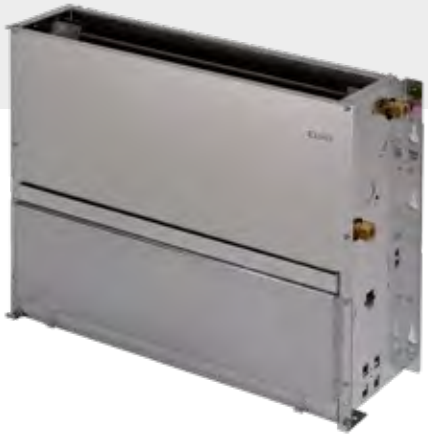
FROM 1,3 KW TO 7,3 KW.

FIW 13÷74

FAN COIL UNITS FOR BUILT-IN INSTALLATION WITH 3-SPEED OR EC INVERTER RADIAL FANS.



EC INVERTER FAN

The hydronic Fan Coil units of FIW series are designed for built-in installation: vertical floor-mounted or horizontal ceiling-mounted in domestic environments or service sector including offices, hotels, restaurants, gyms and shops.
Part of an hydronic system equipped with a liquid Chiller, FIW Fan Coil generates cool air silently and with instantaneous reaction. During the winter, if combined with a boiler or heat pump, it provides warm air, making it possible to meet home or business heating needs. A filter, which absorbs and retains dust in suspension, allows to keep the air quality at a suitable level and its easy removal enables continuous cleaning cycles to be carried out, which are particularly important in order to guarantee suitable hygiene standards in highly frequented rooms. All installation needs are considered in the many standard features of the unit. It can be installed horizontally or vertically, with front, bottom or rear intake. There is also a series of accessories, also for 4-Pipe systems, that includes a control panel that is installed in the room.
Units are available both with 3-Speed or EC Inverter fans. The units equipped with EC Inverter motor are able to modulate the air flow ensuring a perfect adaptability to the load without any temperature fluctuations, achieving superior performance compared to the traditional solutions even from energy consumption point of view.

VERSION

FIW/IV	***FIW/IF***	***FIW/IO***	***FIW/II***
Vertical unit with bottom inlet and vertical delivery	Vertical unit with front inlet and vertical delivery	Horizontal unit with rear inlet and horizontal delivery	Horizontal unit with bottom inlet and horizontal delivery
FIW/IV/EC	***FIW/IF/EC***	***FIW/IO/EC***	***FIW/II/EC***
Vertical unit with EC Inverter fans, bottom inlet and vertical delivery	Vertical unit with EC Inverter fans, front inlet and vertical delivery	Horizontal unit with EC Inverter fans, rear inlet and horizontal delivery	Horizontal unit with EC Inverter fans, bottom inlet and horizontal delivery

FEATURES

- Structure made of galvanized sheet complete with heat/sound insulation, regenerating filter and natural discharge condensation tray.
- Radial fan type directly coupled to a 6-Speed single phase electric motor, with 3 speeds connected in the standard configuration.
- Radial EC INVERTER fan (23÷74).
- Heat exchanger coils with copper pipes and aluminium fins with airvent on the distributors.

ACCESSORIES

LOOSE ACCESSORIES

C	Auxiliary condensate drain pan
WS	Hot water coil for 4-Pipe system
EH	Supplementary electrical heater
S	Manual damper
SG	Manual damper with grid
SMF	On/off motorized damper
SMG	On/off motorized damper with grid
RM	Wall connection for damper
SF	Supply frame
DRA	Wall mounted automatic electronic control panel
VR	Wall mounted fan speed control panel
TA	Wall mounted ambient thermostat
DRE	Wall mounted electromechanic control panel
DRV	Wall mounted automatic electronic control panel
MCC	Multicontrol connection card
BC	Universal connecting terminal
TMB	Minimum temperature thermostat for VB and VR
V2	3-Way on/off valve for 2-Pipe system
V4	3-Way on/off valves for 4-Pipe system
MP	Condensate drain pump

FIW 13÷74

MODEL			13	14	23	24	33	34	43
Cooling	Total cooling capacity (1),(2)	kW	1.31	1.49	1.77	2.05	2.47	2.77	3.11
	Sensible cooling capacity (1),(2)	kW	1.09	1.26	1.45	1.68	1.96	2.16	2.42
	Water flow (1),(2)	l/h	225	256	304	353	425	476	535
	Pressure drops (1),(2)	kPa	5	1	11	6	8	5	14
Heating	Heating capacity (2),(3)	kW	3.20	3.45	4.19	4.53	5.70	6.35	7.03
	Water flow (2),(3)	l/h	275	297	360	390	490	546	605
	Pressure drops (2),(3)	kPa	4	1	8	2	6	4	11
Rows	Quantity	n°	3	4	3	4	3	4	3
Water connections	In / Out	"G	½"	½"	½"	½"	½"	½"	½"
Air flow	Max	m³/h	240	240	340	340	430	430	540
	Med	m³/h	190	190	260	260	340	340	420
	Min	m³/h	140	140	170	170	250	250	280
Air flow (EC version)	Max	m³/h	---	---	340	340	430	430	540
	Min	m³/h	---	---	150	150	180	180	230
Additional coil	Heating capacity (2),(3)	kW	1.50	1.50	2.16	2.16	2.92	2.92	3.75
	Water flow (2),(3)	l/h	129	129	186	186	251	251	322
	Pressure drops (2),(3)	kPa	5	5	9	9	15	15	26
	Rows	n°	1	1	1	1	1	1	1
	Water connections (In / Out)	"G	½"	½"	½"	½"	½"	½"	½"
Electrical heater	Power supply	V/Ph/Hz	230/1/50						
	Absorbed power	kW	0.6	0.6	1.0	1.0	1.6	1.6	2.0
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50						
	Max absorbed power	kW	0.03	0.03	0.05	0.05	0.05	0.05	0.07
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	---		230/1/50				
	Max absorbed power	kW	---	---	0.02	0.02	0.03	0.03	0.04
Sound pressure	Max (4)	dB(A)	41	41	44	44	40	40	44
	Med (4)	dB(A)	34	34	38	38	34	34	37
	Min (4)	dB(A)	26	26	26	26	25	25	27
Sound pressure (EC version)	Max (4)	dB(A)	---	---	44	44	40	40	44
	Min (4)	dB(A)	---	---	25	25	24	24	26
Weights	Transport weight	Kg	12	12	14	14	18	19	21
	Operating weight	Kg	10	10	12	12	16	17	19

MODEL			44	53	54	63	64	73	74
Cooling	Total cooling capacity (1),(2)	kW	3.54	4.04	4.58	5.09	5.96	6.45	7.26
	Sensible cooling capacity (1),(2)	kW	2.71	3.12	3.47	3.86	4.63	5.07	5.57
	Water flow (1),(2)	l/h	609	695	788	875	1025	1109	1249
	Pressure drops (1),(2)	kPa	9	26	17	8	5	16	15
Heating	Heating capacity (2),(3)	kW	7.75	9.01	9.93	11.69	13.00	14.59	16.19
	Water flow (2),(3)	l/h	666	775	854	1005	1118	1255	1392
	Pressure drops (2),(3)	kPa	7	20	13	6	4	12	8
Rows	Quantity	n°	4	3	4	3	4	3	4
Water connections	In / Out	"G	½"	½"	½"	½"	½"	½"	½"
Air flow	Max	m³/h	540	690	690	910	910	1180	1180
	Med	m³/h	420	530	530	730	730	810	810
	Min	m³/h	280	400	400	510	510	590	590
Air flow (EC version)	Max	m³/h	540	690	690	910	910	1180	1180
	Min	m³/h	230	300	300	420	420	500	500
Additional coil	Heating capacity (2),(3)	kW	3.75	4.65	4.65	6.01	6.01	7.84	7.84
	Water flow (2),(3)	l/h	322	400	400	517	517	674	674
	Pressure drops (2),(3)	kPa	26	18	18	13	13	24	24
	Rows	n°	1	1	1	1	1	1	1
	Water connections (In / Out)	"G	½"	½"	½"	½"	½"	½"	½"
Electrical heater	Power supply	V/Ph/Hz	230/1/50						
	Absorbed power	kW	2.0	2.5	2.5	3.0	3.0	4.0	4.0
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50						
	Max absorbed power	kW	0.07	0.09	0.09	0.16	0.16	0.19	0.19
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	230/1/50						
	Max absorbed power	kW	0.04	0.07	0.07	0.09	0.09	0.13	0.13
Sound pressure	Max (4)	dB(A)	44	46	46	48	48	52	52
	Med (4)	dB(A)	37	39	39	43	43	42	42
	Min (4)	dB(A)	27	33	33	34	34	34	34
Sound pressure (EC version)	Max (4)	dB(A)	44	46	46	48	48	52	52
	Min (4)	dB(A)	26	29	29	28	28	33	33
Weights	Transport weight	Kg	22	24	25	33	34	42	44
	Operating weight	Kg	20	22	23	31	32	40	42

DIMENSIONS			13	14	23	24	33	34	43	44	53	54	63	64	73	74
L	STD/EC	mm	440	440	560	560	760	760	960	960	1160	1160	1135	1135	1410	1410
W	STD/EC	mm	195	195	195	195	195	195	195	195	195	195	260	260	260	260
H	STD/EC	mm	475	475	475	475	475	475	475	475	475	475	545	545	545	545

CLEARANCE AREA

FIW 13÷74

Electrical board side

NOTES

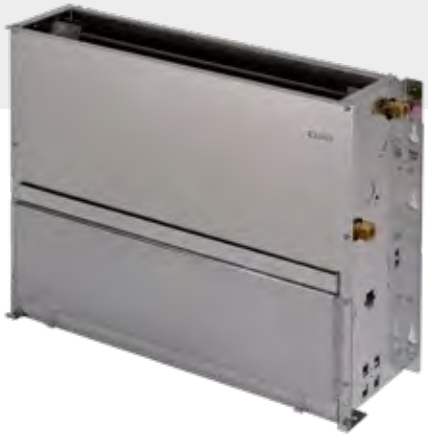
1. Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
2. Performances also valid for EC version.
3. Ambient air temperature 20 °C d.b., water temperature 70/60 °C.
4. Sound pressure level measured at 1 m from the unit with reverberation time 0,5 s.

N.B. Maximum operating pressure 1000 kPa.
N.B. Maximum inlet water temperature 90 °C.
N.B. Inhibited ethylene glycol can be added to the water.

FROM 1,4 KW TO 6,7 KW.

FIW/AP 23÷74

FAN COIL UNITS FOR BUILT-IN INSTALLATION WITH HIGH AVAILABLE STATIC PRESSURE AND 3-SPEED OR EC INVERTER RADIAL FANS.



HIGH STATIC PRESSURE

EC INVERTER FAN

The hydronic Fan Coil units of FIW/AP series, with high available static pressure fan, are designed for built-in and ducted installation: vertical floor-mounted or horizontal ceiling-mounted in domestic environments or service sector including offices, hotels, restaurants, gyms and shops. Part of an hydronic system equipped with a liquid Chiller, FIW/AP Fan Coil generates cool air silently and with instantaneous reaction. During the winter, if combined with a boiler or heat pump, it provides warm air, making it possible to meet home or business heating needs. A filter, which absorbs and retains dust in suspension, allows to keep the air quality at a suitable level and its easy removal enables continuous cleaning cycles to be carried out, which are particularly important in order to guarantee suitable hygiene standards in highly frequented rooms. All installation needs are considered in the many standard features of the unit. It can be installed horizontally or vertically, with front, bottom or rear intake. There is also a series of accessories, also for 4-Pipe systems, that includes a control panel that is installed in the room.
The high available static pressure fan allows to reach up to 60 Pa, therefore makes the unit also suitable for installation on air ducts.
Units are available both with 3-Speed or EC Inverter fans. The units equipped with EC Inverter motor are able to modulate the air flow ensuring a perfect adaptability to the load without any temperature fluctuations, achieving superior performance compared to the traditional solutions even from energy consumption point of view.

VERSION

FIW/AP/IV	***FIW/AP/IF***	***FIW/AP/IO***	***FIW/AP/II***
Vertical unit with bottom inlet and vertical delivery	Vertical unit with front inlet and vertical delivery	Horizontal unit with rear inlet and horizontal delivery	Horizontal unit with bottom inlet and horizontal delivery
FIW/AP/IV/EC	***FIW/AP/IF/EC***	***FIW/AP/IO/EC***	***FIW/AP/II/EC***
Vertical unit with EC Inverter fans, bottom inlet and vertical delivery	Vertical unit with EC Inverter fans, front inlet and vertical delivery	Horizontal unit with EC Inverter fans, rear inlet and horizontal delivery	Horizontal unit with EC Inverter fans, bottom inlet and horizontal delivery

FEATURES

- Structure made of galvanized sheet complete with heat/sound insulation, regenerating filter and natural discharge condensation tray.
- Radial fan type directly coupled to a 6-Speed single phase electric motor, with 3 speeds connected in the standard configuration.
- Radial EC INVERTER fan.
- Heat exchanger coils with copper pipes and aluminium fins with airvent on the distributors.

ACCESSORIES

LOOSE ACCESSORIES

C	Auxiliary condensate drain pan
WS	Hot water coil for 4-Pipe system
EH	Supplementary electrical heater
S	Manual damper
SG	Manual damper with grid
SMF	On/off motorized damper
SMG	On/off motorized damper with grid
RM	Wall connection for damper
SF	Supply frame
DRA	Wall mounted automatic electronic control panel
VR	Wall mounted fan speed control panel
TA	Wall mounted ambient thermostat
DRE	Wall mounted electromechanic control panel
DRV	Wall mounted automatic electronic control panel
MCC	Multicontrol connection card
BC	Universal connecting terminal
TMB	Minimum temperature thermostat for VB and VR
V2	3-Way on/off valve for 2-Pipe system
V4	3-Way on/off valves for 4-Pipe system
MP	Condensate drain pump

FIW/AP 23÷74

MODEL			23	24	33	34	43	44	53	54	63	64	73	74
Cooling	Total cooling capacity (1),(2)	kW	1.35	1.55	1.96	2.15	2.72	3.00	3.31	3.70	4.39	5.09	5.99	6.69
	Sensible cooling capacity (1),(2)	kW	1.05	1.14	1.49	1.56	2.08	2.24	2.50	2.67	3.27	3.69	4.64	5.08
	Water flow (1),(2)	l/h	232	267	337	369	468	528	569	636	755	876	1030	1151
	Pressure drops (1),(2)	kPa	7	1	5	3	11	7	18	11	6	4	14	9
Heating	Heating capacity (2),(3)	kW	3.00	3.20	4.30	4.73	6.02	6.58	7.17	7.82	9.80	10.80	13.33	14.71
	Water flow (2),(3)	l/h	258	276	369	407	517	566	616	673	843	930	1146	1264
	Pressure drops (2),(3)	kPa	4	1	4	2	8	5	13	8	4	3	10	6
Rows	Quantity	n°	3	4	3	4	3	4	3	4	3	4	3	4
Water connections	In / Out	"G	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Air flow	Max	m³/h	230	230	310	310	450	450	530	530	740	740	1060	1060
	Med	m³/h	190	190	270	270	400	400	460	460	520	520	890	890
	Min	m³/h	140	140	190	190	220	220	400	400	420	420	600	600
Air flow (EC version)	Max	m³/h	230	230	310	310	450	450	530	530	740	740	1060	1060
	Min	m³/h	120	120	170	170	190	190	360	360	380	380	540	540
Available static pressure	Max	Pa	60	60	60	60	60	60	60	60	60	60	60	60
	Med	Pa	50	50	50	50	50	50	50	50	50	50	50	50
	Min	Pa	30	30	40	40	35	35	40	40	35	35	30	30
Available static pressure (EC version)	Max	Pa	60	60	60	60	60	60	60	60	60	60	60	60
	Min	Pa	30	30	40	40	35	35	40	40	35	35	30	30
Additional coil	Heating capacity (2),(3)	kW	1.66	1.66	2.34	2.34	3.32	3.32	3.89	3.89	5.25	5.25	7.31	7.31
	Water flow (2),(3)	l/h	143	143	201	201	285	285	335	335	451	451	628	628
	Pressure drops (2),(3)	kPa	4	4	10	10	19	19	5	5	10	10	21	21
	Rows	n°	1	1	1	1	1	1	1	1	1	1	1	1
	Water connections (In / Out)	"G	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Electrical heater	Power supply	V/Ph/Hz	230/1/50											
	Absorbed power	kW	1.0	1.0	1.6	1.6	2.0	2.0	2.5	2.5	3.0	3.0	4.0	4.0
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50											
	Max absorbed power	kW	0.06	0.06	0.07	0.07	0.08	0.08	0.11	0.11	0.14	0.14	0.19	0.19
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	230/1/50											
	Max absorbed power	kW	0.03	0.03	0.04	0.04	0.05	0.05	0.09	0.09	0.13	0.13	0.14	0.14
Sound pressure	Max (4)	dB(A)	48	48	47	47	47	47	49	49	50	50	54	54
	Med (4)	dB(A)	45	45	44	44	45	45	45	45	45	45	48	48
	Min (4)	dB(A)	32	32	34	34	33	33	39	39	38	38	43	43
Sound pressure (EC version)	Max (4)	dB(A)	49	49	49	49	49	49	52	52	55	55	56	56
	Min (4)	dB(A)	31	31	34	34	30	30	35	35	37	37	41	41
Weights	Transport weight	Kg	14	14	18	19	21	22	24	25	33	34	42	44
	Operating weight	Kg	12	12	16	17	19	20	22	23	31	32	40	42

DIMENSIONS			23	24	33	34	43	44	53	54	63	64	73	74
L	STD/EC	mm	560	560	760	760	960	960	1160	1160	1135	1135	1410	1410
W	STD/EC	mm	195	195	195	195	195	195	195	195	260	260	260	260
H	STD/EC	mm	475	475	475	475	475	475	475	475	545	545	545	545

CLEARANCE AREA

FIW/AP 23÷74

Electrical board side

NOTES

1. Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
2. Performances also valid for EC version.
3. Ambient air temperature 20 °C d.b., water temperature 70/60 °C.
4. Sound pressure level measured at 1 m from the unit with reverberation time 0,5 s.

N.B. Maximum operating pressure 1000 kPa.
N.B. Maximum inlet water temperature 90 °C.
N.B. Inhibited ethylene glycol can be added to the water.