



zenair.

F A N C O I L
U N I T S

technogen®

s m a r t s o l u t i o n s f o r H V A C

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Accessories

A baby is sleeping peacefully in a white wooden crib. The baby is wearing a white long-sleeved onesie with small dark dots. The crib has white vertical bars and a white sheet. The background is a light-colored wooden floor.

We feel your sensitivity for your precious ones.

Precise room temperature and air flow control with **technogen** zenair..

Fan coil Units

Zenair fan coil units provide precise control over temperature and indoor air quality.

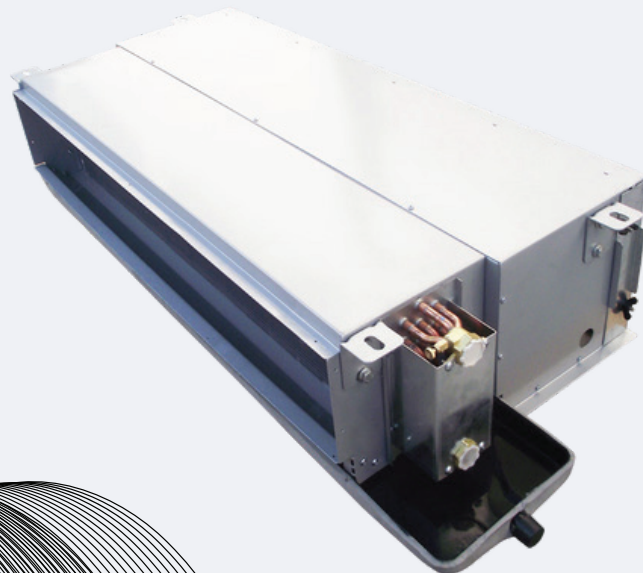
Technogen, a provider of smart solutions for your HVAC projects, continues to advance its most technologically advanced and innovative products.

We present the comfort you require through our Zenair fan coil units, offering precise control over indoor air quality and temperature. Furthermore, alongside ensuring this comfort, we also guarantee high energy efficiency and a sustainable system.

Key Technological Features

The Zenair fan coil units boast a minimalist and straightforward design, facilitating their seamless integration into various architectural projects while harmonizing with the overall design. They distinguish themselves with low noise levels, straightforward installation, and an aesthetically pleasing design that minimizes spatial footprint.

All capacity and electrical tests in the fan coil test and research laboratories have been conducted in compliance with EN1397, ANSI-ASHRAE79, ANSI-AHRI440, and ANSI-AMCA210 standards.



Why zenair fan coil units?

Technogen zenair fan coil units come in five different models: water cassette (4-way), floor type (with or without cassette), ceiling concealed type, high pressure type, and wall type.

The intended usage of the Technogen zenair fan coil is to deliver quality air conditioning with low energy consumption while maintaining comfort conditions.

Fan coils usually take place near living areas due to their widespread use. As a result, fancoil sound levels are very critical, as is sound insulation. Regarding this, Technogen zenair fan coil units are specifically engineered to meet these high quality comfort standards.

- Precise control over indoor air quality and temperature,
- Low energy consumption
- Fast and easy installation
- Wide range of high quality accessories
- Wide service
- High quality components
- Wide range of units and models
- 2 and 4 pipe alternatives for each model
- Quick delivery from stock
- Quality certificates



Experience the comfort of acquiring actual capacity.

Technogen zenair Fan Coil Units are tested at the Performance Test Laboratory and Research Center. This offers our customers and business partners the chance to mitigate all risks during startup, assess unit performance under real operating conditions beforehand, and push the limits of units under demanding circumstances.



Rest assured, it is the right capacity!



Verify unit limits under extreme operating conditions.

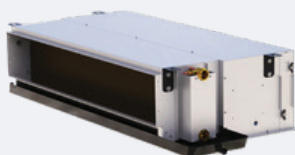


Minimize the risks for your projects.

Technical specifications

The product key of technogen zenair fan coil units

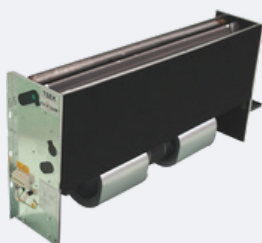
Series	Type	Version	Model	Connection
TF	PVA	2A: 2-Pipe Up to 60 Pa ESP 4A: 4- Pipe Up to 60 Pa ESP 2M: 2-Pipe with EC Motor Up to 70 Pa ESP 4M: 4-Pipe with EC Motor Up to 70 Pa ESP	015-110	L: Left Connection R: Right Connection
	PCA :	2C: 2-Pipe 4C: 4-Pipe 2E: 2-Pipe with EC Motor 4E: 4-Pipe with EC Motor		
	XVA			
	XCA-F XCA-W			



TF-PVA
Ceiling concealed type
rear inlet and front supply



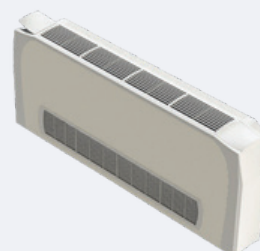
TF-PCA
Cabinet ceiling type,
bottom inlet and front supply



TF-XVA
Floor type without cabinet
bottom inlet and top supply



TF-XCA-F
Cabinet floor type, bottom
inlet and top supply
(Feet are optional)



TF-XCA-W
Cabinet floor type
front inlet and top supply

Cooling Capacity 1,36 kW-15,55 kW



Heating Capacity 3,95 kW-39,36 kW



STRUCTURAL FEATURES

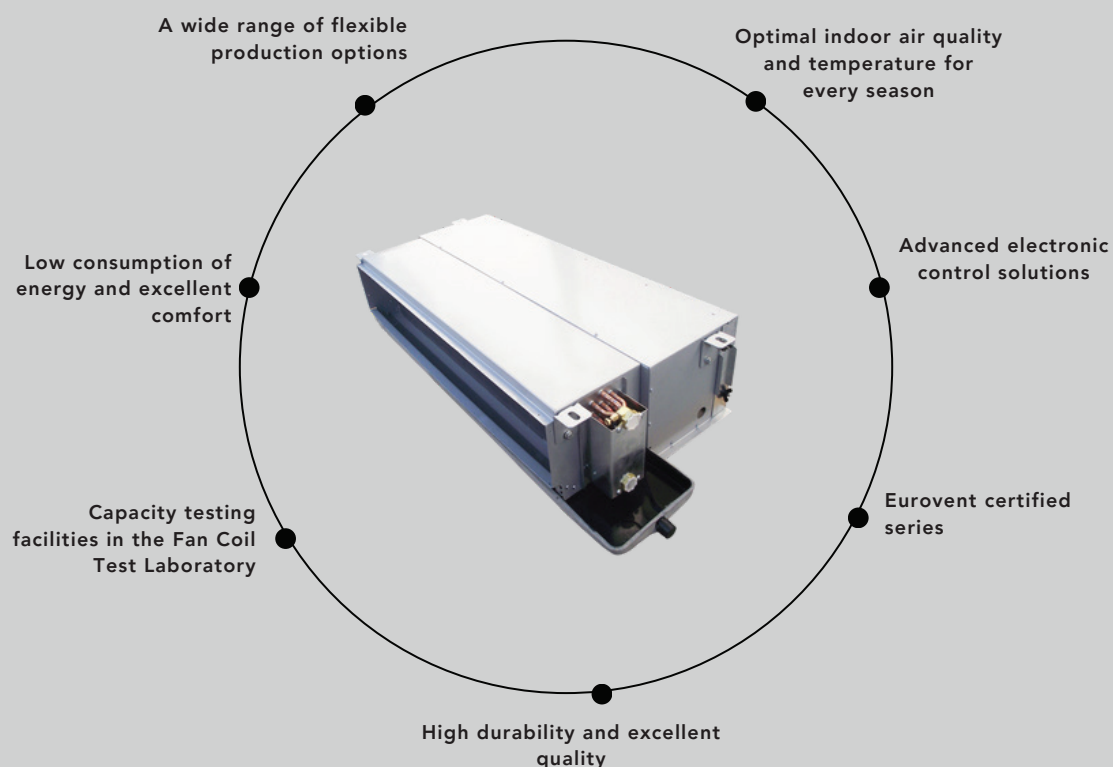
- Produces from corrosion-resistant galvanized sheet with a high zinc ratio.
- Equipped with high-energy-efficient radial fans that operate silently, available in either 230V-1ph-50Hz configuration or Electronically Commutated BLDC Motor.
- Mesh filters ensure easy access for maintenance and cleaning purposes.
- Electrical connections facilitated through specially designed waterproof terminal boxes.
- Coils are constructed from highly efficient seamless copper pipes and aluminum fins, each rigorously tested at 20 bar pressure before factory installation.
- Incorporation of a specialized drip pan beneath the coil prevents air leakage and facilitates the transfer of condensed water into the drain pan.
- The drain pan boasts high protection specifications and is self-insulated, with an enamel finish.
- Additionally, ABS material drip pans are utilized to prevent dripping at the coil and valve junctions.

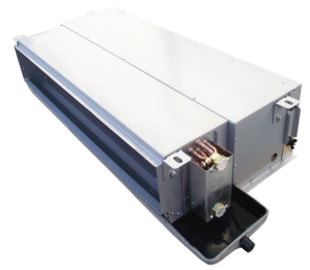
VERSIONS

- 2A : 2-Pipe Up to 60 Pa
- 4A : 4-Pipe Up to 60 Pa
- 2M : 2-Pipe with EC Motor up to 70 Pa
- 4M : 4-Pipe with EC Motor up to 70 Pa

OPTIONS / ACCESSORIES

- Additional heating coil (for 4-Pipe systems)
- 2-way valves and actuators (Supplied loose)
- 3-way valves and actuators
- Room thermostat
- Digital room thermostat
- Electric heater (for 2-Pipe systems)





PVA TYPES 2-PIPE														
	2A	015	020	025	030	035	040	050	060	070	080	100	110	
Technical Specifications														
Total Cooling Capacity ¹	kW	1,92	2,56	2,95	3,79	4,78	5,26	5,94	6,97	8,02	8,94	10,65	12,45	
Sensible Cooling Capacity ¹	kW	1,53	1,81	2,08	2,8	3,4	3,72	4,12	4,83	5,6	6,26	7,53	8,79	
Heating Capacity ²	kW	3,86	4,47	5,15	7,02	8,43	9,17	10,07	11,85	13,9	15,6	19,68	23	
Airflow (High Speed)	m³/h	447	430	483	792	836	876	936	1.109	1.300	1.474	1.769	2.097	
Airflow (Medium Speed)	m³/h	361	346	374	627	670	708	746	920	1.039	1.226	1.426	1.784	
Airflow (Low Speed)	m³/h	197	189	204	401	382	446	466	483	622	651	898	929	
Dimensions														
PVA Unit (WxHxD)	mm	709	709	709	984	984	984	1.101	1.024	1.359	1.411	1.771	1.882	
		238	238	238	238	238	238	238	238	238	238	238	238	
		478	478	478	478	478	478	478	478	478	478	478	478	
PVA With Package (WxHxD)	mm	735	735	735	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915	
		260	260	260	260	260	260	260	260	260	260	260	260	
		515	515	515	515	515	515	515	515	515	515	515	515	
Net Weight	kg	13,9	14,7	14,8	20,1	21,2	21,3	24,3	25,7	31,8	33	40,3	42,4	
Fluid Data														
Water Flowrate (Cooling) ¹	l/h	338	446,7	515,3	662	833,3	917,1	1.033,5	1.216,	1.400,3	1563,4	1856,5	2.174,5	
Water Side Pressure Drop ¹	kPa	5,8	14,2	18,6	27	20,6	24,3	34,2	449,1	34,3	43,1	27,9	39	
Water Flowrate (Heating) ²	l/h	167,9	194,5	223,9	305,5	367,1	399,5	438,9	516	604,8	678,4	857,8	1.001,7	
Water Side Pressure Drop ²	kPa	1,3	2,6	3,3	5,4	3,8	4,4	5,8	8,3	6,0	7,6	5,5	7,7	
Water Amount	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,18	2,26	2,83	3,03	
Sound Data ³														
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	48	47	48	47	49	
Sound Pressure Level (Med)	dBA	34	35	41	40	41	41	40	43	45	47	43	47	
Sound Pressure Level (Low)	dBA	24	28	33	31	31	35	34	35	36	39	37	38	
Installation Information														
Coil In/Out Diameter	inch						3/4							
Drain Pipe Diameter	inch						3/4							
Power Consumption														
Cooling														
High Speed	W	47	46	61	76	83	90	92	121	150	176	178	233	
Medium Speed	W	40	39	50	57	71	78	79	105	125	151	155	203	
Low Speed	W	31	31	40	45	58	65	65	85	102	124	129	171	
Heating														
High Speed	W	47	47	61	76	83	90	93	123	150	178	181	235	
Medium Speed	W	41	41	51	59	74	81	82	111	130	157	161	212	
Low Speed	W	32	32	41	46	60	67	68	88	105	128	134	176	
Electirc Heater Option ⁴														
Electric Heater Capacity	kW	0,85	0,85	0,85	1,5	1,5	1,5	2,2	2,2	3,0	3,0	4,0	4,0	
Electric Heater Input Current	A	3,7	3,7	3,7	6,5	6,5	6,5	9,6	9,6	13,0	13,0	17,4	17,4	
Electric Heater Number of Stages								1						

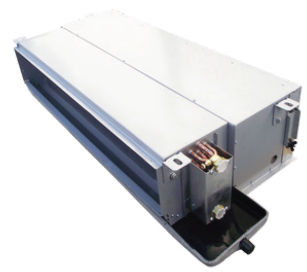
All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

4. All values are based on an electrical supply of 230 Volts and a frequency of 50 Hz



PVA TYPES 4-PIPE														
	4A	015	020	025	030	035	040	050	060	070	080	100	110	
Technical Specifications														
Total Cooling Capacity ¹	kW	1,82	2,45	2,77	3,56	4,53	4,91	5,6	6,63	7,49	8,36,	9,98	11,72	
Sensible Cooling Capacity ¹	kW	1,44	1,72	1,96	2,62	3,21	3,46	3,87	4,58	5,21	5,82	7,02	8,24	
Heating Capacity ²	kW	2,8	2,53	2,96	5,03	4,84	5,38	6,1	7,12	7,83	8,67	10,95	12,69	
Airflow (High Speed)	m³/h	417	407	448	727	783	806	872	1.043	1.196	1.357	1.632	1.943	
Airflow (Medium Speed)	m³/h	334	326	352	577	633	662	704	888	970	1.159	1.336	1.694	
Airflow (Low Speed)	m³/h	183	179	191	371	363	421	443	460	585	615	849	885	
Dimensions														
PVA Unit (WxHxD)	mm	709	709	709	984	984	984	1.101	1.024	1.359	1.411	1.771	1.882	
		238	238	238	238	238	238	238	238	238	238	238	238	
		478	478	478	478	478	478	478	478	478	478	478	478	
PVA With Package (WxHxD)	mm	735	735	735	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915	
		260	260	260	260	260	260	260	260	260	260	260	260	
		515	515	515	515	515	515	515	515	515	515	515	515	
Net Weight	kg	709	14,7	14,8	20,1	21,2	21,3	24,3	25,7	31,8	33	40,3	42,4	
Fluid Data														
Water Flowrate (Cooling) ¹	l/h	320,2	427,5	484,6	623,7	790,8	856,1	975,4	1.156,9	1.308,8	1.461,2	1.741,1	2.046,8	
Water Side Pressure Drop ¹	kPa	5,4	13,5	17,3	25	19,2	22,2	31,5	45,8	30,9	38,8	24,9	35,4	
Water Flowrate (Heating) ²	l/h	121	108,9	126,3	217,6	208,9	232,5	263,9	307,4	337,2	372,9	472,9	546,9	
Water Side Pressure Drop ²	kPa	2,4	2	2,6	9,5	8,8	10,7	15	21,3	4,7	5,8	10,6	14,5	
Water Amount (Cooling)	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,18	2,26	2,83	3,03	
Water Amount (Heating)	l	0,38	0,38	0,38	0,54	0,54	0,54	0,61	0,66	0,76	0,79	0,98	1,04	
Sound Data ³														
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	47	44	48	47	49	
Sound Pressure Level (Med)	dBA	37	35	41	40	41	41	40	43	41	47	43	44	
Sound Pressure Level (Low)	dBA	27	26	32	27	29	33	32	35	34	37	35	37	
Installation Information														
In/Out Diameter (Cooling Coil)	inch						3/4							
In/Out Diameter (Add. Heating Coil)	inch						1/2							
Drain Pipe Diameter	inch						3/4							
Power Consumption														
Cooling														
High Speed	W	46	45	59	76	80	85	88	114	145	167	172	217	
Medium Speed	W	40	40	50	58	71	78	80	104	126	148	155	197	
Low Speed	W	31	31	39	45	58	63	64	84	100	122	127	168	
Heating														
High Speed	W	46	46	60	75	81	86	91	118	146	171	176	224	
Medium Speed	W	40	40	50	58	72	79	81	106	127	152	158	204	
Low Speed	W	31	31	40	45	58	64	65	85	101	123	128	168	

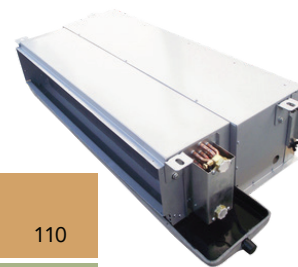
All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

TF-Series-PVA Ceiling concealed type with EC motor



PVA TYPES 2-PIPE											
	2M	015	025	030	040	050	060	070	080	100	110
Technical Specifications											
Total Cooling Capacity ¹	kW	2,04	3,41	4,21	5,86	6,5	7,69	8,75	9,8	11,41	13,62
Sensible Cooling Capacity ¹	kW	1,64	2,46	3,16	4,22	4,57	5,39	6,21	6,96	8,19	9,75
Heating Capacity ²	kW	4,08	6,01	7,84	10,35	11,06	13,17	15,16	17,13	20,94	25,2
Airflow (Turbo Speed)	m³/h	504	597	963	1.042	1.068	1.285	1.481	1.702	1.973	2.430
Airflow (High Speed)	m³/h	481	533	932	976	1.040	1.170	1.422	1.549	1.914	2.212
Airflow (Medium Speed)	m³/h	410	450	812	827	922	1.023	1.249	1.348	1.665	1.931
Airflow (Low Speed)	m³/h	244	260	550	522	654	694	810	897	1.099	1.286
Airflow (Silent Speed)	m³/h	176	209	431	366	326	592	665	760	760	1.076
Dimensions											
PVA Unit (WxHxD)	mm	709	709	984	984	1.101	1.024	1.101	1.024	1.411	1.882
		238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478
PVA With Package (WxHxD)	mm	735	735	1.015	1.015	1.150	1.240	1.150	1.240	1.455	1.915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
Net Weight	kg	13,8	14,6	21,1	21,1	24,0	25,6	24	25,6	32,1	42,3
Fluid Data											
Water Flowrate (Cooling) ¹	l/h	354,4	593,6	733,7	1.021,5	1.129,7	1.342,6	1.522,4	1.710,4	1.986,7	2.383,2
Water Side Pressure Drop ¹	kPa	6,2	23,6	31,6	28,8	38,7	56,4	38,1	48,6	30,1	44
Water Flowrate (Heating) ²	l/h	178	261,9	341,9	450,9	482,5	572,9	661,5	746,2	913,4	1096,5
Water Side Pressure Drop ²	kPa	1,4	4,3	6,4	5,3	6,6	9,7	6,7	8,7	5,9	8,7
Water Amount	l	0,75	1,05	1,06	1,52	1,75	1,89	2,18	2,26	2,83	3,03
Sound Data ³											
Sound Pressure Level (High)	dBA	38	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dBA	37	41	40	41	40	43	41	47	43	47
Sound Pressure Level (Low)	dBA	27	32	27	33	32	35	34	37	35	37
Installation Information											
Coil In/Out Diameter-Cooling	inch				3/4						
Coil In/Out Diameter-Add. heating	inch				1/2						
Drain Pipe Diameter	inch				3/4						
Power Consumption											
Cooling											
Turbo Speed	W	30	52	63	94	88	135	122	164	164	267
High Speed	W	25	39	55	79	81	100	108	126	148	196
Medium Speed	W	17	26	39	51	58	72	79	91	103	142
Low Speed	W	7	9	13	19	24	25	30	35	41	49
Silent Speed	W	4	6	8	16	15	18	19	25	29	36
Heating											
Turbo Speed	W	30	53	64	97	91	139	125	169	168	274
High Speed	W	26	40	56	81	82	103	111	130	152	202
Medium Speed	W	17	27	40	53	60	73	81	93	106	145
Low Speed	W	7	9	13	19	25	26	31	36	42	50
Silent Speed	W	5	6	8	12	16	19	20	26	23	37
Electirc Heater Option ⁴											
Electric Heater Capacity	kW	0,85	0,85	1,5	1,5	2,2	2,2	2,2	2,2	3,0	4,0
Electric Heater Input Current	A	3,7	3,7	6,5	6,5	9,6	9,6	9,6	9,6	13,0	17,4
Electric Heater Number of Stages						1					

All data provided in the table is at 0 Pa external static pressure.

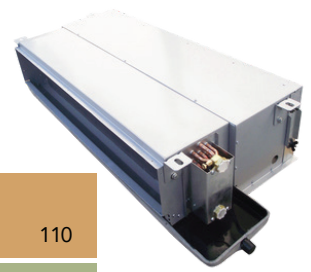
1. Values are at turbo speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at turbo speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

4. All values are based on an electrical supply of 230 Volts and a frequency of 50 Hz

TF-Series-PVA Ceiling concealed type with EC motor



PVA TYPES 2-PIPE												
		4M	015	025	030	040	050	060	070	080	100	110
Technical Specifications												
Total Cooling Capacity ¹	kW	1,92	3,24	3,92	5,48	6,12	7,29	8,19	9,22	10,68	12,83	
Sensible Cooling Capacity ¹	kW	1,54	2,33	2,92	3,93	4,29	5,09	5,78	6,52	7,61	9,14	
Heating Capacity ²	kW	2,43	2,74	4,55	4,85	5,36	6,34	6,86	7,69	9,48	11,29	
Airflow (Turbo Speed)	m³/h	462	554	860	945	980	1.190	1.346	1.556	1.792	22.25	
Airflow (High Speed)	m³/h	440	493	831	884	954	1.082	1.291	1.413	1.737	2.023	
Airflow (Medium Speed)	m³/h	373	413	718	745	842	943	1.129	1.224	1.503	1.760	
Airflow (Low Speed)	m³/h	219	237	509	552	582	621	777	804	1.130	1.180	
Airflow (Silent Speed)	m³/h	159	191	367	489	522	525	687	728	959	1.085	
Dimensions												
PVA Unit (WxHxD)	mm		709	709	984	984	1101	1024	1359	1411	1771	1882
			238	238	238	238	238	238	238	238	238	238
			478	478	478	478	478	478	478	478	478	478
PVA With Package (WxHxD)	mm		735	735	1015	1015	1150	1240	1455	1455	1790	1915
			260	260	260	260	260	260	260	260	260	260
			515	515	515	515	515	515	515	515	515	515
Net Weight	kg	15,1	17,5	21,4	22,1	25,5	27,3	33,6	34,4	42,5	45,5	
Fluid Data												
Water Flowrate (Cooling) ¹	l/h	334,2	563,8	682,6	955,6	1.063,2	1273	1.424,3	1.608,6	1.857,7	2243,9	
Water Side Pressure Drop ¹	kPa	5,6	21,5	27,7	25,5	34,6	51,2	33,8	43,4	26,6	39,4	
Water Flowrate (Heating) ²	l/h	105,7	118,4	197,7	209,5	232	273	296,4	331,1	409,8	485,3	
Water Side Pressure Drop ²	kPa	2	2,4	8,3	9,2	12,4	17,8	3,8	4,8	8,5	12,2	
Water Amount-Cooling	l	0,75	1,05	1,06	1,52	1,75	1,89	2,18	2,26	2,83	3,03	
Water Amount-Heating	l	0,38	0,38	0,54	0,54	0,61	0,66	0,76	0,79	0,83	1,04	
Sound Data ³												
Sound Pressure Level (High)	dBA	39	44	44	45	44	47	44	49	47	49	
Sound Pressure Level (Med)	dBA	38	42	42	43	40	47	42	48	42	46	
Sound Pressure Level (Low)	dBA	28	33	29	35	42	39	35	39	35	39	
Installation Information												
Coil In/Out Diameter	inch							3/4				
Drain Pipe Diameter	inch							3/4				
Power Consumption												
Cooling												
Turbo Speed	W	28	48	58	85	81	125	112	150	150	246	
High Speed	W	26	36	50	73	74	92	100	115	137	178	
Medium Speed	W	18	25	36	48	54	66	73	85	95	131	
Low Speed	W	7	8	12	23	22	23	29	32	46	47	
Silent Speed	W	4	6	7	17	16	17	22	25	30	39	
Heating												
Turbo Speed	W	28	50	59	90	85	131	117	158	158	258	
High Speed	W	26	38	52	76	78	97	104	121	142	188	
Medium Speed	W	17	26	37	50	56	70	77	88	99	137	
Low Speed	W	8	9	12	14	23	25	28	34	33	48	
Silent Speed	W	4	6	7	7	15	18	17	24	13	33	

All data provided in the table is at 0 Pa external static pressure.

1. Values are at turbo speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at turbo speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

Cooling Capacity 1,78 kW-12,33 kW



Heating Capacity 1,78 kW-20,23 kW



STRUCTURAL FEATURES

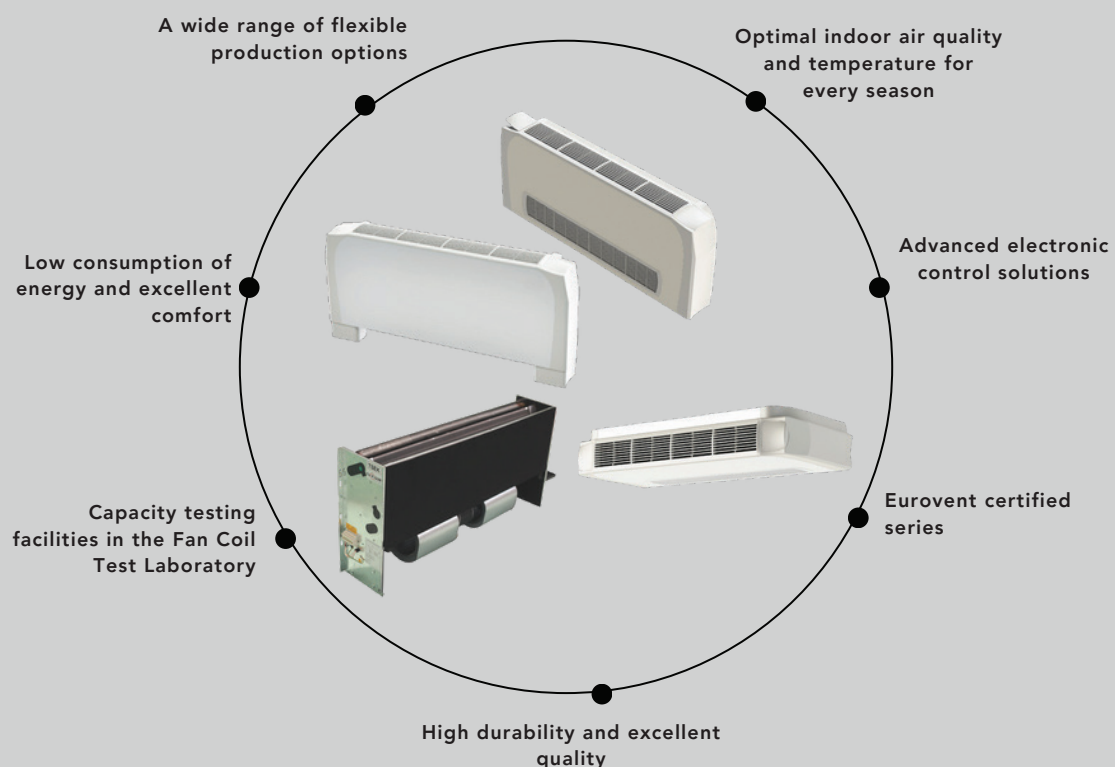
- Produces from corrosion-resistant galvanized sheet with a high zinc ratio.
- Equipped with high-energy-efficient radial fans that operate silently, available in either 230V-1ph-50Hz configuration or Electronically Commutated BLDC Motor.
- Mesh filters ensure easy access for maintenance and cleaning purposes.
- Electrical connections facilitated through specially designed waterproof terminal boxes.
- Coils are constructed from highly efficient seamless copper pipes and aluminum fins, each rigorously tested at 20 bar pressure before factory installation.
- Incorporation of a specialized drip pan beneath the coil prevents air leakage and facilitates the transfer of condensed water into the drain pan.
- The drain pan boasts high protection specifications and is self-insulated, with an enamel finish.
- Additionally, ABS material drip pans are utilized to prevent dripping at the coil and valve junctions.

VERSIONS

- 2C : 2-Pipe Up to 60 Pa
- 4C : 4-Pipe Up to 60 Pa
- 2E :2-Pipe with EC Motor up to 70 Pa
- 4E :4-Pipe with EC Motor up to 70 Pa

OPTIONS / ACCESSORIES

- Additional heating coil (for 4-Pipe systems)
- 2-way valves and actuators (Supplied loose)
- 3-way valves and actuators
- Room thermostat
- Digital room thermostat
- Electric heater (for 2-Pipe systems)



TF-Series-Ceiling Type (with Cabinet)-PCA & Floor Types- XVA-XCA



PCA XVA XCA TYPES 2-PIPE														
	2C	015	020	025	030	035	040	050	060	070	080	100	110	
Technical Specifications														
Total Cooling Capacity ¹	kW	1,51	2,04	2,68	3,29	4,02	4,66	5,42	6,37	7,34	8,25	9,4	10,88	
Sensible Cooling Capacity ¹	kW	1,16	1,4	1,87	2,38	2,77	3,25	3,64	4,53	5,04	5,71	6,38	7,46	
Heating Capacity ²	kW	2,96	3,39	4,65	5,96	6,73	7,97	8,68	11,3	12,37	14,12	15,52	18,33	
Airflow (High Speed)	m³/h	335	310	449	675	632	773	789	1.113	1.151	1.349	1.437	1.751	
Airflow (Medium Speed)	m³/h	258	238	352	530	498	626	623	924	920	996	1.146	1.421	
Airflow (Low Speed)	m³/h	145	134	185	344	321	358	393	486	553	639	734	897	
Dimensions														
XCA Unit (WxHxD)	mm	850	850	850	1.110	1.110	1.110	1.370	1.370	1.630	1.630	1.890	1.890	
		545	545	545	545	545	545	545	545	545	545	545	545	
		231	231	231	231	231	231	231	231	231	231	231	231	
XCA With Package (WxHxD)	mm	885	885	885	1.145	1.145	1.145	1.405	1.405	1.695	1.695	1.955	1.955	
		560	560	560	560	560	560	560	560	560	560	560	560	
		250	250	250	250	250	250	250	250	250	250	250	250	
XVA Unit (WxHxD)	mm	647	647	647	907	907	907	1.167	1.167	1.167	1.167	1.687	1.687	
		513	513	513	513	513	513	513	513	513	513	513	513	
		221	221	221	221	221	221	221	221	221	221	221	221	
XVA With Package (WxHxD)	mm	880	880	880	1.140	1.140	1.140	1.400	1.400	1.690	1.690	1.950	1.950	
		570	570	570	570	570	570	570	570	570	570	570	570	
		260	260	260	260	260	260	260	260	260	260	260	260	
Net Weight	kg	20,6	21,2	21,2	26,9	27,8	28,8	31,7	33,4	41,5	42,5	50,6	52,9	
Fluid Data														
Water Flowrate (Cooling) ¹	l/h	264,3	354,6	469,7	574,5	698,2	812,4	941,1	1.112,3	1.277,7	1.438,4	1.636,3	1.849,9	
Water Side Pressure Drop ¹	kPa	4,4	11,2	18,8	25,1	17,7	23,2	38,2	14,5	22,1	27,5	39,7	51,9	
Water Flowrate (Heating) ²	l/h	128,9	147,9	202	259,8	293,6	347,3	378,9	491,9	539,1	615,1	677,7	799	
Water Side Pressure Drop ²	kPa	1	1,8	3,3	4,8	3	4	5,9	2,7	3,7	4,7	6,5	8,7	
Water Amount	l	0,86	1,19	1,19	1,22	1,73	1,73	2,28	2,28	2,83	2,83	3,37	3,37	
Sound Data ³														
Sound Pressure Level (High)	dBA	34	35	42	38	36	43	40	46	46	48	46	48	
Sound Pressure Level (Med)	dBA	32	33	38	36	35	40	37	44	45	46	42	47	
Sound Pressure Level (Low)	dBA	21	23	28	29	29	33	30	33	34	35	34	39	
Installation Information														
Coil In/Out Diameter	inch							3/4						
Drain Pipe Diameter	inch							3/4						
Power Consumption														
Cooling														
High Speed	W	32	31	59	58	57	76	73	116	115	145	142	172	
Medium Speed	W	27	26	46	50	49	66	58	102	91	120	109	150	
Low Speed	W	22	22	35	41	41	56	43	82	73	98	86	124	
Heating														
High Speed	W	32	31	59	58	57	77	73	118	115	145	142	173	
Medium Speed	W	28	28	48	51	50	68	57	105	94	126	112	154	
Low Speed	W	22	22	35	41	41	56	43	83	73	99	86	124	

All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

TF-Series-Ceiling Type (with Cabinet)-PCA & Floor Types- XVA-XCA



PCA XVA XCA TYPES 4-PIPE														
	4C	015	020	025	030	035	040	050	060	070	080	100	110	
Technical Specifications														
Total Cooling Capacity ¹	kW	1,42	1,92	2,54	3,14	3,81	4,38	5,17	6,11	6,97	7,81	8,88	10,26	
Sensible Cooling Capacity ¹	kW	1,09	1,31	1,76	2,25	2,61	3,04	3,46	4,32	4,77	5,17	6,11	6,97	
Heating Capacity ²	kW	1,66	1,59	2,03	3,35	3,24	3,66	4,37	5,43	5,79	6,39	5,39	8,23	
Airflow (High Speed)	m³/h	309	288	417	625	589	711	745	1.051	1.076	1.254	1.336	1.618	
Airflow (Medium Speed)	m³/h	237	221	329	494	469	586	591	897	862	938	1.073	1.336	
Airflow (Low Speed)	m³/h	134	125	174	320	302	338	374	465	524	607	694	852	
Dimensions														
XCA Unit (WxHxD)	mm	850	850	850	1.110	1.110	1.110	1.370	1.370	1.630	1.630	1.890	1.890	
		545	545	545	545	545	545	545	545	545	545	545	545	
		231	231	231	231	231	231	231	231	231	231	231	231	
XCA With Package (WxHxD)	mm	885	885	885	1.145	1.145	1.145	1.405	1.405	1.695	1.695	1.955	1.955	
		560	560	560	560	560	560	560	560	560	560	560	560	
		250	250	250	250	250	250	250	250	250	250	250	250	
XVA Unit (WxHxD)	mm	647	647	647	907	907	907	1.167	1.167	1.167	1.167	1.687	1.687	
		513	513	513	513	513	513	513	513	513	513	513	513	
		221	221	221	221	221	221	221	221	221	221	221	221	
XVA With Package (WxHxD)	mm	880	880	880	1.140	1.140	1.140	1.400	1.400	1.690	1.690	1.950	1.950	
		570	570	570	570	570	570	570	570	570	570	570	570	
		260	260	260	260	260	260	260	260	260	260	260	260	
Net Weight	kg	23,2	23,8	23,8	30,3	31,2	32,2	36,0	37,7	46,6	47,6	56,5	58,8	
Fluid Data														
Water Flowrate (Main Coil) ¹	l/h	248,8	335,1	444,3	547	662,3	763,3	898,4	1.065,7	1.214,5	1.363,4	1.546,7	1.787,3	
Water Side Pressure Drop (Main) ¹	kPa	3,9	9,9	16,9	22,8	16	20,7	35,1	13,5	20,1	24,8	35,9	46,5	
Water Flowrate (Add. Coil) ²	l/h	71,8	68,6	86,8	145,1	140	158	189,3	234,3	249,7	275,1	232,9	355,2	
Water Side Pressure Drop Water (Add.) ²	kPa	0,9	0,9	1,4	4,7	4,4	5,5	9,6	14,3	3,2	3,8	12,8	6,9	
Main Coil Water Amount	l	0,86	1,19	1,19	1,22	1,73	1,73	2,28	2,28	2,83	2,83	3,37	3,37	
Add. Coil Water Amount	l	0,35	0,35	0,35	0,5	0,5	0,5	0,64	0,64	0,79	0,79	0,93	0,93	
Sound Data ³														
Sound Pressure Level (High)	dBA	35	36	44	41	47	44	41	48	47	49	44	47	
Sound Pressure Level (Med)	dBA	31	33	38	37	36	40	37	46	46	47	43	46	
Sound Pressure Level (Low)	dBA	20	24	28	29	29	33	31	35	35	36	35	38	
Installation Information														
Main Coil In/Out Diameter	inch							3/4						
Add. Coil In/Out Diameter	inch							1/2						
Drain Pipe Diameter	inch							3/4						
Power Consumption														
Cooling														
High Speed	W	31	30	57	57	56	73	72	111	113	141	140	164	
Medium Speed	W	27	27	47	50	48	66	56	100	93	124	110	148	
Low Speed	W	22	22	35	40	40	55	43	81	73	97	85	123	
Heating														
High Speed	W	31	31	58	57	56	74	73	113	113	143	140	166	
Medium Speed	W	28	27	47	50	50	66	56	102	93	125	110	151	
Low Speed	W	22	22	35	41	40	55	43	82	73	98	85	123	

All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

TF-Series-Ceiling Type (with Cabinet)-PCA & Floor Types- XVA-XCA



PCA XVA XCA TYPES 2-PIPE										
		2E	015	025	030	040	050	060	080	110
Technical Specifications										
Total Cooling Capacity ¹	kW		1,73	3,21	3,61	5,25	6,03	7,21	9,27	12,23
Sensible Cooling Capacity ¹	kW		1,34	2,26	2,61	3,67	4,06	5,14	6,45	8,41
Heating Capacity ²	kW		3,28	5,45	6,33	8,81	9,41	12,61	15,52	20,23
Airflow (Turbo Speed)	m³/h		361	513	683	821	818	1191	1424	1856
Airflow (High Speed)	m³/h		329	440	646	747	761	1084	1313	1723
Airflow (Medium Speed)	m³/h		253	340	491	592	581	873	940	1355
Airflow (Low Speed)	m³/h		143	177	325	332	363	441	580	772
Airflow (Silent Speed)	m³/h		118	134	312	312	329	412	539	709
Dimensions										
XCA Unit (WxHxD)	mm		850	850	1.110	1.110	1.370	1.370	1.630	1.890
			545	545	545	545	545	545	545	545
			231	231	231	231	231	231	231	231
XCA With Package (WxHxD)	mm		885	885	1.145	1.145	1.405	1.405	1.695	1.955
			560	560	560	560	560	560	560	560
			250	250	250	250	250	250	250	250
XVA Unit (WxHxD)	mm		647	647	907	907	1.167	1.167	1.167	1.687
			513	513	513	513	513	513	513	513
			221	221	221	221	221	221	221	221
XVA With Package (WxHxD)	mm		880	880	1.140	1.140	1.400	1.400	1.690	1.950
			570	570	570	570	570	570	570	570
			260	260	260	260	260	260	260	260
Net Weight	kg		20,6	21,2	26,9	28,8	31,7	33,4	42,5	52,9
Fluid Data										
Water Flowrate (Cooling) ¹	l/h		300,2	557,8	625,3	912,8	1.042,3	1.258,1	1.611,7	2.127,7
Water Side P. Drop (Cooling) ¹	kPa		5,2	24,2	27,2	26,9	42,7	16,9	31,1	58,9
Water Flowrate (Heating) ²	l/h		143,7	237,7	276,8	384,4	411,9	549	677,3	882,4
Water Side P. Drop (Heating) ²	kPa		1,1	4,2	5	4,5	6,3	3	5,2	9,6
Water Amount	l		0,86	1,19	1,22	1,73	2,28	2,28	2,83	3,37
Sound Data ³										
Sound Pressure Level (High)	dBA		33	41	37	42	39	45	47	47
Sound Pressure Level (Med)	dBA		31	37	35	39	36	43	45	46
Sound Pressure Level (Low)	dBA		20	27	28	32	29	32	34	38
Installation Information										
Coil In/Out Diameter	inch						3/4			
Drain Pipe Diameter	inch						3/4			
Power Consumption										
Cooling										
Turbo/High/Medium	W		17/14/9	42/30/17	38/30/17	68/53/32	48/40/21	124/94/54	120/97/47	166/138/79
Low/Silent			5/4	8/3	9/5	9/6	11/6	13/8	17/13	26/16
Heating										
Turbo/High/Medium	W		17/14/9	43/31/19	38/30/17	70/54/32	49/41/22	127/96/55	123/99/47	172/141/80
Low/Silent			4/4	7/3	8/5	10/6	10/6	12/8	20/13	26/17

All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

TF-Series-Ceiling Type (with Cabinet)-PCA & Floor Types- XVA-XCA



PCA XVA XCA TYPES 4-PIPE		4E	015	025	030	040	050	060	080	110
Technical Specifications										
Total Cooling Capacity ¹	kW	1,58	2,98	3,23	4,78	5,55	6,74	8,56	11,25	
Sensible Cooling Capacity ¹	kW	1,22	2,09	2,32	3,32	3,72	4,78	5,92	7,69	
Heating Capacity ²	kW	1,78	2,27	3,37	3,88	4,55	5,87	6,78	8,8	
Airflow (Turbo Speed)	m³/h	319	463	582	722	736	1085	1276	1653	
Airflow (High Speed)	m³/h	289	394	540	655	682	986	1174	1530	
Airflow (Medium Speed)	m³/h	223	304	451	516	504	788	823	1190	
Airflow (Low Speed)	m³/h	126	159	258	283	308	371	484	305	
Airflow (Silent Speed)	m³/h	104	120	249	277	280	352	460	292	
Dimensions										
XCA Unit (WxHxD)	mm	850	850	1.110	1.110	1.370	1.370	1.630	1.890	
		545	545	545	545	545	545	545	545	
		231	231	231	231	231	231	231	231	
XCA With Package (WxHxD)	mm	885	885	1.145	1.145	1.405	1.405	1.695	1.955	
		560	560	560	560	560	560	560	560	
		250	250	250	250	250	250	250	250	
XVA Unit (WxHxD)	mm	647	647	907	907	1.167	1.167	1.167	1.687	
		513	513	513	513	513	513	513	513	
		221	221	221	221	221	221	221	221	
XVA With Package (WxHxD)	mm	880	880	1.140	1.140	1.400	1.400	1.690	1.950	
		570	570	570	570	570	570	570	570	
		260	260	260	260	260	260	260	260	
Net Weight	kg	23,2	23,8	30,3	32,2	36,0	37,7	47,6	58,8	
Fluid Data										
Water Flowrate (Cooling) ¹	l/h	274,6	517,3	560,6	831,2	960,6	1.176,1	1.487,6	1.955,4	
Water Side P. Drop (Cooling) ¹	kPa	4,4	21	22,3	22,6	36,8	14,9	26,8	50,5	
Water Flowrate (Heating) ²	l/h	77,4	98	146,5	167,9	197,9	252,9	293,4	379,9	
Water Side P. Drop (Heating) ²	kPa	1	1,6	4,5	5,7	9,6	15	3,9	7,1	
Water Amount	l	0,86	1,19	1,22	1,73	2,28	2,28	2,83	3,37	
Water Amount (Heating)	l	0,35	0,35	0,5	0,5	0,64	0,64	0,79	0,93	
Sound Data ³										
Sound Pressure Level (High)	dBA	34	43	40	43	40	47	48	46	
Sound Pressure Level (Med)	dBA	30	37	36	39	36	44	46	45	
Sound Pressure Level (Low)	dBA	19	27	28	32	30	34	35	37	
Installation Information										
Main Coil In/Out DiameterMain	inch						3/4			
Add. Coil In/Out Diameter	inch						1/2			
Drain Pipe Diameter	inch						3/4			
Power Consumption										
Cooling										
Turbo/High/Medium	W	16/19/9	38/31/17	34/28/17	62/53/31	44/41/21	113/89/50	109/91/48	149/129/76	
Low/Silent		4/3	6/3	6/4	9/5	7/5	10/7	19/12	25/19	
Heating										
Turbo/High/Medium	W	16/16/10	40/31/19	35/28/17	46/42/22	46/42/22	118/91/52	114/93/44	157/133/77	
Low/Silent		4/3	6/3	7/4	12/5	9/5	11/8	16/12	28/12	

All data provided in the table is at 0 Pa external static pressure.

1. Values are at high speed, with room conditions of 27°C dry bulb temperature, 50% relative humidity, and water inlet/outlet temperatures of 7/12°C.

2. Values are at high speed, with room conditions of 20°C dry bulb temperature and water inlet/outlet temperatures of 70/50°C.

3. Sound pressure levels are measured at a distance of 1 meter from the tested unit with a direction factor of Q=1.

Accessories

Simplify and optimize the process with **technogen** original accessories. You will be able to generate more flexible solutions for your projects with the assistance of our accessories, thereby reducing additional costs. For further information, please contact our experienced engineers.

DIGITAL THERMOSTAT

TTH 0101 / 0111-A0

- Choice of Three Fan Speeds
- Fancoil On/Off
- Summer/Winter Selection
- Room Thermostat
- Mounting on Surface
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Hotel Card/Window Switch
- Weekly Programming
- Display Backlight
- Modbus RTU (TTH0110-A0)
- Remote Control (TTH0101-A0)
- Modbus RTU+Remote Control (TTH0111-A0)



DIGITAL THERMOSTAT

TTH 0101 / 0111-E0 (EC)

- Choice of Three Fan Speeds
- Fancoil On/Off
- Summer/Winter Selection
- Room Thermostat
- Mounting on Surface
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Hotel Card/Window Switch
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- Remote Control (TTH9100-00)



REMOTE CONTROLLER

TTH 9100-00

- Mode Selection Key : Hot, Cold, Ventilation
- Up and Down Keys: Temperatures
- Fan Speed Key: High, Medium, Low
- Sleep Mode Key
- Timer Key
- Super Key: Enter High Speed State
- Power Key
- * with TTH 0101 / 0111 models



THERMOSTAT

TOT

- 3-speed fan control
- Fan coil On/Off
- Heating or Cooling mode
- Summer/ Winter operation selector
- Valve control for 2 pipes
- Valve control for 4 pipes (RAB31)



RDF 510 - 530



- 3-speed fan control
- Fan coil On/Off
- Heating or Cooling mode
- Summer/Winter operation selector
- Timer specification (530 Model)
- Automatic backlighting
- Flush Mounting
- Valve Control 2 Pipe (510 Model)
- Valve Control 4 pipe (530 Model)

RDF 800



- 3-speed fan control
- Touch screen
- Heating and cooling mode at the same time
- BMS (Building Management System)
- Fan coil On/Off
- Summer/ Winter operation selector
- Operation timer
- Automatic backlighting
- Flush Mounting

UTH0202 /212/ 232 -A1



- Choice of Three Fan Speeds
- Fancoil On/Off
- Summer/Winter/Auto Mode Selection
- Room Thermostat
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- External Temperature Sensor

UTH0202 /212/ 232 -E1 (EC)



- EC Motor Control
- Fancoil On/Off
- Summer/Winter/Auto Mode Selection
- Room Thermostat
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- External Temperature Sensor

VM: 2 & 3-way valve options



2 and 3- way valves are used for the purpose of thermostatic fluid control for the coils and are supplied loose or factory fitted. 3-way valves are available with 4-port option for the installation convenience.

APK: Rear cover



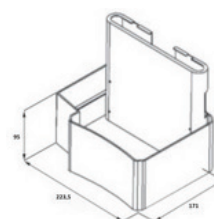
Used for covering the back of units in KDT and KYT types.

ALK: Lower cover



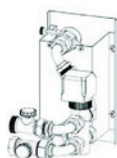
Used for covering the bottom of unit in KTP types.

AYK: Foot



Used for installing the unit to the floor in KDT types.

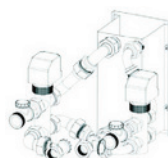
3VM3SG: 3-way valve installation kit



Used for 2-Pipe systems for GTT - GDT - GTA types.*

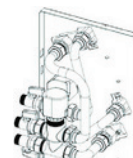
* Supplied loose

4VM3SG: 3-way valve installation kit



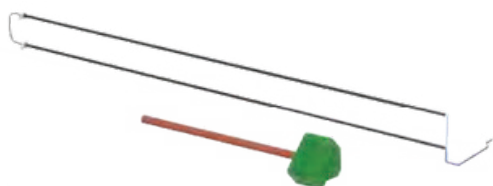
Used for 4-Pipe systems for GTT - GTA types. *

4VM3SK: 3-way valve installation kit



Used for 4-Pipe systems for GDT types.*

ELCH: Additional Electrical Heaters



For 2-Pipe systems. (GTT-GTA-GBT-GBA)

- Special design of electrical heaters which are ingranted to coil allows lower surface temperatures with higher capacities.
- All electrical heaters are made of 304 quality Stainless steel and have halogen free cable connections.
- Option have integrated safety the mostat to prevent high surface temperatures which are resettable and already all cable connections are completed.
- Units have contactors (220-240 Vac,monophasic, 50 hz) and could be controlled by standard room thermostats.
- All two pipe, ceiling concealed type UNFC series units can be equipped with electrical heaters.



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