Refrigeration cassette

KRS
KRS-W

NEW

E Solutions
Efficiency • Environment

Reduced sound

- The KRS direct expansion or glycol water (KRS-W) refrigeration cassettes are designed for use in air locks, laboratories, workplaces, etc…
They meet all workplace requirements:
aesthetic quality, ventilation, hygiene and noise level.
- The 2 models in this line cover a capacity range from 1,5 to 9 kW.
- The standard, pre-wired 3-speed motor enables accurate adjustment of the air flow-rate.
- The 4 adjustable deflectors enable homogenous distribution of air in all directions.

HEATCRAFT™ Worldwide Refrigeration

FRIGA-BOHN

HK® REFRIGERATION

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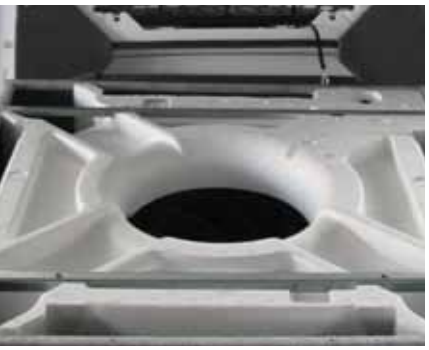


Ventilation

• The KRS product range is equipped with 6-speed centrifugal fans with high static pressure and air flow efficiency.
• The 3 speeds are factory pre-wired for each model.
It is possible to select 3 other intermediate speeds according to the noise level requirements (refer to the table opposite).
• The motors are of the type single-phase, 230V, 50Hz, class B, with built-in thermal overload protection.
• The fan blades are specially designed for this range and provide a high flow-rate while guaranteeing a low noise level.

Coil

• The high-performance and compact finned coils are composed aluminum fins in a sinusoidal profile crimped to copper pipes:

Aluminum fins	KRS	KRS-W
Fin spacing	2,81 mm	2,1 mm (KRS-W1) 1,81 mm (KRS-W2)
Epoxy protection	yes	no
Grooved copper pipes	yes	no

Condensate suction pump

• The KRS cassettes are supplied with a condensate lift pump and float to trigger pump operation.
• The maximum suction height is 650 mm in relation to the pump height.

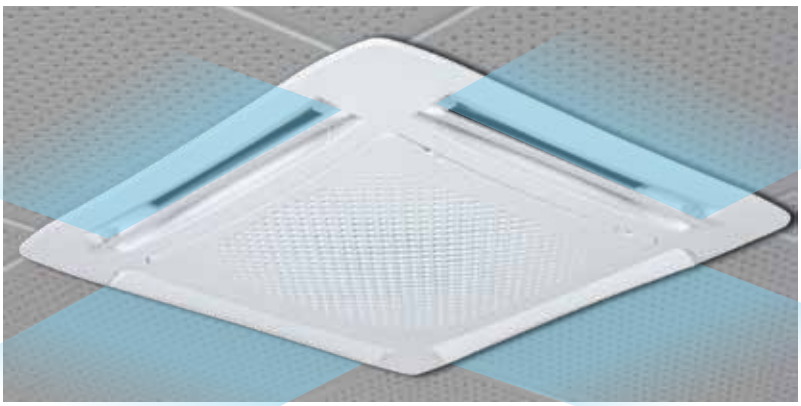
Description

Casing

• The casing used for the KRS product range is made of galvanised sheet steel with insulation lining: interior with a polystyrene shell and exterior with a thick layer of closed-cell foam.
• They are designed to offer easy access to all components.
• They are equipped with a drip tray under the coil.

Diffuser

• Its high aesthetic quality is perfectly adapted to all working environments.
• Made of smooth, ABS (RAL 9003), it has an interior insulation lining to eliminate the risk of condensation.
• It is equipped with an easily accessible, washable filter.
• A manually adjustable deflector system enables distribution of the air flow in four directions.



KRS 1 refrigeration cassette incorporated into a false ceiling.

Nomenclature

KRS(1)**-W**(2) **1**(3)

(1) Silent refrigeration cassette
(2) **KRS** : direct expansion - **KRS-W** : glycol water
(3) **KRS 1** : casing 600 x 600 mm - **KRS 2** : casing 800 x 800 mm

ISO 9001 - Our company is certified by LRQA to comply with quality standards ISO 9001.

RoHS - WEEE - Our products are compliant with regards to european guideline 2002/95/CE and 2002/96/CE concerning electric and enlectronic components.

CE - Our products are in conformity with european guidelines.

GOST - Products in conformity with "GOST" agreement.

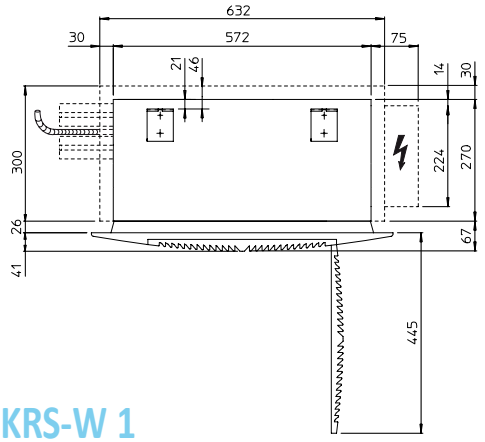
"According the requirements of the European measures, we draw your attention to the fact that our technical documents are at least translated into french and english. For any translation in another language such as the end user can require it, thank you to consult us."

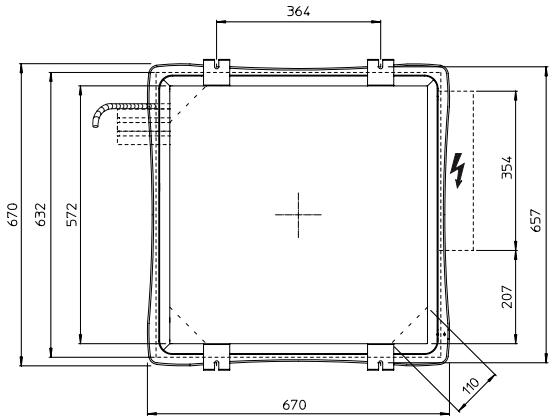
KRS / KRS-W

Motor speeds*			V1	-	-	V2	-	V3	V1	-	V2	-	-	V3
			ST	NW	NW	ST	NW	ST	ST	NW	ST	NW	NW	ST
Direct expansion			KRS 1						KRS 2					
Capacity (1)	DT1 = 10K - tA1 = 8°C	kW	1,5	2,0	2,1	2,4	2,7	3,3	3,3	4,0	4,9	5,5	6,1	6,6
Q0m - HR = 85 %	DT1 = 12K - tA1 = 12°C	kW	2,1	2,6	2,8	3,2	3,5	4,3	4,3	5,2	6,4	7,2	8,1	8,7
Air flow		m3/h	300	409	453	530	620	850	700	900	1200	1400	1680	1880
Connections	inlet	Ø OD	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	outlet	Ø OD	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Glycol water (2)			KRS-W 1						KRS-W 2					
Capacity (1)	DT1 = 10K - tA1 = 12°C	kW	1,6	1,9	2,1	2,3	2,5	2,8	3,3	3,9	4,5	4,8	5,1	5,2
Air flow		m3/h	320	430	500	610	710	880	710	970	1280	1500	1675	1820
Connections	inlet	Ø OD	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	outlet	Ø OD	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
			KRS 1 / KRS-W 1						KRS 2 / KRS-W 2					
Acoustic	Lp (2)	dB(A)	26	33	35	38	42	49	25	31	37	41	44	47
	Lw(A)	dB(A)	40	47	49	52	56	63	39	45	51	55	58	61
Circuit volume		dm3	2	2	2	2	2	2	4	4	4	4	4	4
Fans 230V/1/50 Hz		Num.	1	1	1	1	1	1	1	1	1	1	1	1
		W max	100	100	100	100	100	100	170	170	170	170	170	170
		A max	0,45	0,45	0,45	0,45	0,45	0,45	0,74	0,74	0,74	0,74	0,74	0,74
Net weight	casing + diffuser	kg	28	28	28	28	28	28	46	46	46	46	46	46

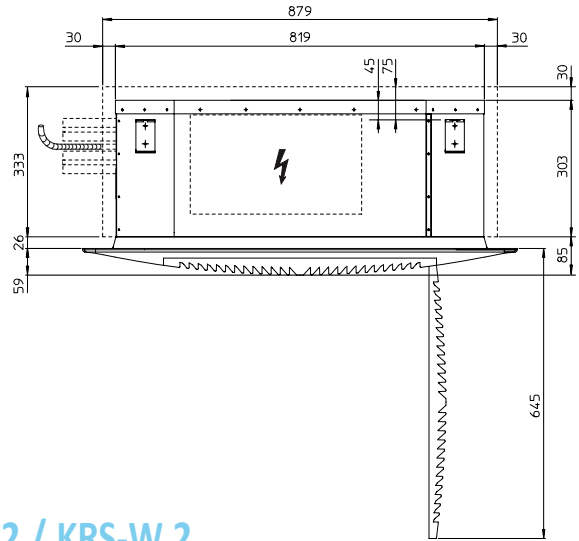
* ST : Standard, pre-wired motor speeds
NW : Non pre-wired intermediate motor speeds (if a non pre-wired speed is required, have the connections carried out by a qualified installer > refer to installation instructions).

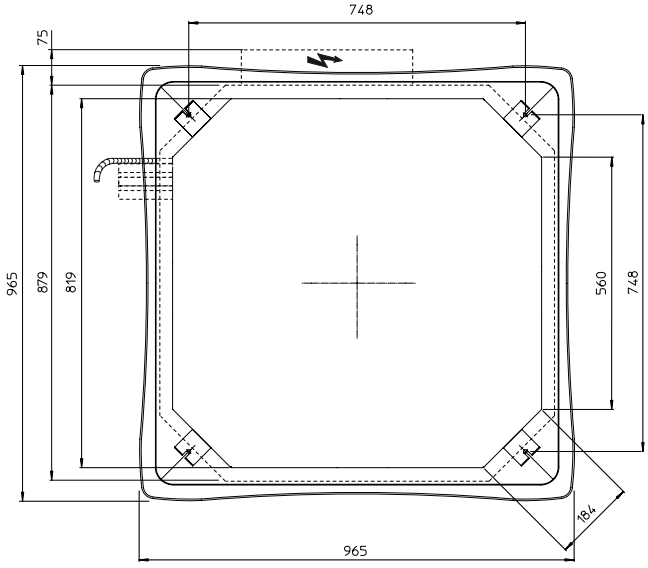
(1) The evaporation temperature must not be less than -3°C.
(2) With glycol water (ethylene glycol 30%) = 0/+4°C.
(2) Average sound pressure level in dB(A) calculated at 2 meters distance, in a hemisphere, in a free field on a horizontal reflective plane given as indicative value.





KRS 1 / KRS-W 1





KRS 2 / KRS-W 2