

FRIGA-BOHN®

KRS | KRS-W

Refrigeration cassette
Commercial range

A2L

WG

HFC



|||| 1.6 - 9.4 kW



- # **Quiet operation** ensured by anti-vibration mounts on the motor.
- # Adjustable airflow to ensure **occupant comfort**.
- # Access to all components **facilitating maintenance operations**.
- # **Easy cleaning** as a result of easy access to the washable filter, clipped on the diffuser.

ROOM

- # Made from galvanized sheet steel with double insulation: inside by a polystyrene shell, and outside by a thick layer of closed-cell insulating foam.



VENTILATION

- # 6-speed centrifugal motor fans with high static pressure and high airflow performance.
- # 3 speeds are factory pre-wired on each model. Three other intermediate speeds can be selected depending on the power and noise level requirements (see table on next page).
- # Single-phase motors, 230V, 50Hz, class B, with internal thermal protection.
- # The turbine blades, specially designed for this range, ensure high airflow rates while guaranteeing low noise levels.

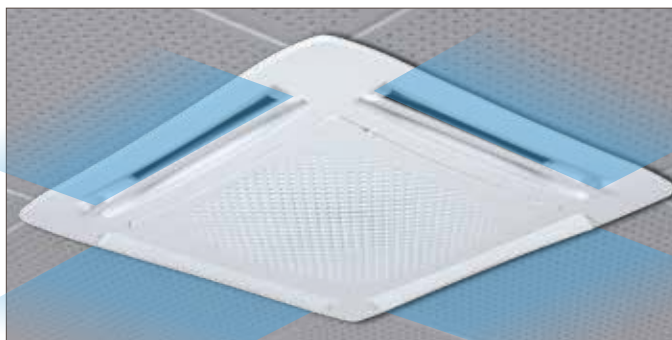
COILS

- # Aluminium fins crimped on copper tubes:

Aluminium fins	KRS	KRS-W
Spacing	2,81 mm	2,1 mm (KRS-W1) 1,81 mm (KRS-W2)
Epoxy protection	yes	no
Grooved copper tubes	yes	no

DIFFUSER

- # Aesthetically pleasing, it adapts perfectly to all environments.
- # Made of smooth white ABS and lined on the inside with insulation to prevent condensation.
- # Manually adjustable damper system that provides air diffusion in four directions.



CONDENSATE LIFT PUMP

- # Cassette delivered with a drain pan, a condensate lift pump and a float for starting the pump.
- # The maximum lift height is 650 mm from the pump level.

INSTALLATION | MAINTENANCE

1.



2.



3.



4.



KRS_(A)-W_(B) 1_(C)

- (A) Silent refrigeration cassette
(B) **KRS** = direct expansion **KRS-W** = glycol water
(C) **KRS 1** = room 600 x 600 mm
KRS 2 = room 800 x 800 mm

The KRS | KRS-W is available with
HFCs, glycol water and A2L.
For more information,
please consult our software.

KRS | KRS-W

4,23 mm

CONDITIONS	REFRIGERANT
Motor speeds*	
	rpm.
DTI = 10K tA1 = 8 °C (1)	R449A kW
	R1234yf kW
	R454C kW
	R455A kW
	R404A kW
DTI = 12K tA1 = 12 °C (1)	R449A kW
	R1234yf kW
	R454C kW
	R455A kW
	R404A kW
Connections	inlet Ø OD
	outlet Ø OD

KRS 1					
V1	-	-	V2	-	V3
ST	NC	NC	ST	NC	ST
400	540	600	700	820	1120
-	-	-	-	3,0	3,5
1,59	2,04	2,13	2,36	2,74	3,19
1,55	2,04	2,13	2,41	2,67	3,19
1,65	2,1	2,24	2,48	2,74	3,3
-	-	-	-	2,7	3,3
-	-	-	-	3,9	4,6
2,24	2,68	2,85	3,15	3,59	4,23
2,24	2,66	2,85	3,26	3,5	4,24
2,35	2,78	2,95	3,38	3,63	4,4
-	-	-	-	3,5	4,3
3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

KRS 2					
V1	-	V2	-	-	V3
ST	NC	ST	NC	NC	ST
280	360	470	560	670	750
-	-	5,4	6,0	6,5	7,0
3,47	4,09	4,81	5,59	6,01	6,41
3,44	4,05	4,89	5,39	5,93	6,35
3,56	4,26	5,04	5,64	6,1	6,55
-	-	4,9	5,5	6,1	6,6
-	-	7,1	7,9	8,8	9,4
4,57	5,35	6,33	7,39	8,07	8,55
4,51	5,3	6,44	7,14	7,85	8,51
4,7	5,51	6,69	7,41	8,3	8,82
-	-	6,4	7,2	8,1	8,7
3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

CONDITIONS	REFRIGERANT
Motor speeds*	
	rpm.
DTI = 10K tA1 = 12 °C (2)	W kW
Connections	inlet Ø OD
	outlet Ø OD

KRS-W 1					
V1	-	-	V2	-	V3
ST	NC	NC	ST	NC	ST
400	540	600	700	820	1120
1,6	1,9	2,1	2,3	2,5	2,8
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

KRS-W 2					
V1	-	V2	-	-	V3
ST	NC	ST	NC	NC	ST
280	360	470	560	670	750
3,3	3,9	4,5	4,8	5,1	5,2
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

KRS 1 KRS-W 1	
Airflow	m ³ /h
Circuit tube vol.	dm ³
Acoustics	Lp (3) dB(A)
	Lw(A) dB(A)
Net weight	room + diffuser kg

300	410	450	530	620	850
2	2	2	2	2	2
26	33	35	38	42	49
40	47	49	52	56	63
28	28	28	28	28	28

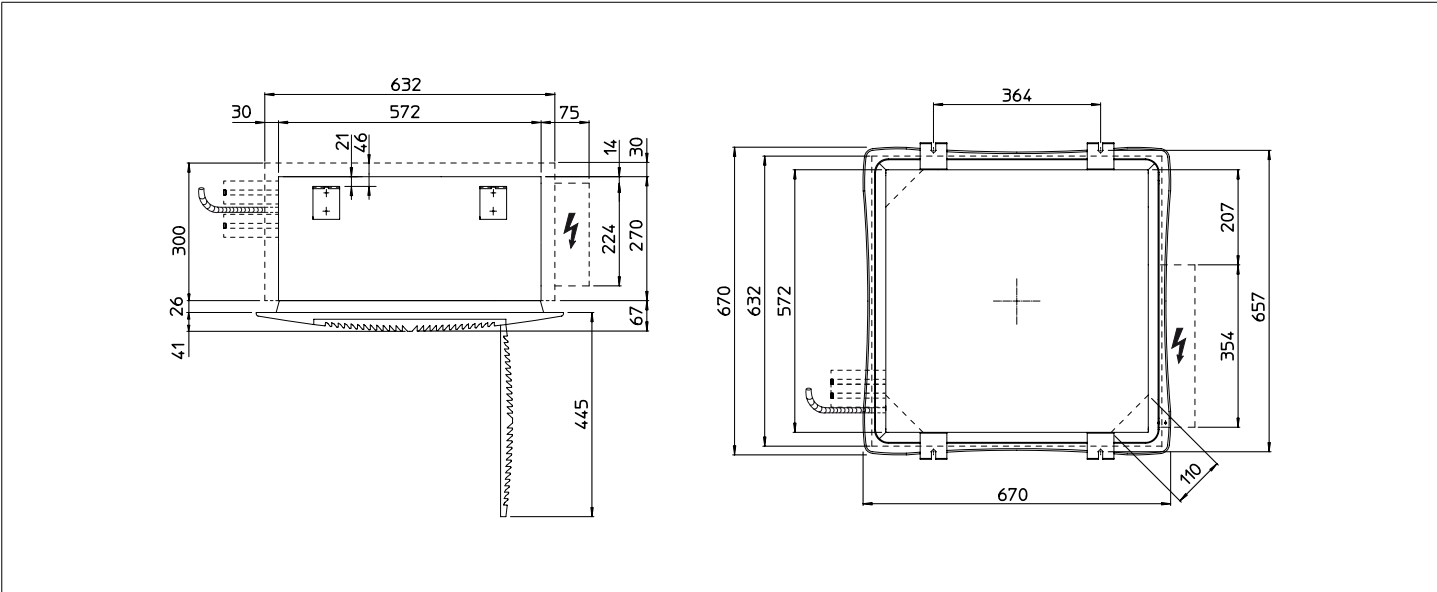
KRS 2 KRS-W 2					
700	900	1200	1400	1680	1880
4	4	4	4	4	4
25	31	37	41	44	47
39	45	51	55	58	61
46	46	46	46	46	46

- * **ST**: Motor speeds pre-wired as standard
NC: Intermediate motor speeds not wired (to choose a speed that is not wired, have the installer make the connection > see installation instructions).
KRS 1: 1 fan 230V/1/50-60 Hz - 100 W max - 0.45 A max
KRS 2: 1 fan 230V/1/50-60 Hz - 170 W max - 0.74 A max

- (1) **DX - Q0m - HR = 85%** - Evaporating temperature must not be below -3 °C.
(2) Glycol water regime (ethylene glycol 30%) = 0 / +4 °C.
(3) Sound pressure in dB(A) measured at 2 m, hemispherical measuring surface, in a free field over a reflecting plane, given as an indication only.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

KRS | KRS-W 1



KRS | KRS-W 2

