

CHAPTER 7

FAN COIL UNITS

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FVW 13÷74 FLOYD

FAN COIL UNITS WITH CABINET AND 3-SPEED OR EC INVERTER RADIAL FANS.



The hydronic Fan Coil units with cabinet of FVW series feature a refined, exclusive design combined with the highest efficiency and noiseless operation.

Part of an hydronic system equipped with a liquid Chiller, **FLOYD** 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 on-board or 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.

floyd®

EC INVERTER FAN

VERSION

FVW/VP	FVW/VH	FVW/VE	FVW/VO
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
FVW/VP/EC	FVW/VH/EC	FVW/VE/EC	FVW/VO/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 protected by a prepainted sheet covering cabinet and ABS details, complete with heat/sound insulation, regenerating filter, heat-resistant ABS polymer grills adjustable in 4 different directions 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

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

FVW 13÷74 floyd

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"
	Max	m³/h	240	240	340	340	430	430	540
Air flow	Med	m³/h	190	190	260	260	340	340	420
	Min	m³/h	140	140	170	170	250	250	280
	Max	m³/h	---	---	340	340	430	430	540
Air flow (EC version)	Min	m³/h	---	---	150	150	180	180	230
	Heating capacity (2),(3)	kW	1.50	1.50	2.16	2.16	2.92	2.92	3.75
Additional coil	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	16	16	19	19	24	25	28
	Operating weight	Kg	14	14	17	17	22	23	26

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"
	Max	m³/h	540	690	690	910	910	1180	1180
Air flow	Med	m³/h	420	530	530	730	730	810	810
	Min	m³/h	280	400	400	510	510	590	590
	Max	m³/h	540	690	690	910	910	1180	1180
Air flow (EC version)	Min	m³/h	230	300	300	420	420	500	500
	Heating capacity (2),(3)	kW	3.75	4.65	4.65	6.01	6.01	7.84	7.84
Additional coil	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	29	33	34	43	44	54	56
	Operating weight	Kg	27	31	32	41	42	52	54

DIMENSIONS		13	14	23	24	33	34	43	44	53	54	63	64	73	74
L	STD/EC	mm	650	650	780	780	1040	1040	1170	1170	1430	1430	1430	1690	1690
W	STD/EC	mm	210	210	210	210	210	210	210	210	210	275	275	275	275
H	STD/EC	mm	500	500	500	500	500	500	500	500	500	570	570	570	570
D (5)	STD/EC	mm	90	90	90	90	90	90	90	90	90	90	90	90	90

CLEARANCE AREA

FVW 13÷74 floyd



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.
 5. Feet height.
- 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 1,3 KW TO 7,3 KW.

FIW 13÷74

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



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.

EC INVERTER FAN

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	MCC	Multicontrol connection card
WS	Hot water coil for 4-Pipe system	BC	Universal connecting terminal
EH	Supplementary electrical heater	TMB	Minimum temperature thermostat for VB and VR
S	Manual damper	V2	3-Way on/off valve for 2-Pipe system
SG	Manual damper with grid	V4	3-Way on/off valves for 4-Pipe system
SMF	On/off motorized damper	MP	Condensate drain pump
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		

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"
	Max	m³/h	240	240	340	340	430	430	540
Air flow	Med	m³/h	190	190	260	260	340	340	420
	Min	m³/h	140	140	170	170	250	250	280
	Max	m³/h	---	---	340	340	430	430	540
Air flow (EC version)	Min	m³/h	---	---	150	150	180	180	230
	Heating capacity (2),(3)	kW	1.50	1.50	2.16	2.16	2.92	2.92	3.75
Additional coil	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	---						
	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"
	Max	m³/h	540	690	690	910	910	1180	1180
Air flow	Med	m³/h	420	530	530	730	730	810	810
	Min	m³/h	280	400	400	510	510	590	590
	Max	m³/h	540	690	690	910	910	1180	1180
Air flow (EC version)	Min	m³/h	230	300	300	420	420	500	500
	Heating capacity (2),(3)	kW	3.75	4.65	4.65	6.01	6.01	7.84	7.84
Additional coil	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



NOTES

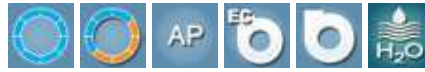
1. Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
 2. Performances also valid for EC version.
 3. Ambient air temperature 20 °C d.b., water temperature 70/60 °C.
 4. Sound pressure level measured at 1 m from the unit with reverberation time 0.5 s.
- N.B. Maximum operating pressure 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.

NEW



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	DRV	Wall mounted automatic electronic control panel
WS	Hot water coil for 4-Pipe system	MCC	Multicontrol connection card
EH	Supplementary electrical heater	BC	Universal connecting terminal
S	Manual damper	TMB	Minimum temperature thermostat for VB and VR
SG	Manual damper with grid	V2	3-Way on/off valve for 2-Pipe system
SMF	On/off motorized damper	V4	3-Way on/off valves for 4-Pipe system
SMG	On/off motorized damper with grid	MP	Condensate drain pump
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		

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"
	Max	m³/h	230	230	310	310	450	450	530	530	740	740	1060	1060
Air flow	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
	Max	m³/h	230	230	310	310	450	450	530	530	740	740	1060	1060
Air flow (EC version)	Max	m³/h	120	120	170	170	190	190	360	360	380	380	540	540
	Med	Pa	60	60	60	60	60	60	60	60	60	60	60	60
	Min	Pa	50	50	50	50	50	50	50	50	50	50	50	50
Available static pressure	Max	Pa	30	30	40	40	35	35	40	40	35	35	30	30
	Med	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.

FROM 2,1 KW TO 5,4 KW.

HWW/EC 22÷62 EURICE

WALL MOUNTED FAN COIL UNITS WITH EC INVERTER TANGENTIAL FAN.



The hydronic Fan Coil units of the HWW/EC series are designed for wall-mounted installation in domestic environments or service sector including offices and shops. Part of an hydronic system equipped with a liquid Chiller, the HWW/EC wall-mounted Fan Coil unit 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. HWW/EC is provided with remote control, 3-Way valve, flexible hydraulic hook-ups for easy installation and maintenance operations, and is also pre-set for master-slave functioning, with RS485 serial interface. The units are equipped with EC Inverter motor that can 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.

eurice®
EC INVERTER FAN

VERSION

HWW/EC

Base unit with 3-Way valve and remote control

FEATURES

- High design appearance with rounded lines, structure in ABS with improved mechanical features resistant to aging.
- Heat exchanger coils with copper pipes and aluminium fins with elevated heat exchanging surfaces; equipped with air blowing in condensation drain.
- 3-Way water valve incorporated inside the unit.
- Tangential fan unit with EC INVERTER motor, maximum silent operations, air flow fins with adjustable horizontal direction and motorized deflector fin controllable via remote control.
- Microprocessor control with timer for on/off programming. Program for automatic operations, cooling, heating and ventilation; night wellness program and dehumidifier.
- Automatic restarting after power outage
- Flexible water connections for easy installation and maintenance operations.
- Easy removal and cleaning of air filter, maintaining appropriate air quality.
- Infrared remote control with wall support.

ACCESSORIES

LOOSE ACCESSORIES

- EH Supplementary electrical heater
- DRC Wall mounted automatic electronic control panel

HWW/EC 22÷62 eurice

MODEL			22	23	32	42	52	62
Cooling	Total cooling capacity (1)	kW	2.07	2.49	3.02	3.74	4.81	5.38
	Sensible cooling capacity (1)	kW	1.52	1.81	2.22	2.74	3.46	3.89
	Water flow (1)	l/h	355	427	525	642	826	924
	Pressure drops	kPa	22	28	39	38	45	52
Heating	Heating capacity (2)	kW	2.70	3.21	3.93	4.87	6.10	6.85
	Water flow (2)	l/h	355	427	525	642	826	924
	Pressure drops	kPa	18	23	32	29	34	40
Water connections	In / Out	"G	½"	½"	½"	½"	½"	½"
Air flow	Max	m³/h	500	500	645	788	980	1240
	Min	m³/h	290	290	370	570	600	600
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50					
	Max absorbed power	kW	0.014	0.014	0.020	0.030	0.042	0.060
Sound pressure	Max (3)	dB(A)	37	37	43	46	40	45
	Min (3)	dB(A)	26	26	29	34	30	30
Weights	Transport weight	Kg	14	15	15	16	18	18
	Operating weight	Kg	12	13	13	14	16	16

DIMENSIONS			22	23	32	42	52	62
L	STD	mm	875	875	875	875	1060	1060
W	STD	mm	220	220	220	220	240	240
H	STD	mm	300	300	300	300	310	310

CLEARANCE AREA

HWW/EC 22-62 eurice



NOTES

1. Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
 2. Ambient air temperature 20 °C d.b., water temperature 50 °C.
 3. 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 70 °C.
N.B. Inhibited ethylene glycol can be added to the water.

TCW 22÷122

WATER CASSETTE WITH 3-SPEED OR EC INVERTER RADIAL FAN.



The Water Cassette of the TCW series has been designed to be installed in false ceilings, in domestic environments or the services sector including offices, hotels, restaurants, gyms and shops.

Part of an hydronic system equipped with a liquid Chiller, the TCW Water Cassette 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. The TCW series, in addition to having a rich set of accessories to complete the unit, also has an attractive intake grid that integrates perfectly in the surrounding environment and adjustable deflectors to distribute the air in the room in an ideal manner. TCW Water Cassette features auxiliary moisture drain pan already included and are pre-set for master-slave functioning, with RS485 serial interface. Units are available both with 3-Speed and 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.

EC INVERTER FAN

VERSION

TCW

Base unit with remote control for 2-Pipe system

TCW/WB

Unit with remote control for 4-Pipe system

TCW/EC

Unit with EC Inverter fan and remote control for 2-Pipe system

TCW/WB/EC

Unit with EC Inverter fan and remote control for 4-Pipe system

FEATURES

- Structure for insulated recess fitting, limited body depth (250/290 mm) and compact dimensions; specially designed for easy installation and maintenance of the hydraulic and electrical connections, accessible starting from the front panel grind.
- Casing in insulated galvanized sheet; combined air intake/suction grid; automatic adjustment of air diffusion on the four sides; suction in middle with regenerable filter; precut holes for connection to an external air intake and for connection to a branch duct for conditioning an adjoining room.
- Combined air diffusion/suction grid with air filter and adjustable air diffusion on the 4 sides with suction in middle.
- Radial fan turbine with direct feed. The motors, mounted on elastic suspension and equipped with internal thermal safety, are 3-Speed.
- Centrifugal fan turbine with direct feed. EC INVERTER motors, mounted on elastic suspension and equipped with internal thermal safety (32-53-73-122).
- Lift pump with float and detection at 3 levels (On-Off-Alarm) of condensation for lift in the upper part of the box. Discharge occurs by gravity, outside the appliance (lift height up to 500 mm).
- Heat exchanger in copper pipes and aluminium fins with air vent on the headers.
- Regenerable-type air filter, accessible after opening the combined air intake/suction grid.
- Microprocessor control with timer for on/off programming. Program for automatic operations, cooling, heating and ventilation; night wellness program and dehumidifier.
- Infrared remote control with wall support.

ACCESSORIES

LOOSE ACCESSORIES

EH	Supplementary electrical heater
DRC	Wall mounted automatic electronic control panel
V2	3-Way on/off valve for 2-Pipe system
V4	3-Way on/off valves for 4-Pipe system

TCW 22÷122

MODEL			22	32	42	53	63	73	122
Cooling 2-Pipe unit	Total cooling capacity (1)	kW	2.4	3.2	4.1	4.9	6.1	6.9	10.9
	Sensible cooling capacity (1)	kW	1.7	2.5	3.0	3.5	4.9	5.1	7.9
	Water flow (1)	l/h	413	550	705	843	1049	1187	1875
	Pressure drops (1)	kPa	10	20	28	42	28	39	43
Cooling 2-Pipe unit (EC version)	Total cooling capacity (1)	kW	---	3.2	---	4.6	---	6.8	10.9
	Sensible cooling capacity (1)	kW	---	2.4	---	3.2	---	5.0	7.9
	Water flow (1)	l/h	---	550	---	791	---	1170	1875
	Pressure drops (1)	kPa	---	20	---	39	---	39	38
Heating 2-Pipe unit	Heating capacity (2)	kW	4.9	6.6	7.8	9.7	11.9	12.7	18.9
	Water flow (2)	l/h	422	568	672	834	1023	1090	1624
Heating 2-Pipe unit (EC version)	Heating capacity (2)	kW	---	7.1	---	9.2	---	13.4	18.3
	Water flow (2)	l/h	---	610	---	791	---	1152	1574
	Pressure drops (2)	kPa	---	20	---	34	---	31	25
Cooling 4-Pipe unit	Total cooling capacity (1)	kW	---	---	3.1	3.9	---	5.8	7.9
	Sensible cooling capacity (1)	kW	---	---	2.4	2.9	---	4.5	6.0
	Water flow (1)	l/h	---	---	533	671	---	998	1359
	Pressure drops (1)	kPa	---	---	21	23	---	46	29
Cooling 4-Pipe unit (EC version)	Total cooling capacity (1)	kW	---	---	---	3.8	---	5.8	7.1
	Sensible cooling capacity (1)	kW	---	---	---	2.8	---	4.2	5.2
	Water flow (1)	l/h	---	---	---	654	---	998	1221
	Pressure drops (1)	kPa	---	---	---	21	---	52	24
Heating 4-Pipe unit	Heating capacity (2)	kW	---	---	3.8	4.3	---	5.0	9.7
	Water flow (2)	l/h	---	---	326	370	---	430	834
	Pressure drops (2)	kPa	---	---	11	12	---	15	27
Heating 4-Pipe unit (EC version)	Heating capacity (2)	kW	---	---	---	4.3	---	4.6	9.3
	Water flow (2)	l/h	---	---	---	370	---	395	800
	Pressure drops (2)	kPa	---	---	---	11	---	14	19
Water connections	2-Pipe (In / Out)	"G	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	4-Pipe (In / Out)	"G	---	---	3/4"	3/4"	---	3/4"	3/4"
Air flow	Max	m³/h	380	580	730	810	1050	1300	2130
	Med	m³/h	240	290	520	617	820	960	1640
	Min	m³/h	200	200	450	450	700	700	1380
Air flow (EC version)	Max	m³/h	---	580	---	810	---	1300	2100
	Min	m³/h	---	200	---	200	---	360	820
Electrical heater	Power supply	V/Ph/Hz	230/1/50						
	Absorbed power	kW	1	1	2	2	3	3	4
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50						
	Max absorbed power	kW	0.04	0.06	0.06	0.09	0.11	0.20	0.30
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	---	230/1/50	---	230/1/50	---	230/1/50	
	Max absorbed power	kW	---	0.03	---	0.04	---	0.09	0.20
Sound pressure	Max (3)	dB(A)	39	42	46	48	51	53	55
	Med (3)	dB(A)	33	36	40	43	44	48	48
	Min (3)	dB(A)	31	31	34	34	39	39	42
Sound pressure (EC version)	Max (3)	dB(A)	---	42	---	48	---	53	54
	Min (3)	dB(A)	---	29	---	30	---	34	36
Weights	Transport weight	Kg	31	31	33	33	40	40	55
	Operating weight	Kg	28	28	30	30	36	36	50

DIMENSIONS			22	32	42	53	63	73	122
BODY	L	mm	580	580	580	580	730	730	830
	W	mm	680	680	680	680	830	830	980
	H	mm	580	580	580	580	730	730	830
PANEL	L	mm	680	680	680	680	830	830	980
	W	mm	250	250	290	290	260	260	290
	H	mm	28	28	28	28	28	28	28

CLEARANCE AREA

TCW 22÷122



NOTES

1. Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
 2. Ambient air temperature 20 °C d.b., water temperature 70/60 °C.
 3. 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 80 °C.
N.B. Inhibited ethylene glycol can be added to the water.

FROM 4,6 KW TO 43 KW.

UTW 63÷544

DUCTABLE FAN COIL UNITS WITH 3-SPEED OR EC INVERTER RADIAL FANS.



The modular Fan Coil units of the UTW series are the ideal solution to meet the air treatment needs of systems including distribution through ducting or directly into the room and installation in false ceilings or in service rooms.

Part of an hydronic system equipped with a liquid Chiller, the UTW modular ductable Fan Coil unit 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.

This product range, available for 2-Pipe and 4-Pipe systems, is complete with various accessories such as: outdoor air intake plenum, mixing section with dampers room delivery plenum for flexible ducts and electrical heating section. Units are available both with 3-Speed and 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.

EC INVERTER FAN

VERSION

UTW

Base unit

UTW/EC

Unit with EC Inverter fans

FEATURES

- Structure in galvanized sheet (63÷274) or in prepainted metal sheet (333÷544), entirely lined with heat/sound insulation material.
- Radial type fan with double intake, statically and dynamically balanced to reduce vibration and noise to a minimum, directly coupled on single-phase 3-Speed electric motor (63÷274) or with belt and pulley transmission, connected to 3-phase single speed electric motor (333÷544).
- Radial type fan with double intake and EC INVERTER fan type (63÷274).
- Heat exchanger in copper pipes and aluminium fins, complete with air vent and drain pan.
- Air filter made of recyclable synthetic material class EU3; inspection is foreseen from the bottom part (63÷274) or side part (63÷544).
- Air bleed valves, positioned on the water connections of the coil, make it possible to bleed air from the coil.
- Electrical board comprising a terminal board for wiring to room control panel and power supply.

ACCESSORIES

LOOSE ACCESSORIES

C	Auxiliary condensate drain pan	DRA	Wall mounted automatic electronic control panel
CW	Auxiliary condensate drain pan for units with WSF accessory	VR	Wall mounted fan speed control panel
AF	Filtering section	TA	Wall mounted ambient thermostat
SF	Supply frame	DRE	Wall mounted electromechanic control panel
GRI/R	Intake grid with air filter	DRV	Wall mounted automatic electronic control panel
BM	Supply grid with adjustable fins	V2	3-Way on/off valve for 2-Pipe system
PR	Intake plenum	V4	3-Way on/off valves for 4-Pipe system
MB	Mixing box with damper		
PM	Supply plenum		
P3	Supply plenum for flexible ducts		
WS	Hot water coil for 4-Pipe system		
WSF	Hot water coil section for 4-Pipe system		
EH1	Supplementary electrical heater section		
EH2	Supplementary electrical heater section		
SM	Servo-motor for damper		

UTW 63÷544

MODEL			63	93	104	133	153	233	274	333	414	464	544
Cooling	Total cooling capacity (1),(2)	kW	4.6	7.5	9.1	10.5	13.1	15.7	20.7	25.9	31.7	38.1	42.8
	Sensible cooling capacity (1),(2)	kW	3.5	6.0	7.1	8.4	9.8	13.0	16.7	20.1	24.6	29.6	33.2
	Water flow (1),(2)	l/h	791	1290	1565	1806	2253	2700	3560	4455	5452	6553	7362
	Pressure drops (1),(2)	kPa	14	19	21	18	24	24	26	29	14	29	26
Heating	Heating capacity (2),(3)	kW	9.8	15.5	19.7	21.6	25.9	35.5	46.3	60.1	75.8	91.8	97.1
	Water flow (2),(3)	l/h	843	1333	1694	1858	2227	3053	3982	5169	6519	7895	8351
	Pressure drops (2),(3)	kPa	23	17	22	35	25	23	32	34	14	39	34
Rows	Quantity	n°	3	3	4	3	3	3	4	3	4	4	4
Water connections	In / Out	"G	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
	Heating capacity (2),(3)	kW	6.8	10.9	11.5	13.5	16.0	20.3	22.2	47.4	58.4	64.0	75.1
Additional coil	Water flow (2),(3)	l/h	585	937	989	1161	1376	1746	1909	4076	5022	5504	6459
	Pressure drops (2),(3)	kPa	10	11	12	15	14	19	23	10	15	10	14
	Rows	n°	2	2	2	2	2	2	2	2	2	2	2
	Water connections (In / Out)	"G	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Air flow	Max (4)	m³/h	1000	1600	1700	2200	2500	3900	4500	5500	6800	7700	9000
	Med (4)	m³/h	800	1200	1300	1800	2000	3000	3800	---	---	---	---
	Min (4)	m³/h	600	850	900	900	1300	1900	2000	---	---	---	---
Air flow (EC version)	Max (4)	m³/h	1000	1600	1700	2200	2500	3900	4500	4500	4500	4500	4500
	Min (4)	m³/h	530	760	810	810	1140	1700	1200	---	---	---	---
	Available static pressure	Pa	80	90	90	95	95	115	115	150	150	150	150
Available static pressure (EC version)	Max (4)	Pa	80	90	90	95	95	115	115	---	---	---	---
	Min (4)	Pa	40	40	40	40	40	55	55	---	---	---	---
	Power supply	V/Ph/Hz	400/3+N/50										
EH1 Electrical heater	Absorbed power	kW	3	4	4	4	6	6	6	---	---	---	---
	Max. absorbed current	A	4.3	8.7	8.7	8.7	13.0	13.0	13.0	---	---	---	---
	Steps	n°	1	1	1	1	1	1	1	---	---	---	---
	Power supply	V/Ph/Hz	400/3+N/50										
EH2 Electrical heater	Absorbed power	kW	6	8	8	8	12	12	12	---	---	---	---
	Max. absorbed current	A	8.7	17.4	17.4	17.4	26.1	26.1	26.1	---	---	---	---
	Steps	n°	1	1	1	1	1	1	1	---	---	---	---
	Power supply	V/Ph/Hz	230/1/50										
Electrical characteristics	Max absorbed power	kW	0.13	0.26	0.26	0.52	0.42	0.42	0.60	0.75	1.10	1.10	1.50
	Power supply	V/Ph/Hz	230/1/50										
Electrical characteristics (EC version)	Max absorbed power	kW	0.13	0.25	0.25	0.45	0.45	0.42	0.60	---	---	---	---
	Max (5)	dB(A)	45	44	45	47	49	51	55	56	57	57	58
Sound pressure	Med (5)	dB(A)	40	38	39	43	44	45	51	---	---	---	---
	Min (5)	dB(A)	34	30	31	28	35	35	37	---	---	---	---
	Max (5)	dB(A)	45	44	45	47	49	51	55	---	---	---	---
Sound pressure (EC version)	Min (5)	dB(A)	33	29	29	29	34	34	35	---	---	---	---
	Transport weight	Kg	29	42	44	57	65	67	70	168	168	173	175
Weights	Operating weight	Kg	27	40	42	55	63	65	68	166	166	171	173

DIMENSIONS			63	93	104	133	153	233	274	333	414	464	544
L	STD/EC	mm	645	1005	1005	1105	1345	1345	1345	1400	1400	1400	1400
W	STD/EC	mm	455	455	455	505	540	540	540	800	800	800	800
H	STD/EC	mm	295	295	295	325	325	375	375	800	800	1050	1050

CLEARANCE AREA

UTW 63÷544



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. 3-phase single speed electrical motors for units 333, 414, 464, 544.
 5. 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.