

TXW 132÷284

WATER CASSETTE 3-SPEED OR EC INVERTER RADIAL FAN



The Water Cassette TXW 132÷284 have been projected to be installed on false ceiling. The intuitive design makes installation and maintenance process easier, while guaranteeing the highest levels of energy efficiency and silence, both in domestic environments or in the services sector including offices, hotels, restaurants, gyms and shops. When part of a hydronic system equipped with a Liquid Chiller, the Water Cassette generates cool air, while, during the winter, if combined with a thermal system, it provides warm air, making possible to meet home or business heating needs. The series, in addition to having a rich set of accessories to complete the unit, also has an attractive and modern intake grill cover panel, with neutral and well-balanced shapes that integrates perfectly in the surrounding environment as well as adjustable deflectors to distribute the air in the room in an ideal manner. Units are available both with 3-Speed and EC Inverter fans. 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

TXW

Base unit for 2-Pipe system

TXW/WS

Base unit for 4-Pipe system

TXW/EC

Unit with EC Inverter fan for 2-Pipe system

TXW/WS/EC

Unit with EC Inverter fan for 4-Pipe system

FEATURES

- Bearing structure made of extremely thick galvanized steel-sheet with internal thermo-acoustic insulation. External brackets on the four corners for easy fixing to the roof.
- Cover panel made of ABS, white RAL 9003 color, designed with the "Hook & Fix" coupling system. Central air intake grill with four manually adjustable air supply side flaps. Friction snap flaps, to ensure stable and uniform positioning.
- Predisposition with fresh air connection and with supply air connection.
- Air conveyor and drain pan made by ABS to guarantee strength and long life. Condensate drain pan obtained in a single piece, equipped with a drain with cap for the total emptying in case of maintenance.
- Centrifugal type condensate pump, including no-return valve to avoid frequent on/off and a two-level floater for the control of the condensate level and for alarm activation.
- Heat exchanger coil made of copper pipes and hydrophilic aluminium fins for a better evacuation of the condensate, manual air vent and water drain valves.
- Air filter easy to remove and to wash, made of a metal frame holding filtering section.
- Radial fan with wing profile blades and built-in 3-Speed electric motor.
- Radial fan with wing profile blades and built-in EC Inverter electric motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.
- Universal connecting terminal (mounted).

ACCESSORIES

FACTORY FITTED ACCESSORIES

EH	Supplementary electrical heater
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
IRT	Motherboard with IR receiver and remote control for AC versions

LOOSE ACCESSORIES

GR	Cover panel with grill
C	Auxiliary condensate drain pan
SFA	Air renewal flange
SFD	Duct connection flange

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

TXW 132÷284

MODEL			132	142	153	163	174	184	253	263	274	284
Cooling 2-Pipe unit	Total cooling capacity (1)	kW	2.5	3.0	4.2	4.7	5.3	5.9	8.0	8.9	10.0	11.2
	Sensible cooling capacity (1)	kW	2.0	2.5	3.2	3.7	3.7	4.2	6.1	6.9	7.1	8.1
	Water flow (1)	l/h	431	522	728	810	909	1013	1383	1539	1727	1925
	Pressure drops (1)	kPa	7	10	12	15	16	20	16	19	20	23
Heating 2-Pipe unit	Heating capacity (2)	kW	3.0	3.7	4.8	5.3	5.3	5.9	9.1	9.9	10.1	11.2
	Water flow (2)	l/h	512	628	820	918	905	1014	1557	1717	1745	1927
	Pressure drops (2)	kPa	8	12	13	17	14	17	17	17	20	20
Cooling 4-Pipe unit	Total cooling capacity (1)	kW	2.5	3.0	4.2	4.7	5.3	5.9	8.0	8.9	10.0	11.2
	Sensible cooling capacity (1)	kW	2.0	2.5	3.2	3.7	3.7	4.2	6.1	6.9	7.1	8.1
	Water flow (1)	l/h	431	522	728	810	909	1013	1383	1539	1727	1925
	Pressure drops (1)	kPa	7	10	12	15	16	20	16	19	20	23
Heating 4-Pipe unit	Heating capacity (3)	kW	3.5	4.3	4.6	5.2	4.6	5.2	8.8	10.0	8.8	10.0
	Water flow (3)	l/h	298	366	400	448	400	448	760	851	760	851
	Pressure drops (3)	kPa	12	19	22	28	22	28	25	30	25	30
Cooling 2-Pipe unit (EC version)	Total cooling capacity (1)	kW	---	3.0	---	4.7	---	5.9	---	8.9	---	11.2
	Sensible cooling capacity (1)	kW	---	2.5	---	3.7	---	4.2	---	6.9	---	8.1
	Water flow (1)	l/h	---	522	---	810	---	1013	---	1539	---	1925
Heating 2-Pipe unit (EC version)	Heating capacity (2)	kW	---	3.7	---	5.3	---	5.9	---	10.1	---	11.2
	Water flow (2)	l/h	---	628	---	918	---	1014	---	1745	---	1927
	Pressure drops (2)	kPa	---	12	---	17	---	17	---	20	---	20
Cooling 4-Pipe unit (EC version)	Total cooling capacity (1)	kW	---	---	---	4.7	---	5.9	---	8.9	---	11.2
	Sensible cooling capacity (1)	kW	---	---	---	3.7	---	4.2	---	6.9	---	8.1
	Water flow (1)	l/h	---	---	---	810	---	1013	---	1539	---	1925
	Pressure drops (1)	kPa	---	---	---	15	---	20	---	19	---	23
Heating 4-Pipe unit (EC version)	Heating capacity (2)	kW	---	---	---	5.2	---	5.2	---	10.0	---	10.0
	Water flow (2)	l/h	---	---	---	448	---	448	---	851	---	851
	Pressure drops (2)	kPa	---	---	---	28	---	28	---	30	---	30
Water connections	2-Pipe (In / Out)	"G 3/4"	3/4"	3/4"	3/4"	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"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Air flow	Max	m³/h	580	652	772	868	772	868	1544	1737	1544	1737
	Med	m³/h	404	454	644	724	644	724	1288	1449	1288	1449
	Min	m³/h	280	315	424	477	424	477	848	954	848	954
Air flow (EC version)	Max	m³/h	---	652	---	868	---	868	---	1737	---	1737
	Min	m³/h	---	315	---	477	---	477	---	954	---	954
Electrical heater	Power supply	V/Ph/Hz	230/1/50-60				---		230/1/50-60		---	
	Absorbed power	kW	1.5	1.5	1.5	1.5	---	---	3.0	3.0	---	---
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50-60									
	Max absorbed power	kW	0.05	0.05	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	---	230/1/50-60	---	230/1/50-60	---	230/1/50-60	---	230/1/50-60	---	230/1/50-60
	Max absorbed power	kW	---	0.07	---	0.07	---	0.07	---	0.15	---	0.15
Sound pressure	Max (4)	dB(A)	42	42	48	48	48	48	51	51	51	51
	Med (4)	dB(A)	32	32	44	44	44	44	47	47	47	47
	Min (4)	dB(A)	26	26	33	33	33	33	36	36	36	36
Sound pressure (EC version)	Max (4)	dB(A)	---	42	---	48	---	48	---	51	---	51
	Min (4)	dB(A)	---	26	---	33	---	33	---	36	---	36
Weights 2-Pipe	Body Transport weight	kg	20	20	21	21	22	22	40	40	42	42
	Body operating weight	kg	17	17	18	18	19	19	35	35	37	37
	Panel transport weight	kg	2	2	2	2	2	2	5	5	5	5
	Panel operating weight	kg	2	2	2	2	2	2	4	4	4	4
Weights 4-Pipe	Body Transport weight	kg	21	21	21	21	22	22	41	41	43	43
	Body operating weight	kg	18	18	18	18	19	19	36	36	38	38
	Panel transport weight	kg	2	2	2	2	2	2	5	5	5	5
	Panel operating weight	kg	2	2	2	2	2	2	4	4	4	4

DIMENSIONS			132	142	153	163	174	184	253	263	274	284
L	BODY	mm	570	570	570	570	570	570	1160	1160	1160	1160
	PANEL	mm	630	630	630	630	630	630	1225	1225	1225	1225
W	BODY	mm	570	570	570	570	570	570	570	570	570	570
	PANEL	mm	630	630	630	630	630	630	630	630	630	630
H	BODY	mm	250	250	250	250	250	250	250	250	250	250
	PANEL	mm	30	30	30	30	30	30	30	30	30	30

CLEARANCE AREA

TXW 132÷184

TXW 253÷284



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 45/40 °C.
 - 3 Ambient air temperature 20 °C d.b., water temperature 65/55 °C.
 - 4 Sound pressure level measured at 1 m from the unit with reverberation time 0,5 s.
- N.B. Maximum inlet water temperature 75 °C.
N.B. Inhibited ethylene glycol can be added to the water.
N.B. Maximum operating pressure 1500 kPa.