

Indoor packaged unit

## WRE 40 - 750 kW



Scroll  
compressor



Refrigerant  
R-410A



Cooling only



Heating/  
Cooling

### PLUS

- » Electronic expansion valve
- » Up to 6 compressors
- » 1 or 2 cooling circuits
- » Remote connectivity with the most common protocols
- » Compact dimensions
- » 3 different acoustic configurations
- » High seasonal efficiency values

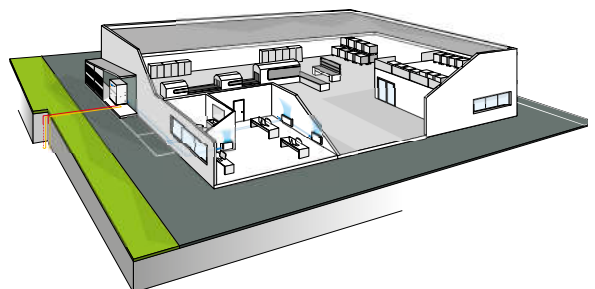
### Water-water unit with high seasonal efficiency

WRE is the new Galletti series of self-contained reversible heat pumps and water chillers for indoor installation, suitable for both air conditioning and industrial process applications. The range covers capacities from 40 kW up to a maximum of 750 kW and is characterised by extremely high levels of seasonal efficiency (in compliance with ErP 2021 requirements) and reduced space requirements in order to facilitate access to technical compartments (for capacities of up to 560 kW, the width and height are less than 96 cm and 196 cm respectively). In order to increase the efficiency at partial loads, WRE models are provided with tandem or trio solutions (2 or 3 compressors on a single circuit) and equipped with electronic expansion valve as standard. Both single and dual circuit versions are available.

The use of top quality components at the cutting edge of technology in cooling, hydraulic, and electrical systems makes WRE chillers state of the art in terms of efficiency, reliability, and operating limits. In fact, the ability to produce water from -8 °C to 55 °C and use any type of natural source for dissipation is guaranteed: soil, ground water, or outside air.

The high configurability of the series, which is in the DNA of Galletti, is guaranteed by 2 different versions, with and without closing panels, and 3 different acoustic configurations: standard, low noise, and super low noise, able to ensure a sound power level reduction of up to 12 dB(A). The range of the configuration available is completed by the possibility of producing hot water up to 60 °C at zero cost through partial heat recovery.

Lastly, the advanced microprocessor that regulates the operation of the unit allows: the control of a maximum of 2 pumps on the equipment side and 2 pumps on the source side, on/off or modulating, the possibility of cascade connection of up to 4 units and management of reversibility on both the gas side and the water side.



The possibility of keeping the evaporator indoors means there is no need to add glycol to the water inside the system. In addition, you can keep all components requiring maintenance in an easily accessible room.

## MAIN COMPONENTS

### Structure

Made in galvanised steel sheet with a polyester powder coating for outdoors.

On request the compressor compartment is completely sealed and accessible on 3 sides thanks to easily removable panels that greatly simplify all maintenance and inspection operations.

### Compressori scroll

Scroll-type compressors in a tandem or trio configuration equipped with IDV valve. The IDV intermediate delivery valve technology allows the compressor to avoid losses caused by overcompression and, consequently, the additional work the motor has to perform in partial-load operation, saving energy and improving seasonal and partial-load efficiency from 3% to 10%.



### Heat exchangers

All units have heat exchangers with braze-welded AISI 316 austenitic stainless steel plates and connections made of AISI 316 L, characterised by a reduced carbon content to facilitate brazing.

### Cooling circuit

It can be produced in 2 different versions with the same power rating (Efficiency Pack); using mainly: R410A scroll compressors, brazed plate heat exchangers, and electronic expansion valves.



### Electronic microprocessor control

It allows complete management of the unit. The electronic control system allows the setpoint to be adjusted automatically according to the outdoor temperature in order to reduce consumption and broaden the working temperature range. With the advanced microprocessor control it is possible to set up LAN networks for controlling 4 units in parallel.

## CONFIGURATOR

The models are completely configurable by selecting the version and the options. To the right is shown an example of configuration.

Version	Field	1	2	3	4	5	6	7	8	9	10
WRE132HL		2	B	0	P	0	1	G	0	0	2

To verify the compatibility of the options, use the selection software or the price list.

### AVAILABLE VERSIONS

#### Only cooling versions

WRE...CSG  
WRE...CLG  
WRE...CQG

Standard execution  
Low noise execution  
Super low noise execution

#### Heat pump versions

WRE...HSG  
WRE...HLG  
WRE...HQG

Reversible, standard execution  
Reversible, low noise execution  
Reversible, quite execution

### CONFIGURATION OPTIONS

#### 1 Power supply

- 0 400 - 3 - 50 + N
- 1 400 - 3 - 50
- 2 400 - 3 - 50 + N + circuit breakers
- 3 400 - 3 - 50 + circuit breakers

#### 2 Control microprocessor and lamination device

- B Advanced + electronic expansion valve

#### 3 Partial heat recovery

- 0 Absent
- D Desuperheater (partial heat recovery)

#### 4 Management of source side pumps

- 1 Single pump
- 2 Dual pump
- 3 Single pump + condensation control with 0-10V modulated output signal
- 4 Dual pump + condensation control with 0-10V modulated output signal

#### 5 User water flow modulation

- 1 Single pump
- 2 Dual pump
- 3 Single pump + output signal with water flow modulation in  $\Delta T$  logic = cost
- 4 Dual pump + output signal with water flow modulation in  $\Delta T$  logic = cost
- 5 Single pump + output signal with water flow modulation in T logic = cost
- 6 Dual pump + output signal with water flow modulation in T logic = cost

#### 6 Remote communication

- 0 Absent
- 1 RS485 serial card (Modbus or Carel protocol)
- 2 Lonworks serial card
- 4 Ethernet card (SNMP or BACNET protocol) + clock card
- 5 Ethernet card + clock card + monitoring software

#### 7 Anti vibration shock mounts

- 0 Absent
- G Rubber vibration dampers at the base of the unit
- M Spring vibration dampers at the base of the unit

#### 8 Packing

- 0 Standard
- 1 Wooden cage
- 2 Wooden crate

#### 9 Remote control

- 0 Absent
- 1 Simplified remote control panel
- 3 Remote display for programmable microprocessor

#### 10 Anti-intrusion panelling

- 0 Absent
- P Present (standard for Q version)

## ACCESSORIES

<b>A</b>	Power factor capacitors	<b>I</b>	Two pairs of Victaulic joints
<b>B</b>	Soft starter	<b>L</b>	Filter regulating kit
<b>C</b>	Service kit (advanced controller required)	<b>M</b>	Set point compensation outdoor temperature probe
<b>D</b>	Signal for user side water flow reversal valve management	<b>N</b>	Compressor tandem/trio isolation valves
<b>E</b>	ON/OFF status of the compressors	<b>P</b>	Unit lifting pipes
<b>F</b>	Remote control for step capacity limit (advanced controller required)	<b>Q</b>	Temperature probe for pump shutdown on the primary circuit
<b>G</b>	Configurable digital alarm board (advanced controller required)	<b>T</b>	Mains power analyzer for monitoring and reducing power consumption
<b>H</b>	Refrigerant pressure gauges	<b>V</b>	Set-point modification with 4-20mA signal

# Water chillers and heat pumps WRE

## RATED TECHNICAL DATA OF WRE C WATER CHILLERS

WRE			052	062	072	082	092	122	132	
Power supply		V-ph-Hz	400 - 3N - 50							
Cooling capacity	(1)(E)	kW	47,1	59,0	68,5	80,5	92,6	119	135	
Total power input	(1)(E)	kW	11,0	13,8	16,1	18,8	21,7	27,7	31,4	
EER	(1)(E)		4,26	4,26	4,26	4,28	4,27	4,31	4,31	
SEER	(2)(E)		5,48	5,71	5,75	5,53	5,84	5,55	5,53	
Water flow user side	(1)	l/h	8112	10158	11807	13864	15946	20510	23312	
Water pressure drop user side	(1)(E)	kPa	50	50	48	49	49	47	47	
Water flow source side	(1)	l/h	9873	12364	14382	16884	19432	24979	28414	
Water pressure drop source side	(1)(E)	kPa	77	77	73	74	75	70	71	
Maximum current absorption		A	29,0	36,0	42,0	49,0	57,0	72,0	81,0	
Start up current		A	112	161	211	218	178	288	296	
Startup current with soft starter		A	67	97	127	131	107	173	178	
Compressors / circuits			2 / 1							
Sound power level	(3)(E)	dB(A)	73	75	76	77	80	80	82	
Sound power level, low-noise version	(3)	dB(A)	67	69	70	71	74	74	76	
Sound power level quiet version	(3)	dB(A)	61	63	64	65	68	68	70	
Transport / operating weight		kg	310	328	343	361	408	560	619	

WRE			152	154	182	184	212	214	242	
Power supply		V-ph-Hz	400 - 3N - 50							
Cooling capacity	(1)(E)	kW	156	149	182	185	215	214	240	
Total power input	(1)(E)	kW	36,2	35,0	41,0	42,6	48,4	48,9	53,3	
EER	(1)(E)		4,32	4,24	4,43	4,34	4,44	4,37	4,51	
SEER	(2)(E)		5,80	5,30	5,83	6,31	5,60	5,95	5,53	
Water flow user side	(1)	l/h	26893	25552	31238	31791	36973	36795	41332	
Water pressure drop user side	(1)(E)	kPa	48	35	39	38	41	41	37	
Water flow source side	(1)	l/h	32772	31290	37948	38779	44903	44808	50098	
Water pressure drop source side	(1)(E)	kPa	74	52	60	58	63	63	57	
Maximum current absorption		A	91,0	90,0	112	114	130	128	151	
Start up current		A	356	224	380	293	399	307	420	
Startup current with soft starter		A	214	153	228	199	239	210	252	
Compressors / circuits			2 / 1	4 / 2	2 / 1	4 / 2	2 / 1	4 / 2	2 / 1	
Sound power level	(3)(E)	dB(A)	87	79	87	83	89	83	89	
Sound power level, low-noise version	(3)	dB(A)	81	73	83	77	84	77	85	
Sound power level quiet version	(3)	dB(A)	75	67	77	71	78	71	79	
Transport / operating weight		kg	688	997	727	932	799	973	869	

(1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)

(2)  $\eta$  efficiency values for heating and cooling are respectively calculated by the following formulas:  $[\eta = SCOP / 2,5 - F(1) - F(2)]$  e  $[\eta = SEER / 2,5 - F(1) - F(2)]$ . For further information, please refer to the technical document "ErP 2009/125/EC DIRECTIVE" in the catalogue introducing pages, or to the EN14825:2022 regulation.

(3) Sound power level measured according to ISO 9614

(E) EUROVENT certified data

**RATED TECHNICAL DATA OF WRE C WATER CHILLERS**

WRE			244	274	302	314	364	384	454
Power supply		V-ph-Hz	400 - 3N - 50						
Cooling capacity	(1)(E)	kW	238	271	299	314	362	388	457
Total power input	(1)(E)	kW	54,7	62,3	66,8	71,4	82,1	88,0	93,7
EER	(1)(E)		4,35	4,35	4,48	4,40	4,41	4,40	4,88
SEER	(2)(E)		5,96	5,91	5,55	6,22	6,19	5,92	6,50
Water flow user side	(1)	l/h	40957	46553	51448	54021	62227	66617	78600
Water pressure drop user side	(1)(E)	kPa	44	46	44	46	47	47	30
Water flow source side	(1)	l/h	49913	56753	62410	65722	75682	81052	94179
Water pressure drop source side	(1)(E)	kPa	65	68	67	71	71	71	50
Maximum current absorption		A	144	161	166	182	224	240	261
Start up current		A	360	377	510	447	492	508	529
Startup current with soft starter		A	244	259	306	305	340	353	369
Compressors / circuits			4 / 2	4 / 2	2 / 1	4 / 2	4 / 2	4 / 2	4 / 2
Sound power level	(3)(E)	dB(A)	83	85	91	90	90	90	92
Sound power level, low-noise version	(3)	dB(A)	77	79	88	84	86	86	87
Sound power level quiet version	(3)	dB(A)	71	73	82	78	80	80	81
Transport / operating weight		kg	992	1101	1101	1393	1491	1523	1925

WRE			504	564	606	636	696	746	
Power supply		V-ph-Hz	400 - 3N - 50						
Cooling capacity	(1)(E)	kW	511	565	596	643	696	747	
Total power input	(1)(E)	kW	104	118	127	138	148	157	
EER	(1)(E)		4,91	4,80	4,69	4,65	4,70	4,74	
SEER	(2)(E)		6,56	6,52	6,56	6,51	6,53	6,57	
Water flow user side	(1)	l/h	87730	97009	102425	110456	119608	128288	
Water pressure drop user side	(1)(E)	kPa	36	43	43	47	46	47	
Water flow source side	(1)	l/h	104947	116367	123329	133152	143938	154171	
Water pressure drop source side	(1)(E)	kPa	60	70	71	76	75	75	
Maximum current absorption		A	303	317	328	370	412	454	
Start up current		A	571	661	593	638	680	722	
Startup current with soft starter		A	403	460	421	457	491	524	
Compressors / circuits			4 / 2	4 / 2	6 / 2	6 / 2	6 / 2	6 / 2	
Sound power level	(3)(E)	dB(A)	92	93	94	94	94	94	
Sound power level, low-noise version	(3)	dB(A)	88	90	88	89	89	90	
Sound power level quiet version	(3)	dB(A)	82	84	82	83	83	84	
Transport / operating weight		kg	1968	2035	2592	2689	2648	2752	

- (1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)  
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(3) Sound power level measured according to ISO 9614  
(E) EUROVENT certified data

# Water chillers and heat pumps WRE

## RATED TECHNICAL DATA OF WRE H REVERSIBLE HEAT PUMPS

WRE			052	062	072	082	092	122	132	
Power supply		V-ph-Hz	400 - 3N - 50							
Cooling capacity	(1)(E)	kW	47,1	58,9	68,5	80,5	92,6	119	135	
Total power input	(1)(E)	kW	11,1	13,8	16,1	18,9	21,7	27,7	31,4	
EER	(1)(E)		4,25	4,26	4,26	4,27	4,26	4,30	4,31	
SEER	(2)(E)		5,48	5,71	5,75	5,53	5,84	5,55	5,53	
Water flow user side	(1)	l/h	8122	10147	11798	13874	15946	20512	23307	
Water pressure drop user side	(1)(E)	kPa	50	50	48	49	49	47	47	
Water flow source side	(1)	l/h	9889	12353	14371	16899	19436	24984	28407	
Water pressure drop source side	(1)(E)	kPa	77	77	73	74	75	70	71	
Heating capacity	(3)(E)	kW	53,1	66,4	77,5	91,0	105	137	157	
Total power input	(3)(E)	kW	14,1	17,5	20,3	23,6	27,3	34,9	39,7	
COP	(3)(E)		3,54	3,69	3,71	3,75	3,72	3,83	3,83	
Heating energy efficiency class	(4)		A+++							
SCOP	(2)(E)		5,01	5,08	5,11	5,05	5,17	5,06	5,09	
Water flow user side	(3)	l/h	9186	11487	13414	15752	18136	23816	27138	
Water pressure drop user side	(3)(E)	kPa	68	68	64	65	66	65	65	
Water flow source side	(3)	l/h	11584	14517	16962	19943	22903	30323	34543	
Water pressure drop source side	(3)(E)	kPa	95	96	93	94	94	96	96	
Maximum current absorption		A	29,0	36,0	42,0	49,0	57,0	72,0	81,0	
Start up current		A	112	161	211	218	178	288	296	
Startup current with soft starter		A	67	97	127	131	107	173	178	
Compressors / circuits			2 / 1							
Sound power level	(5)(E)	dB(A)	73	75	76	77	80	80	82	
Sound power level, low-noise version	(5)	dB(A)	67	69	70	71	74	74	76	
Sound power level quiet version	(5)	dB(A)	61	63	64	65	68	68	70	
Transport / operating weight		kg	315	334	353	371	418	572	635	

(1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)

(2)  $\eta$  efficiency values for heating and cooling are respectively calculated by the following formulas:  $[\eta = SCOP / 2,5 - F(1) - F(2)]$  e  $[\eta = SEER / 2,5 - F(1) - F(2)]$ . For further information, please refer to the technical document "ErP 2009/125/EC DIRECTIVE" in the catalogue introducing pages, or to the EN14825:2022 regulation.

(3) Water temperature - user side 40°C / 45°C, water temperature - source side 10°C / 7°C (EN14511:2022)

(4) Seasonal energy efficiency class for LOW TEMPERATURE room heating under AVERAGE climatic conditions [EUROPEAN REGULATION No 811/2013]

(5) Sound power level measured according to ISO 9614

(E) EUROVENT certified data

**RATED TECHNICAL DATA OF WRE H REVERSIBLE HEAT PUMPS**

WRE			152	154	182	184	212	214	242
Power supply		V-ph-Hz	400 - 3N - 50						
Cooling capacity	(1)(E)	kW	156	148	182	185	215	214	240
Total power input	(1)(E)	kW	36,2	35,0	41,0	42,6	48,4	48,9	53,3
EER	(1)(E)		4,31	4,24	4,43	4,34	4,44	4,38	4,51
SEER	(2)(E)		5,80	5,30	5,83	6,31	5,60	5,95	5,53
Water flow user side	(1)	l/h	26895	25545	31235	31789	36961	36787	41326
Water pressure drop user side	(1)(E)	kPa	48	35	39	38	41	41	37
Water flow source side	(1)	l/h	32778	37944	44893	50089	62402	31283	38775
Water pressure drop source side	(1)(E)	kPa	74	60	63	57	67	52	58
Heating capacity	(3)(E)	kW	176	174	201	211	243	244	269
Total power input	(3)(E)	kW	45,4	44,0	53,3	53,5	60,8	61,6	66,9
COP	(3)(E)		3,77	3,85	3,66	3,83	3,88	3,85	3,90
Heating energy efficiency class	(4)		A+++						
SCOP	(2)(E)		5,18	4,92	5,18	5,56	5,14	5,44	5,06
Water flow user side	(3)	l/h	30579	30190	34885	36631	42241	42305	46681
Water pressure drop user side	(3)(E)	kPa	65	49	52	52	57	57	50
Water flow source side	(3)	l/h	38688	38317	43571	46423	53818	53713	59452
Water pressure drop source side	(3)(E)	kPa	93	73	72	75	81	81	72
Maximum current absorption		A	91,0	90,0	112	114	130	128	151
Start up current		A	356	224	380	293	399	307	420
Startup current with soft starter		A	214	153	228	199	239	210	252
Compressors / circuits			2 / 1	4 / 2	2 / 1	4 / 2	2 / 1	4 / 2	2 / 1
Sound power level	(5)(E)	dB(A)	87	79	87	83	87	83	89
Sound power level, low-noise version	(5)	dB(A)	81	73	83	77	84	77	85
Sound power level quiet version	(5)	dB(A)	75	67	77	71	78	71	79
Transport / operating weight		kg	706	1014	746	948	820	991	893

(1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)

(2)  $\eta$  efficiency values for heating and cooling are respectively calculated by the following formulas:  $[\eta = SCOP / 2,5 - F(1) - F(2)]$  e  $[\eta = SEER / 2,5 - F(1) - F(2)]$ . For further information, please refer to the technical document "ErP 2009/125/EC DIRECTIVE" in the catalogue introducing pages, or to the EN14825:2022 regulation.

(3) Water temperature - user side 40°C / 45°C, water temperature - source side 10°C / 7°C (EN14511:2022)

(4) Seasonal energy efficiency class for LOW TEMPERATURE room heating under AVERAGE climatic conditions [EUROPEAN REGULATION No 811/2013]

(5) Sound power level measured according to ISO 9614

(E) EUROVENT certified data

# Water chillers and heat pumps WRE

## RATED TECHNICAL DATA OF WRE H REVERSIBLE HEAT PUMPS

WRE			244	274	302	314	364	384	454
Power supply		V-ph-Hz	400 - 3N - 50						
Cooling capacity	(1)(E)	kW	238	271	299	314	362	388	457
Total power input	(1)(E)	kW	54,7	62,3	66,8	71,4	82,1	88,0	93,7
EER	(1)(E)		4,35	4,35	4,48	4,40	4,41	4,40	4,88
SEER	(2)(E)		5,96	5,91	5,55	6,22	6,19	5,92	6,50
Water flow user side	(1)	l/h	40958	46550	51446	54007	62223	66618	78595
Water pressure drop user side	(1)(E)	kPa	44	46	44	46	47	47	30
Water flow source side	(1)	l/h	44790	49915	56749	65705	75683	81057	94186
Water pressure drop source side	(1)(E)	kPa	63	65	68	71	71	71	50
Heating capacity	(3)(E)	kW	271	310	338	359	412	439	509
Total power input	(3)(E)	kW	68,8	78,4	83,6	90,3	103	109	117
COP	(3)(E)		3,84	3,84	3,93	3,85	3,87	3,89	4,23
Heating energy efficiency class	(4)		A+++						
SCOP	(2)(E)		5,41	5,42	5,09	5,55	5,50	5,39	5,95
Water flow user side	(3)	l/h	47109	53836	58708	62288	71491	76255	88389
Water pressure drop user side	(3)(E)	kPa	59	62	60	64	64	63	45
Water flow source side	(3)	l/h	59784	68402	75069	79238	91067	97284	115004
Water pressure drop source side	(3)(E)	kPa	87	91	88	91	92	92	59
Maximum current absorption		A	144	161	166	182	224	240	261
Start up current		A	360	377	510	447	492	508	529
Startup current with soft starter		A	244	259	306	305	340	353	369
Compressors / circuits			4 / 2	4 / 2	2 / 1	4 / 2	4 / 2	4 / 2	4 / 2
Sound power level	(5)(E)	dB(A)	83	85	91	90	90	90	92
Sound power level, low-noise version	(5)	dB(A)	77	79	88	84	86	86	87
Sound power level quiet version	(5)	dB(A)	71	73	82	78	80	80	81
Transport / operating weight		kg	1012	1121	1141	1425	1523	1555	1959

(1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)

(2)  $\eta$  efficiency values for heating and cooling are respectively calculated by the following formulas:  $[\eta = SCOP / 2,5 - F(1) - F(2)]$  e  $[\eta = SEER / 2,5 - F(1) - F(2)]$ . For further information, please refer to the technical document "ErP 2009/125/EC DIRECTIVE" in the catalogue introducing pages, or to the EN14825:2022 regulation.

(3) Water temperature - user side 40°C / 45°C, water temperature - source side 10°C / 7°C (EN14511:2022)

(4) Seasonal energy efficiency class for LOW TEMPERATURE room heating under AVERAGE climatic conditions [EUROPEAN REGULATION No 811/2013]

(5) Sound power level measured according to ISO 9614

(E) EUROVENT certified data

**RATED TECHNICAL DATA OF WRE H REVERSIBLE HEAT PUMPS**

WRE			504	564	606	636	696	746
Power supply		V-ph-Hz	400 - 3N - 50					
Cooling capacity	(1)(E)	kW	510	565	596	643	696	747
Total power input	(1)(E)	kW	104	118	127	138	148	157
EER	(1)(E)		4,91	4,80	4,69	4,65	4,70	4,74
SEER	(2)(E)		6,56	6,52	6,56	6,51	6,53	6,57
Water flow user side	(1)	l/h	87721	97016	102424	110464	119601	128286
Water pressure drop user side	(1)(E)	kPa	35	43	43	47	46	47
Water flow source side	(1)	l/h	104931	116374	123327	133169	143929	154171
Water pressure drop source side	(1)(E)	kPa	60	70	71	76	75	75
Heating capacity	(3)(E)	kW	566	630	665	719	775	833
Total power input	(3)(E)	kW	130	148	158	172	185	197
COP	(3)(E)		4,21	4,15	4,08	4,06	4,08	4,12
Heating energy efficiency class	(4)		A+++					
SCOP	(2)(E)		5,92	5,88	5,97	5,85	5,86	5,88
Water flow user side	(3)	l/h	98259	109416	115479	124926	134660	144717
Water pressure drop user side	(3)(E)	kPa	53	63	63	67	66	67
Water flow source side	(3)	l/h	127862	141965	149123	161213	174027	187468
Water pressure drop source side	(3)(E)	kPa	70	86	85	92	91	93
Maximum current absorption		A	303	317	328	370	412	454
Start up current		A	571	661	593	638	680	722
Startup current with soft starter		A	403	460	421	457	491	524
Compressors / circuits			4 / 2	4 / 2	6 / 2	6 / 2	6 / 2	6 / 2
Sound power level	(5)(E)	dB(A)	92	93	94	94	94	94
Sound power level, low-noise version	(5)	dB(A)	88	90	88	89	89	90
Sound power level quiet version	(5)	dB(A)	82	84	82	83	83	84
Transport / operating weight		kg	2008	2075	2669	2775	2734	2838

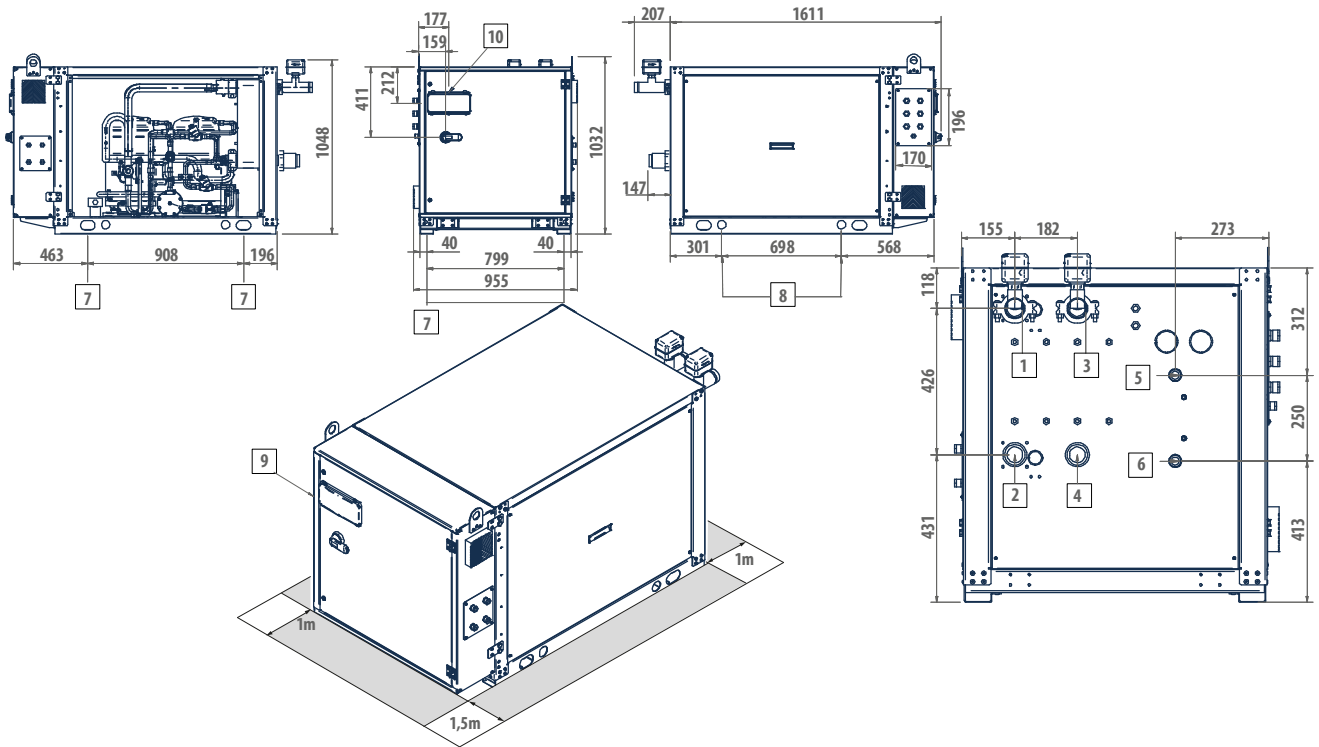
- (1) Water temperature - user side 12°C / 7°C, water temperature - dissipation side 30°C / 35°C (EN14511:2022)  
(2)  $\eta$  efficiency values for heating and cooling are respectively calculated by the following formulas:  $[\eta = SCOP / 2,5 - F(1) - F(2)]$  e  $[\eta = SEER / 2,5 - F(1) - F(2)]$ . For further information, please refer to the technical document "ErP 2009/125/EC DIRECTIVE" in the catalogue introducing pages, or to the EN14825:2022 regulation.  
(3) Water temperature - user side 40°C / 45°C, water temperature - source side 10°C / 7°C (EN14511:2022)  
(4) Seasonal energy efficiency class for LOW TEMPERATURE room heating under AVERAGE climatic conditions [EUROPEAN REGULATION No 811/2013]  
(5) Sound power level measured according to ISO 9614  
(E) EUROVENT certified data



# Water chillers and heat pumps WRE

## DIMENSIONAL DRAWINGS

### WRE 52 - 92



#### LEGEND WRE C

1	Dissipation side - outlet (Victaulic 2")
2	Dissipation side - inlet Victaulic (Victaulic 2")
3	User side - inlet (Victaulic 2")
4	User side - outlet (Victaulic 2")
5	De-superheater water outlet 1"
6	Desuperheater water inlet 1"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface

CHILLER FLOW SWITH POSITION: 2-3

CLOSING PANELLING AVAILABLE ON REQUEST

#### LEGEND WRE H

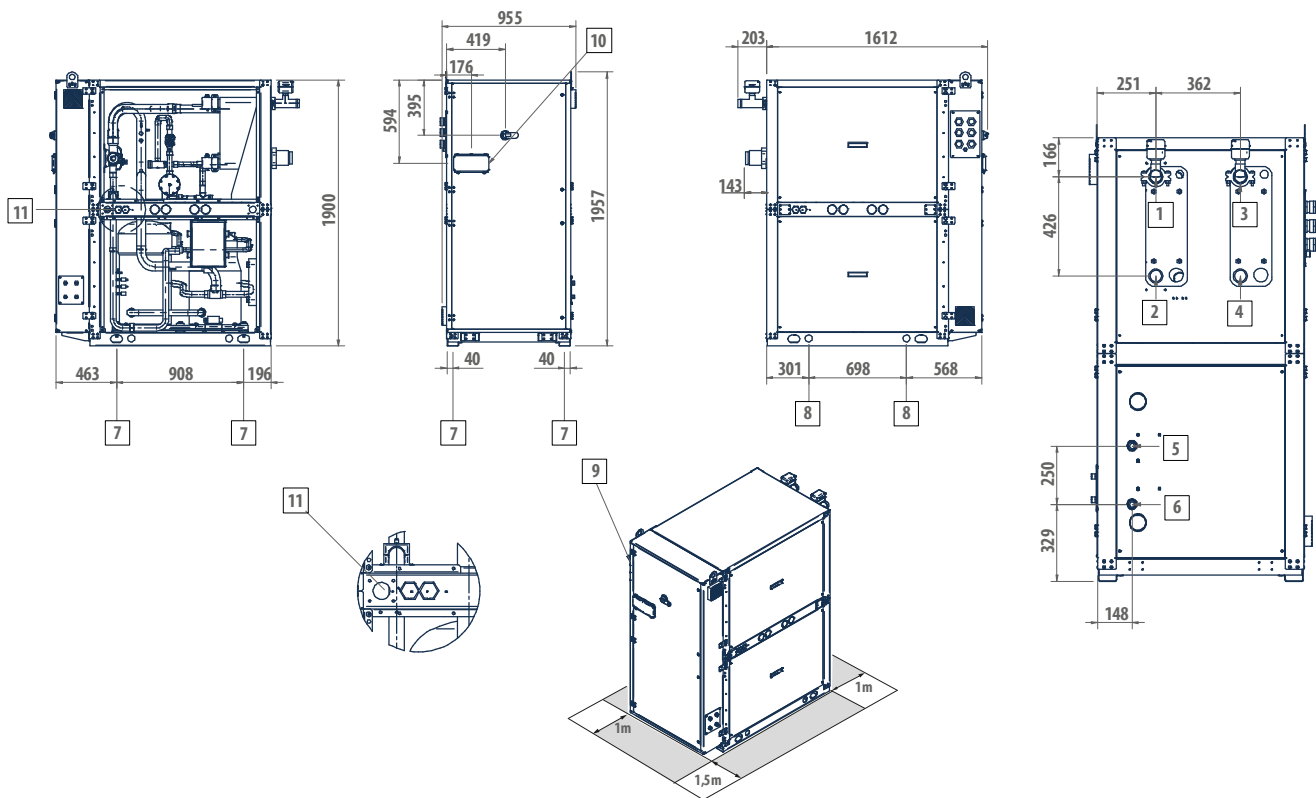
1	Dissipation side - inlet Victaulic (Victaulic 2")
2	Dissipation side - outlet (Victaulic 2")
3	User side - inlet (Victaulic 2")
4	User side - outlet (Victaulic 2")
5	De-superheater water outlet 1"
6	Desuperheater water inlet 1"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface

HEAT PUMP FLOW SWITH POSITION: 1-3

CLOSING PANELLING AVAILABLE ON REQUEST

DIMENSIONAL DRAWINGS

WRE 122 - 152



**LEGEND WRE C**

1	Dissipation side - outlet (Victaulic 2")
2	Dissipation side - inlet Victaulic (Victaulic 2")
3	User side - inlet (Victaulic 2")
4	User side - outlet (Victaulic 2")
5	De-superheater water outlet 1"
6	Desuperheater water inlet 1"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 3/4" F (only 152)

**CHILLER FLOW SWITH POSITION: 2-3**

**CLOSING PANELLING AVAILABLE ON REQUEST**

**LEGEND WRE H**

1	Dissipation side - inlet Victaulic (Victaulic 2")
2	Dissipation side - outlet (Victaulic 2")
3	User side - inlet (Victaulic 2")
4	User side - outlet (Victaulic 2")
5	De-superheater water outlet 1"
6	Desuperheater water inlet 1"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 3/4" F (only 152)

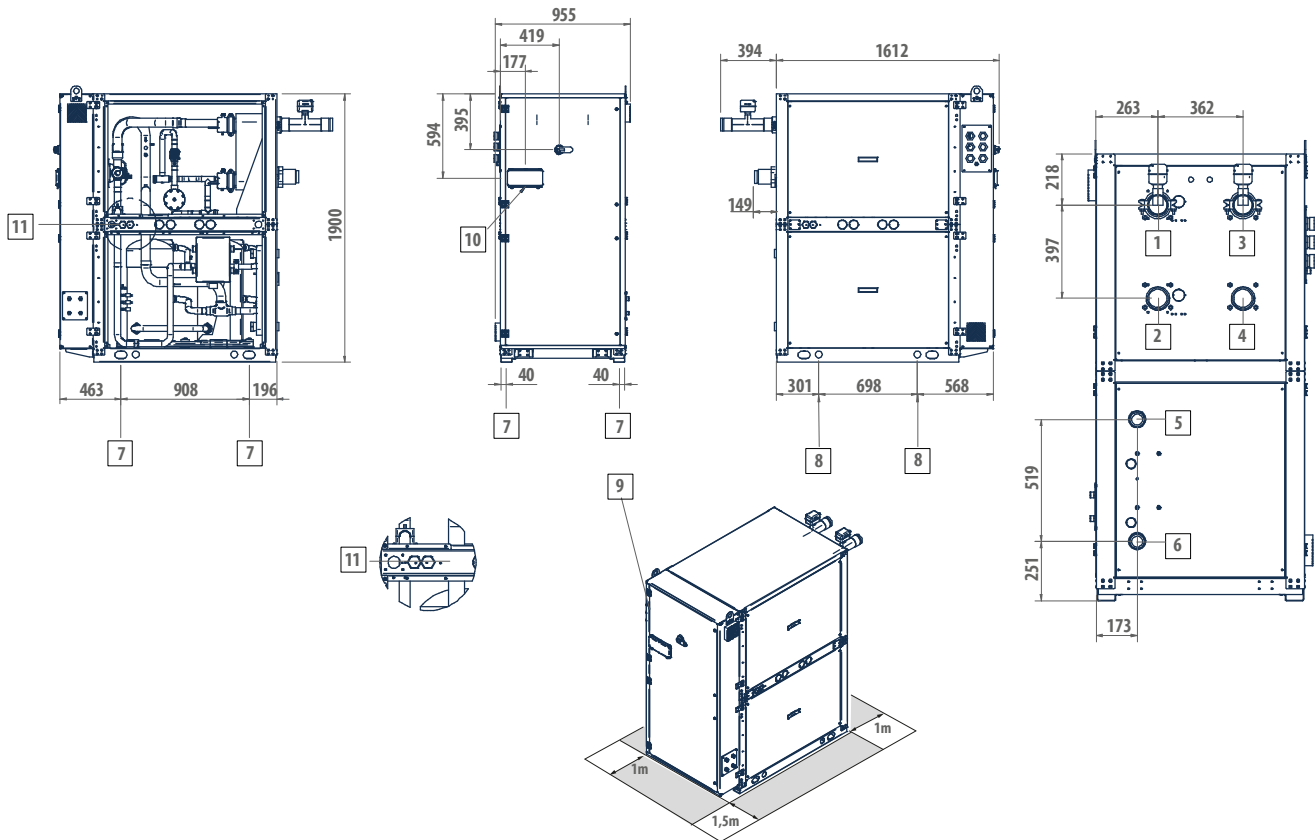
**HEAT PUMP FLOW SWITH POSITION: 1-3**

**CLOSING PANELLING AVAILABLE ON REQUEST**

# Water chillers and heat pumps WRE

## DIMENSIONAL DRAWINGS

### WRE 182-242



#### LEGEND WRE C

1	Dissipation side - outlet (Victaulic 3")
2	Dissipation side - inlet (Victaulic 3")
3	User side - inlet (Victaulic 3")
4	User side - outlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dampers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 3/4" F

CHILLER FLOW SWITH POSITION: 2-3

CLOSING PANELLING AVAILABLE ON REQUEST

#### LEGEND WRE H

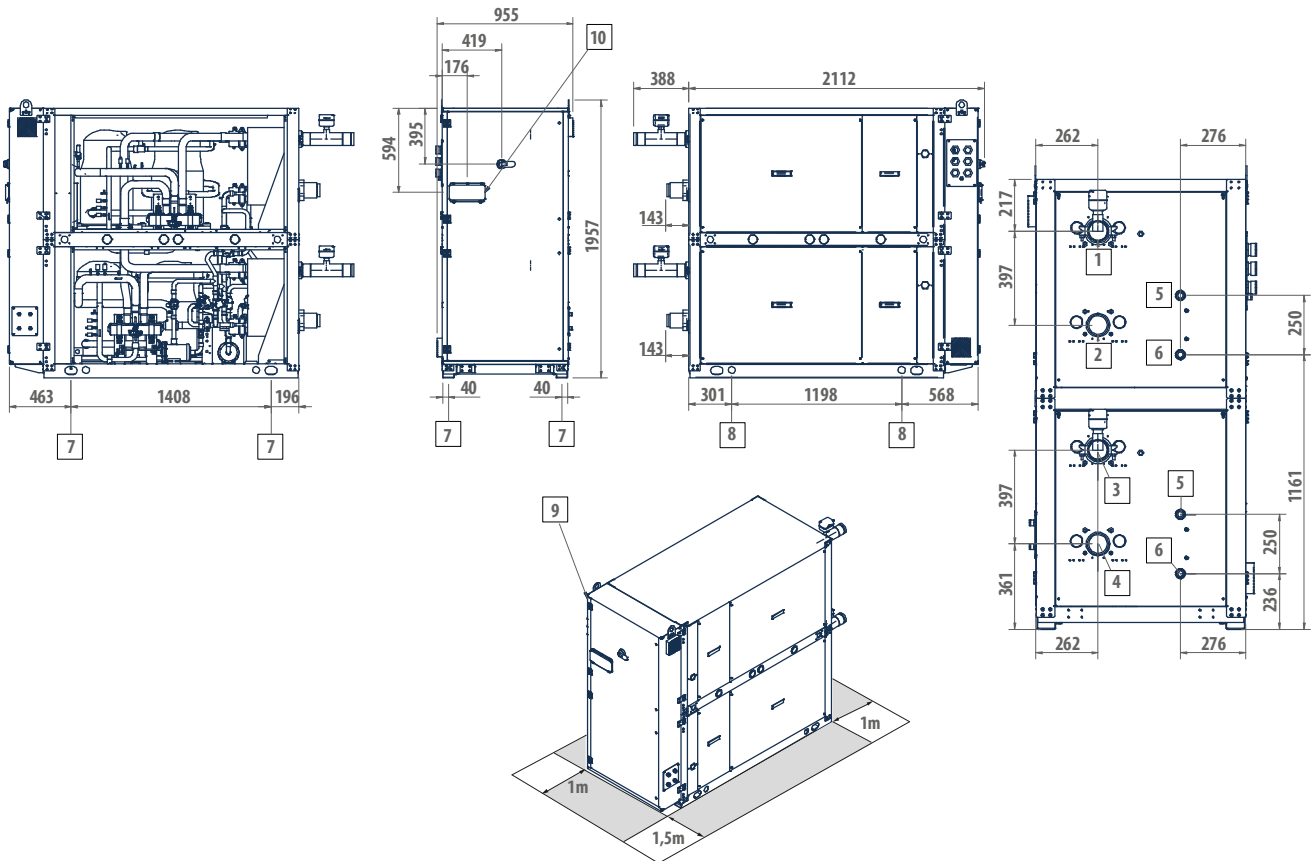
1	Dissipation side - inlet (Victaulic 3")
2	Dissipation side - outlet (Victaulic 3")
3	User side - inlet (Victaulic 3")
4	User side - outlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dampers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 3/4" F

HEAT PUMP FLOW SWITH POSITION: 1-3

CLOSING PANELLING AVAILABLE ON REQUEST

DIMENSIONAL DRAWINGS

WRE 154-274



**LEGEND WRE C**

1	User side - inlet (Victaulic 3")
2	User side - outlet (Victaulic 3")
3	Dissipation side - outlet (Victaulic 3")
4	Dissipation side - inlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface

**CHILLER FLOW SWITH POSITION: 1-4**

**CLOSING PANELLING AVAILABLE ON REQUEST**

**LEGEND WRE H**

1	User side - inlet (Victaulic 3")
2	User side - outlet (Victaulic 3")
3	Dissipation side - inlet (Victaulic 3")
4	Dissipation side - outlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface

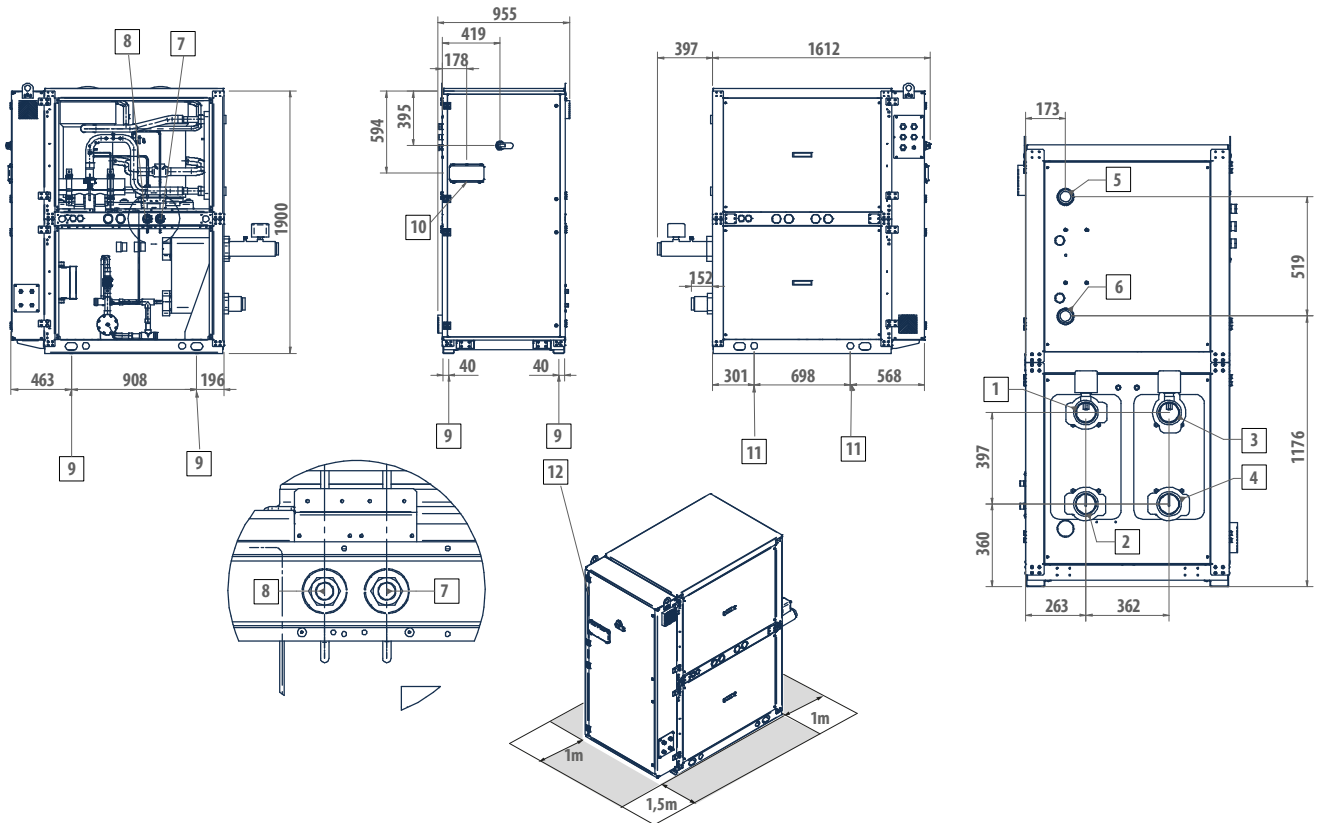
**HEAT PUMP FLOW SWITH POSITION: 1-3**

**CLOSING PANELLING AVAILABLE ON REQUEST**

# Water chillers and heat pumps WRE

## DIMENSIONAL DRAWINGS

### WRE 302



#### LEGEND WRE C

- |    |   |
|----|---|
| 1  | Dissipation side - outlet (Victaulic 3")    |
| 2  | Dissipation side - inlet (Victaulic 3")     |
| 3  | User side - inlet (Victaulic 3")            |
| 4  | User side - outlet (Victaulic 3")           |
| 5  | Heat exchanger outlet 2"                    |
| 6  | Heat exchanger inlet 2"                     |
| 7  | Low pressure safety valve outlet G. 3/4" F  |
| 8  | High-pressure relief valve outlet G. 3/4" F |
| 9  | Vibration dumpers                           |
| 10 | User interface                              |
| 11 | Lifting points                              |
| 12 | Power supply input                          |

CHILLER FLOW SWITCH POSITION: 2-3

CLOSING PANELLING AVAILABLE ON REQUEST

#### LEGEND WRE H

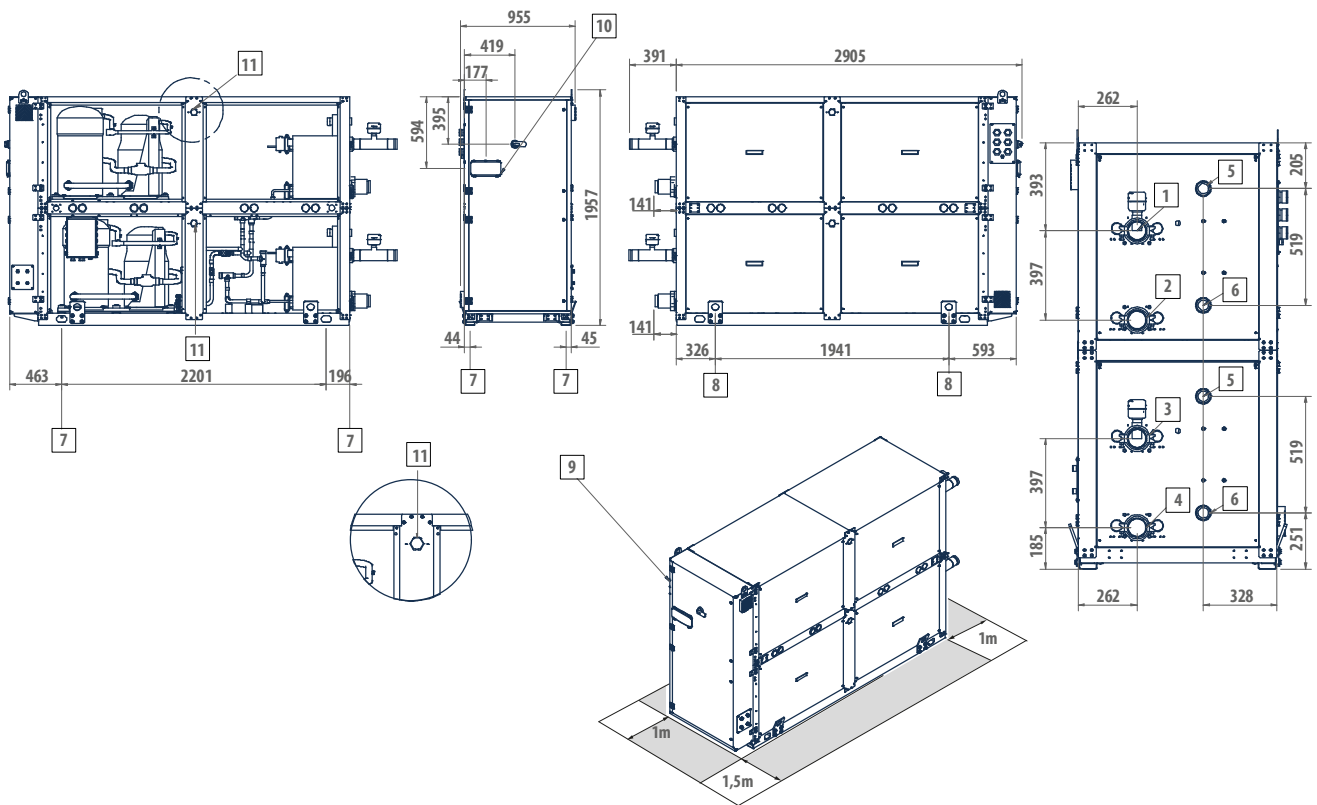
- |    |   |
|----|---|
| 1  | Dissipation side - inlet (Victaulic 3")     |
| 2  | Dissipation side - outlet (Victaulic 3")    |
| 3  | User side - inlet (Victaulic 3")            |
| 4  | User side - outlet (Victaulic 3")           |
| 5  | Heat exchanger outlet 2"                    |
| 6  | Heat exchanger inlet 2"                     |
| 7  | Low pressure safety valve outlet G. 3/4" F  |
| 8  | High-pressure relief valve outlet G. 3/4" F |
| 9  | Vibration dumpers                           |
| 10 | User interface                              |
| 11 | Lifting points                              |
| 12 | Power supply input                          |

HEAT PUMP FLOW SWITCH POSITION: 1-3

CLOSING PANELLING AVAILABLE ON REQUEST

DIMENSIONAL DRAWINGS

WRE 314 - 384



**LEGEND WRE C**

1	User side - inlet (Victaulic 3")
2	User side - outlet (Victaulic 3")
3	Dissipation side - outlet (Victaulic 3")
4	Dissipation side - inlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 1" F

**CHILLER FLOW SWITH POSITION: 1-4**

**CLOSING PANELLING AVAILABLE ON REQUEST**

**LEGEND WRE H**

1	User side - inlet (Victaulic 3")
2	User side - outlet (Victaulic 3")
3	Dissipation side - inlet (Victaulic 3")
4	Dissipation side - outlet (Victaulic 3")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 1" F

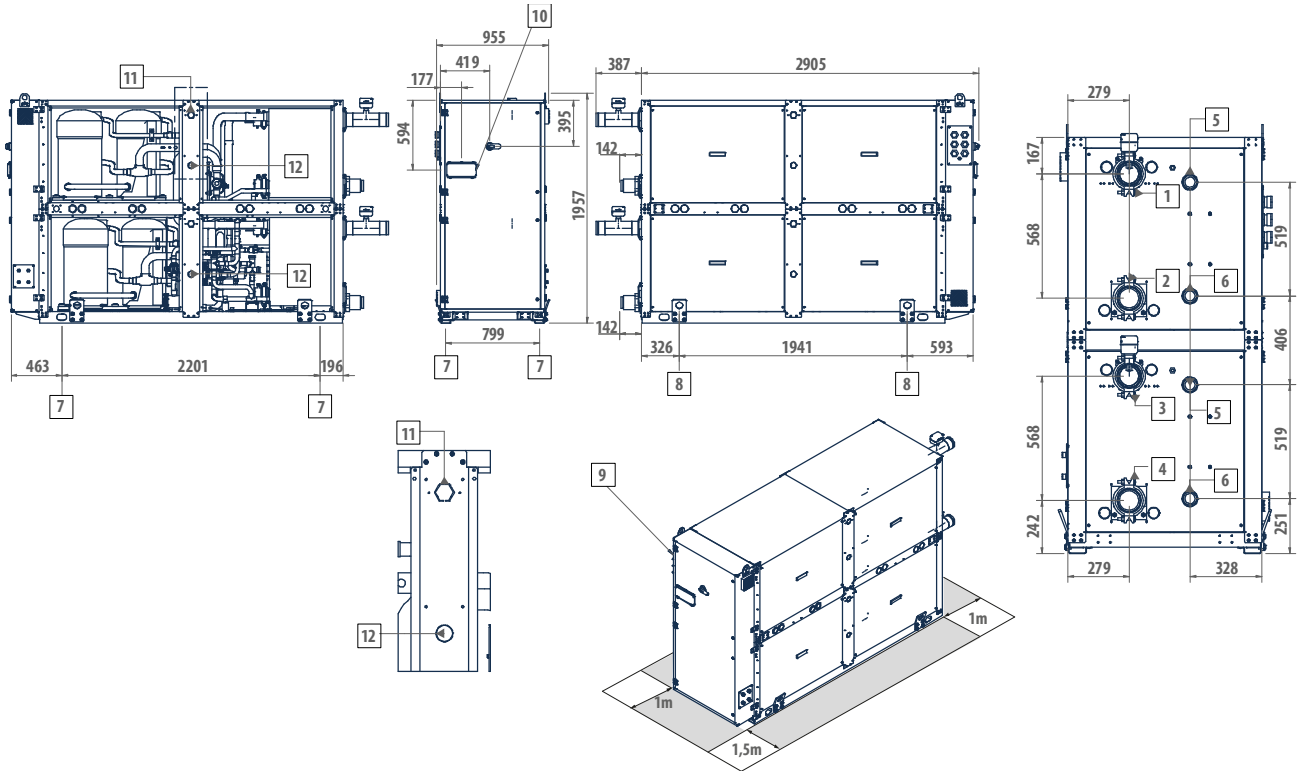
**HEAT PUMP FLOW SWITH POSITION: 1-3**

**CLOSING PANELLING AVAILABLE ON REQUEST**

# Water chillers and heat pumps WRE

## DIMENSIONAL DRAWINGS

WRE 454 - 564



### LEGEND WRE C

1	User side - inlet (Victaulic 4")
2	User side - outlet (Victaulic 4")
3	Dissipation side - outlet (Victaulic 4")
4	Dissipation side - inlet (Victaulic 4")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Low pressure safety valve outlet WRE 454-504 G. 1" F; WRE 564 G. 3/4" F
12	High-pressure relief valve outlet WRE 564 G. 1" M

CHILLER FLOW SWITH POSITION: 1-4

CLOSING PANELLING AVAILABLE ON REQUEST

### LEGEND WRE H

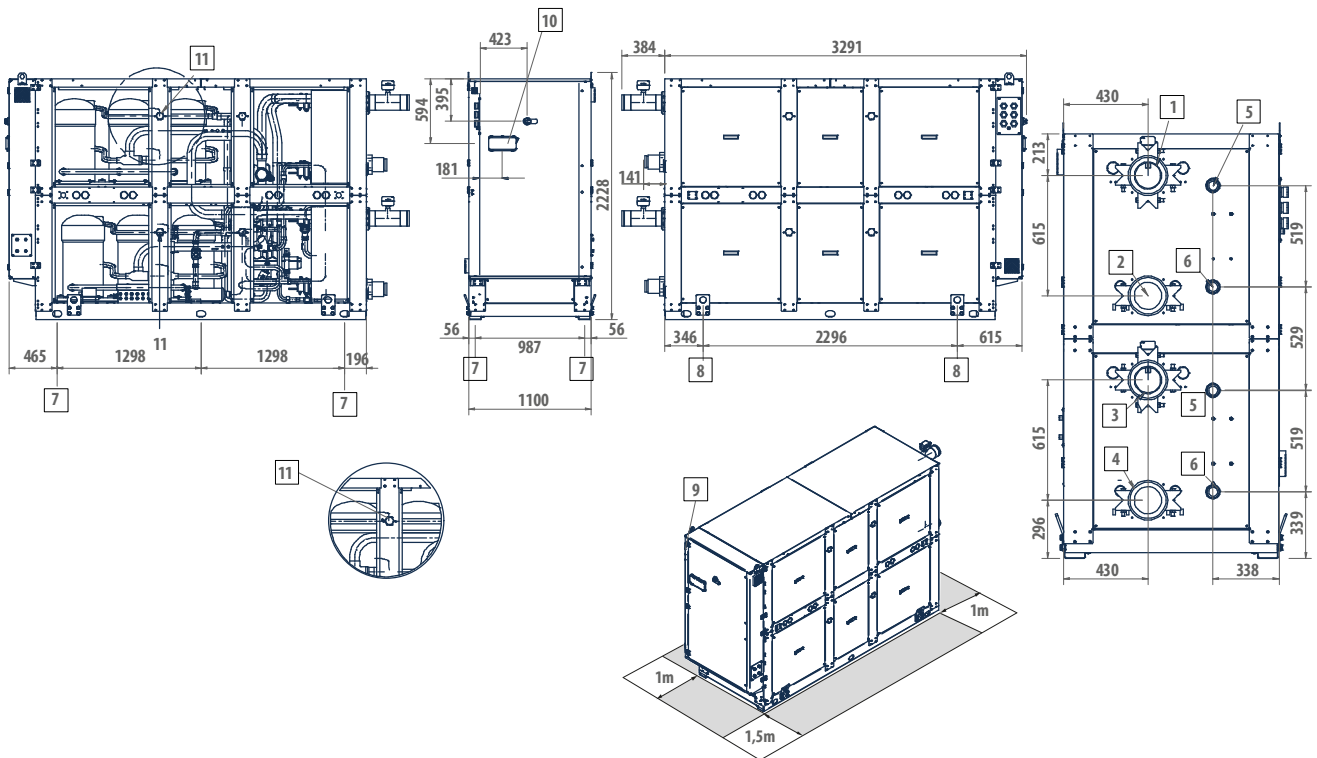
1	User side - inlet (Victaulic 4")
2	User side - outlet (Victaulic 4")
3	Dissipation side - inlet (Victaulic 4")
4	Dissipation side - outlet (Victaulic 4")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Low pressure safety valve outlet WRE 454-504 G. 1" F; WRE 564 G. 3/4" F
12	High-pressure relief valve outlet WRE 564 G. 1" M

HEAT PUMP FLOW SWITH POSITION: 1-3

CLOSING PANELLING AVAILABLE ON REQUEST

DIMENSIONAL DRAWINGS

WRE 606 - 746



**LEGEND WRE C**

1	User side - inlet (Victaulic 5")
2	User side - outlet (Victaulic 5")
3	Dissipation side - outlet (Victaulic 5")
4	Dissipation side - inlet (Victaulic 5")
5	De-superheater water outlet 2"
6	Desuperheater water inlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 1" 1/4 F

**CHILLER FLOW SWITH POSITION: 1-4**

**CLOSING PANELLING AVAILABLE ON REQUEST**

**LEGEND WRE H**

1	User side - inlet (Victaulic 5")
2	User side - outlet (Victaulic 5")
3	Dissipation side - inlet (Victaulic 5")
4	Dissipation side - outlet (Victaulic 5")
5	Desuperheater water inlet 2"
6	De-superheater water outlet 2"
7	Vibration dumpers
8	Lifting points
9	Power supply input
10	User interface
11	Outlet safety valve G. 1" 1/4 F

**HEAT PUMP FLOW SWITH POSITION: 1-3**

**CLOSING PANELLING AVAILABLE ON REQUEST**