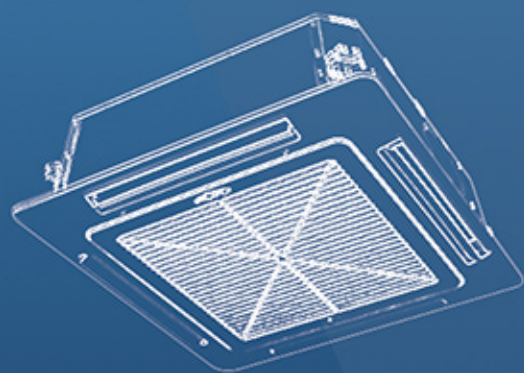




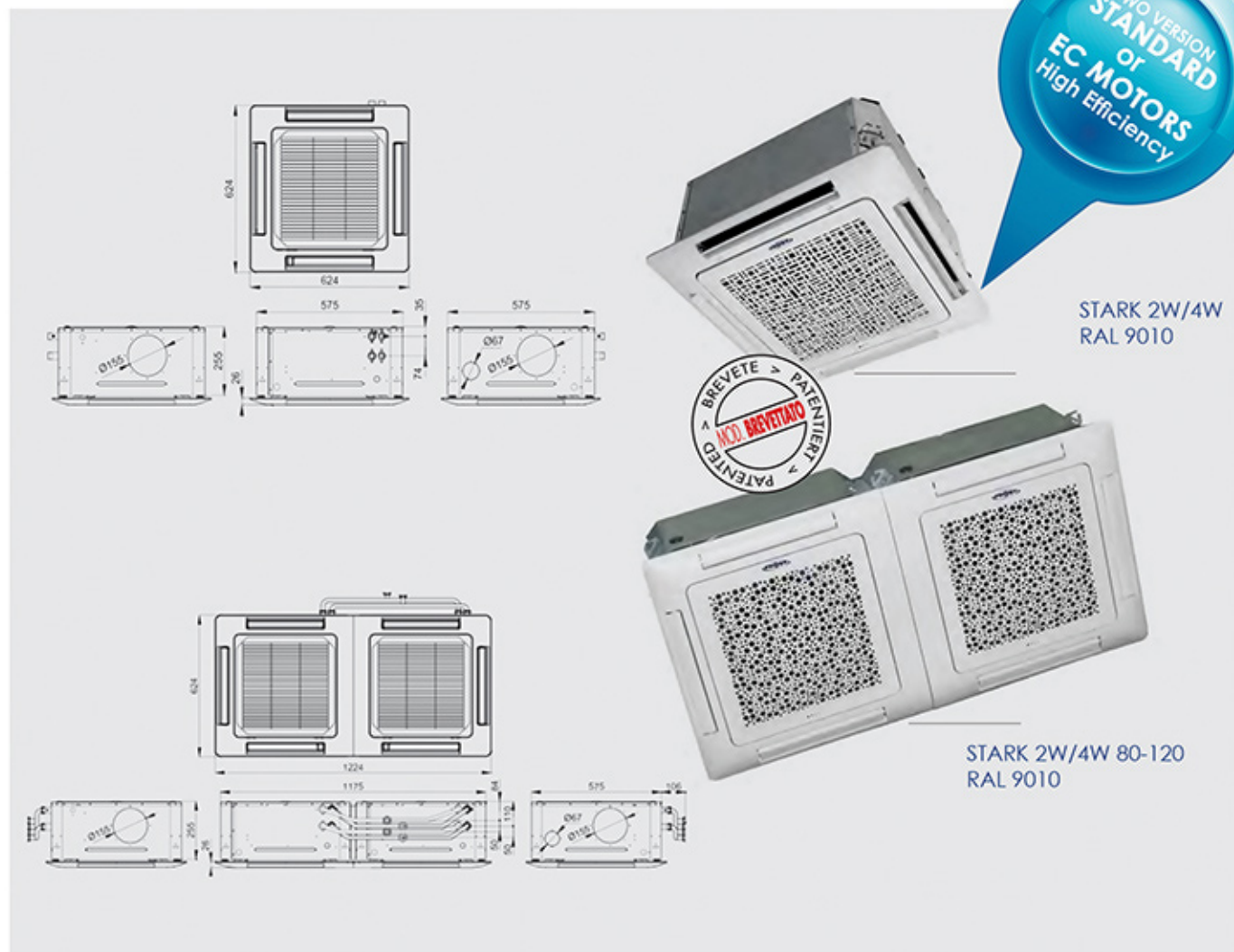
# FAN COIL AIR CONDITIONERS



## HYDRONIC TERMINAL UNITS

### WATER CASSETTES

Ceiling indoor installation  
Capacities: 2,45 ÷ 10,70 Kw  
2/4 pipes version



The water cassettes **STARK** model have been designed and manufactured by FROST ITALY to meet two requirements: high performance with low noise, innovative design, and compatible with any environment. Two versions with 2 and 4-pipes available. The units allow optimized consistent air during both summer and winter periods, due to the efficient fan, which has been purposely designed for this function and the adjustable fins. The size of the chassis and the external panel are in keeping with European standards for ceiling mounted units. The installation is very simple and quick, due to the patented device designed for rapid installation, avoiding typical drawbacks installation practices. **NEWS: version with BRUSHLESS motor** with permanent magnets, combined with an electronic board for speed rotation control. It ensures less consumption up to 80% with high performances and low noise.

## REFERENCE CONDITIONS

### \*COOLING

- water inlet 7°C
- water outlet 12°C
- air 27°C
- relative humidity 47%

### \*HEATING

- (2W) 2 pipes: water inlet 70°C > outlet 60°C
- air 20°C
- same cooling water flow

### SOUND PRESSURE LEVEL

measured from 1.5 m of the unit in a closed place, in semireverberation room, time of reverberation 0,50s, 2 directional factor.

### FUNCTIONING LIMITS:

- Maximum inlet water temperature 80°C
- Maximum working pressure 14 bar

## FAN COIL

### STARK STANDARD

### STARK EC

STARK WITHOUT DRAIN PUMP

FAN

WHB

DAT

FC/NC

FMF





Infrared remote control



Wall mounted thermostat



Embedding room thermostat with display



Building management system



**STARK 2W/4W**  
**RAL 9010**

**TECHNICAL DATA**
**2 PIPES SYSTEM / 3 ROWS**

MODEL		2W-25	2W-46	2W-57	2W-67	2W-80	2W-120
Total-Sens.cooling capacity	Max kW	2,45-2,02	4,26-3,19	5,35-3,95	5,91-4,43	8,16-6,08	10,7-7,95
	Med kW	2,34-1,89	3,64-2,61	3,80-2,68	4,16-2,95	6,42-4,54	8,00-5,68
	Min kW	2,22-1,76	3,39-2,40	3,53-2,46	3,87-2,71	5,96-4,18	6,94-4,74
Heating capacity	Max kW	3,36	5,63	6,10	7,10	10,84	14,16
	Med kW	3,15	4,50	4,41	5,03	7,74	9,56
	Min kW	2,93	4,10	4,02	4,16	7,02	7,78
Air flow	Max m3/h	660	680	770	890	1280	1570
	Med m3/h	590	510	510	570	850	1000
	Min m3/h	525	455	455	455	760	800
cooling water flow	l/h	420	733	920	1.015	1.402	1.840
Heating water flow	l/h	420	733	920	1.015	1.402	1.840
Cooling water pressure drop	kPa	7,9	20,1	31,7	38,7	18,5	31,7
Heating water pressure drop	kPa	7,9	20,1	31,7	38,7	18,5	31,7
Sound level	Min-Med-Max dB(A)	33,5-37-39,5	31-32-41	31-32-44	31-35-46	34,5-37,5-48	35-40-51
max input power	STANDARD W	75,3	98,4	98,4	112,3	2x98,4	2x112,3
Max Absorbed electrical current	STANDARD A	0,36	0,46	0,52	0,58	1,04	1,16
Max input power	EC W	13,90	27,90	43,80	54,30	95,40	132,0
Max Absorbed electrical current	EC A	0,13	0,26	0,37	0,44	0,82	1,05
power supply		V-ph-Hz 230-1+N+PE-50					
feeding cables section	mm2	1,5					
Hydraulic connections without valves	∅	3/4" M				3/4" F	
Dimensions	[LxBxH] cm	57,5x57,5x25,5				117,5x57,5x25,5	
Dimensions external panel	[LxBxH] cm	62,4x62,4x2,6				122,4x62,4x2,6	
Total Weight	kg	24-25				48-50	

**FAN COIL**
**STARK STANDARD**
**STARK EC**

STARK WITHOUT DRAIN PUMP

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WHB

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**4 PIPES SYSTEM / (3+1) ROWS**

MODEL		4W-20	4W-50	4W-58	4W-80	4W-120	
Total-Sens.cooling capacity	Max kW	3,05-2,34	4,29-3,40	4,66-3,75	6,60-5,10	7,52-5,92	
	Med kW	2,98-2,18	3,55-2,66	3,79-2,82	5,36-3,90	6,04-4,44	
	Min kW	2,73-2,02	3,14-2,29	3,34-2,42	5,02-3,60	5,30-3,80	
Heating capacity	Max kW	3,57	5,30	5,76	7,72	10,42	
	Med kW	3,35	4,02	4,06	6,08	7,94	
	Min kW	3,13	3,51	3,54	5,68	6,88	
Air flow	Max m3/h	570	864	1.000	1.280	1.570	
	Med m3/h	510	640	640	850	1.000	
	Min m3/h	455	510	510	760	800	
cooling water flow	l/h	525	738	800	1.133	1.293	
Heating water flow	l/h	307	463	503	675	911	
Cooling water pressure drop	kPa	11,0	20,5	23,5	12,6	16,0	
Heating water pressure drop	kPa	4	7,95	9,2	5	7,7	
Sound level	Min-Med-Max dB(A)	31-32-35	32-37,5-45,5	32-37,5-48,5	34,5-37,5-48	35-40-51	
max input power	STANDARD W	75,3	112,3	71,2	2x98,4	2x112,3	
Max Absorbed electrical current	STANDARD A	0,36	0,58	0,65	1,04	1,16	
Max input power	EC W	17,3	51,50	82,4	95,40	132,0	
Max Absorbed electrical current	EC A	0,16	0,45	0,64	0,82	1,05	
power supply		V-ph-Hz 230-1+N+PE-50					
feeding cables section	mm2	1,5					
Hydraulic connections without valves	∅	3/4" M				3/4" F	
Dimensions	[LxBxH] cm	57,5x57,5x25,5				117,5x57,5x25,5	
Dimensions external panel	[LxBxH] cm	62,4x62,4x2,6				124,4x62,4x2,6	