

CWK - K

As18 1W ↔ F180 1W



Chilled water units



Configuration

- O - Upflow
- U - Downflow

Operation

- SF - Cooling only

Solution

- K - Comfort

Cooling Capacity 18 - 177 kW

Housing	Base and panelling made of galvanised steel painted with epoxy powder; frame complete with service panels designed to grant proper operation during maintenance. The aesthetic panelling is internally lined to reduce the noise level.
Air heat exchanger	Air heat exchanger made of copper tubes arranged in staggered rows. The fins are made of aluminum with a special hydrophilic treatment for better drainage of the condensate and therefore better heat exchange.
Fan	Centrifugal type with two suctions, directly coupled to the motor which is of external rotor type and is fixed by vibration isolation mountings. The fans have forward curved blades
Cooling circuit	3-way valve for the control of the chilled water flow and the air temperature.
Filter	Folded type, mounted on a frame, with protection grille. Filtering cells in polyester fibers. G4 efficiency according to CEN-EN 779 norm; with 90,1% ASHRAE separation degree. The filter is of selfextinguish type.
Electrical board	It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator.
Control panel	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms. Advanced electronic control is standard.

ACCESSORIES

- Water heating coil
- Electric heating coil
- Contacts for smoke/fire alarm
- Upgrading electronic control (standard)
- F5 efficiency air folded filter
- Special filter plenum for air outlet (from F6 to F9)
- Air supply plenum with two directions adjustable grilles
- Max and min voltage relay
- Clock board
- LonWorks® interface electronic board
- ModBus® interface electronic board
- Water on the bottom alarm
- Dirty filters alarm
- Low air flow alarm
- Non return air damper
- Vibration isolation frame with bearings (H 285-400mm.)
- Remote control panel
- Modulating humidifier (water conductivity 350...750 µS/cm)
- Sound absorber plenum

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CWK Comfort		As18 1W	As24 1W	A034 1W	Bs44 1W	B064 1W	C090 1W	D110 1W	E140 1W	E150 1W	F180 1W
Total cooling capacity(1)	kW	18	24	36	45	64	88	109	140	146	177
Sensible cooling capacity(1)	kW	13	17	26	32	45	62	77	99	104	126
Power supply	-	230V/1/50Hz +T				400V/3+N/50Hz +T					
Air flow	m3/h	2300	3200	5000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	100	100	100	100	170	100	170	100	170	100
Fans quantity	n°	1	1	2	2	2	2	2	3	3	4
Fans power input	kW	0,3	0,5	0,8	0,8	1,2	1,4	2,4	2,3	3,3	2,8
Fans total current	A	3,6	3,6	3,6	3,6	5,0	7,0	11,0	10,8	16,2	14,0
Front sound pressure OVER(2)	dB(A)	51	51	52	52	55	58	64	64	65	68
Front sound pressure UNDER(2)	dB(A)	48	48	49	49	52	55	61	61	62	65
Cooling coil pressure drop	kPa	50	58	65	68	88	56	64	89	104	154
Water connections diameter	"	3/4"	3/4"	1"	1"	1"1/4	1"1/2	2"	2"	2"1/2	2"1/2

ELECTRIC COIL											
Stages of operation	n°	1	1	2	2	2	2	2	2	2	2
Power	kW	3,0	3,0	6,0	6,0	6,0	9,0	12,0	18,0	18,0	18,0
Absorbed current	A	4,4	4,4	8,7	8,7	8,7	13,0	17,4	26,0	26,0	26,0

HUMIDIFIER											
Capacity	kg/h	1 - 3	1 - 3	1 - 3	1 - 3	5 - 8	5 - 8	5 - 8	10 - 15	10 - 15	10 - 15
Power	kW	2,3	2,3	2,3	2,3	6,2	6,2	6,2	11,3	11,3	11,3
Absorbed current	A	3,2	3,2	3,2	3,2	8,7	8,7	8,7	16,2	16,2	16,2

DIMENSIONS AND WEIGHT											
Lenght	mm	700	700	880	880	1140	1320	1760	2200	2200	2640
Depth	mm	485	485	485	700	700	840	840	840	840	840
Height	mm	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Operating weight	Kg	140	150	175	235	275	300	440	550	570	750

Note:

(1) Air inlet 26,7°C / 50% U.r. - IN-OUT chilled water temperature = 7°C / 12°C

(2) Data measured at 1m in open field conditions

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT.