

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<sub>(A)</sub>-W<sub>(B)</sub> 1<sub>(C)</sub>

(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.

## CONDITIONS

### REFRIGERANT

Motor speeds\*

rpm.

**R449A** kW

**R1234yf** kW

**R454C** kW

**R455A** kW

**R404A** kW

**R449A** kW

**R1234yf** kW

**R454C** kW

**R455A** kW

**R404A** kW

Connections

Ø OD

outlet

Ø OD

## KRS | KRS-W

 **4,23 mm**

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

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

## CONDITIONS

### REFRIGERANT

Motor speeds\*

rpm.

**W** kW

Connections

Ø OD

outlet

Ø OD

## KRS-W 1

## KRS-W 2

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

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

## Airflow

**m<sup>3</sup>/h**

## Circuit tube vol.

**dm<sup>3</sup>**

## Acoustics

**Lp (3)** dB(A)

## Acoustics

**Lw(A)** dB(A)

## Net weight

room + diffuser **kg**

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

700	900	1200	1400	1680	1880
4	4	4	4	4	4
<b>25</b>	31	<b>37</b>	41	44	<b>47</b>
<b>39</b>	45	<b>51</b>	55	58	<b>61</b>
<b>46</b>	46	<b>46</b>	46	46	<b>46</b>

\* 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

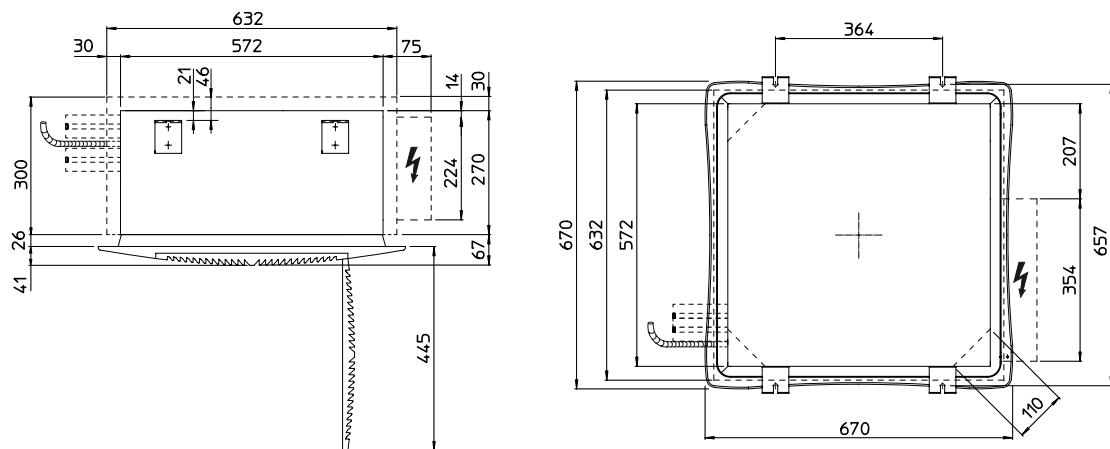
(1) **DX - Q0m - HR = 85%** - Evaporating temperature must not be below -3 °C.

(2) Glycol water regime (ethylene glycol 30%) = 0 / +4 °C.

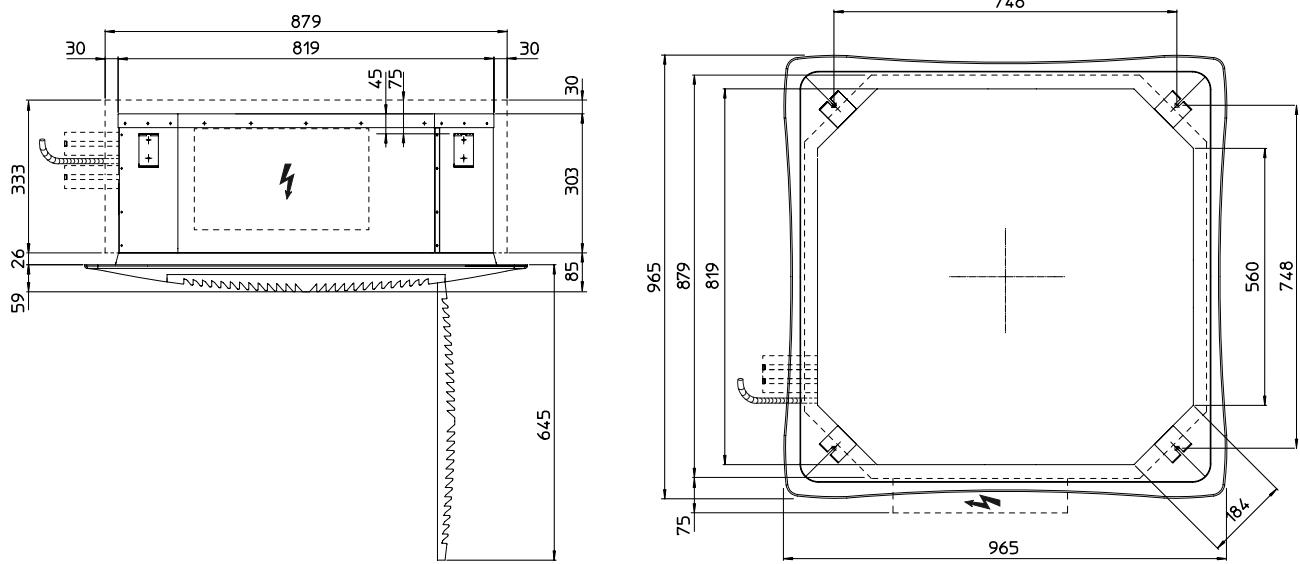
(3) Sound pressure in dB(A) measured at 2 m, hemispherical measuring surface, in a free field over a reflecting plane, given as an indication only.

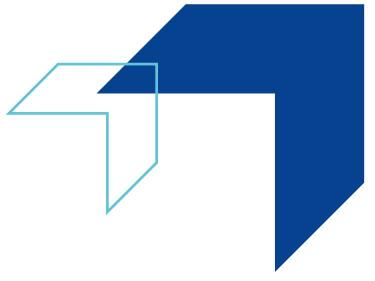
**R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).**

## KRS | KRS-W 1



## KRS | KRS-W 2





## NOTES

