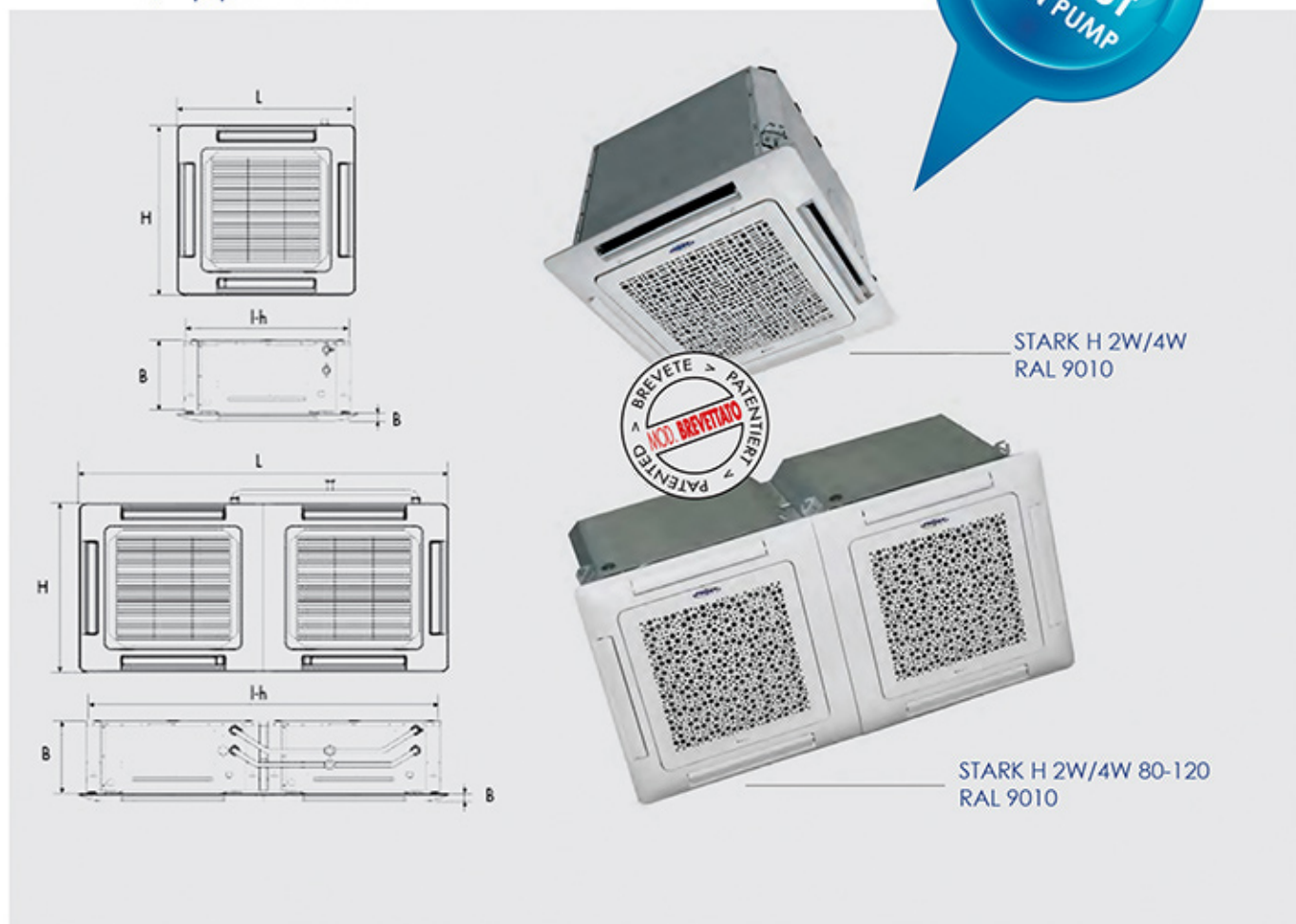


HYDRONIC TERMINAL UNITS

HIGH MODEL WITHOUT DRAIN PUMP

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



STARK

WITHOUT

DRAIN PUMP

The water cassettes **STARK WITHOUT PUMP** have a particular function which allows to drain the condensing water by gravity and in a natural way. This type of cassette unit is ideal for any environment and public premises, due to the minor request of maintenance, to the low energy consumption and to the low noise. The range of models is the same as for the standard cassette units and the wide availability of accessories makes the cassette units mod. STARK extremely versatile and adaptable to any type of request.

FAN COIL

STARK
STANDARD

STARK EC

STARK
WITHOUT
DRAIN
PUMP

FAN

WHB

DAT

FC/NC

FMF

REFERENCE CONDITIONS

*COOLING

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

*HEATING

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

SOUND PRESSURE LEVEL

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

FUNCTIONING LIMITS:

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



Infrared remote control

Wall mounted thermostat

Embedding room thermostat with display

Building management system



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 m ³ /h	660	680	770	890	1280	1570
	Med m ³ /h	590	510	510	570	850	1000
	Min m ³ /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	W	75,3	98,4	98,4	112,3	2x98,4	2x112,3
Max Absorbed electrical current	A	0,36	0,46	0,52	0,58	1,04	1,16
power supply		V-ph-Hz 230-1+N+PE-50					
feeding cables section	mm ²	1,5					
Hydraulic connections without valves	∅	3/4" M				3/4" F	
Dimensions	[LxBxH] cm	57,5x57,5x44,0				117,5x57,5x44,0	
Dimensions external panel	[LxBxH] cm	62,4x62,4x2,6				122,4x62,4x2,6	


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WITHOUT
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PUMP**

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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	7,9	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	W	75,3	112,3	71,2	2x98,4	2x112,3
Max Absorbed electrical current	A	0,36	0,58	0,65	1,04	1,16
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	57,5x57,5x44,0			117,5x57,5x44	
Dimensions external panel	[LxBxH] cm	62,4x62,4x2,6			122,4x62,4x2,6	