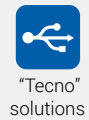


# CWK - T/EC



As09 1W ↔ F090 1W

Chilled water units



## Configuration

- O - Upflow
- U - Downflow

## Operation

- SF - Cooling only

## Solution

- T - Technological

Cooling Capacity 9 - 89 kW

Double Power capacity 6,6 - 51,4 kW

<b>Housing</b>	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.
<b>Air heat exchanger</b>	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 ("V" configuration).
<b>Fan</b>	Fan units are new-generation; plug fan type with "EC" motor with electronic commutation in order to maximize energy savings and adjust the amount of air necessary.
<b>Cooling circuit</b>	3-way valve for the control of the chilled water flow and the air temperature.
<b>Filter</b>	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.
<b>Electrical board</b>	It is designed and wired according to IEC 204-1/EN60204-1 regulations, complete with contactor and protection for compressors and fans, main isolator.
<b>Control panel</b>	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
- 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

# CWK - T/EC

As09 1W ↔ F090 1W

Chilled water units

CWK Tecno EC		As09 1W	As12 1W	A018 1W	Bs24 1W	B032 1W	C044 1W	D055 1W	E070 1W	E076 1W	F090 1W
Total cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
Sensible cooling capacity(1)	kW	9	12	18	23	32	44	55	71	76	89
R Factor	-	1	1	1	1	1	1	1	1	1	1
Double Power - Tot. cap./Sens. cap.(3)	kW	6,6/5,9	8,5/7,4	9,8/8,6	13,4/11,5	17,9/15,4	24,1/21,2	31,3/27,6	44,9/38,7	49,0/42,4	51,4/44,3
Power supply	-	400V/3+N/50Hz+T									
Air flow	m3/h	2300	3200	5000	6000	8500	12000	15000	18600	21000	24000
External static pressure	Pa	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300	30 - 300
Fans quantity	n°	1	1	1	1	2	2	3	3	3	3
Fans power input	kW	0,4	0,8	1,2	1,3	2,4	2,6	3,3	3,6	4,1	5,4
Fans total current	A	0,8	1,3	1,9	2,0	3,8	4,0	5,1	5,4	6,3	8,4
Front sound pressure OVER(2)	dB(A)	52	52	53	53	56	60	66	67	69	70
Front sound pressure UNDER(2)	dB(A)	49	49	50	50	53	57	63	64	66	67
Cooling coil pressure drop	kPa	25	30	34	35	46	29	33	46	53	80
Water connections diameter	"	3/4"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2	2"	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	1 - 3	5 - 8	5 - 8	5 - 8	5 - 8	10 - 15
Power	kW	2,3	2,3	2,3	2,3	2,3	6,2	6,2	6,2	6,2	11,3
Absorbed current	A	3,2	3,2	3,2	3,2	3,2	8,7	8,7	8,7	8,7	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 24,0°C / 50% U.r. - IN-OUT chilled water temperature = 10°C / 15°C
  - (2) Data measured at 1m in open field conditions
  - (3) Air inlet 24°C / 50% U.r. - Water and Ethylenic Glycol 30% 12/7°C (13/7°C from size "D")
- THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE FAN MOTOR POWER INPUT.