

**AGREGAT FRIGORIFIC RACIT CU AER
LA DISTANTA
REMOTE AIR CONDENSING UNIT**

HRA-AX



Condensatoarele de la distanta de serie HRA-AX sunt proiectate pentru diferite tipuri de aplicatii, de la aer-conditionat pana la instalatii frigorifice comerciale.

• Carcasa

Carcasa de aluminiu cu rulmenti incorporati, acest lucru ofera caracteristici mecanice optime si rezistenta la coroziune.

• Schimbatoare de caldura

Baterii fabricate cu tuburi de cupru, aranjate in linii decalate, cu aripi de aluminiu care ofera o suprafata mai mare a schimbatorului de caldura.

• Ventilatoare

Ventilatoare elicoidale, viteza de rotatie scazuta, cuplat direct, cu grad de protectie IP 54, protectie termica si grilaj de prevenire a accidentelor; versiune standard (STD).

Duza profilata si profilul paletei cresc eficienta si reduc nivelul de zgomot.

Versiunea (LSR) cu nivel scazut de zgomot este disponibila.

• Panou electric

Tensiune furnizata de 230/1N, cu circuit de protectie si regulator de viteza, pentru pachetul de control al tensiunii de condensare.

• Directia aerului

Directia orizontala (H) este standard. Directia verticala (V) este de asemenea disponibila ca optional.

The remote condensers of HRA-AX serie are designed for different applications, from air-conditioning to commercial and residential refrigeration.

• Frame

Self-bearing, in embossed aluminium, that provides optimal mechanical characteristics and corrosion resistance.

• Heat exchangers

Finned coils, manufactured with copper tubes, arranged in staggered lines, with aluminium fins which provide a high heat exchanger surface

• Fans

Helicoidal fans, low rotational speed, directly coupled, with IP 54 protection degree, thermal protection and accident prevention grate; standard version (STD).

The shaped nozzle and the blade profile increase the efficiency and reduce the noise level.

Low-noise version (LSR) available

• Electrical board

Power supply 230/1N, with master circuit breaker and speed regulator, for packaged condensation control.

• Air direction

The horizontal direction (H) is standard. The vertical direction (V) is also available as optional.

Identificarea unitatii

Unit identification

HRA-AX - S070 - STD - H

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<p>1 SERIE HRA-AX Condensator racit cu aer la distanta, cu ventilatoare axiale</p>	<p>1 SERIE HRA-AX Remote air condenser, with axial fans</p>
<p>2 MODEL (a se vedea tabelul cu datele tehnice)</p>	<p>2 MODEL (see technical data table)</p>
<p>3 VERSIUNE STD Standard LSR Nivel scazut de zgomot</p>	<p>3 VERSION STD Standard LSR Low noise</p>
<p>4 DIRECTIA CURENTULUI DE AER H (standard) Curent de aer orizontal V Curent de aer vertical</p>	<p>4 AIR FLOW DIRECTION H (standard) Horizontal air flow V Vertical air flow</p>

**Agregat frigorific la distanta
versiunea STANDARD (dT15°C)**

**Remote condensing unit
STANDARD version (dT15°C)**

HRA-AX STD

DATE TEHNICE / TECHNICAL DATA

TIP TYPE		S070	S090	S110	S160	S210	L260	L320	L450	L480
Sursa de alimentare Power supply		230V/1N/50Hz								
Capacitate de incalzire ¹⁾ Heating capacity ¹⁾	kW	9	11	15	20	27	36	41	55	61
Volumul aerului Air volume	m ³ /h	3018	2800	6483	6036	6960	15310	14590	13920	21890
Ventilator Fan	n.ro	1x400	1x400	2x400	2x400	1x500	2x500	2x500	2x500	3x500
Viteza rotatie ventilator Fan speed rotation	rpm	1430	1430	1430	1430	1300	1300	1300	1300	1300
Putere de admisie Power input	kW	0,20	0,20	0,40	0,40	0,68	1,36	1,36	1,36	2,04
Intensitate Absorbiment amps	A	0,9	0,9	1,8	1,8	3,0	6,0	6,0	6,0	9,0
Suprafata Surface	m ²	20,1	26,7	26,7	40,1	58,4	58,3	87,5	116,7	131,3
Volum intern Internal volume	dm ³	1,8	2,4	2,4	3,6	5,2	5,2	7,8	10,5	11,8
Nivel de zgomot Sound presre level	dB(A)	43	43	46	46	43	46	46	46	48
DIMENSIUNI ALE POZITIONARII PE ORIZONTALA (H) / HORIZONTAL POSITIONING DIMENTIONS (H)										
Lungime Length(L)	mm	780	780	1380	1380	1105	2005	2005	2005	2905
Adancime Depth (W)	mm	362	362	362	362	428	428	428	428	428
Inaltime Height (H)	mm	555	555	555	555	828	828	828	828	828
DIMENSIUNI ALE POZITIONARII PE VERTICALA (V) / VERTICAL POSITIONING DIMENTIONS (V)										
Lungime Length(L)	mm	780	780	1380	1380	1105	2005	2005	2005	2905
Adancime Depth (W)	mm	591	591	591	591	868	868	868	868	868
Inaltime Height (H)	mm	712	712	712	712	846	846	846	846	846
Greutate neta Net weight	kg	19,4	20,8	34,0	39,0	46,6	76,0	85,3	93,2	123,4
Conexiune Connection	ad.-mm	16	16	16	22	22	24	28	28	28
	iesire-mm	14	14	14	18	18	20	22	22	22

¹⁾ capacitatea a fost calculata la temperatura ambianta de 35°C si temperatura de condensare de 50°C R410A

¹⁾ capacity calculated with ambient temperature 35°C and condensing temperature 50°C R410A

**Agregat frigorific la distanta
versiunea NIVEL DE ZGOMOT SCAZUT (dT15°C)**

**Remote condensing unit
LOW NOISE version (dT15°C)**

HRA-AX LSR

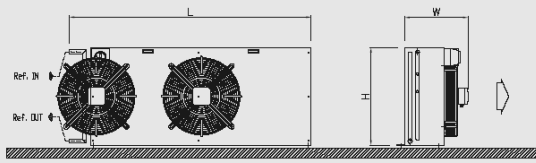
DATE TEHNICE / TECHNICAL DATA

TIP TYPE		S060	S070	S090	S110	S160	S210	L260	L400	L450	L480
Sursa de alimentare Power supply		230V/1N/50Hz									
Capacitate de incalzire ¹⁾ Heating capacity ¹⁾	kW	8	9	11	15	20	27	36	49	55	61
Volumul aerului Air volume	m ³ /h	2267	2040	4994	3401	7632	7197	13610	12820	20420	19240
Ventilator Fan	n.ro	1x400	1x400	2x400	1x500	2x500	2x500	2x630	2x630	3x630	3x630
Viteza rotatie ventilator Fan speed rotation	rpm	940	940	940	665	665	665	670	670	670	670
Putere de admisie Power input	kW	0,16	0,16	0,32	0,13	0,26	0,26	0,68	0,68	1,00	1,00
Intensitate Absorbiment amps	A	0,7	0,7	1,4	0,6	1,2	1,2	3,4	3,4	5,2	5,2
Suprafata Surface	m ²	20,0	26,7	26,7	58,4	58,4	87,6	81,4	121,9	121,9	182,3
Volum intern Internal volume	dm ³	1,8	2,4	2,4	5,2	5,2	7,8	7,3	10,9	10,9	16,3
Nivel de zgomot Sound presre level	dB(A)	33	33	36	29	32	32	39	39	41	41
DIMENSIUNI ALE POZITIONARII PE ORIZONTALA (H) / HORIZONTAL POSITIONING DIMENTIONS (H)											
Lungime Length(L)	mm	780	780	1380	1105	2005	2005	2335	2335	2335	2335
Adancime Depth (W)	mm	362	362	362	428	428	428	750	750	750	750
Inaltime Height (H)	mm	555	555	555	828	828	828	1034	1034	1034	1034
DIMENSIUNI ALE POZITIONARII PE VERTICALA (V) / VERTICAL POSITIONING DIMENTIONS (V)											
Lungime Length(L)	mm	780	780	1380	1105	2005	2005	3335	3335	3335	3335
Adancime Depth (W)	mm	591	591	591	868	828	828	1210	1210	1210	1210
Inaltime Height (H)	mm	712	712	712	846	846	846	1171	1171	1171	1171
Greutate neta Net weight	kg	19,4	20,8	34,0	46,6	76,0	85,3	150,0	162,0	221,0	238,0
Conexiune Connection	ad.-mm	16	16	16	22	24	28	28	28	35	35
	iesire-mm	14	14	14	18	20	22	22	22	28	28

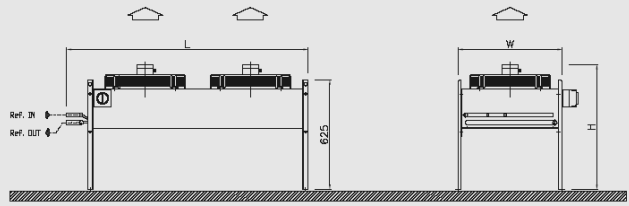
¹⁾ capacitatea a fost calculata la temperatura ambianta de 35°C si temperatura de condensare de 50°C R410A

¹⁾ capacity calculated with ambient temperature 35°C and condensing temperature 50°C R410A

ORIZZONTALE – HORIZONTAL (H)



VERITCALE – VERTICAL (V)



**Conexiune recomandata cu optiuni flux de aer
KIT VERTICAL**

**Connection advised with options KIT VERTICAL
air flux**

HR-AX STD

KIT VERTICAL	cod. ordine	S070	S090	S110	S140	S160	S210	L260	L320	L450	L480	
kit V-400	V40	1										
kit V-500	V50						1					
kit V-630	V63											

HR-AX LSR

KIT VERTICAL	cod. ordine	S060	S070	S090	S110	S160	S210	L260	L400	L450	L480
kit V-400	V40	1									
kit V-500	V50				1						
kit V-630	V63							1			

**Factor de corectie intre condensarea de admisie
a aerului si temperatura camerei**

**Correction factor between inlet air condensing
and room temperature**

dT (K)	15	16	17	18	19	20
	1,00	1,07	1,13	1,22	1,29	1,37

**Factor de corectie a temperaturii de admisie in
camera**

**Correction factor inlet room temperature
camera**

T (°C)	35	40	45	50
	1,00	0,99	0,98	0,97

Factor de corectie pentru agentul frigorific

Correction factor for refrigerant fluid

T (°C)	R407C	R134a	R410A	R404A	R507a
	0,915	0,943	1,000	0,953	0,956

Factor de corectie inaltime

Altitude correction factor

Alt. (m)	0	600	800	1000	1200	1400	1600	1800	2000
	1,000	0,977	0,969	0,961	0,952	0,943	0,934	0,925	0,915

