

DWX 183÷364

DUCTABLE FAN COIL UNITS WITH 5-SPEED OR EC INVERTER CENTRIFUGAL FANS



The ductable Fan Coil units DWX 183÷364 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. Units are built with self-supporting panels ensuring the highest levels of energy efficiency and silence. When part of a hydronic system equipped with a Liquid Chiller, the unit generates cool air silently and with instantaneous reaction. While, during the winter, if combined with a thermal system, it provides warm air, making possible to meet home or business heating needs. A wide range of accessories are available to complete the series, units are available for 2-Pipe and 4-Pipe systems, in two versions, single or double skin panel with self-threading screws to ensure minimum installation time and easy inspection and maintenance. Units are available both with 5-Speed or EC Inverter fan. The units equipped with EC Inverter motor modulate the air flow, adapting the performances instant to instant to the actual needs of the room to be conditioned, assuring a total comfort with greater energy savings.

EC INVERTER FAN

VERSIONS

DWX	DWX/GP
Base unit with single skin panel	Base unit with double skin panel
DWX/EC	DWX/GP/EC
Single skin unit with EC Inverter fans	Double skin panel unit with EC inverter fans

FEATURES

- Single skin panel units are made of extremely thick galvanized steel-sheet resistant to rust, corrosion and chemical agents, with internal thermal-acoustic insulation. Self-supporting and removable panels provided with holes for ceiling/wall mounting directly through the main casing.
- Double skin panel units are provided with 20mm thick panels made of internal galvanized steel-sheet and external pre-painted steel white RAL 9002 colour with glass fiber insulation. Self-supporting and removable panels provided with holes for ceiling/wall mounting directly through the main casing.
- Double inclination drain pan optimised for condensate drainage, provided with drainpipe (on the same side of coil connections) with external thermal heat insulation.
- Heat exchanger coil made of copper pipes and aluminium fins, water connections provided with anti-torsion system, manual air vent and water drain valves.
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to a 5-Speed electric motor, with 3 speeds connected in the standard configuration.
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the EC Inverter electronic motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.
- Universal connecting terminal (mounted).
- Standard water connections on right side based on air flow direction. Reversible on site.

ACCESSORIES

FACTORY FITTED ACCESSORIES

LX	Hydraulic coil connections on the left side
WS	Hot water coil for 4-Pipe system
EH1	Supplementary electrical heater
EH2	Supplementary electrical heater enhanced
AFL1	Flat air filter
AFL2	Air filtering section with flat filter
AFL3	Air filtering section with undulated filter
AFP1	Flat air filter for GP versions
AFP2	Air filtering section with flat filter for GP versions
AFP3	Air filtering section with undulated filter for GP versions
UCB	Universal regulation card with Modbus RTU protocol
SNA	Air temperature sensor for UCB
SNW2	Summer/winter water temperature sensor for UCB
SNW3	Minimum water temperature sensor for UCB

LOOSE ACCESSORIES

C	Auxiliary condensate drain pan
MP	Condensate drain pump
PLR	Cover panel with air intake grill

PLM	Cover panel with air supply grill
PPR	Cover panel with air intake grill for GP versions
PPM	Cover panel with air supply grill for GP versions
P3LM	Supply plenum with round ducts
P3LA	Intake plenum with round ducts
P9LA	Intake plenum with 90° ducts
P9LM	Supply plenum with 90° ducts
P3PM	Supply plenum with round ducts for GP versions
P3PA	Intake plenum with round ducts for GP versions
P9PA	Intake plenum with 90° ducts for GP versions
P9PM	Supply plenum with 90° ducts for GP versions
SSM	Air supply labyrinth noise level silencer section
SSR	Air intake labyrinth noise level silencer section
SPM	Air supply labyrinth noise level silencer section for GP versions
SPR	Air intake labyrinth noise level silencer section for GP versions
MBL	Manual damper with closing 0-33%-100-67%
MBLS	Damper with on/off servo-motor
MBP	Manual damper with closing 0-33%-100-67% for GP versions

MBPS	Damper with on/off servo-motor for GP versions
V23	3-Way on/off valves for 2-Pipe system
V23M	3-Way modulating valves for 2-Pipe system
V22	2-Way on/off valves for 2-Pipe system
V22M	2-Way modulating valves for 2-Pipe system
V43	3-Way on/off valves for 4-Pipe system
V43M	3-Way modulating valves for 4-Pipe system
V42	2-Way on/off valves for 4-Pipe system
V42M	2-Way modulating valves for 4-Pipe system
TA1	Wall mounted electronic ambient thermostat for AC versions
VR1	Wall mounted electronic speed control panel for AC versions
DR1	Wall mounted manual electronic control panel for AC versions
DR2	Wall mounted automatic electronic control panel for AC versions
DRH1	Wall mounted configurable electronic control panel for AC versions
DRH2	Wall mounted configurable electronic control panel for AC/EC versions
IRC	Wall mounted digital control for UCB
MC4	Multicontrol connection card
SNW4	Water temperature sensor
TMB3	Minimum hot water temperature thermostat 32 °C
TMB4	Minimum hot water temperature thermostat 42 °C

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MODEL			183	193	194	263	283	284	343	363	364
Cooling	Total cooling capacity (1)(2)	kW	6.0	6.7	8.4	9.4	10.8	14.4	15.4	18.2	21.9
	Sensible cooling capacity (1)(2)	kW	5.1	5.9	6.2	8.1	9.5	10.4	12.6	14.5	16.4
	Water flow (1)(2)	l/h	1032	1152	1453	1610	1858	2477	2649	3130	3767
	Pressure drops (1)(2)	kPa	29	33	34	20	25	28	21	30	25
Heating	Heating capacity (3)(2)	kW	6.2	7.0	8.2	9.7	11.3	14.2	17.2	20.5	22.9
	Water flow (3)(2)	l/h	1070	1206	1404	1668	1944	2442	2958	3526	3939
	Pressure drops (3)(2)	kPa	32	37	32	22	28	27	26	35	26
Rows	Quantity	n°	3	3	4	3	3	4	3	3	4
Water connections	In / Out	"G 3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Heating capacity (4)(2)	kW	7.6	8.1	---	13.8	14.5	---	19.6	14.5	---
Additional coil	Water flow (4)(2)	l/h	653	697	---	1187	1247	---	1686	1247	---
	Pressure drops (4)(2)	kPa	43	48	---	38	41	---	36	41	---
	Rows	n°	1	1	---	1	1	---	1	1	---
	Hydraulic connections (In / Out)	"G 3/4"	3/4"	3/4"	---	3/4"	3/4"	---	3/4"	3/4"	---
Air flow	Max	m³/h	1190	1260	1240	2000	2425	2408	3690	3660	3640
	Med	m³/h	1040	1160	1145	1620	1980	1960	3220	3380	3330
	Min	m³/h	720	840	835	960	1280	1270	2400	2830	2800
Air flow (EC version)	Max	m³/h	1190	1260	1240	2000	2425	2408	3690	3660	3640
	Min	m³/h	720	840	835	960	1280	1270	2400	2830	2800
Available static pressure	Max	Pa	66	59	59	76	64	61	63	56	56
	Med	Pa	50	50	50	50	50	50	50	50	50
	Min	Pa	24	26	29	18	20	21	27	35	36
Available static pressure (EC version)	Max	Pa	66	59	59	76	64	61	63	56	56
	Min	Pa	24	26	29	18	20	21	27	35	36
EH1 Electrical heater	Power supply	V/Ph/Hz	230/1/50-60								
	Absorbed power	kW	2	2	2	2	2	2	2	2	2
	Max absorbed current	A	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	Steps	n°	1	1	1	1	1	1	1	1	1
EH2 Electrical heater	Power supply	V/Ph/Hz	230/1/50-60								
	Absorbed power	kW	4	4	4	4	4	4	4	4	4
	Max absorbed current	A	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
	Steps	n°	1	1	1	1	1	1	1	1	1
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50-60								
	Max absorbed power	kW	0.27	0.27	0.27	0.57	0.57	0.57	0.84	0.84	0.84
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	230/1/50-60								
	Max absorbed power	kW	0.18	0.18	0.18	0.40	0.40	0.40	0.55	0.55	0.55
Sound pressure intake side	Max (5)	dB(A)	54	55	55	56	57	57	58	59	59
	Med (5)	dB(A)	48	49	49	53	54	54	56	57	57
	Min (5)	dB(A)	42	43	43	45	46	46	54	55	55
Sound pressure supply side	Max (5)	dB(A)	53	54	54	55	56	56	57	58	58
	Med (5)	dB(A)	47	48	48	52	53	53	55	56	56
	Min (5)	dB(A)	41	42	42	44	45	45	53	54	54
Sound pressure intake side (EC version)	Max (5)	dB(A)	54	55	55	56	57	57	58	59	59
	Min (5)	dB(A)	42	43	43	45	46	46	54	55	55
Sound pressure supply side (EC version)	Max (5)	dB(A)	53	54	54	55	56	56	57	58	58
	Min (5)	dB(A)	41	42	42	44	45	45	53	54	54
Weights	Transport weight	kg	43	44	46	60	62	66	78	81	84
	Operating weight	kg	37	38	40	52	54	57	68	70	73
Weight (GP version)	Transport weight	kg	60	61	63	82	84	87	105	107	110
	Operating weight	kg	52	53	55	71	73	76	91	93	96

DIMENSIONS			183	193	194	263	283	284	343	363	364
L	STD	mm	800	800	800	1200	1200	1200	1600	1600	1600
	GP	mm	840	840	840	1240	1240	1240	1640	1640	1640
W	STD	mm	605	605	605	605	605	605	605	605	605
	GP	mm	625	625	625	625	625	625	625	625	625
H	STD	mm	275	275	275	275	275	275	275	275	275
	GP	mm	315	315	315	315	315	315	315	315	315

CLEARANCE AREA

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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 45/40 °C.
 - 4 Ambient air temperature 20 °C d.b., water temperature 65/55 °C.
 - 5 Sound pressure level measured at 1 m from the unit with reverberation time 0.5 s.
- N.B. Maximum inlet water temperature 90 °C.
N.B. Inhibited ethylene glycol can be added to the water.
N.B. Maximum operating pressure 1500 kPa.