/2	55-1/8x11-3/4x27-1/2
Net Weig	Net Weight		94	121	121	121	121	121
Loading 40'HQ		Set						

High Static Pressure Duct Type





	Model		TVRF-IEHESP D18KHP	TVRF-IEHESP D24KHP	TVRF-IEHESP D30KHP	TVRF-IEHESP D36KHP	TVRF-IEHESP D42KHP	TVRF-IEHESP D48KHP	TVRF-IEHESP D72KHP	TVRF-IEHESP D96KHP
	Cooling	Btu/h	18,000	24,000	30,000	36,000	42,000	48,000	69,000	92,000
Capacity	Heating	Btu/h	20,000	27,000	34,000	40,000	47,000	54,000	77,000	103,000
Power S	upply	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	208/230V~1~60Hz	208/230V~1~60Hz
Air Flow Volu	ıme (L/H)	CFM	355/590	410/650	650/1,000	650/1,000	706/1,180	824/1,180	1,885/2,355	2,120/2,590
MOC	:P	Α	6	6	6	6	6	6	15	15
ESF	o	Inwg	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.6 - 0.8	0.6 - 0.8
Sound Press (L/H		dB (A)	36/44	37/45	42/46	42/46	42/48	44/48	49/54	50/55
Piping	Liquid	ln.	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8
Connection	Gas	ln.	Ф5/8	Ф5/8	Ф5/8	Ф5/8	Ф5/8	Ф5/8	Ф3/4	Ф7/8
Drain F	Pipe	ln.	Ф1	Ф1	Ф1	Ф1	Ф1	Ф1	Ф1 1/4	Ф1 1/4
Dimensions (WxHxD)	Outline	ln.	50x10-1/2x22	50x10-1/2x22	48-3/8x11-3/8x 30-1/2	48-3/8x11-3/8x 30-1/2	48-3/8x11-3/8x 30-1/2	48-3/8x11-3/8x 30-1/2	58-3/8x31 1/8x15-3/16	66 3/8x34 1/4x17 3/4
Net Weight Weig		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	181 / 229	231 / 309
Loading	40'HQ	Set	216	216	128	128	128	128	65	52

Low Static Pressure Duct Type



Model			TVRF-IELESP D07KHP	TVRF-IELESP D09KHP	TVRF-IELESP D12KHP	TVRF-IELESP D14KHP	TVRF-IELESP D18KHP	TVRF-IELESP D22KHP
	Cooling	Btu/h	7,500	9,500	12,000	14,000	18,000	22,000
Capacity	Heating	Btu/h	8,500	10,500	13,500	15,000	20,000	24,000
Power S	upply	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~1~60H
Air Flow Volu	ume (L/H)	CFM	150/265	150/265	205/325	265/410	355/590	355/590
MOC	P	А	6	6	6	6	6	6
ESF)	Inwg	0.1	0.1	0.1	0.1	0.1	0.1
Sound Pressure	e Level (L/H)	dB (A)	25/31	25/31	27/32	28/33	30/35	30/35
Piping	Liquid	In.	Ф1/4	Ф1/4	Ф1/4	Ф1/4	Ф3/8	Ф3/8
Connection	Gas	ln.	Ф3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8	Φ5/8
Drain F	Pipe	ln.	Ф1	Ф1	Ф1	Ф1	Ф1	Ф1
Dimensions (WxHxD)	Outline	In.	27-1/2x24-1/4x7-7/8	27-1/2x24-1/4x7-7/8	27-1/2x24-1/4x7-7/8	35-3/8x24-1/4x7-7/8	43-1/4x24-1/4x7-7/8	43-1/4x24-1/4x7-7
Net Weight / Gross Weight		Lbs.	51/69.3	51/69.3	51/69.3	60/72.8	69/86	69/86
Loading	40'HQ	Set	192	192	192	192	162	162

Wall Mounted



Indoor Unit

	Model		TVRF-IEWM07KHP	TVRF-IEWM09KHP	TVRF-IEWM12KHP	TVRF-IEWM18KHP	TVRF-IEWM24KHP
	Cooling	Btu/h	7,500	9,500	12,000	18,000	24,000
Capacity	Heating	Btu/h	8,500	11,000	13,500	20,000	25,500
Power S	Supply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Air Flow	/olume	CFM	295	295	370	370	440
MOC	P	А	15	15	15	15	15
Sound Pressur	e Level (L/H)	dB (A)	30/38	30/38	38/44	38/44	38/44
Piping	Liquid	ln.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Ф3/8
Connection	Gas	ln.	Ф3/8	Φ3/8	Φ1/2	Φ1/2	Ф5/8
Drain l	Pipe	ln.	Φ4/5	Φ4/5	Φ4/5	Φ4/5	Ф4/5
Dimensions (WxHxD)	Outline	ln.	33-1/4 x 10-7/8 x 7-1/8	33-1/4 x 10-7/8 x 7-1/8	37 x 11-3/4 x 7-7/8	37 x 11-3/4 x 7-7/8	39-5/8 x 8-3/4 x 12-1/2
Net Weight / G	ross Weight	Lbs.	22/27.5	22/27.5	27.5/33.1	27.5/33.1	33/40.8
Loading	40'HQ	Set	819	819	624	624	503

Console



	Model		TVRF-IECS07KHP	TVRF-IECS09KHP	TVRF-IECS12KHP	TVRF-IECS18KHP
	Cooling	Btu/h	7,500	9,500	12,000	18,000
Capacity	Heating	Btu/h	8,500	11,000	13,500	20,000
Power S	Supply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Air Flow \	/olume	CFM	235	235	282	400
МОС	P	Α	15	15	15	15
Sound Press	sure Level	dB (A)	38	38	40	46
Piping	Liquid	ln.	Ф1/4	Ф1/4	Ф1/4	Φ1/4
Connection	Gas	ln.	Ф3/8	Ф3/8	Ф3/8	Φ1/2
Drain Pipe	External Dia.	ln.	Ф1-1/9	Ф1-1/9	Ф1-1/9	Ф1-1/9
Dimensions (WxHxD)	Outline	ln.	27-1/2 x 23-5/8 x 8-1/2			
Net Weight / G	ross 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	460

Floor Ceiling



Indoor Unit

	Model		TVRF-IEFC 09KHP	TVRF-IEFC 12KHP	TVRF-IEFC 18KHP	TVRF-IEFC 24KHP	TVRF-IEFC 30KHP	TVRF-IEFC 36KHP	TVRF-IEFC 42KHP	TVRF-IEFC 48KHP
O a manita i	Cooling	Btu/h	9,500	12,000	18,000	24,000	30,000	36,000	42,000	48,000
Capacity	Heating	Btu/h	10,500	13,500	20,000	27,000	33,000	40,000	47,000	54,000
Power Sup	oply	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	208/230V 1~60Hz	208/230V 1~60Hz
Air Flow Volun	ne (L/H)	CFM	305/380	305/380	410/560	640/825	685/940	755/1,180	855/1,180	855/1,180
MOCP		А	15	15	15	15	15	15	15	15
Sound Pressure	Level (L/H)	dB (A)	32/36	32/36	33/42	39/44	43/50	42/51	45/52	45/52
Dining Connection	Liquid	In.	Φ1/4	Φ1/4	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8
Piping Connection	Gas	In.	Ф3/8	Φ1/2	Φ5/8	Ф5/8	Ф5/8	Ф5/8	Ф5/8	Ф5/8
Drain Pi	ре	In.	Ф11/16	Ф11/16	Ф11/16	Ф11/16	Ф11/16	Ф11/16	Ф11/16	Ф11/16
Dimensions (WxHxD)	Outline	In.	48 x 27-1/2 x 8-7/8	48 x 27-1/2 x 8-7/8	48 x 27-1/2 x 8-7/8	55-7/8 x 27-1/2 x 9-5/8	55-7/8 x 27-1/2 x 9-5/8	66-7/8 x 27-1/2 x 9-5/8	66-7/8 x 27-1/2 x 9-5/8	66-7/8 x 27-1/2 x 9-5/8
Net Weight / Gro	ss Weight	Lbs.	88/108	88/108	88/108	110/128	110/128	132/150	132/150	132/150
Loading	40'HQ	Set	158	158	158	98	98	98	98	98

4-Way Cassette



	N	lodel		TVRF-IE4WC07KHP	TVRF-IE4WC09KHP	TVRF-IE4WC12KHP	TVRF-IE4WC15KHP	TVRF-IE4WC18KHP
		Cooling	Btu/h	7,500	9,500	12,000	15,000	18,000
C	Capacity	Heating	Btu/h	8,500	10,500	13,500	17,000	20,000
	Power Sup	ply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
	Air Flow Volum	e (L/H)	CFM	325/440	440/590	440/590	440/590	440/590
	MOCP		А	15	15	15	15	15
So	ound Pressure L	evel (L/H)	dB (A)	31/36	32/37	32/37	32/37	32/37
5		Liquid	In.	Φ1/4	Ф1/4	Ф1/4	Ф1/4	Ф3/8
Piping	g Connection	Gas	In.	Ф3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8
_	· D.	External Dia.	In.	Ф1	Ф1	Ф1	Ф1	Φ1
D	rain Pipe	Thickness	In.	3/32	3/32	3/32	3/32	3/32
	Dimensions	Outline	In.	33-1/8 x 33-1/8 x 7-1/2	33-1/8 x 33-1/8 x 9-1/2			
Main Body	(WxHxD)	Grill Panel	In.	37-3/8 x 37-3/8 x 2-1/2				
	Net Weight /	Gross Weight	Lbs.	49.6/63.9	58.4/75	58.4/75	58.4/75	58.4/75
Panel	Net Weight /	Gross Weight	Lbs.	15/24	15/24	15/24	15/24	15/24
ı	Loading	40'HQ	Set	171	156	156	156	156

4-Way Cassette



Indoor Unit

	М	odel		TVRF-IE4WC24KHP	TVRF-IE4WC30KHP	TVRF-IE4WC36KHP	TVRF-IE4WC42KHP	TVRF-IE4WC48KHP
		Cooling	Btu/h	24,000	30,000	36,000	42,000	48,000
C	Capacity	Heating	Btu/h	27,000	34,000	40,000	47,000	54,000
	Power Sup	ply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
	Air Flow Volum	e (L/H)	CFM	470/695	650/885	650/1,000	680/1,095	680/1,095
	MOCP		А	15	15	15	15	15
So	ound Pressure L	evel (L/H)	dB (A)	33/38	35/40	36/41	38/43	38/43
Conr	necting Pipe	Liquid	In.	Ф3/8	Ф3/8	Ф3/8	Ф3/8	Ф3/8
	Diameter	Gas	In.	Φ5/8	Ф5/8	Ф5/8	Ф5/8	Ф5/8
	Drain Pip	е	ln.	Ф1	Ф1	Ф1	Ф1	Φ1
	Dimensions	Outline	In.	33-1/8 x 33-1/8 x 9-1/2	33-1/8 x 33-1/8 x 12-5/8			
Main Body	(WxHxD)	Grill Panel	ln.	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
	Net Weight /	Gross Weight	Lbs.	58/75	72/88	72/88	72/88	72/88
Panel	Net Weight /	Gross Weight	Lbs.	15/24	15/24	15/24	15/24	15/24
l	Loading	40'HQ	Set	156	119	119	119	119

2-Way Cassette



	M	lodel		TVRF-IE2WC09KHP	TVRF-IE2WC12KHP	TVRF-IE2WC15KHP	TVRF-IE2WC18KHP	TVRF-IE2WC24KHP
)it	Cooling	Btu/h	9,500	12,000	15,000	18,000	24,000
(Capacity	Heating	Btu/h	10,500	13,500	17,000	20,000	27,000
	Power Sup	ply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
	Air Flow Volum	e (L/H)	CFM	312/490	312/490	312/490	312/490	448/650
	MOCP		A	15	15	15	15	15
So	ound Pressure L	evel (L/H)	dB(A)	31/35	31/35	31/35	31/35	35/39
Dining	g Connection	Liquid	inch	Ф1/4	Ф1/4	Ф1/4	Φ3/8	Ф3/8
Piping	Connection	Gas	inch	Ф3/8	Φ1/2	Φ1/2	Φ5/8	Ф5/8
D	rain Pipe	External Dia.	inch	Φ1	Φ1	Φ1	Ф1	Φ1
	Dimensions	Outline	In.	47-1/4 x 20-1/2 x 13-2/5				
Main Body	(WxHxD)	Grill Panel	In.	56-3/4 x 24-13/16 x 1-1/4				
	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
	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
ı	Loading	40'HQ	Set	105	105	105	105	105

Fresh Air Processing



Indoor Unit

	Model		TVRF-IEVFAH72KHP	TVRF-IEVFAH96KHP	
0	Cooling	Btu/h	72,000	96,000	
Capacity	Heating	Btu/h	55,000	68,000	
Power S	upply	V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	
Air Flow Volu	ıme (L/H)	CFM	1,177 / 2,060	1,471 / 2,060	
МОС	:P	А	10	10	
ESF)	Inwg	1.09	1.09	
Sound Pressure	Level (H/M/L)	dB (A)	50	51	
Piping	Liquid	ln.	Ф3/8	Ф3/8	
Connection	Gas	ln.	Ф3/4	Ф3/4	
Drain F	Pipe	ln.	1-3/16	1-3/16	
Dimensions (WxDxH)	Outline	In.	58-3/8x31-1/8x15-1/8	58-3/8x31-1/8x15-1/8	
Net Weight / G	ross Weight	Lbs.	181/229	181/229	
Loading	Loading 40'HQ		65	65	

Pipe Y-Branch & T-Branch

Тур	e of Pipe	MODEL NUMBER	Description
	İ	TVRF-YC0/20KW	Y Branching Capacity 68,242 Btu and less
		TVRF-YC20/30KW	Y Branching Capacity 68,242 Btu to 102,364 Btu
V Duamah fau	T V/DE Heat Duran	TVRF-YC30/70KW	Y Branching Capacity 102,364 Btu to 238,850 Btu
Y Branch for	T-VRF Heat Pump	TVRF-YC70/135KW	Y Branching Capacity 238,850 Btu to 460,640 Btu
		TVRF-YC135/PKW	Y Branching Capacity 460,640 Btu and more
		TVRF-ML01/A	Connection Pipe between 2 Outdoor Units
		TVRF-YCHR0/5.6KW	Y Branching Capacity 0 Btu to 19,108 Btu
		TVRF-YCHR5.6/22KW	Y Branching Capacity 19,108 Btu to 75,067 Btu
		TVRF-YCHR22/30KW	Y Branching Capacity 75,067 Btu to 102,364 Btu
	Used for Mode Exchange	TVRF-YCHR30-68KW	Y Branching Capacity 102,364 Btu to 232,025 Btu
	Unit (3-pipe system)	TVRF-YCHR68/96KW	Y Branching Capacity 232,025 Btu to 327,566 Btu
Y Branch for T-VRF Heat Recovery		TVRF-YCHR96/135KW	Y Branching Capacity 327,566 Btu to 460,639 Btu
		TVRF-YCHR135/PKW	Y Branching Capacity 460,639 Btu and more
	Used for Indoor Units	TVRF-IHR0/14KW	Y Branching Capacity 0 Btu to 47,770 Btu
	Osed for indoor offics	TVRF-IHR14/28KW	Y Branching Capacity 47,770 Btu to 95,540 Btu
	Used for Outdoor Units	TVRF-ML01HR	Connection Pipe between two Outdoor Units Branching Capacity 171,972 Btu and less
		TVRF-TC0/40KW	Branching Capacity 136,486 Btu and less
T-type	Manifoid Pipe	TVRF-TC0/80KW	Branching Capacity 136,486 Btu to 272,971 Btu
		TVRF-TC80/PKW	Branching Capacity 272,971 Btu and more

CONTROL SYSTEMS

MORE INTELLIGENT

- Smart Selection Software & Debugging Software
- Long Distance Monitoring
- Energy Saving Management
- Wired Controller and Wireless Remote Controls
- Smart Zone Controller and Central Controller
- BACnet Gateway & Modbus Gateway



WIRED CONTROLLER WIRELESS REMOTE CONTROLLER

There are two kinds of controllers: wired controller and remote controller. The system offers various mode of operation for users, such as cooling, heating, dehumidifying, fan etc... Users can select mods according to their own using needs.

For more details about each controller, please refer to the following pages.



ENERGY SAVING

Limits on electricity

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

Economy Mode

 Select economy mode and the system will operate at maximum efficiency



Smart Selection software

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

Smart Debugging Software

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



Long Distance Monitoring

T-VRF provides long distance monitoring software in order to satisfy all demands. It can control both a room and a building at the same time

EVERYDAY MANAGEMENT

Setting for daily operations. 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 generate graphs and statistics based on usage. 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 cast of electricity for users in different locations. Detailed information of bills and operation can be provided.

WIRELESS REMOTE CONTROLLERS



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 CONTROLLERS



TVRF-XK46

- LCD with black background and white digits, 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.
- · Severals mode: auto, cooling, dehumidifying, fan, heating, floor heating etc.
- Master and slave wired control settings. 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.



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, controlable 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.

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.).

TOTAL STATE OF THE
- •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 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.
- 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 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.

BACnet Gateway



BACnet gateway kit TVRF30-24/D2(B) is intended to realize the data exchange between the air conditioning unit and the BMS. It provides standard BACnet/IP building interface. There are 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 specified objects of the BACnet/IP bus



Modbus Gateway

Modbus Gateway provides TVRF system with the Modbus protocol interface when connecting to the Building. There are 8 I/O interfaces, one of which is the fire alarm signal interface.

• Control System Line Up Standard Optional

Controlling system			Product series	CASSETTE TYPE	DUCT TYPE (All models)	WALL MOUTED TYPE	CONSOLE TYPE	FLOOR CEILING TYPE	FRESH AIR PROCESSING	AHU KIT	AIR HANDLER
Wireless	e Controller	TVRF-YAP1F		•	0	•			0		0
Wireless Controller		TVRF-YV1L1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	0	0	0		
Wired Controller		TVRF-XK46		0		0	0	0	•		•
		TVRF-XK79	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0	0		0
		TVRF-JS05	0 (S) 0 (S) 0 (S) 0 (S)		•						
Centralized Controller		TVRF-TSCC/255		0	0	0	0	0	0		0
Smart Zor	Smart Zone Controller			0	0	0	0	0	0		0
Long- Monitorii	Long-Distance Monitoring Software			0	0	0	0	0	0		0
Kit for Comisioning Software		TVRF-40-33/A©	B 25 4 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0	0	0	0	0	0		0
	Communication Module (Modbus)	TVRF-ME30-24/ E4(M)		0	0	0	0	0	0		0
BMS Accessories	BACnet Gateway	TVRF-MG30-24/ D2(B)		0	0	0	0	0	0		0
	Photoelectricity Insulation Convertor	TVRF-GD02		0	0	0	0	0	0		0



NOTE

WANT MORE INFORMATION?
We'll be there for you



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