

ECOFRIO v2 / ECOFRIO v2 Plus Air cooled chiller / heat pump

YLCA 12 to 27 / YLHA 12 to 27 Plus

A complete range from 12 kW up to 25.8 kW



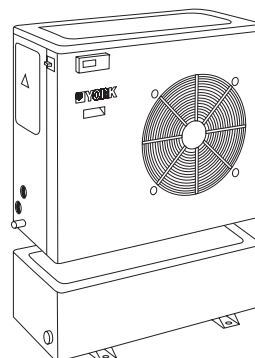
Indoor water terminals: see page 86

Features

- Scroll compressor units
- Very compact units
- High efficiency units
- Leaving and return water temperature control
- Hydro pack standard
- Buffer tank suppression function
- Dynamic set point function
- Fan speed control as standard
- Coated condenser fins as standard (blue fin)
- Flow switch and water filter included

Options / Accessories

- Condenser copper fins
- BMS Communication
- Remote control / Remote terminal
- High pressure fans
- External buffer tank
- Tray cable heater (YLHA Plus)
- Condenser protection grill



External Buffer tank in accessories

ECOFRIO v2 / ECOFRIO v2 Plus

YLCA 12 to 27 / YLHA 12 to 27 Plus



Technical features

T Three phases supply C Hydro Pack

Model	YLCA G1				YLHA PLUS G1					
	12 TC	15 TC	20 TC	27 TC	12 TC	15 TC	20 TC	27 TC		
Performance	Cooling capacity (1)	kW	12.4	14.5	19.5	25.6	12	13.8	19.4	25.8
	Total Input Power (1)	kW	4.2	5.4	6.9	9.1	4.2	5.5	7	8.9
	EER (1)		2.97	2.52	2.81	2.81	2.88	2.52	2.75	2.9
	ESEER		3.20	2.91	3.24	3.17	3.08	2.91	3.17	3.25
	Heating capacity (1)	kW	-	-	-	-	12.4	16.1	20.9	27.5
	Total Input Power (1)	kW	-	-	-	-	4.2	5.2	6.6	8.6
	COP (1)		-	-	-	-	3.0	3.12	3.17	3.2
	Heating capacity (2)	kW	-	-	-	-	12.6	16.4	20.5	26.8
	COP (2)		-	-	-	-	3.86	4.0	3.79	3.8
	Capacity steps	%	0 / 100							
Sound power level	dB(A)	73	73	74	78	73	73	74	78	
Sound pressure level at 10 m	dB(A)	43	43	44	48	43	43	44	48	
Compressor	Type	Scroll								
	Quantity	1								
Air side heat exchanger	Fans quantity	2								
	Working ambient temp. cool / heat mode	(5) (-18°C) -10°C ~ 46°C				-18°C ~ 46°C		-18°C ~ 46°C / -15°C ~ 20°C		
Water side heat exchanger	Type	Plate Heat Exchanger								
	Unit water volume	Litres	1.5	2	2.8	3.2	1.5	2	2.8	3.2
	Pump Type	Multi stage								
	Nominal water flow in cooling	l/h	2 065	2 530	3 360	4 405	1 980	2 375	3 335	4 440
	Available pressure (1) (3)	kPa	113	149	129.5	182	116	157.5	124	182
	Working water leaving temp. cooling/heating mode (4)	°C	-5°C to 15°C / 30°C to 50°C							
	Water connections	inch	1"	1 1/4"			1"	1 1/4"		
Dimensions & Weight	Height / Width / Depth	mm	1 270 / 905 / 460	1270/1430/502	1270/1876/502	1 270 / 905 / 460	1270/1430/502	1270/1876/502	1270/1876/502	
	Weight	kg	146	160	220	290	150	164	235	330
Electrical features	Voltage / Phases / Frequency	V/ph/hz	400-3-50+N+E							
	Maximum Unit current	A	11.6	15.8	18.1	23	11.6	12.4	15.5	21

(1) net values at Nominal conditions (2) net values at floor heating conditions (3) with filter (4) below 6°C with glycol (5) -18°C with LAK option

Nominal conditions: Cooling capacities for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature

Heating capacities for 45°C water leaving temperature Δt 5°C and 7°C ambient temperature

Floor heating conditions: Heating capacities for 35°C water leaving temperature Δt 5°C and 7°C ambient temperature

Compatibility table / Codes

YLCA Model	12 TC	15 TC	20 TC	27 TC				
Cooling only units (Pack included)	S668551282	S668551582	S668552082	S668552782				
YLHA Plus Model	12 TC	15 TC	20 TC	27 TC				
Heat pump units (Pack included)	S668651285	S668651585	S668652085	S668652785				

Use this unit code when a factory fitted option is NOT required

Accessories (Supplied loose)

Water tank	30 Liters	S613990300	-	S613990300					
	115 Liters	-	S613991150	-	S613991150				
Water tank + heater	30 L + 4.5 kW (3~)	-	-	S613990305	-				
	30 L + 6 kW (3~)	-	-	S613990306	-				
	115 L + 10.5 kW (3~)	-	-	-	S613991151				
Remote control					S613802011				
Remote terminal					S613802231				
BMS Communication					S613802041				
Anti vibration mounting	S613029001	S613029002		S613029001	S613029002				
Compressor heater	S613760322	STANDARD		S613760322	STANDARD				
Tray cable heater					S611080788				

YLCA Model	12 TC	15 TC	20 TC	27 TC				
Cooling only units (Pack included)	S668000010	S668000012	S668000014	S668000016				
YLHA Plus Model	12 TC	15 TC	20 TC	27 TC				
Heat pump units (Pack included)	S6686000239	S6686000242	S6686000243	S6686000244				

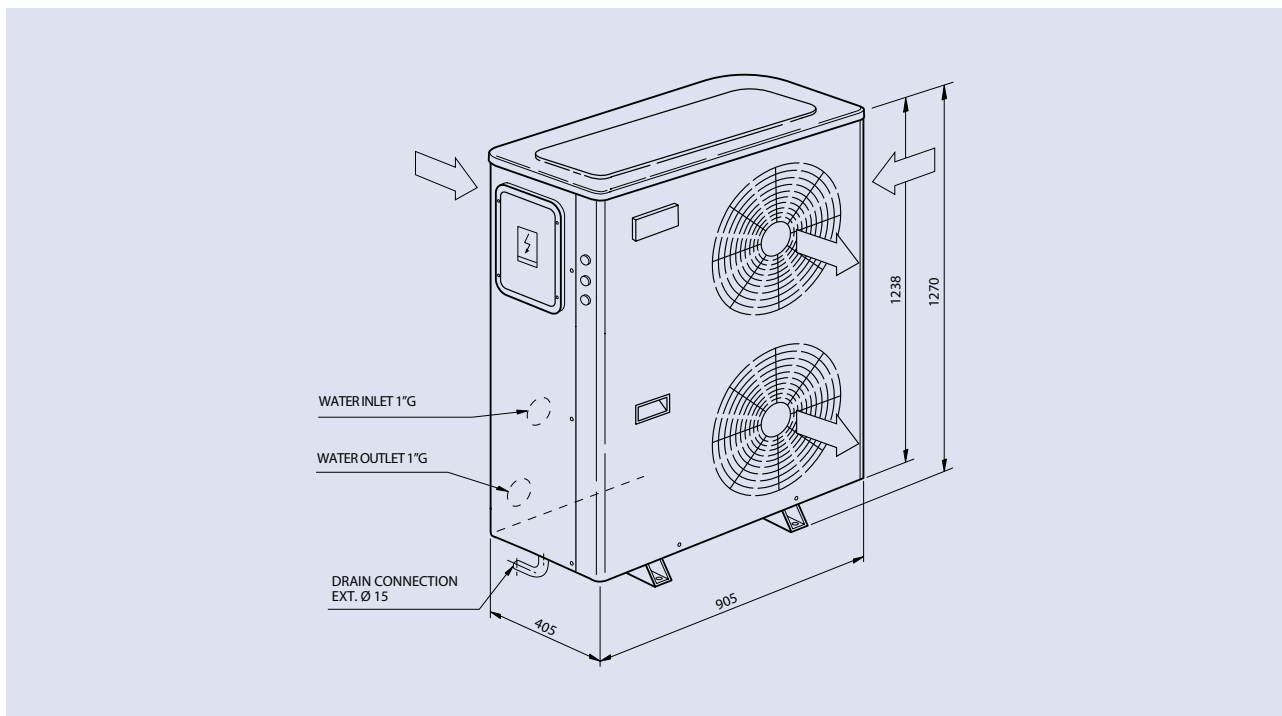
Use this unit code when a factory fitted option is required

Options (Factory fitted)

High pressure fans	S611991083		S611991085	S611991083		S611991085	
Condenser protection grill	S613995085	S61399086	S61399087	S613995085	S61399086	S61399087	
LAK -18°C	S613112083		STANDARD				

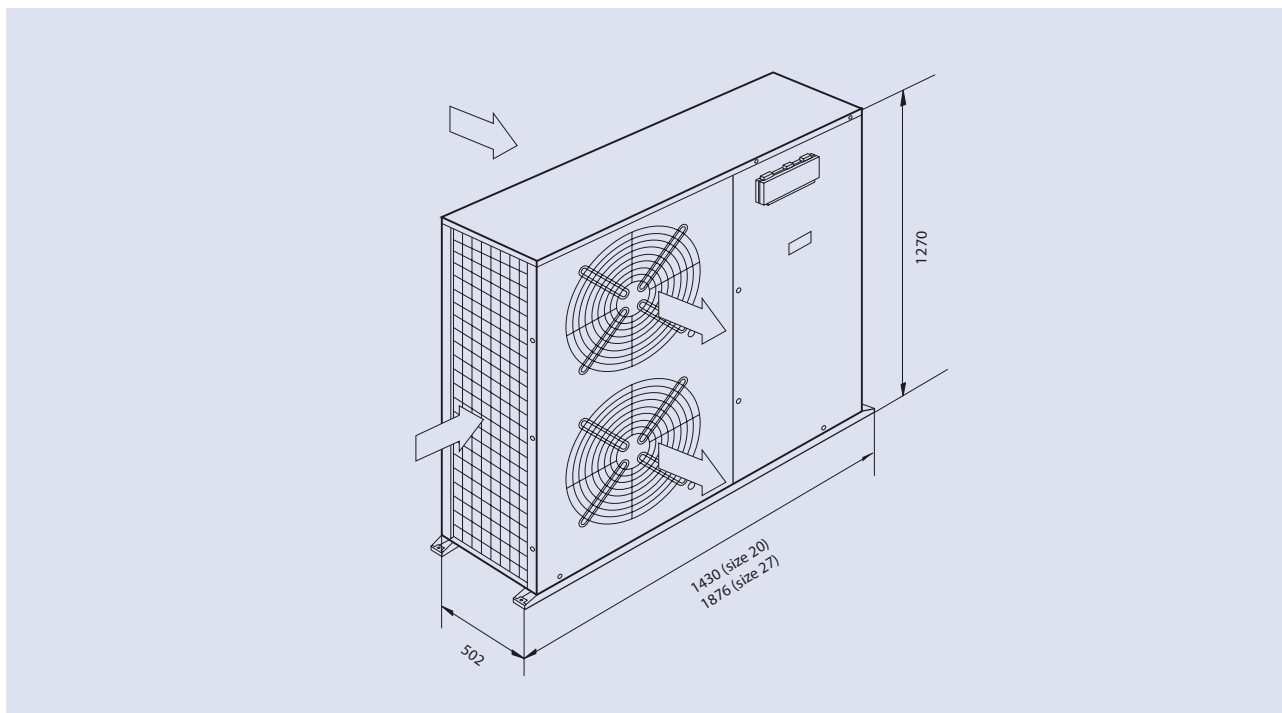
Dimensions, hydraulic connections and space requirements

YLCA-YLHA PLUS 12/15 TC



All dimensions in mm. Drawings not a scale.

YLCA-YLHA PLUS 20/27 TC

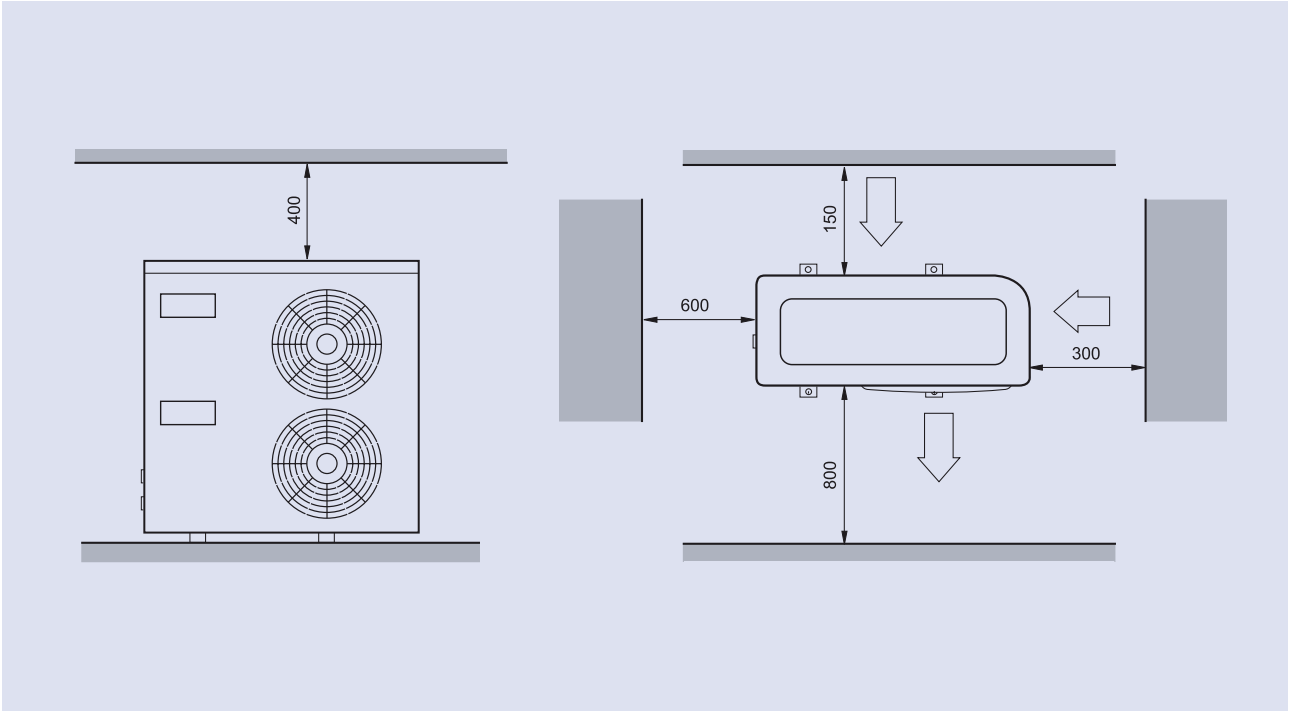


All dimensions in mm. Drawings not a scale.

YLCA-YLHA PLUS 12 to 27

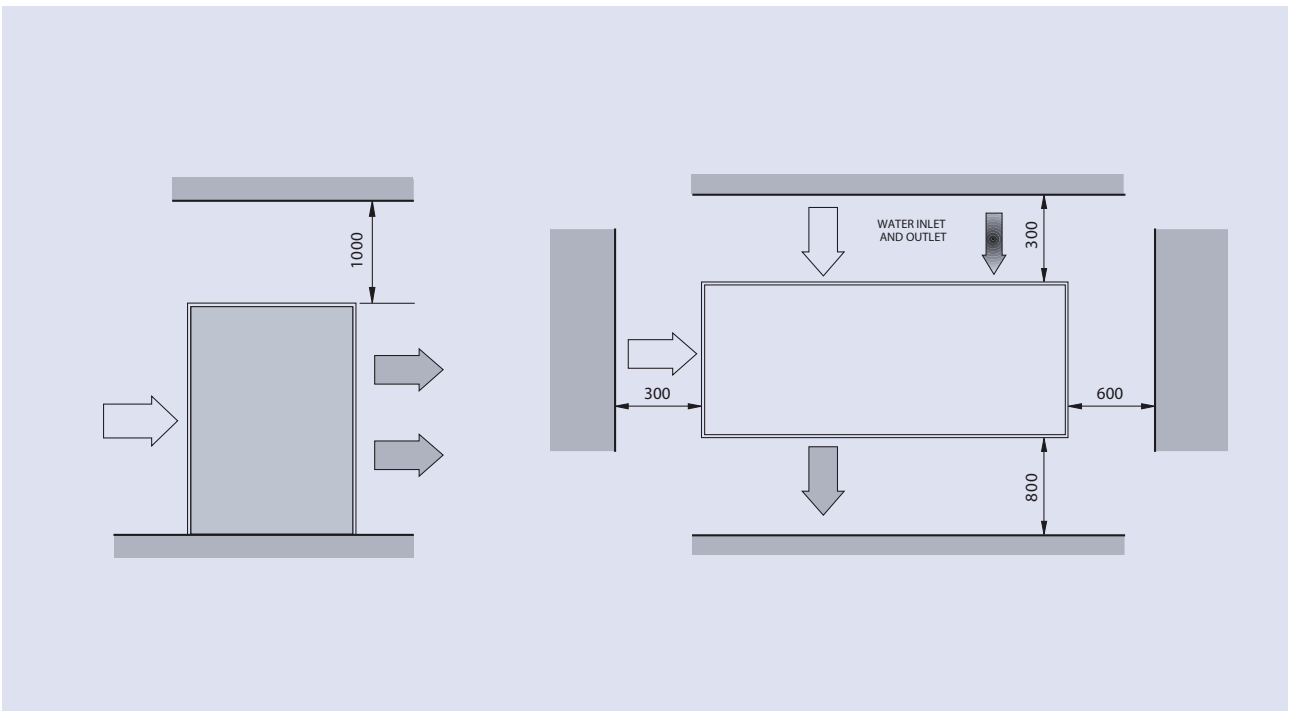


Models YLCA-YLHA PLUS 12/15



All dimensions in mm. Drawings not a scale.

Models YLCA-YLHA PLUS 20/27



All dimensions in mm. Drawings not a scale.

ECOFRIO v2

Air cooled chiller / heat pump

YLCA / YLHA 40 to 150

A complete range from 39.6 kW up to 151 kW



Indoor water terminals: see page 86

Features

- YLCA/YLHA 40 to 80
- 2 capacity steps (1 for size 40)
 - LWT & RWT Control
 - Hydro Pack standard
 - Buffer tank integrated
 - Plate heat exchanger
 - Condenser fins (blue fin)
 - Pressostatic LAK (-18°C)

- YLCA/YLHA 100 to 150
- Same features as YLCA/YLHA 40 to 80
 - 4 capacity steps
 - High efficiency at full and partial load
 - Reduced noise levels
 - 1/4 turn lock for easy access

Options / Accessories

- Unit without pack
- BMS Communication
- Remote control
- Remote terminal
- Water filter (unit without Hydro Pack)
- Flow switch (unit without Hydro Pack)
- Low noise version
- Dual pump version
- Antivibration mountings
- Condenser protection grille

ECOFRIO v2

YLCA / YLHA 40 to 150



Technical features

T Three phases supply P Hydro Pack H Heat pump

Model		YLCA / YLHA															
		40 T-TP	50 T-TP	60 T-TP	80 T-TP	100 T-TP	120 T-TP	150 T-TP									
Performance	Cooling capacity c/o units (1)	kW		39.6	52.1	60.5	77.6	98	119	151							
	Total Input Power (1) (3)	kW		13.26	17.96	19.6	26.6	33.8	40	53.6							
	EER (1)			2.99	2.9	3.09	2.92	2.9	2.98	2.82							
	ESEER (1)			3.31	3.24	3.44	3.26	3.56	3.80	3.60							
	Cooling capacity h/p units (1)	kW		37.8	52	60.5	72.2	96	114	145							
	Heating capacity h/p units (1)	kW		38.6	52.5	59.6	74.7	104	119.6	150							
	Total Input Power cool/heat mode (1)	kW		13.3 / 12.6	17.3 / 17.9	19.6 / 19.8	26 / 26.4	35.5 / 37.1	43.2 / 39.6	50.6 / 53.5							
	EER / COP (1)			2.84/3.14	3/2.93	3.09/3.01	2.78/2.83	2.7 / 2.8	2.64/3.02	2.87/2.8							
	ESEER (1)			3.30	3.24	3.44	3.26	3.65	3.71	3.7							
	Capacity steps	%		0 / 100	0-50-100			0-25-50-75-100									
Compressor	Type	Scroll															
	Quantity	1		2			3		4								
Air side heat exchanger	Fans quantity	2		3			4										
	Working ambient temp. cool. / heat. mode (4)	-18°C ~ 46°C / -10°C ~ 20°C															
Water side heat exchanger	Type	Single Plate Heat Exchanger				Dual Plate Heat Exchanger											
	Unit water volume (2)	Litres		131	188	194	285	193	195	214							
	Pump Type	Multistage horizontal pumps															
	Nominal water flow	l/h		6 820	8 960	10 400	13 350	17 600	20 470	25 970							
	Available pressure (1) (2)	kPa		105	108	158	123	187	202	186							
	Pressure drop (1) (3)	kPa		75	40	51	61	54	32	27.5							
	Working range water leaving temperature cooling / heating (5)	-5°C ~ 15°C / 30°C ~ 50°C															
Dimensions & Weight	Water connections (2)	inch		1 1/4"			2"		2 1/2"								
	Height / Width / Depth	mm		1573/1500/822			1600 / 1011 / 2104		1600/1118/2944		2190 / 1101 / 3416		2263/1101/3770				
	Weight without pack / pack c/o	kg		340 / 380		524 / 580		555 / 611		715 / 785		1 124 / 1 220		1 190 / 1 286		1 415 / 1 503	
Electrical features	Weight without pack / pack h/p	kg		337 / 397		537 / 593		568 / 624		735 / 805		1 154 / 1 250		1 220 / 1 316		1 445 / 1 703	
	Voltage / Phases / Frequency	V/ph/hz		400 / 3 / 50+N+E													
	Maximum Unit current	A		33		46.2		49.2		70.5		80		108		120	

YLCA: Cooling only units models. YLHA: Air to water heat pump models.

(1) net values at Eurovent nominal conditions (2) version P with hydro kit with filter (3) version without hydro kit (4) -18°C with LAK option (5) below 6°C with glycol

Nominal conditions: Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature

Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature

Compatibility table / Codes

Model	40 TP	50 TP	60 TP	80 TP	100 TP	120 TP	150 TP
YLCA Cooling only unit (Pack included)	S668554084	S668525182	S668526182	S668528182	S668521182	S668551156	S668551507
YLHA Heat pump unit (Pack included)	S668654084	S668625182	S668626182	S668628182	S668621182	S668651156	S668651506

Model	40 T	50 T	60 T	80 T	100 T	120 T	150 T
YLCA Cooling only unit (without Pack)	S668554080	S668525180	S668526180	S668528180	S668521180	S668551154	S668551503
YLHA Heat pump unit (without Pack)	S668654080	S668625180	S668626180	S668628180	S668621180	S668651154	S668651504

Use this unit code when a factory fitted option is NOT required

Accessories (Supplied loose)

AVM mounting	S613029002	S613026080	S613028180	S613021580
Mechanical flow switch		S611992021		
Water Filter *	S611300150	S611300170	S611300190	
Remote control		S613802011		
Remote terminal		S613802231		
Cable for remote connection of the terminal		-	S613802241	
B.M.S. Communication		S613802041	S613802051	

Model	40 TP	50 TP	60 TP	80 TP	100 TP	120 TP	150 TP
YLCA Cooling only unit (Pack included)	S668000226	S668000247	S668000251	S668000255	S668000259	S668000107	S668000111
YLHA Heat pump unit (Pack included)	S668000228	S668000248	S668000252	S668000256	S668000260	S668000131	S668000135

Model	40 T	50 T	60 T	80 T	100 T	120 T	150 T
YLCA Cooling only unit (without Pack)	S668000038	S668000245	S668000249	S668000253	S668000257	S668000105	S668000109
YLHA Heat pump unit (without Pack)	S668000039	S668000246	S668000250	S668000254	S668000258	S668000129	S668000133

Use this unit code when a factory fitted option is required

Options (Factory fitted)

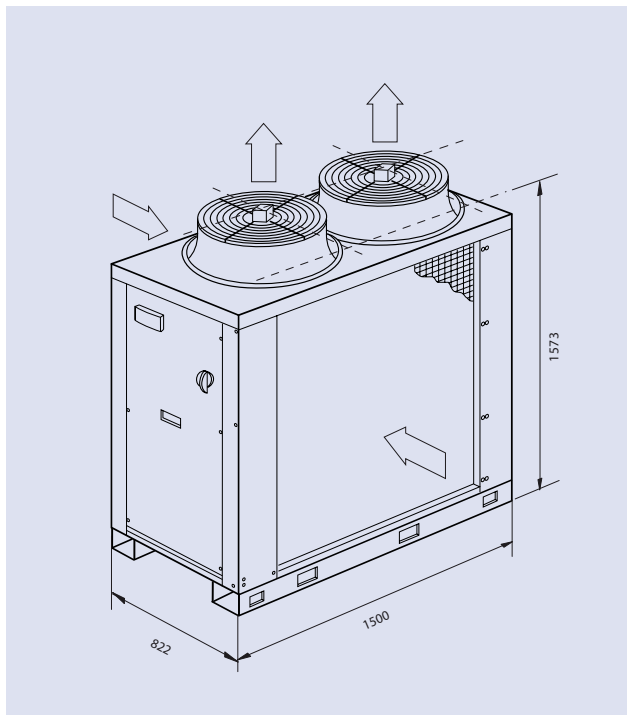
Low Noise version	NA	S613990650	S613990850	S613991050	S613991285	S613991584	
Softstart	S606744692	S606744693			S606744694		
Dual pumps	NA	S613990540	S613990640	S613990840	S613991040	S613991286	S613991585
Condenser protection grille	S613995090	S613995091	S613995092	S613995093	S613995094		

* included with unit version "P" only for unit without pack. Filter size: 2" for YLCA 40-50-60-80 and 2 1/2" for YLHA 100-120-150.

NA= Not available

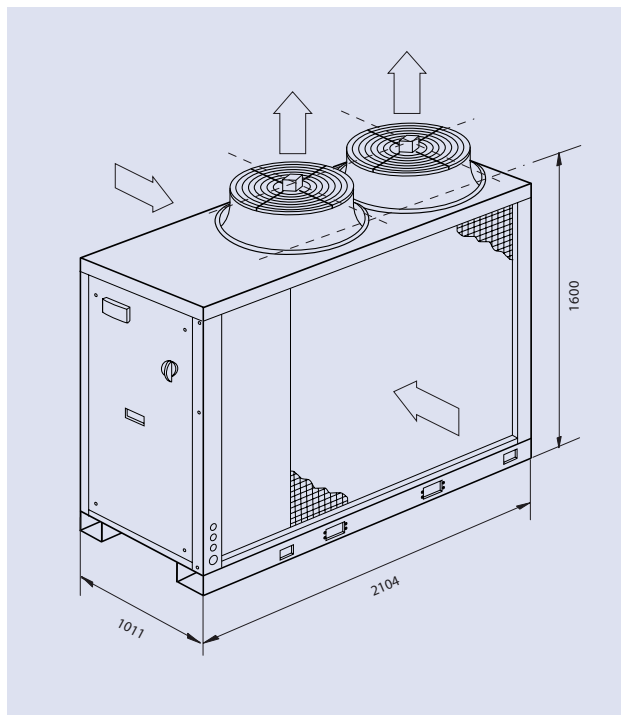
Dimensions, hydraulic connections and space requirements

YLCA-YLHA 40 T-TP



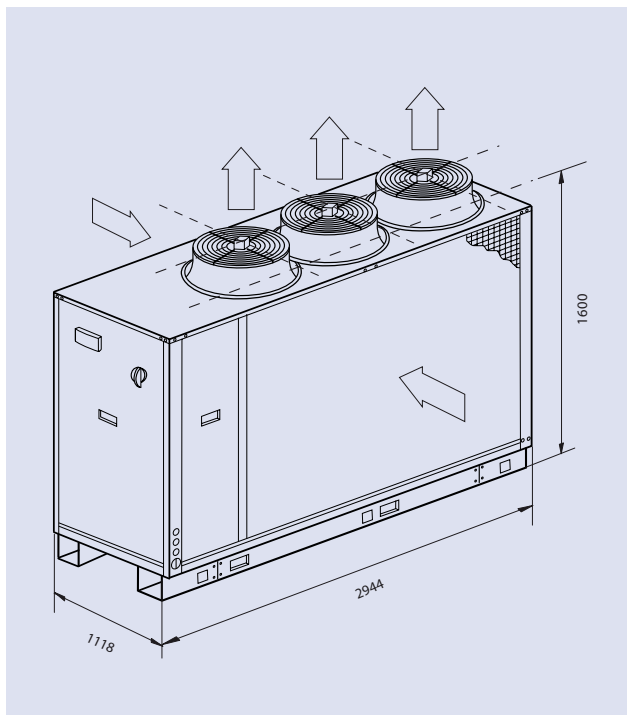
All dimensions in mm. Drawings not a scale.

YLCA-YLHA 50 and 60 T-TP



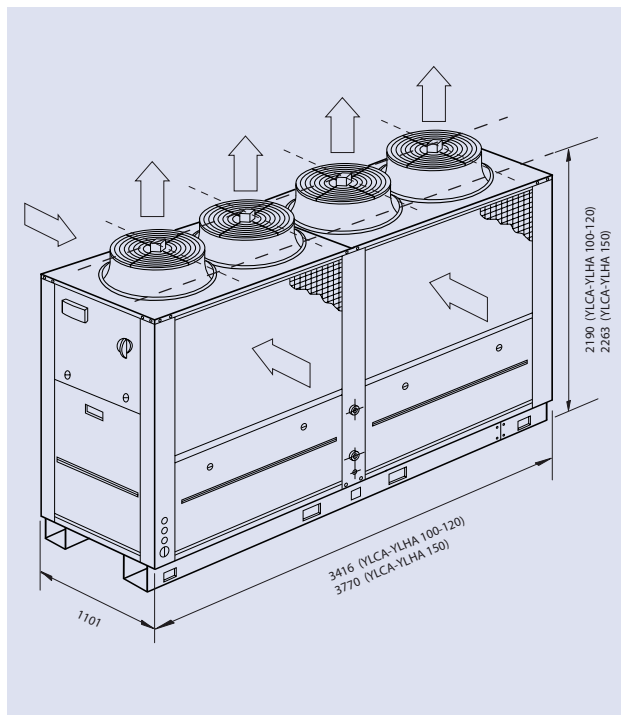
All dimensions in mm. Drawings not a scale.

YLCA-YLHA 80 T-TP



All dimensions in mm. Drawings not a scale.

YLCA-YLHA 100, 120 and 150 T-TP

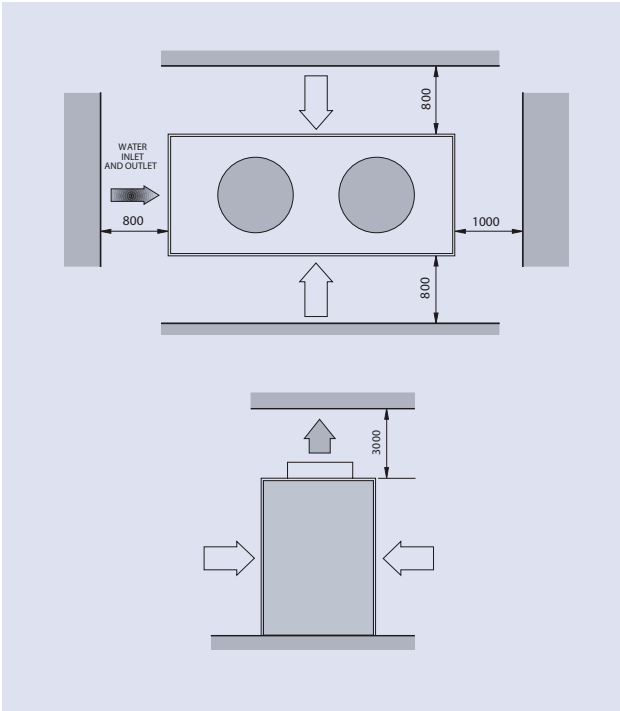


All dimensions in mm. Drawings not a scale.

YLCA / YLHA 40 to 150

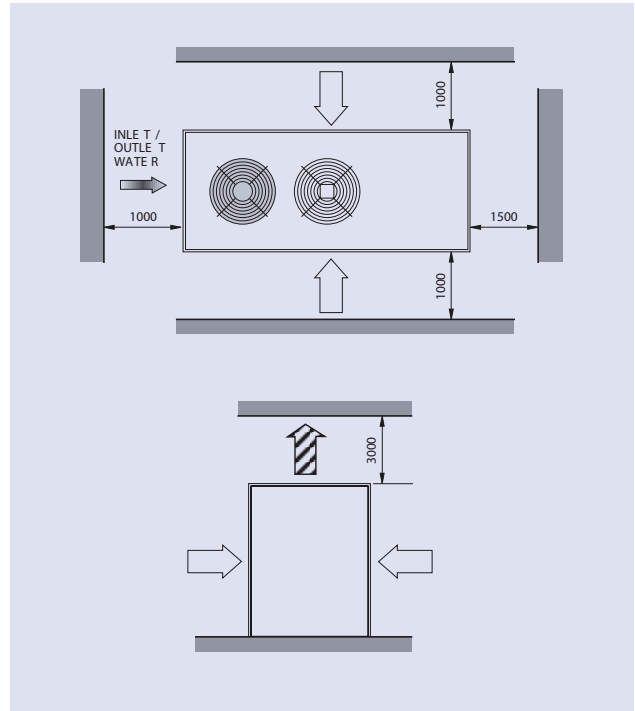


YLCA-YLHA 40 T-TP



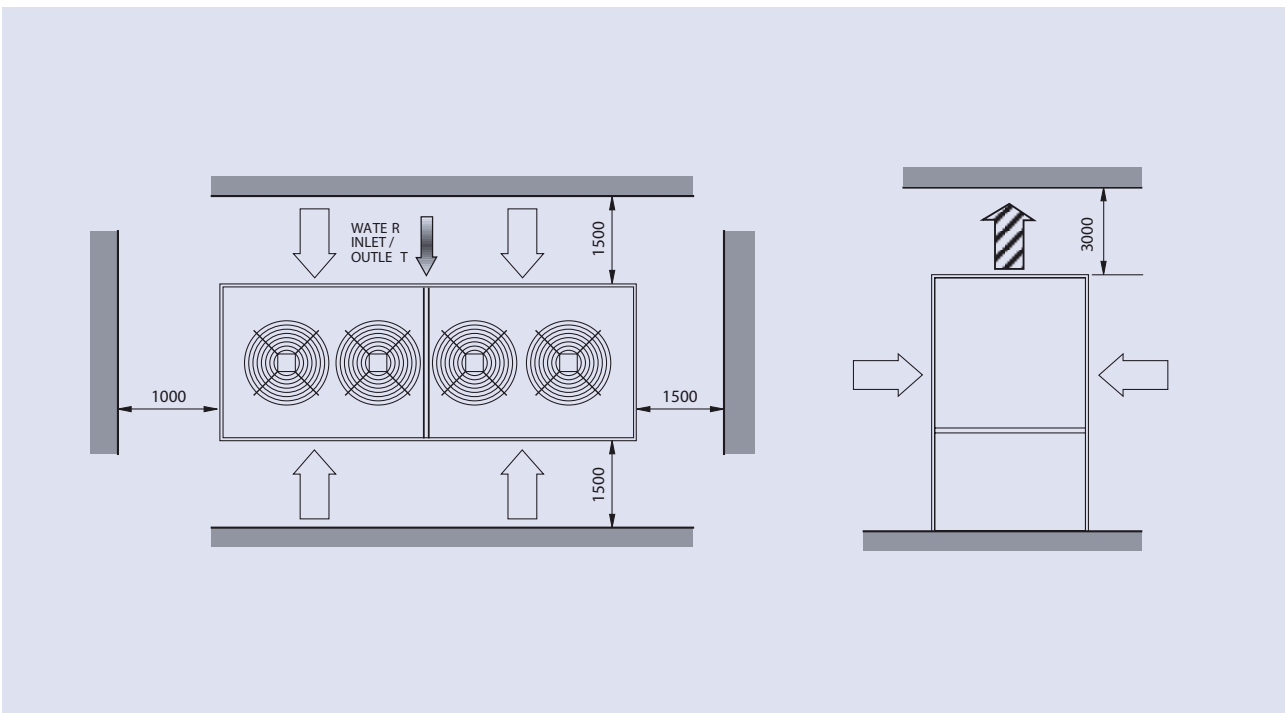
All dimensions in mm. Drawings not a scale.

YLCA-YLHA 50, 60 and 80 T-TP



All dimensions in mm. Drawings not a scale.

YLCA-YLHA 100, 120 and 150 T-TP



All dimensions in mm. Drawings not a scale.



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