WRA Vertical

Ideal for cooling water or process fluids

WRA units are compact industrial chillers, ideal for cooling water or process fluids, designed to provide the high standards of reliability required for 24/7 production processes.

Thanks to the standard non-ferrous hydraulic circuit and the wide range of options and accessories, WRAs are successfully used for cooling in a number of applications, such as:

- machine tools
- chip cutting machines
- laser
- wood processing machines
- glueing machines
- automotive
- food & beverage
- plastic

Reliability and the ability to adapt to specific plant requirements are the determining factors, which allow WRA liquid chillers to respond perfectly to the needs of these industrial applications, guaranteeing continuity of production and contributing to a reduction in operating costs.

Main Features

- Cooling Capacity 3,6 – 51 kW
- Power Supply: 230Vac, 400Vac, 460Vac
- Refrigerant gas: R134a (mod. 35-45); R407C (mod. 58-D8)
- Compressor: hermetic reciprocating (mod. 35); scroll (mod. 45-D8)
- Air-cooled finned coil condenser
- Axial fan
- Evaporator: finned coil immersed in the tank (mod. 35-A3)
- Evaporator: stainless steel plates (mod. A6-D8)
- Laminating unit: capillary (mod. 35-70); thermostatic expansion valve (mod. 85-D8)
- Electronic thermostat with temperature accuracy +/-2K
- Pumps: P3; P5
- The WRA process chillers do not fall within the scope of the MT (Medium Temperature – EU 2015/1095) and HT (High Temperature – EU 2016/2281) regulations.
- Refrigerant working range:
    - basic unit: +13°C ÷ +25°C
    - Low temparature water unit: -5°C ÷ +1°C

WRA30-35-50

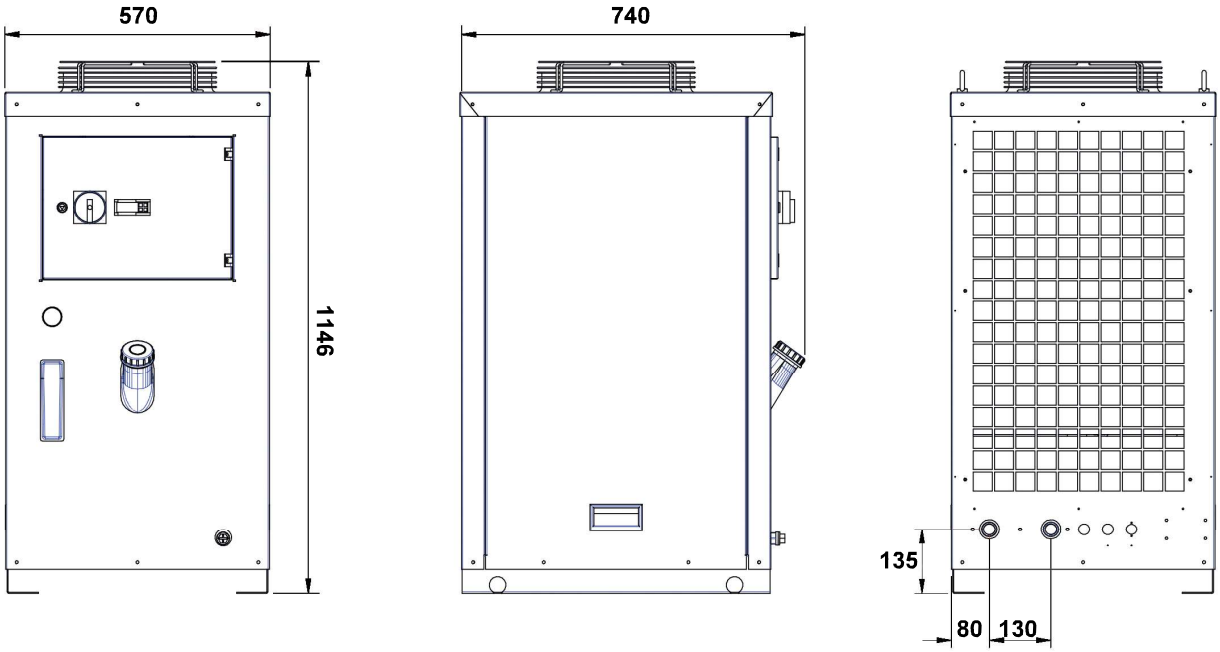
CODE	M.U.	WRA35		WRA45		WRA58		WRA70		WRA85	
Cooling Capacity (1)	W	3600		4700		5600		7400		9000	
Absorbed Power (2)	W	1200		1300		1500		1900		2300	
Refrigerant Gas		R134a		R134a		R407C		R407C		R407C	
Refrigerant gas charge	kg	1,1		1,5		1,6		1,9		1,8	
Cooling circuits/Compressors	N°	1 / 1		1 / 1		1 / 1		1 / 1		1 / 1	
Power Supply	V~ph-Hz	230-1-50 230-1-50/60	400-3-50 460-3-60	230-1-50 230-1-50/60	400-3-50 460-3-60	400-3-50	460-3-60	400-3-50	460-3-60	400-3-50	460-3-60
Auxiliaries feed	VAC	230	24	230	24	24		24		24	
Connections		Morsettiera									
Fan type/N°		Assiale/1									
Condenser fan air flow (free)	m^3/h	1885		1885		3110		3110		4200	
Total fan absorbed power	W	70		70		130		130		160	
Pump absorbed power	kW	0,37 (0,55-0,75)		0,37 (0,55-0,75)		0,37 (0,55-0,75)		0,37 (0,55-0,75)		0,55 (0,75-1,1)	
Nominal flow	l/min	10		14		16		21		26	
Available head nom (Med Prex)	bar	3,3 (4,5-5,7)		2,9 (4,1-5,4)		2,8 (3,9-5,2)		2,3 (3,4-4,7)40		3,1(4,1-5,2)	
Tank capacity	l	40		40		40		40		40	
Hydraulic connections	Ø	¾"		¾"		¾"		¾"		¾"	
Noise level (3)	dB(A)	45		45		48		52		56	
Height x Width x Depth	mm	1146 x 570 x 740		1146 x 570 x 740		1146 x 570 x 740		1146 x 570 x 740		1220 x 570 x 740	
Shipping weight	kg	90		105		115		140		150	

Working limits for a standard chiller: leaving water Temperature min/max 13/25°C; ambient min/max 15/45°C

(1) Referred to the compressor only at conditions water Temperature inlet/outlet 20/15°C, ambient Temperature 32°C

(2)Referred to the compressor only at the following conditions: water Temperature inlet/outlet 20/15°C, ambient Temperature 32°C(

3) Sound pressure level referred to free field at distance of 10m EN ISO 9614



WRA95-A3-A6

CODE	M.U.	WRA95	WRAA3	WRAA6
Cooling Capacity (1)	W	10300	12900	16000
Absorbed Power (2)	W	2600	3200	4100
Refrigerant Gas		R407C	R407C	R407C
Refrigerant gas charge	kg	2,6	4,6	3,9
Cooling circuits/Compressors	N°	1 / 1	1 / 1	1 / 1
Power Supply	V~Hz	400-3-50 460-3-60	400-3-50 460-3-60	400-3-50 460-3-60
Auxiliaries feed	VAC	24	24	24
Connections		Morsettiera / Terminal / Klemmen / Terminales		
Fan type/N°		Assiale/1 - Axial/1		
Condenser fan air flow (free)	m^3/h	9700	9700	9700
Total fan absorbed power	W	780	780	780
Pump absorbed power	kW	0,55 (0,9-1,1)	0,55 (0,9-1,1)	0,88 (0,9-1,1)
Nominal flow	l/min	30	37	45
Available head nom (Med Prex)	bar	2,7 (4,5-6,8)	2,5 (4,3-6,2)	2,4 (4,1-5,4)
Tank capacity	l	100	100	100
Hydraulic connections	Ø	1"	1"	1"
Noise level (3)	dB(A)	58	58	62
Height x Width x Depth	mm	1500 x 735 x 926	1500 x 735 x 926	1500 x 735 x 926
Shipping weight	kg	190	230	250

Working limits for a standard chiller: leaving water Temperature min/max 13/25°C; ambient min/max 15/45°C

(1) Referred to the compressor only at conditions water Temperature inlet/outlet 20/15°C, ambient Temperature 32°C

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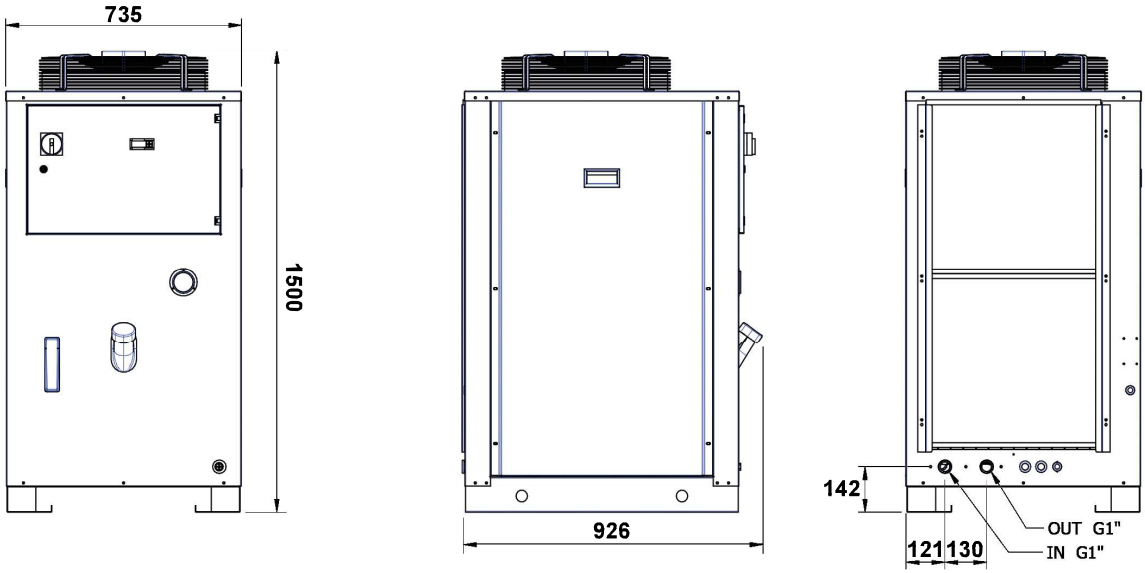
3) Sound pressure level referred to free field at distance of 10m EN ISO 9614



WRAA8-B4-B8-C2

CODE	M.U.	WRAA8	WRAB4	WRAB8	WRAC2
Cooling Capacity (1)	W	18900	24100	29300	33000
Absorbed Power (2)	W	4600	5800	7000	8100
Refrigerant Gas		R407C	R407C	R407C	R407C
Refrigerant gas charge	kg	4,9	8,7	9,2	8,3
Cooling circuits/Compressors	N°	1 / 1	1 / 1	1 / 1	1 / 1
Power Supply	V~Hz	400-3-50 460-3-60	400-3-50 460-3-60	400-3-50 460-3-60	400-3-50 460-3-60
Auxiliaries feed	VAC	24	24	24	24
Connections		Morsettiera			
Fan type/N°		Assiale/1			
Condenser fan air flow (free)	m^3/h	11000	11000	11000	20000
Total fan absorbed power	W	550	550	750	750
Pump absorbed power	kW	0,55 (1,5-1,5)	0,55 (1,5-1,5)	0,75 (1,5-1,5)	0,75 (1,5-1,5)
Nominal flow	l/min	54	70	84	92
Available head nom (Med Prex)	bar	2,3 (4,8-6,5)	2,5 (4,6-5,9)	2,2 (4,5-5,2)	2,5 (4,2-6)
Tank capacity	l	180	180	180	180
Hydraulic connections	Ø	1 ¼"	1 ¼"	1 ¼"	1 ¼"
Noise level (3)	dB(A)	60	60	61	69
Height x Width x Depth	mm	1930 x 900 x 1200	1930 x 900 x 1200	1930 x 900 x 1200	1930 x 900 x 1200
Shipping weight	kg	320	360	360	390

Working limits for a standard chiller: leaving water Temperature min/max 13/25°C; ambient min/max 15/45°C

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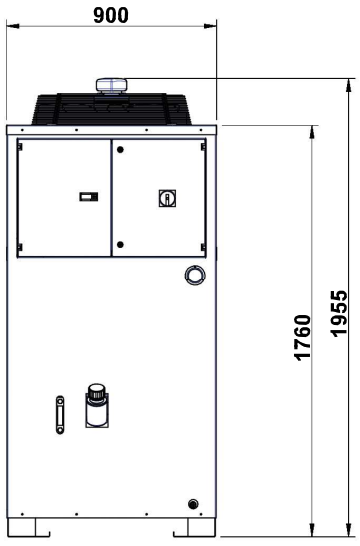
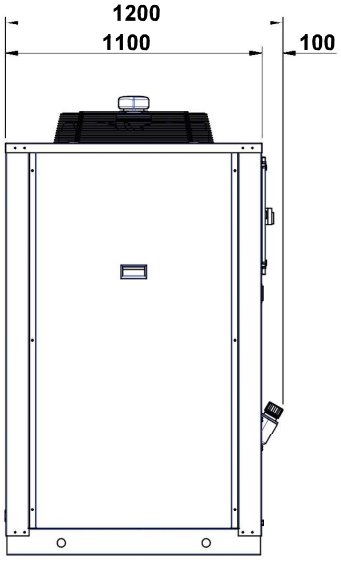
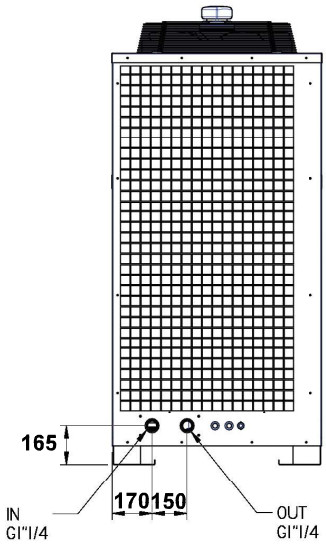
(2)Referred to the compressor only at the following conditions: water Temperature inlet/outlet 20/15°C, ambient Temperature 32°C(

3) Sound pressure level referred to free field at distance of 10m EN ISO 9614







WRAC8-D8

CODE	M.U.	WRAC8	WRAD8
Cooling Capacity (1)	W	41200	51000
Absorbed Power (2)	W	10300	12300
Refrigerant Gas		R407C	R407C
Refrigerant gas charge	kg	10,8	14
Cooling circuits/Compressors	N°	1 / 1	1 / 1
Power Supply	V~Hz	400-3-50 460-3-60	400-3-50 460-3-60
Auxiliaries feed	VAC	24	24
Connections		Morsettiera / Terminal / Klemmen / Terminales	
Fan type/N°		Assiale/1 - Axial/1	
Condenser fan air flow (free)	m^3/h	25000	25000
Total fan absorbed power	W	2000	2000
Pump absorbed power	kW	0,9 (2,2-2,2)	0,9 (2,2-2,2)
Nominal flow	l/min	120	147
Available head nom (Med Prex)	bar	3.5 (4,7-6)	3,3 (4,4-5,5)
Tank capacity	l	180	180
Hydraulic connections	Ø	1 ½"	1 ½"
Noise level (3)	dB(A)	67	67
Height x Width x Depth	mm	2155 x 1250 x 1250	2155 x 1250 x 1250
Shipping weight	kg	450	470

Working limits for a standard chiller: leaving water Temperature min/max 13/25°C; ambient min/max 15/45°C

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(2)Referred to the compressor only at the following conditions: water Temperature inlet/outlet 20/15°C, ambient Temperature 32°C(

3) Sound pressure level referred to free field at distance of 10m EN ISO 9614