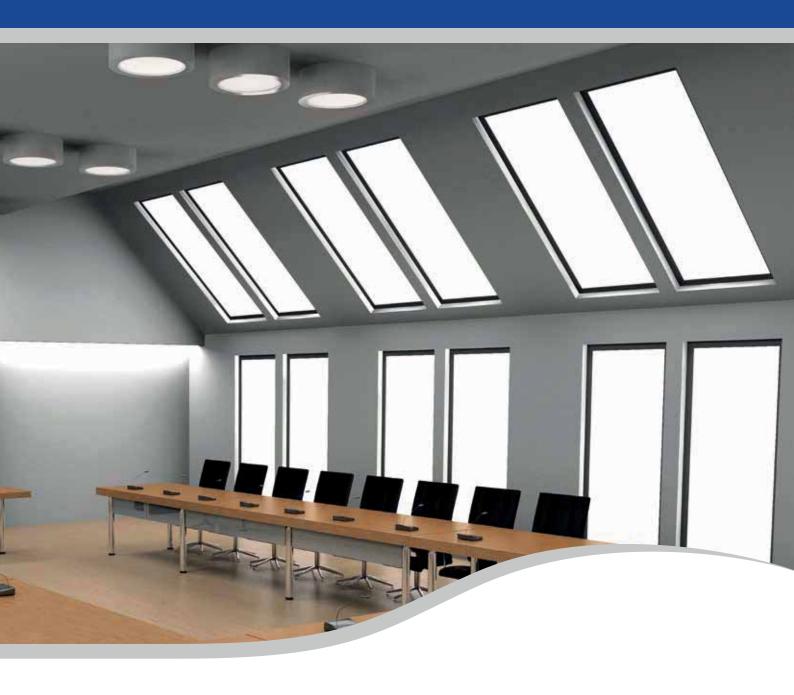
Fancoil Units









Cassette type FCU

Water terminal units

Indoor installation

Capacity from 1.8 to 12.6 kW

TFP-KM4

Cassette type FCU



The Cassette type terminal unit has been designed for installation in suspended ceilings without requiring any extra part for operation. The unit has an intake grille and fourway outlet with adjustable diffuser flaps for changing airflow direction.

The Cassette type is therefore suited for use in environments such as shops, restaurants, hotels and gyms, where the excellent out flowing air control makes them ideal airconditioning units:

- * available in version for 2 and 4-pipe systems;
- \divideontimes available in electro-mechanical or electronic version with set-upfor connection to HM Control or general supervisors;
- *possibility of controlling several units from a single point;
- % the unit comes with a condensate drain pump (500 mm vertical).

available configurations

TFP-KM4 FPKM4 (1)

(2) V (3) S (4) D

- (1)----The unit nominal air flow (340m3/h)
- (2)---- V 2 pipe
 - P 4 pipe
- (3)----- S power supply 230V/1Ph/50hz with electronic
 - W power supply 230V/1Ph/50hz with electronic-mechanic
 - A power supply 220V/1Ph/60Hz
- (4)---- the unit without Electrical heater
 - D the unit with Electrical heater

accessories

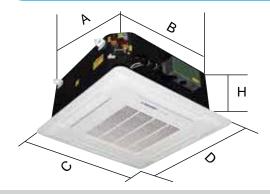
- Wall pad for all type FCU
- 3V2-KM4---3-way valve kit for 2-pipe cassette type FCU
- 3V4-KM4---3-way valve kit for 4-pipe cassette type FCU



	TFP-KM4-V(2 PIPES)												
			34	51	68	80	85	102	136	170	204	238	
Total Cooling	High		1,80	2,70	3,60	4,20	4,50	5,40	7,20	9,00	10,80	12,60	
Capacity(1)	Medium	kW	1,56	2,34	3,08	3,57	3,81	4,51	6,19	7,60	9,22	10,51	
Capacity(1)	Low		1,37	2,06	2,70	3,20	3,36	4,04	5,52	6,73	8,23	9,39	
Hooting	High		2,70	4,05	5,40	6,35	6,75	8,10	10,80	13,50	16,20	18,90	
Heating Capacity(2)	Medium	kW	2,19	3,21	4,38	5,11	5,44	6,55	8,69	11,00	13,26	15,30	
Capacity(2)	Low		1,90	2,81	3,75	4,40	4,67	5,57	7,41	9,32	11,31	12,89	
	High		340	510	680	800	850	1020	1360	1700	2040	2380	
Air volume	Medium	m³/h	290	400	540	650	700	850	1110	1400	1670	1950	
	Low		200	290	400	500	550	680	860	1100	1300	1520	
Fan Motor Power		W	37	52	62	65	76	96	134	152	189	228	
Sound Pressure Le	vel(3)	dB(A)	37	39	41	42	43	45	46	48	50	52	
Water inlet/outlet	diameter	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
Weight		kg	24	24	26	27	33	34	34	40	41	42	

			TFP-KM4-P(4PIPES)											
			34	51	68	80	85	102	136	170	204	238		
Total Cooling	High		1,40	2,10	2,80	3,25	3,50	4,20	5,60	7,00	8,40	9,85		
Total Cooling Capacity(1)	Medium	kW	1,20	1,79	2,34	2,79	2,99	3,57	4,76	5,95	7,14	8,36		
Capacity(1)	Low		1,06	1,57	2,11	2,47	2,61	3,15	4,20	5,25	6,30	7,35		
l leating	High		1,08	1,62	2,16	2,46	2,70	3,24	4,32	5,40	6,48	7,20		
Heating Capacity(2)	Medium	kW	0,87	1,31	1,76	2,00	2,16	2,62	3,49	4,37	5,25	5,83		
Capacity(2)	Low		0,75	1,10	1,50	1,70	1,85	2,23	2,98	3,73	4,45	4,97		
	High		340	510	680	800	850	1020	1360	1700	2040	2380		
Air volume	Medium	m³/h	290	400	540	650	700	850	1110	1400	1670	1950		
	Low		200	290	400	500	550	680	860	1100	1300	1520		
Fan Motor Power		W	37	52	62	65	76	96	134	152	189	228		
Sound Pressure Le	vel(3)	dB(A)	37	39	41	42	43	45	46	48	50	52		
Water inlet/outlet	diameter	inch	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4		
Weight		kg	25	25	27	28	34	35	35	41	42	43		

- (1) Ambient air at 27°C, %50 RH water at inlet 7°C and outlet 12°C,
- (2) Ambient air at 20°C, %50 RH water at inlet 60°C and outlet 50°C,
- (3) The sound pressure is measured at 1m when the unit with full load in open field conditions.
- (4)Power supply must be 230V/1Ph/50Hz



MC	DEL	34-51-68-80	85-102-136	170-204-238
	Α	570	730	930
	В	570	730	930
	С	650	850	1050
	D	650	850	1050
	Н		290	



Floor standing with/without cassette

Water terminal units

Indoor installation

Capacity
from 1.6 to 11.3 Kw







The Cassette models have beautiful, modern styled cabinet well proportioned smoothed outline to perfectly match with any interior. The double bank grill's louvers can be easily singularly manually adjusted, allowing to have air-flow in desired direction. Highly efficient coil made of copper pipes and aluminium fins fixed by mechanical expansion. Coil connections provided with anti-torsion system, manual air vent valves, manual water drain valves.

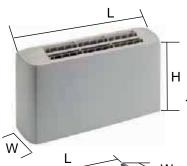
available conf	figurations)—			
TFX-V/C	(1) A/B	(2) TR	(3) EH	(4) L	(5) 3V2	(6) F
(1) VARYING INTAKE A=Bottom intake B=Front intake			TŔ =Fan SPS=3-sp TSC=ther	ITROLS terminal board beed switch mostat switch actronic PCB +	,	
(3) WATER COIL / ELECTORY (4) WATER COIL / ELECTORY (4) WATER COIL / ELECTORY (5) WATER COIL / ELECTORY (6) WATER COIL / E	d		SX=Wate DX=Wate	TER FITTINGS r fittings to the er fittings to the enections rever	eleft	nstallation
(5) VALVES= Not required Standard 2 /3 way valve can be more				equired Standa nel can be supp	ard olied for horizon	ıtal



				TFX-VA/CA(2PIPES)										
			130	230	330	430	530	630	730	830	930	1030	1130	1230
Total Cooling	High		1,58	2,11	2,66	3,18	3,95	4,47	5,81	6,76	7,93	9,50	10,11	11,27
Capacity(1)	Medium	kW	1,44	1,92	2,43	2,90	3,64	4,12	5,36	6,23	7,39	8,86	9,43	10,52
Capacity(1)	Low		1,19	1,58	2,00	2,38	3,04	3,45	4,48	5,21	6,37	7,63	8,12	9,05
Lleating	High		4,57	5,77	7,35	8,19	10,64	12,28	16,21	18,16	22,69	25,43	28,15	32,27
Heating Capacity(2)	Medium	kW	4,12	5,20	6,61	7,37	9,70	11,20	14,79	16,57	20,97	23,50	26,01	29,82
Capacity(2)	Low		3,31	4,17	5,31	5,92	7,93	9,15	12,08	13,54	17,72	19,86	21,98	25,20
	High		350	360	435	447	647	665	975	1003	1431	1472	1908	1962
Air volume	Medium	m³/h	291	299	361	371	550	565	829	853	1245	1281	1660	1707
	Low		200	205	248	255	388	399	585	602	930	957	1240	1275
Fan Motor Power		W	58	58	83	83	108	108	147	147	159	159	270	270
Sound Pressure Lev	/el(3)	dB(A)	38	38	40	40	42	42	43	43	49	49	50	50
Water inlet/outlet	diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Weight		kg	10,7	10,7	13,5	13,5	19,5	20,5	22,9	22,9	24,4	28,3	28,3	34,2

	TFX-VA/CA(4PIPES)													
			131	231	331	431	531	631	731	831	931	1031	1131	1231
Total Cooling	High		1,69	2,24	2,86	3,37	4,24	4,75	6,26	7,14	8,53	10,00	10,88	11,88
Total Cooling Capacity(1)	Medium	kW	1,54	2,04	2,61	3,07	3,91	4,38	5,76	6,58	7,95	9,32	10,14	11,07
Capacity(1)	Low		1,26	1,68	2,14	2,52	3,26	3,65	4,81	5,49	6,84	8,02	8,72	9,53
Hti	High		2,39	2,43	4,01	4,07	5,71	5,79	8,49	8,56	11,25	11,29	13,68	13,73
Heating Capacity(2)	Medium	kW	2,15	2,18	3,61	3,66	5,20	5,28	7,75	7,81	10,40	10,44	12,64	12,69
Capacity(2)	Low		1,73	1,76	2,90	2,94	4,25	4,31	6,33	6,38	8,79	8,82	10,68	10,73
	High		360	370	447	455	665	680	1003	1015	1472	1480	1962	1975
Air volume	Medium	m³/h	299	307	371	378	565	578	853	863	1281	1288	1707	1718
	Low		205	211	255	259	399	408	602	609	957	962	1275	1284
Fan Motor Power	-	W	58	58	83	83	108	108	147	147	159	159	270	270
Sound Pressure Le	vel(3)	dB(A)	38	38	40	40	42	42	43	43	49	49	50	50
Water inlet/outlet	diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Weight(TFX-VA)		kg	14,4	15	17,4	18	23,6	24,6	27,2	28,7	31	32,8	35	38,9
Weight(TFX-CA)		kg	11,6	12,1	14,5	15,3	20,6	21,6	24,1	25,6	28,1	29,6	32,1	35,6

- (1) Ambient air at 27°C, %50 RH water at inlet 7°C and outlet 12°C,
- (2)Ambient air at 20° C,%50 RH water at inlet 90° C and outlet 70° C,
- (3)The sound pressure is measured at 1m when the unit with full load in open field conditions.
- (4)Power supply must be 230V/1Ph/50Hz



 MODEL	130	230	330	430	530	630	730	830	930	1030	1130	1230
L	670		870		1070		1270		1470		1670	
W		220										
Н		520										



MODEL	130	230	330	430	530	630	730	830	930	1030	1130	1230
L	45	50	6	50	85	0	1450					
W					•	21	5					
Н		450										

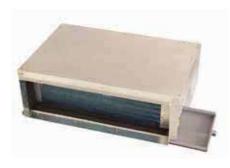


Ceiling concealed type FCU

Water terminal units

Indoor installation

Capacity from 1.95 to 8.7kW TFP-WA



The ceiling concealed type water terminals is designed for installations where air is conducted at low pressure, their fans give enough static pressure to distribute air to different spaces, through conducting systems, grilles or diffusers.

- Water connections reversibility during installation
- ¾ 1-row additional coil for 4-pipe system (This is optional part.)
- The available controls are simple and user-friendly, satisfying the most

Varied of requirements, with top-of-the-range electronic control designed for connection to the HM Control or general supervisors.

- ※ available in 4 kinds of ESP(12,30,50,70Pa).
- * easy installation and maintenance

available configurations

(1) (2) (3) (4) (5)

TFP-WA 34 R3 TR EH L 3V2-C

(1) VARYING INTAKE R3=Bottom intake RF=Front intake	(2) CONTROLS TR =Fan terminal board (standard) SPS=3-speed switch TSC=thermostat switch PCW=Electronic PCB +wired wall pad
(3) WATER COIL / ELECTRICAL HEATERNot required Standard HC=Hot water coil 1Rows (4-pipe system) EH=Electrical heater	(4) WATER FITTINGS L=Water fittings to the left R=Water fittings to the right Water connections reversibility during installation
(5) VALVES = Not required Standard 2V2-C = ON/OFF 2 way valve for 2-pipe unit for WA 3V2-C = ON/OFF 3 way valve for 2-pipe unit for WA	2V4-C = ON/OFF 2 way valve for 4-pipe unit for WA 3V4-C = ON/OFF 3 way valve for 4-pipe unit for WA

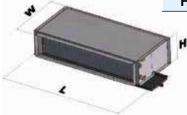


					TFI	P-WA-V(2 PIP	ES)		
			34	51	68	85	102	136	170
Total Cooling	High		1,95	2,83	3,87	4,55	5,50	7,58	8,69
Total Cooling Capacity(1)	Medium	kW	1,70	2,50	3,40	4,00	4,90	6,70	7,70
Capacity(1)	Low		1,40	2,00	2,80	3,30	4,00	5,50	6,30
Heating	High		5,57	7,52	9,47	12,24	14,56	20,16	23,84
Heating Capacity(2)	Medium	kW	4,64	6,24	8,00	10,24	12,16	16,96	20,00
Capacity(2)	Low		3,52	4,80	6,08	7,84	9,28	12,96	15,20
	High		360	540	720	880	1030	1500	1780
Air volume	Medium	m³/h	285	430	570	660	820	1150	1380
	Low		210	310	420	510	590	870	1000
External Static Pre	ssure	Pa	50	50	50	50	50	50	70
Fan Motor Power W			49	63	83	98	116	170	205
Sound Pressure Level(3) dB(A)		39	41	42	44,5	46	50	50	
Water inlet/outlet	Water inlet/outlet diameter inch		3/4	3/4	3/4	3/4	3/4	3/4	3/4
Weight	Veight kg			17	19	21	23	26	31

					TFI	P-WA-P(4 PIP	ES)		
			34	51	68	85	102	136	170
Total Cooling	High		2,15	3,26	4,00	4,85	5,80	7,32	9,48
Total Cooling Capacity(1)	Medium	kW	1,90	2,80	3,40	4,30	4,80	6,40	8,00
Capacity(1)	Low		1,50	2,20	2,70	3,50	3,90	5,20	6,50
Heating	High		3,01	4,40	5,71	6,80	8,66	10,32	13,79
Heating Capacity(2)	Medium	kW	2,56	3,68	4,80	5,76	7,20	8,64	11,52
Capacity(2)	Low		1,92	2,88	3,68	4,32	5,60	6,56	8,80
	High		340	510	680	850	1020	1360	1700
Air volume	Medium	m³/h	270	400	540	670	810	1080	1360
	Low		200	300	400	510	610	810	1000
External Static Pr	essure	Pa	50	50	50	50	50	70	70
Fan Motor Power		W	46	60	80	96	110	134	194
Sound Pressure L	Sound Pressure Level(3) dB(A)			41	42	44,5	46	50	50
Inlet/outlet diame	nlet/outlet diameter(cooling) inch			3/4	3/4	3/4	3/4	3/4	3/4
Inlet/outlet diame	nlet/outlet diameter(heating) inch		1/2	1/2	1/2	1/2	1/2	1/2	1/2
Weight	eight kg			22	25	27	30	36	42

- (1)Ambient air at $\,$ 27°C,%50 RH water at inlet 7°C and outlet 12°C ,
- (2)Ambient air at 20°C,%50 RH water at inlet 90°C and outlet 70°C,
- (3) The sound pressure is measured at 1m when the unit with full load in open field conditions.
- (4)Power supply must be 230V/1Ph/50Hz

MODEL	34	51	68	85	102	136	170						
L	635	755	865	945	1055	1325	1515						
W				497									
Н		250											





Duct type FCU-High ESP

Water terminal units

Indoor installation

Capacity from 7.2 to 22.6 kW

TFP-WA-H



The Duct type water terminal units are ideal air-treatment terminal units for installations where ducted air distribution is necessary. The units are designed for ceiling suspended installation and are distinguished by their compactness and extremely low noise levels obtained thanks to internal insulation.

The main features are:

- Water connections reversibility during installation
- various available controls, from simple speed control through to the electronic control set-up for connection to HM Control or general supervisors;
- * wide choice of accessories (plenum for round ducts);
- ** electric heater section with different power plus electronic power modulation control;
- ★ high head-pressure fans for ducted air distribution.

available configurations

(1) WA-HEXPOSED High ESP duct type FCU(2) 170nominal air flow (1700m3/h)	(3) CONTROLS TR =Fan terminal board (standard) SPS=3-speed switch TSC=thermostat switch
	PCW=Electronic PCB +wired wall pad

accessories

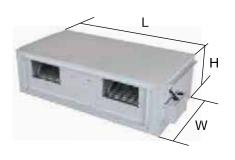
TWO-WAY INTAKE PLENUM WITH DAMPER02	AIR PURIFICATION MODULE09-10
ELECTRIC HEATER MODULE05	AUXILLIARY WATER COIL FOR HEATING MODULE04
DISCHARGE (AND INTAKE) PLENUM03/07	DISCHARGE PLENUM FOR ROUND DUCTING



	TFP-WA-V(HIGH PRESSURE 2 PIPES)							
			136H	170H	238H	270H	340H	460H
Total Cooling	High		7,50	9,30	12,80	14,60	17,70	22,60
Total Cooling Capacity(1)	Medium	kW	6,10	7,50	10,40	11,80	14,30	18,30
Capacity(1)	Low		4,50	5,60	7,70	8,80	10,60	13,60
Heating	High		18,08	22,24	30,56	35,36	42,72	55,20
Capacity(2)	Medium	kW	14,24	17,60	24,16	28,00	33,76	43,68
Capacity(2)	Low		10,08	12,32	16,96	19,52	23,68	30,56
	High		1360	1700	2380	2720	3400	4590
Air volume	Medium	m³/h	1020	1275	1785	2040	2550	3443
	Low		680	850	1190	1360	1700	2295
External Static Pre	ssure	Pa	81	103	117	112	127	120
Fan Motor Power		W	202	256	333	385	573	860
Sound Pressure Level(3) d		dB(A)	50	50	52	54	56	59
Water inlet/outlet diameter inc		inch	3/4	3/4	3/4	3/4	3/4	3/4
Weight		kg	26	56	70	90	98	112

	TFP-WA-P(HIGH PRESSURE 4 PIPES)							
_			136H	170H	238H	270H	340H	460H
Total Caaling	High		7,50	9,30	12,80	14,60	17,70	22,60
Total Cooling Capacity(1)	Medium	kW	6,10	7,50	10,40	11,80	14,30	18,30
Capacity(1)	Low		4,50	5,60	7,70	8,80	10,60	13,60
Heating	High		10,56	13,28	18,56	21,12	26,40	35,36
Capacity(2)	Medium	kW	8,16	10,24	14,40	16,32	20,48	27,36
Capacity(2)	Low		5,76	7,04	9,92	11,36	14,24	19,04
	High	m³/h	1360	1700	2380	2720	3400	4590
Air volume	Medium		1020	1275	1785	2040	2550	3443
	Low		680	850	1190	1360	1700	2295
External Static Pressure F		Pa	69	91	105	100	115	100
Fan Motor Power W		W	202	256	333	385	573	860
Sound Pressure Level(3) dB(A)		50	50	52	54	56	59	
Water inlet/outlet diameter inch		3/4	3/4	3/4	3/4	3/4	3/4	
Weight kg		36	58	73	93	102	117	

- (1)Ambient air at 27° C,%50 RH water at inlet 7° C and outlet 12° C ,
- (2)Ambient air at $20^{\circ}\text{C},\%50~\text{RH}$ water at inlet 90°C and outlet 70°C ,
- (3) The sound pressure is measured at 1m when the unit with full load in open field conditions.
- (4)Power supply must be 230V/1Ph/50Hz



MODEL	136H	170H	238H	270H	340H	460H
L	1000		1200	1400		
W	550		62	20	70	
Н		315	-	350	400	450



High wall type FCU

Water terminal units

Indoor installation

Capacity from 1.3 to 6.3 kW

TFP-FAN



The High wall type water terminals are designed to meet and exceed the demanding requirements for efficiency, quiet operation and good looks.

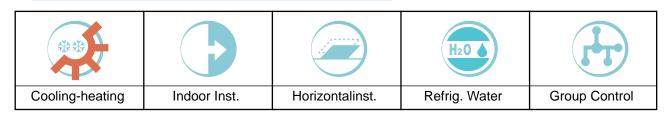
The sleek profiles and elegantly styled cabinet will comply any interior design theme.

The microprocessor assures accurate environmental control.

* available in 2 versions of returned air grill;

 ※ 3 way (4 port) motorized valve can be easily mounted inside the cabinet. The valve function is controlled by microprocessor.

functions and features



available configurations



(1) FAN----High wall type FCU
(2) 70---- model size
(3) V----the unit with 3 way valve
---- the unit without 3 way valve



accessories

- Wall pad for all type FCU
- Electric heater for FAN
- 3 way (4 ports) valve.

technical data

TFP-FAN	(2 PIPES)
---------	-----------

			70	90	180
Total Cooling	High	kW	2,38	2,67	4,60
Total Cooling Capacity(1)	Medium		2,15	2,43	4,19
Capacity(1)	Low		1,94	2,20	3,80
Heating	High		5,00	6,20	8,90
Heating Capacity(2)	Medium	kW	4,37	5,34	7,65
Capacity(2)	Low		3,78	3,62	5,20
	High	m³/h	410	485	860
Air volume	Medium		330	390	750
	Low		270	320	590
Sound Pressure Level(3)		dB(A)	39/36/29	41/37/32	48/45/40
Water inlet/outlet diameter		inch	(1/2)		
Weight		kg	8,5	8,5	17,2

- (1)Ambient air at 27° C,%47 RH water at inlet 7° C and outlet 12° C ,
- (2) Ambient air at 20°C, %47 RH water at inlet 70°C and outlet 60°C,
- (3) The sound pressure is measured at 1m when the unit with full load in open field conditions.
- (4)Power supply must be 230V/1Ph/50Hz



MODEL	70	90	180
L	79	1250	
W	28	320	
Н	18	35	195





"Simply The Best Solutions"